

PHILIPS Day-Brite CFI

Recessed

FluxGrid 2x2

3000, 3800, or 4500 lumens



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lumens: _____ Qty: _____
 Notes: _____

The Philips Day-Brite / Philips CFI FluxGrid LED recessed offers architectural appeal with “must have” features. Two different lens styles, discrete air handling, integral emergency, and access to the boards and driver from below make FluxGrid an ideal solution for a wide range of applications.

Ordering guide

Example: 2FGG38B840-2-D-UNV-DIM

| Width | Family | Ceiling Type | Air Function | Lumens | Color | Length | Center Diffuser | Voltage | Driver | Options |
|-------|-------------|--------------|---|--|--|--------|---|--|---|---|
| 2 | FG | G | | | | 2 | | | | |
| 2 2' | FG FluxGrid | G Grid | Blank ¹ Static H Air return | <i>Standard Configurations</i> 30L 3000 nominal delivered lumens 38L 3800 nominal delivered lumens 45L 4500 nominal delivered lumens <i>Base Configurations</i> 38B¹ 3800 nominal delivered lumens | 830 80 CRI, 3000K 835¹ 80 CRI, 3500K 840¹ 80 CRI, 4000K 850 80 CRI, 5000K | 2 2' | D¹ Diffuse (ribbed) DS¹ Diffuse (smooth) | UNV¹ Universal voltage 120-277V 120² 120V 277² 277V 347 347V | DIM^{1,3,4} 0-10V dimming SDIM Step dimming to 40% input power XDIM² MarkX phase dimming L3D⁵ Lutron Hi-lume A 1% dimming LDE Lutron LDE5 5% dimming DALI DALI | F1¹ 3/8" flex, 3 wire 18 gauge 6' F2¹ 3/8" flex, 4 wire 18 gauge 6' F1/D¹ 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/SW¹ 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W¹ 3/8" single flex, 6 wire 18 gauge 6' for dimmable and EMLED luminaires GLR¹ Fusing, fast blow EMLED^{1,6} Integral emergency battery pack SWZDT⁷ Integral sensor, daylighting and occupancy, advanced grouping with dwell time DAYOC⁷ Integral sensor, daylighting and occupancy, basic grouping CHIC¹ Chicago Plenum rated |

Footnotes:

- 1 Base configurations available with noted options.
- 2 XDIM requires 120V or 277V specification.
- 3 Integral SWZDT and DAYOCC options dimmable to 5% via wireless wall switch.
- 4 0-10v dimming to 1% for Standard, and 5% for Base configurations.
- 5 Specify 38L or 45L lumen packages only.
- 6 Philips Bodine BSL310, 1100lm nominal delivered.
- 7 Specify DIM driver option only.

Accessories (order separately)

- **FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting
- **FGD2L** – FG 2' ribbed replacement lens
- **FGDS2L** – FG 2' smooth replacement lens
- **FGHD2L** – FG 2' air return ribbed replacement lens
- **FGHDS2L** – FG 2' air return smooth replacement lens

Energy data

| Luminaire | Catalog Number | Input Power | Efficacy |
|--------------|----------------|-------------|----------|
| 2x2 Standard | 2FGG30L840 | 27.1 | 112 |
| | 2FGG38L840 | 33.4 | 110 |
| | 2FGG45L840 | 44.6 | 106 |
| 2x2 Base | 2FGG38B840 | 33.6 | 114 |



2FG FluxGrid LED recessed 2x2

3000, 3800, or 4500 lumens

Application

- 3" deep low profile configuration provides minimal penetration into the plenum space
- Acrylic diffuser available in ribbed and smooth configurations provides even illumination with comfortable appeal
- Standard and base configurations available in multiple lumen packages to suit the needs of various applications
- Lambertian distribution creates uniform horizontal and vertical illumination on the work plane and reduces scalloping on the walls
- CRI 80 minimum color rendering with balanced spectrum
- LEDs coupled with standard dimming provide prolonged lumen maintenance. Optional integral sensors contribute further to LED lumen maintenance
- Designed for use with standard Grid (NEMA "G") T-bars. Drywall or plaster applications require use with the FMA24 "F" mounting frame accessory (sold and shipped separately)
- Continuous row mounting is possible with a 1" gap between fixtures accommodated by others
- Metal side covers are die formed with a conical shape to enhance light distribution and visual aesthetic
- Injection molded lens retainers allow for easy, tool-free access to the LED boards and driver from below, and provide positive lens retention
- Luminaire finish is matte white polyester powder coat for high quality, durable finish
- T-bar grid clips are integral to the body
- Air return option provides air flow through a unique lens retainer design. Air passes through architectural forms in the lens retainers (each end), and through the end plate of the luminaire. A cover plate is provided to control air flow through the luminaire, or make it static as required
- Integral controls options include sensor mounted in one lens retainer. Controls are commissioned via intuitive Philips app on a Droid smartphone either through NFC or an IR blaster
- EMLED option requires the emergency battery pack be installed with a top side cover. Access from above
- Base configurations provide up to 124 lumens per watt and are available in 4200 lumen flux and 3500K and 4000K color temperatures
- LED boards are accessible from below by removal of the lens. Lens removal is tool-free by compressing the sides and pushing to one end
- LED driver is accessible from below by removal of the lens and integral wireway cover. The wireway cover is easily removed with a flat head screwdriver
- Other driver options including step dimming (SDIM, 100%/40%), DALI, phase dimming (XDIM), and Lutron are available
- Five year limited luminaire warranty includes LED boards and driver. Visit www.philips.com/warranties for complete warranty information.
- TM-21 predicted L70 lumen maintenance up to 85,000 hours
- cETLus listed to UL and CSA standards, suitable for damp locations
- FluxGrid luminaires are DesignLights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>)

Enclosure

- Opal acrylic diffuser provides visually comfortable lumenance without compromise to luminaire efficacy.
- Diffuser requires no frames or fasteners and can be easily removed from below without the use of tools

Construction/Finish

- Uncomplicated design is 3" deep with minimal material overlap creating several benefits:
 - Less material required
 - Less packaging required
 - Reduced weight for ease of handling and transit
 - Less energy required for construction and assembly
 - More luminaires can be shipped per truck to reduce fuel consumption

General notes

- All options are factory installed
- All accessories are field installed
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility

Electrical

- Integral sensor options for occupancy sensing and/or daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor
- Standard configurations provide up to 120 lumens per watt and are available with 5 lumen packages and 3000, 3500, 4000, and 5000K color temperatures

DAYOCC & SpaceWise DT (SWZDT)

- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible wireless wall switch only (see below)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- For more information including recommended switches, refer to the following –

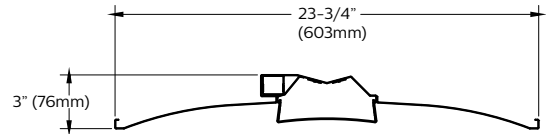
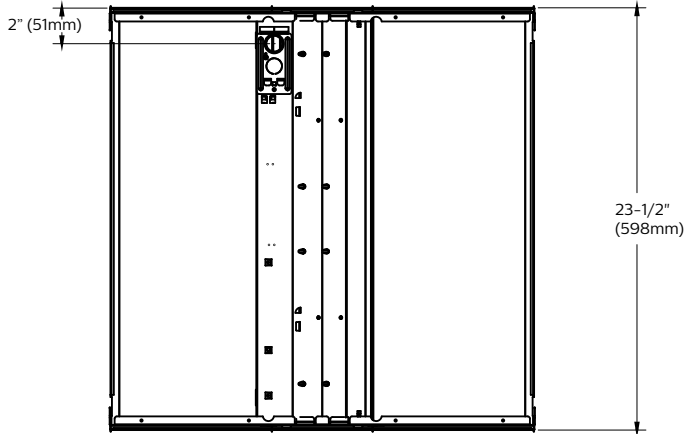
DAYOCC – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/DAYOCC_sensor.pdf

SWZDT – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZDT_sensor.pdf

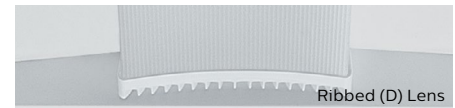
2FG FluxGrid LED recessed 2x2

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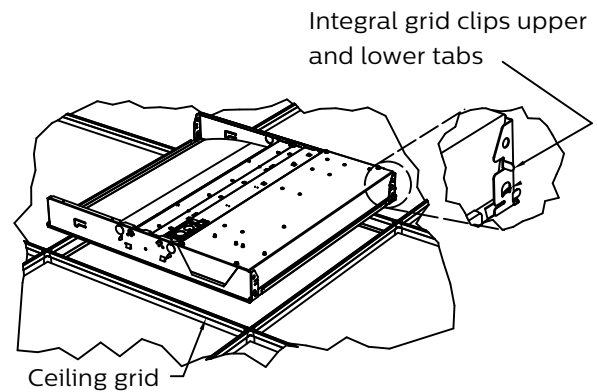
Dimensions



Controls sensor integrated into one lens retainer.



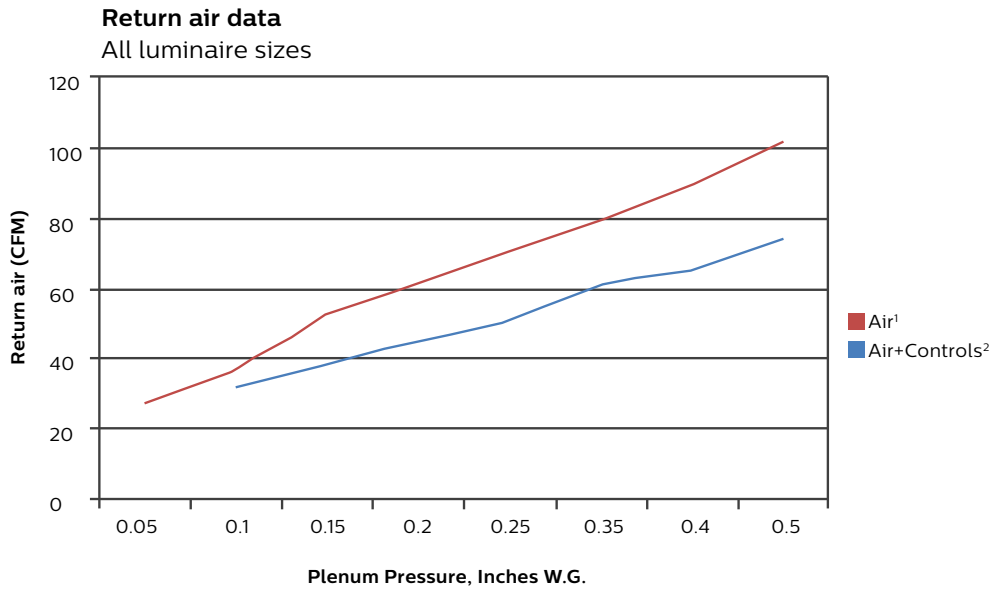
The air return option allows air to flow through vents in the lens retainers on each end. Air blades are provided on each end of the luminaire to control air flow to the plenum.



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Air return



Return air - noise criteria

All luminaire sizes

| | | CFM | | | | | | | |
|------|---------|-----|----|----|----|----|----|----|-----|
| Mode | | 27 | 37 | 53 | 62 | 71 | 80 | 90 | 102 |
| Air¹ | NC (dB) | <15 | 24 | 25 | 29 | 33 | 35 | 38 | 40 |

| | | CFM | | | | | | | |
|---------------|---------|-----|-----|----|----|----|----|----|----|
| Mode | | | 31 | 38 | 45 | 51 | 61 | 65 | 74 |
| Air+Controls² | NC (dB) | | <15 | 19 | 21 | 25 | 28 | 30 | 34 |

1. Air-only option includes air return lens retainers and pattern control blades on both ends of luminaire.
2. Air+Controls includes the air return lens retainer and pattern control blade on one end of the luminaire. Control lens retainer on the other with matching width.

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Photometry

2x2 FluxGrid recessed LED, base configuration, 3800 nominal delivered lumens

LER - 114

| <p>Catalog No. 2FGG38B840-2-D-UNV-DIM Test No. 36779 S/MH 1.2 Lamp Type LED Lumens 3828 Input Watts 34</p> <p>Comparative yearly lighting energy cost per 1000 lumens – \$2.11 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p> | <p>Candlepower</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> <th>Back-45</th> </tr> </thead> <tbody> <tr><td>0</td><td>1465</td><td>1465</td><td>1465</td><td>1465</td></tr> <tr><td>5</td><td>1444</td><td>1458</td><td>1460</td><td>1458</td></tr> <tr><td>15</td><td>1371</td><td>1377</td><td>1376</td><td>1377</td></tr> <tr><td>25</td><td>1227</td><td>1229</td><td>1240</td><td>1229</td></tr> <tr><td>35</td><td>1033</td><td>1052</td><td>1073</td><td>1052</td></tr> <tr><td>45</td><td>816</td><td>861</td><td>896</td><td>861</td></tr> <tr><td>55</td><td>599</td><td>666</td><td>718</td><td>666</td></tr> <tr><td>65</td><td>364</td><td>481</td><td>542</td><td>481</td></tr> <tr><td>75</td><td>181</td><td>277</td><td>332</td><td>277</td></tr> <tr><td>85</td><td>35</td><td>77</td><td>89</td><td>77</td></tr> </tbody> </table> | Angle | End | 45 | Cross | Back-45 | 0 | 1465 | 1465 | 1465 | 1465 | 5 | 1444 | 1458 | 1460 | 1458 | 15 | 1371 | 1377 | 1376 | 1377 | 25 | 1227 | 1229 | 1240 | 1229 | 35 | 1033 | 1052 | 1073 | 1052 | 45 | 816 | 861 | 896 | 861 | 55 | 599 | 666 | 718 | 666 | 65 | 364 | 481 | 542 | 481 | 75 | 181 | 277 | 332 | 277 | 85 | 35 | 77 | 89 | 77 | <p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1092</td><td>28.5</td></tr> <tr><td>0-40</td><td>1750</td><td>45.7</td></tr> <tr><td>0-60</td><td>3005</td><td>78.5</td></tr> <tr><td>0-90</td><td>3830</td><td>100</td></tr> <tr><td>0-180</td><td>3830</td><td>100</td></tr> </tbody> </table> | Degrees | Lumens | % Luminaire | 0-30 | 1092 | 28.5 | 0-40 | 1750 | 45.7 | 0-60 | 3005 | 78.5 | 0-90 | 3830 | 100 | 0-180 | 3830 | 100 | <p>Average Luminance</p> <table border="1"> <thead> <tr> <th>Zone</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>14765</td><td>15577</td><td>16218</td></tr> <tr><td>55</td><td>13366</td><td>14854</td><td>16007</td></tr> <tr><td>65</td><td>11026</td><td>14550</td><td>16415</td></tr> <tr><td>75</td><td>8928</td><td>13683</td><td>16392</td></tr> <tr><td>85</td><td>5123</td><td>11304</td><td>13036</td></tr> </tbody> </table> | Zone | End | 45° | Cross | 45 | 14765 | 15577 | 16218 | 55 | 13366 | 14854 | 16007 | 65 | 11026 | 14550 | 16415 | 75 | 8928 | 13683 | 16392 | 85 | 5123 | 11304 | 13036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-------|---------|-------|---------|-----|------|------|------|------|------|------|------|------|------|----|------|------|------|------|----|------|------|------|------|----|------|------|------|------|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|---|---------|--------|-------------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|------|-----|--|------|-----|-----|-------|----|-------|-------|-------|----|-------|-------|-------|----|-------|-------|-------|----|------|-------|-------|----|------|-------|-------|----|---|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Angle | End | 45 | Cross | Back-45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1465 | 1465 | 1465 | 1465 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1444 | 1458 | 1460 | 1458 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1371 | 1377 | 1376 | 1377 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1227 | 1229 | 1240 | 1229 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 1033 | 1052 | 1073 | 1052 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 816 | 861 | 896 | 861 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 599 | 666 | 718 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 364 | 481 | 542 | 481 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 181 | 277 | 332 | 277 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 35 | 77 | 89 | 77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees | Lumens | % Luminaire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 1092 | 28.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 1750 | 45.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 3005 | 78.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 3830 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 3830 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone | End | 45° | Cross | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 14765 | 15577 | 16218 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 13366 | 14854 | 16007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 11026 | 14550 | 16415 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 8928 | 13683 | 16392 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 5123 | 11304 | 13036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Coefficients of Utilization</p> <p>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <table border="1"> <thead> <tr> <th>pfc =</th> <th colspan="2">20</th> <th colspan="2">80</th> <th colspan="2">70</th> <th colspan="2">50</th> </tr> <tr> <th>Ceil</th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> </tr> <tr> <th>Wall</th> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> </tr> <tr> <th>RCR</th> <th colspan="8"></th> </tr> </thead> <tbody> <tr><td>0</td><td>118</td><td>118</td><td>118</td><td>115</td><td>115</td><td>115</td><td>111</td><td>111</td></tr> <tr><td>1</td><td>109</td><td>104</td><td>98</td><td>106</td><td>101</td><td>97</td><td>96</td><td>93</td></tr> <tr><td>2</td><td>98</td><td>90</td><td>83</td><td>95</td><td>89</td><td>81</td><td>84</td><td>80</td></tr> <tr><td>3</td><td>90</td><td>79</td><td>70</td><td>88</td><td>78</td><td>69</td><td>75</td><td>68</td></tr> <tr><td>4</td><td>82</td><td>69</td><td>61</td><td>80</td><td>68</td><td>60</td><td>67</td><td>58</td></tr> <tr><td>5</td><td>76</td><td>63</td><td>54</td><td>73</td><td>61</td><td>53</td><td>59</td><td>52</td></tr> <tr><td>6</td><td>69</td><td>56</td><td>47</td><td>68</td><td>56</td><td>46</td><td>54</td><td>46</td></tr> <tr><td>7</td><td>65</td><td>52</td><td>42</td><td>63</td><td>51</td><td>42</td><td>48</td><td>41</td></tr> <tr><td>8</td><td>60</td><td>46</td><td>39</td><td>58</td><td>46</td><td>38</td><td>45</td><td>38</td></tr> <tr><td>9</td><td>56</td><td>42</td><td>34</td><td>55</td><td>42</td><td>34</td><td>41</td><td>34</td></tr> <tr><td>10</td><td>53</td><td>40</td><td>32</td><td>52</td><td>40</td><td>32</td><td>39</td><td>32</td></tr> </tbody> </table> | pfc = | 20 | | 80 | | 70 | | 50 | | Ceil | | | | | | | | | Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | RCR | | | | | | | | | 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | 1 | 109 | 104 | 98 | 106 | 101 | 97 | 96 | 93 | 2 | 98 | 90 | 83 | 95 | 89 | 81 | 84 | 80 | 3 | 90 | 79 | 70 | 88 | 78 | 69 | 75 | 68 | 4 | 82 | 69 | 61 | 80 | 68 | 60 | 67 | 58 | 5 | 76 | 63 | 54 | 73 | 61 | 53 | 59 | 52 | 6 | 69 | 56 | 47 | 68 | 56 | 46 | 54 | 46 | 7 | 65 | 52 | 42 | 63 | 51 | 42 | 48 | 41 | 8 | 60 | 46 | 39 | 58 | 46 | 38 | 45 | 38 | 9 | 56 | 42 | 34 | 55 | 42 | 34 | 41 | 34 | 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 |
| pfc = | 20 | | 80 | | 70 | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ceil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 98 | 106 | 101 | 97 | 96 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 95 | 89 | 81 | 84 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 70 | 88 | 78 | 69 | 75 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 69 | 61 | 80 | 68 | 60 | 67 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 54 | 73 | 61 | 53 | 59 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 68 | 56 | 46 | 54 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 42 | 63 | 51 | 42 | 48 | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 39 | 58 | 46 | 38 | 45 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 55 | 42 | 34 | 41 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2x2 FluxGrid recessed LED, standard configuration, 3000 nominal delivered lumens

LER - 112

| <p>Catalog No. 2FGG30L840-2-D-UNV-DIM Test No. 36780 S/MH 1.2 Lamp Type LED Lumens 3023 Input Watts 27</p> <p>Comparative yearly lighting energy cost per 1000 lumens – \$2.14 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p> | <p>Candlepower</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> <th>Back-45</th> </tr> </thead> <tbody> <tr><td>0</td><td>1171</td><td>1171</td><td>1171</td><td>1171</td></tr> <tr><td>5</td><td>1154</td><td>1165</td><td>1166</td><td>1165</td></tr> <tr><td>15</td><td>1095</td><td>1099</td><td>1100</td><td>1099</td></tr> <tr><td>25</td><td>980</td><td>982</td><td>990</td><td>982</td></tr> <tr><td>35</td><td>825</td><td>840</td><td>858</td><td>840</td></tr> <tr><td>45</td><td>652</td><td>688</td><td>717</td><td>688</td></tr> <tr><td>55</td><td>447</td><td>497</td><td>555</td><td>497</td></tr> <tr><td>65</td><td>292</td><td>359</td><td>405</td><td>359</td></tr> <tr><td>75</td><td>144</td><td>222</td><td>266</td><td>222</td></tr> <tr><td>85</td><td>28</td><td>62</td><td>72</td><td>62</td></tr> </tbody> </table> | Angle | End | 45 | Cross | Back-45 | 0 | 1171 | 1171 | 1171 | 1171 | 5 | 1154 | 1165 | 1166 | 1165 | 15 | 1095 | 1099 | 1100 | 1099 | 25 | 980 | 982 | 990 | 982 | 35 | 825 | 840 | 858 | 840 | 45 | 652 | 688 | 717 | 688 | 55 | 447 | 497 | 555 | 497 | 65 | 292 | 359 | 405 | 359 | 75 | 144 | 222 | 266 | 222 | 85 | 28 | 62 | 72 | 62 | <p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>873</td><td>28.9</td></tr> <tr><td>0-40</td><td>1398</td><td>46.2</td></tr> <tr><td>0-60</td><td>2381</td><td>78.7</td></tr> <tr><td>0-90</td><td>3024</td><td>100</td></tr> <tr><td>0-180</td><td>3024</td><td>100</td></tr> </tbody> </table> | Degrees | Lumens | % Luminaire | 0-30 | 873 | 28.9 | 0-40 | 1398 | 46.2 | 0-60 | 2381 | 78.7 | 0-90 | 3024 | 100 | 0-180 | 3024 | 100 | <p>Average Luminance</p> <table border="1"> <thead> <tr> <th>Zone</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>11803</td><td>12452</td><td>12964</td></tr> <tr><td>55</td><td>9978</td><td>11082</td><td>12387</td></tr> <tr><td>65</td><td>8831</td><td>10868</td><td>12264</td></tr> <tr><td>75</td><td>7133</td><td>10950</td><td>13125</td></tr> <tr><td>85</td><td>4081</td><td>9131</td><td>10540</td></tr> </tbody> </table> | Zone | End | 45° | Cross | 45 | 11803 | 12452 | 12964 | 55 | 9978 | 11082 | 12387 | 65 | 8831 | 10868 | 12264 | 75 | 7133 | 10950 | 13125 | 85 | 4081 | 9131 | 10540 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-------|---------|-------|---------|-----|------|------|------|------|------|------|------|------|------|----|------|------|------|------|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|---------|--------|-------------|------|-----|------|------|------|------|------|------|------|------|------|-----|-------|------|-----|---|------|-----|-----|-------|----|-------|-------|-------|----|------|-------|-------|----|------|-------|-------|----|------|-------|-------|----|------|------|-------|----|---|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Angle | End | 45 | Cross | Back-45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1171 | 1171 | 1171 | 1171 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1154 | 1165 | 1166 | 1165 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1095 | 1099 | 1100 | 1099 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 980 | 982 | 990 | 982 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 825 | 840 | 858 | 840 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 652 | 688 | 717 | 688 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 447 | 497 | 555 | 497 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 292 | 359 | 405 | 359 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 144 | 222 | 266 | 222 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 28 | 62 | 72 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees | Lumens | % Luminaire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 873 | 28.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 1398 | 46.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 2381 | 78.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 3024 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 3024 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone | End | 45° | Cross | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 11803 | 12452 | 12964 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 9978 | 11082 | 12387 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 8831 | 10868 | 12264 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 7133 | 10950 | 13125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 4081 | 9131 | 10540 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Coefficients of Utilization</p> <p>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <table border="1"> <thead> <tr> <th>pfc =</th> <th colspan="2">20</th> <th colspan="2">80</th> <th colspan="2">70</th> <th colspan="2">50</th> </tr> <tr> <th>Ceil</th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> </tr> <tr> <th>Wall</th> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> </tr> <tr> <th>RCR</th> <th colspan="8"></th> </tr> </thead> <tbody> <tr><td>0</td><td>118</td><td>118</td><td>118</td><td>115</td><td>115</td><td>115</td><td>111</td><td>111</td></tr> <tr><td>1</td><td>109</td><td>104</td><td>98</td><td>106</td><td>102</td><td>97</td><td>96</td><td>93</td></tr> <tr><td>2</td><td>98</td><td>91</td><td>83</td><td>95</td><td>89</td><td>81</td><td>84</td><td>80</td></tr> <tr><td>3</td><td>90</td><td>80</td><td>70</td><td>88</td><td>78</td><td>69</td><td>75</td><td>68</td></tr> <tr><td>4</td><td>82</td><td>70</td><td>61</td><td>80</td><td>68</td><td>60</td><td>67</td><td>59</td></tr> <tr><td>5</td><td>76</td><td>63</td><td>54</td><td>73</td><td>61</td><td>54</td><td>59</td><td>53</td></tr> <tr><td>6</td><td>69</td><td>56</td><td>47</td><td>68</td><td>56</td><td>47</td><td>54</td><td>46</td></tr> <tr><td>7</td><td>65</td><td>52</td><td>42</td><td>64</td><td>51</td><td>42</td><td>50</td><td>41</td></tr> <tr><td>8</td><td>60</td><td>46</td><td>39</td><td>58</td><td>46</td><td>39</td><td>45</td><td>38</td></tr> <tr><td>9</td><td>56</td><td>44</td><td>34</td><td>56</td><td>42</td><td>34</td><td>41</td><td>34</td></tr> <tr><td>10</td><td>53</td><td>40</td><td>32</td><td>52</td><td>40</td><td>32</td><td>39</td><td>32</td></tr> </tbody> </table> | pfc = | 20 | | 80 | | 70 | | 50 | | Ceil | | | | | | | | | Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | RCR | | | | | | | | | 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | 1 | 109 | 104 | 98 | 106 | 102 | 97 | 96 | 93 | 2 | 98 | 91 | 83 | 95 | 89 | 81 | 84 | 80 | 3 | 90 | 80 | 70 | 88 | 78 | 69 | 75 | 68 | 4 | 82 | 70 | 61 | 80 | 68 | 60 | 67 | 59 | 5 | 76 | 63 | 54 | 73 | 61 | 54 | 59 | 53 | 6 | 69 | 56 | 47 | 68 | 56 | 47 | 54 | 46 | 7 | 65 | 52 | 42 | 64 | 51 | 42 | 50 | 41 | 8 | 60 | 46 | 39 | 58 | 46 | 39 | 45 | 38 | 9 | 56 | 44 | 34 | 56 | 42 | 34 | 41 | 34 | 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 |
| pfc = | 20 | | 80 | | 70 | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ceil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 98 | 106 | 102 | 97 | 96 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 91 | 83 | 95 | 89 | 81 | 84 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 70 | 88 | 78 | 69 | 75 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 80 | 68 | 60 | 67 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 54 | 73 | 61 | 54 | 59 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 68 | 56 | 47 | 54 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 42 | 64 | 51 | 42 | 50 | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 39 | 58 | 46 | 39 | 45 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 44 | 34 | 56 | 42 | 34 | 41 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2FG FluxGrid LED recessed 2x2

3000, 3800, or 4500 lumens

Photometry

2x2 FluxGrid recessed LED, standard configuration, 3800 nominal delivered lumens

LER - 110

| <p>Catalog No. 2FGG38L840-2-D-UNV-DIM</p> <p>Test No. 36781</p> <p>S/MH 1.2</p> <p>Lamp Type LED</p> <p>Lumens 3682</p> <p>Input Watts 33</p> <p>Comparative yearly lighting energy cost per 1000 lumens – \$2.18 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p> | <p style="text-align: center;">Candlepower</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> <th>Back-45</th> </tr> </thead> <tbody> <tr><td>0</td><td>1419</td><td>1419</td><td>1419</td><td>1419</td></tr> <tr><td>5</td><td>1398</td><td>1411</td><td>1414</td><td>1411</td></tr> <tr><td>15</td><td>1326</td><td>1333</td><td>1333</td><td>1333</td></tr> <tr><td>25</td><td>1187</td><td>1191</td><td>1200</td><td>1191</td></tr> <tr><td>35</td><td>998</td><td>1019</td><td>1039</td><td>1019</td></tr> <tr><td>45</td><td>790</td><td>834</td><td>868</td><td>834</td></tr> <tr><td>55</td><td>580</td><td>644</td><td>695</td><td>644</td></tr> <tr><td>65</td><td>353</td><td>434</td><td>491</td><td>434</td></tr> <tr><td>75</td><td>174</td><td>268</td><td>321</td><td>268</td></tr> <tr><td>85</td><td>33</td><td>76</td><td>85</td><td>76</td></tr> </tbody> </table> | Angle | End | 45 | Cross | Back-45 | 0 | 1419 | 1419 | 1419 | 1419 | 5 | 1398 | 1411 | 1414 | 1411 | 15 | 1326 | 1333 | 1333 | 1333 | 25 | 1187 | 1191 | 1200 | 1191 | 35 | 998 | 1019 | 1039 | 1019 | 45 | 790 | 834 | 868 | 834 | 55 | 580 | 644 | 695 | 644 | 65 | 353 | 434 | 491 | 434 | 75 | 174 | 268 | 321 | 268 | 85 | 33 | 76 | 85 | 76 | <p style="text-align: center;">Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1057</td><td>28.7</td></tr> <tr><td>0-40</td><td>1694</td><td>46</td></tr> <tr><td>0-60</td><td>2903</td><td>78.8</td></tr> <tr><td>0-90</td><td>3683</td><td>100</td></tr> <tr><td>0-180</td><td>3683</td><td>100</td></tr> </tbody> </table> | Degrees | Lumens | % Luminaire | 0-30 | 1057 | 28.7 | 0-40 | 1694 | 46 | 0-60 | 2903 | 78.8 | 0-90 | 3683 | 100 | 0-180 | 3683 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|-------|---------|-------|---------|-----|------|------|------|------|---|------|------|------|------|----|------|------|------|------|----|------|------|------|------|----|-----|------|------|------|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|----|----|-----|-----|---|---------|--------|-------------|------|------|------|------|------|----|------|------|------|------|------|-----|-------|------|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Angle | End | 45 | Cross | Back-45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1419 | 1419 | 1419 | 1419 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1398 | 1411 | 1414 | 1411 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1326 | 1333 | 1333 | 1333 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1187 | 1191 | 1200 | 1191 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 998 | 1019 | 1039 | 1019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 790 | 834 | 868 | 834 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 580 | 644 | 695 | 644 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 353 | 434 | 491 | 434 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 174 | 268 | 321 | 268 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 33 | 76 | 85 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees | Lumens | % Luminaire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 1057 | 28.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 1694 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 2903 | 78.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 3683 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 3683 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p style="text-align: center;">Coefficients of Utilization</p> <p style="text-align: center;">EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <table border="1"> <thead> <tr> <th>pfc =</th> <th colspan="3">20</th> <th colspan="3">80</th> <th colspan="3">70</th> <th colspan="3">50</th> </tr> <tr> <th>Ceil</th> <th colspan="3"></th> <th colspan="3"></th> <th colspan="3"></th> <th colspan="3"></th> </tr> <tr> <th>Wall</th> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> </tr> <tr> <th>RCR</th> <th colspan="12"></th> </tr> </thead> <tbody> <tr><td>0</td><td>118</td><td>118</td><td>118</td><td>115</td><td>115</td><td>115</td><td>111</td><td>111</td><td>111</td><td>111</td><td>111</td></tr> <tr><td>1</td><td>109</td><td>104</td><td>98</td><td>106</td><td>102</td><td>97</td><td>96</td><td>93</td><td>96</td><td>96</td><td>93</td></tr> <tr><td>2</td><td>98</td><td>91</td><td>83</td><td>95</td><td>89</td><td>81</td><td>84</td><td>80</td><td>84</td><td>84</td><td>80</td></tr> <tr><td>3</td><td>90</td><td>80</td><td>70</td><td>88</td><td>78</td><td>69</td><td>75</td><td>68</td><td>75</td><td>75</td><td>68</td></tr> <tr><td>4</td><td>82</td><td>70</td><td>61</td><td>80</td><td>68</td><td>60</td><td>67</td><td>59</td><td>67</td><td>67</td><td>59</td></tr> <tr><td>5</td><td>76</td><td>63</td><td>54</td><td>73</td><td>61</td><td>54</td><td>59</td><td>53</td><td>59</td><td>59</td><td>53</td></tr> <tr><td>6</td><td>69</td><td>56</td><td>47</td><td>68</td><td>56</td><td>47</td><td>54</td><td>46</td><td>54</td><td>54</td><td>46</td></tr> <tr><td>7</td><td>65</td><td>52</td><td>42</td><td>64</td><td>51</td><td>42</td><td>48</td><td>41</td><td>48</td><td>48</td><td>41</td></tr> <tr><td>8</td><td>60</td><td>46</td><td>39</td><td>58</td><td>46</td><td>39</td><td>45</td><td>38</td><td>45</td><td>45</td><td>38</td></tr> <tr><td>9</td><td>56</td><td>44</td><td>34</td><td>55</td><td>42</td><td>34</td><td>41</td><td>34</td><td>41</td><td>41</td><td>34</td></tr> <tr><td>10</td><td>53</td><td>40</td><td>32</td><td>52</td><td>40</td><td>32</td><td>39</td><td>32</td><td>39</td><td>39</td><td>32</td></tr> </tbody> </table> | pfc = | 20 | | | 80 | | | 70 | | | 50 | | | Ceil | | | | | | | | | | | | | Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | 70 | 50 | 30 | RCR | | | | | | | | | | | | | 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 111 | 1 | 109 | 104 | 98 | 106 | 102 | 97 | 96 | 93 | 96 | 96 | 93 | 2 | 98 | 91 | 83 | 95 | 89 | 81 | 84 | 80 | 84 | 84 | 80 | 3 | 90 | 80 | 70 | 88 | 78 | 69 | 75 | 68 | 75 | 75 | 68 | 4 | 82 | 70 | 61 | 80 | 68 | 60 | 67 | 59 | 67 | 67 | 59 | 5 | 76 | 63 | 54 | 73 | 61 | 54 | 59 | 53 | 59 | 59 | 53 | 6 | 69 | 56 | 47 | 68 | 56 | 47 | 54 | 46 | 54 | 54 | 46 | 7 | 65 | 52 | 42 | 64 | 51 | 42 | 48 | 41 | 48 | 48 | 41 | 8 | 60 | 46 | 39 | 58 | 46 | 39 | 45 | 38 | 45 | 45 | 38 | 9 | 56 | 44 | 34 | 55 | 42 | 34 | 41 | 34 | 41 | 41 | 34 | 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 | 39 | 39 | 32 |
| pfc = | 20 | | | 80 | | | 70 | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ceil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | 70 | 50 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 98 | 106 | 102 | 97 | 96 | 93 | 96 | 96 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 91 | 83 | 95 | 89 | 81 | 84 | 80 | 84 | 84 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 70 | 88 | 78 | 69 | 75 | 68 | 75 | 75 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 80 | 68 | 60 | 67 | 59 | 67 | 67 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 54 | 73 | 61 | 54 | 59 | 53 | 59 | 59 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 68 | 56 | 47 | 54 | 46 | 54 | 54 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 42 | 64 | 51 | 42 | 48 | 41 | 48 | 48 | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 39 | 58 | 46 | 39 | 45 | 38 | 45 | 45 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 44 | 34 | 55 | 42 | 34 | 41 | 34 | 41 | 41 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 | 39 | 39 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2x2 FluxGrid recessed LED, standard configuration, 4500 nominal delivered lumens

LER - 106

| <p>Catalog No. 2FGG45L840-2-D-UNV-DIM</p> <p>Test No. 36782</p> <p>S/MH 1.2</p> <p>Lamp Type LED</p> <p>Lumens 4704</p> <p>Input Watts 45</p> <p>Comparative yearly lighting energy cost per 1000 lumens – \$2.26 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p> | <p style="text-align: center;">Candlepower</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> <th>Back-45</th> </tr> </thead> <tbody> <tr><td>0</td><td>1800</td><td>1800</td><td>1800</td><td>1800</td></tr> <tr><td>5</td><td>1774</td><td>1791</td><td>1794</td><td>1791</td></tr> <tr><td>15</td><td>1684</td><td>1691</td><td>1692</td><td>1691</td></tr> <tr><td>25</td><td>1507</td><td>1512</td><td>1523</td><td>1512</td></tr> <tr><td>35</td><td>1268</td><td>1294</td><td>1319</td><td>1294</td></tr> <tr><td>45</td><td>1003</td><td>1058</td><td>1103</td><td>1058</td></tr> <tr><td>55</td><td>736</td><td>818</td><td>882</td><td>818</td></tr> <tr><td>65</td><td>447</td><td>590</td><td>666</td><td>590</td></tr> <tr><td>75</td><td>221</td><td>340</td><td>407</td><td>340</td></tr> <tr><td>85</td><td>42</td><td>96</td><td>108</td><td>96</td></tr> </tbody> </table> | Angle | End | 45 | Cross | Back-45 | 0 | 1800 | 1800 | 1800 | 1800 | 5 | 1774 | 1791 | 1794 | 1791 | 15 | 1684 | 1691 | 1692 | 1691 | 25 | 1507 | 1512 | 1523 | 1512 | 35 | 1268 | 1294 | 1319 | 1294 | 45 | 1003 | 1058 | 1103 | 1058 | 55 | 736 | 818 | 882 | 818 | 65 | 447 | 590 | 666 | 590 | 75 | 221 | 340 | 407 | 340 | 85 | 42 | 96 | 108 | 96 | <p style="text-align: center;">Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1342</td><td>28.5</td></tr> <tr><td>0-40</td><td>2150</td><td>45.7</td></tr> <tr><td>0-60</td><td>3692</td><td>78.4</td></tr> <tr><td>0-90</td><td>4706</td><td>100</td></tr> <tr><td>0-180</td><td>4706</td><td>100</td></tr> </tbody> </table> | Degrees | Lumens | % Luminaire | 0-30 | 1342 | 28.5 | 0-40 | 2150 | 45.7 | 0-60 | 3692 | 78.4 | 0-90 | 4706 | 100 | 0-180 | 4706 | 100 | <p style="text-align: center;">Average Luminance</p> <table border="1"> <thead> <tr> <th>Zone</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>18141</td><td>19143</td><td>19949</td></tr> <tr><td>55</td><td>16417</td><td>18253</td><td>19674</td></tr> <tr><td>65</td><td>13545</td><td>17871</td><td>20175</td></tr> <tr><td>75</td><td>10900</td><td>16807</td><td>20115</td></tr> <tr><td>85</td><td>6210</td><td>14034</td><td>15825</td></tr> </tbody> </table> | Zone | End | 45° | Cross | 45 | 18141 | 19143 | 19949 | 55 | 16417 | 18253 | 19674 | 65 | 13545 | 17871 | 20175 | 75 | 10900 | 16807 | 20115 | 85 | 6210 | 14034 | 15825 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|-------|---------|-------|---------|-----|------|------|------|------|---|------|------|------|------|----|------|------|------|------|----|------|------|------|------|----|------|------|------|------|----|------|------|------|------|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|----|----|-----|-----|---|---------|--------|-------------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|------|-----|---|------|-----|-----|-------|----|-------|-------|-------|----|-------|-------|-------|----|-------|-------|-------|----|-------|-------|-------|----|------|-------|-------|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Angle | End | 45 | Cross | Back-45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1800 | 1800 | 1800 | 1800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1774 | 1791 | 1794 | 1791 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1684 | 1691 | 1692 | 1691 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1507 | 1512 | 1523 | 1512 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 1268 | 1294 | 1319 | 1294 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 1003 | 1058 | 1103 | 1058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 736 | 818 | 882 | 818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 447 | 590 | 666 | 590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 221 | 340 | 407 | 340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 42 | 96 | 108 | 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees | Lumens | % Luminaire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 1342 | 28.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 2150 | 45.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 3692 | 78.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 4706 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 4706 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone | End | 45° | Cross | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 18141 | 19143 | 19949 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 16417 | 18253 | 19674 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 13545 | 17871 | 20175 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 10900 | 16807 | 20115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 6210 | 14034 | 15825 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p style="text-align: center;">Coefficients of Utilization</p> <p style="text-align: center;">EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <table border="1"> <thead> <tr> <th>pfc =</th> <th colspan="3">20</th> <th colspan="3">80</th> <th colspan="3">70</th> <th colspan="3">50</th> </tr> <tr> <th>Ceil</th> <th colspan="3"></th> <th colspan="3"></th> <th colspan="3"></th> <th colspan="3"></th> </tr> <tr> <th>Wall</th> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> </tr> <tr> <th>RCR</th> <th colspan="12"></th> </tr> </thead> <tbody> <tr><td>0</td><td>118</td><td>118</td><td>118</td><td>115</td><td>115</td><td>115</td><td>111</td><td>111</td><td>111</td><td>111</td><td>111</td></tr> <tr><td>1</td><td>109</td><td>104</td><td>98</td><td>106</td><td>101</td><td>97</td><td>96</td><td>93</td><td>96</td><td>96</td><td>93</td></tr> <tr><td>2</td><td>98</td><td>90</td><td>83</td><td>95</td><td>89</td><td>81</td><td>84</td><td>80</td><td>84</td><td>84</td><td>80</td></tr> <tr><td>3</td><td>90</td><td>79</td><td>70</td><td>88</td><td>78</td><td>69</td><td>75</td><td>68</td><td>75</td><td>75</td><td>68</td></tr> <tr><td>4</td><td>82</td><td>69</td><td>61</td><td>80</td><td>68</td><td>60</td><td>67</td><td>58</td><td>67</td><td>67</td><td>58</td></tr> <tr><td>5</td><td>76</td><td>63</td><td>54</td><td>73</td><td>61</td><td>53</td><td>59</td><td>52</td><td>59</td><td>59</td><td>52</td></tr> <tr><td>6</td><td>69</td><td>56</td><td>47</td><td>68</td><td>56</td><td>46</td><td>54</td><td>46</td><td>54</td><td>54</td><td>46</td></tr> <tr><td>7</td><td>65</td><td>52</td><td>42</td><td>63</td><td>51</td><td>42</td><td>48</td><td>41</td><td>48</td><td>48</td><td>41</td></tr> <tr><td>8</td><td>60</td><td>46</td><td>39</td><td>58</td><td>46</td><td>38</td><td>45</td><td>38</td><td>45</td><td>45</td><td>38</td></tr> <tr><td>9</td><td>56</td><td>42</td><td>34</td><td>55</td><td>42</td><td>34</td><td>41</td><td>34</td><td>41</td><td>41</td><td>34</td></tr> <tr><td>10</td><td>53</td><td>40</td><td>32</td><td>52</td><td>40</td><td>32</td><td>39</td><td>32</td><td>39</td><td>39</td><td>32</td></tr> </tbody> </table> | pfc = | 20 | | | 80 | | | 70 | | | 50 | | | Ceil | | | | | | | | | | | | | Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | 70 | 50 | 30 | RCR | | | | | | | | | | | | | 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 111 | 1 | 109 | 104 | 98 | 106 | 101 | 97 | 96 | 93 | 96 | 96 | 93 | 2 | 98 | 90 | 83 | 95 | 89 | 81 | 84 | 80 | 84 | 84 | 80 | 3 | 90 | 79 | 70 | 88 | 78 | 69 | 75 | 68 | 75 | 75 | 68 | 4 | 82 | 69 | 61 | 80 | 68 | 60 | 67 | 58 | 67 | 67 | 58 | 5 | 76 | 63 | 54 | 73 | 61 | 53 | 59 | 52 | 59 | 59 | 52 | 6 | 69 | 56 | 47 | 68 | 56 | 46 | 54 | 46 | 54 | 54 | 46 | 7 | 65 | 52 | 42 | 63 | 51 | 42 | 48 | 41 | 48 | 48 | 41 | 8 | 60 | 46 | 39 | 58 | 46 | 38 | 45 | 38 | 45 | 45 | 38 | 9 | 56 | 42 | 34 | 55 | 42 | 34 | 41 | 34 | 41 | 41 | 34 | 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 | 39 | 39 | 32 |
| pfc = | 20 | | | 80 | | | 70 | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ceil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wall | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | 70 | 50 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 98 | 106 | 101 | 97 | 96 | 93 | 96 | 96 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 95 | 89 | 81 | 84 | 80 | 84 | 84 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 70 | 88 | 78 | 69 | 75 | 68 | 75 | 75 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 69 | 61 | 80 | 68 | 60 | 67 | 58 | 67 | 67 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 54 | 73 | 61 | 53 | 59 | 52 | 59 | 59 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 68 | 56 | 46 | 54 | 46 | 54 | 54 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 42 | 63 | 51 | 42 | 48 | 41 | 48 | 48 | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 39 | 58 | 46 | 38 | 45 | 38 | 45 | 45 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 55 | 42 | 34 | 41 | 34 | 41 | 41 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 52 | 40 | 32 | 39 | 32 | 39 | 39 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008