

# T5 COOL BEAM FLUORESCENT HIGH BAY

CB6  
Series



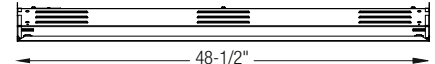
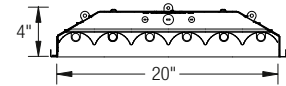
## BRITE-LITE (6 LAMP FULL BODY SPECIFICATION GRADE)

LIGHTING AND ELECTRICAL DISTRIBUTORS



### PRODUCT FEATURES:

- Our Cool Beam Technology allows ballast to stay cool through ventilation slots on sides, and to maintain 5 year warranty at 55°C.
- Full Body construction is formed from 22 Gauge steel to ensure rigidity and endurance. Body includes knockouts on top and sides for easy wiring.
- Reflector is attached to body with 4 screws, and hinges down along with lamps for easy access to ballast. Rotary Lamp sockets hold lamps in place and allow for easy relamping.
- Wireguard is standard white finish and may be combined with lens option. Wireguard and lens option come preinstalled with hinged doorframe for easy access to lamps.
- Additional options such as motion sensors, emergency ballasts, lamps and wiring all come prewired from factory.
- 95% reflective premium reflector material is engineered to optimize performance for 93% total fixture efficiency
- Post painted high-gloss enamel finish ensures maximum adhesion and rust resistance.
- Using the latest optical technology our 6 lamp CB luminaire out performs conventional MH fixtures while maintaining minimal energy consumption.
- Four corner tie points are standard for chain or aircraft cable mount.
- Comes standard with Program start PHILIPS/ADVANCE BALLASTS CENTIUM ICN4S5490C-2LSG(4 lamps), and ICN2S5490C-WL (2 lamps) ballasts 1.15 Ballast factor.
- Assembled in the USA.
- Qualifies for most national and regional utility rebates.
- NEC required ballast disconnect is standard.



LISTING - UL/ C-UL listed for damp location.

WARRANTY - Guaranteed for five years against mechanical defects.

### Ordering Information EXAMPLE: CB-6-54-T5HO

CB	6							
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SERIES	LAMPS	LAMP TYPE	VOLTAGE <sup>3</sup>	# OF BALLAST	BALLAST FACTOR	LAMPS INSTALLED
CB - Oracle Cool Beam Industrial Series	6	49-T5HO - 49W T5HO 54-T5HO - 54W T5HO	(Blank) - MVOLT (120/277) 120 277 347 480	(Blank) - 2 Ballast 3 - 3 Ballasts	(Blank) - Normal BF HBF - High BF LBF - Low BF	(Blank) - No lamps L30K - 3000K L35K - 3500K L41K - 4100K L50K - 5000K

BALLAST CONFIGURATION & CODE		
49W/T5HO <sup>2</sup>	54W/T5HO	DESCRIPTION
-	-	Electronic Instant Start
(Blank)	(Blank)	Electronic Program Start
-	ADV-7 <sup>1</sup>	Advance Mark-7 <sup>3</sup>
-	ADV-10 <sup>1</sup>	Advance Mark-10 <sup>3</sup>
-	-	Advance Optanium <sup>3</sup>
-	-	Advance Essential <sup>3</sup>
-	ADV-ROVR	Advance Rover <sup>3</sup>
-	LUT-EHD <sup>1</sup>	Lutron Ecosystem H-Series <sup>3</sup>
-	-	Lutron Tu-Wire <sup>3</sup>
-	-	Lutron Ecosystem <sup>3</sup>
-	LUT-EC3 <sup>1</sup>	Lutron Eco-10 <sup>3</sup>
-	-	Lutron Tve <sup>3</sup>
-	LUT-H3D <sup>1</sup>	Lutron Hi-Lume 3D <sup>3</sup>
-	LUT-ECD <sup>1</sup>	Lutron Ecosystem (347V Only) <sup>3</sup>

- 1- Requires 3 Ballasts
- 2- Consult factory for dimming options.
- 3- Voltage must be specified for dimming ballast.

EMERGENCY BATTERY PACK OPTIONS (L. = LUMENS)	
ORDER CODE	DESCRIPTION
EMG-T5-T5HO-700	Up to 700 L. for T5 or T5HO
EMG-T5-T5HO-1300	Up to 1300 L. for T5 or T5HO
EMG-T8-BX-T5-T5HO-3200	Up to 3200 L. for T8, BX, T5 or T5HO
EMG-SD-T8-BX-T5-T5HO-1400	Self-Diagnostic 1400 L. for T8, BX, T5 or T5HO
EMG-ICE-T8-BX-T5-T5HO-1400	ICE Pack 1400 L. for T8, BX, T5 or T5HO

WIRING OPTIONS	
PCSB120	- 10' Nema 5-15R 120V Straight Blade Plug
PCSB277	- 10' Nema 7-15R 277V Straight Blade Plug
PCTL120	- 10' Nema L5-15R 120V Twist Lock Plug
PCTL277	- 10' Nema L7-15R 277V Twist Lock Plug
S01	- 10' 120V/277V SO Cord
S02	- 10' 480V SO Cord
C3	- 6' 3-wire Flex Cable (Single Circuit)
C4	- 6' 4-wire Flex Cable (Double Circuit)

OTHER OPTIONS	
6WG	- Wireguard
6WGCL	- Wireguard with Clear Lens
6WGPL	- Wireguard with Prismatic Lens
6WGDF	- Wireguard with Door frame
6CLDF	- Clear Lens with Door Frame
6PLDF	- Prismatic Lens with Door Frame
6GDF	- Gasketed Door Frame
MH	- Mounting Hub
GSS	- Gripple Suspension System
GSSP	- Gripple System with Paddles
VHCH	- V-Hook with chain kit
CH	- Chain with S hooks
VH	- V Hook
MS	- Motion Sensor
MSPH	- Motion Sensor with Photocell
GL	- Generic Lamps Installed
6WHR	- White Reflector

STANDARD BALLAST INFO						
LAMP	# OF LAMPS	LINE VOLTS	Ballast Factor	Power Factor% (>=)	THD% (<=)	Min. Starting Temp (°F/°C)
F54T5HO	6	120/ 277	1	98	10	-20/ -29

(Consult Factory for 208V, 248V, 347V and 480V wiring)



T5  
CB6



Cool Beam Fluorescent 6 lamp T5HO High Bay

# High Bay Series

UP TO  
**93%**  
EFFICIENCY

## LET THERE BE LIGHT

Oracle Lighting is proud to introduce the Cool Beam Series: a new breed of specification grade Fluorescent High Bays complete with mounting, dimming and shielding options, for every application.

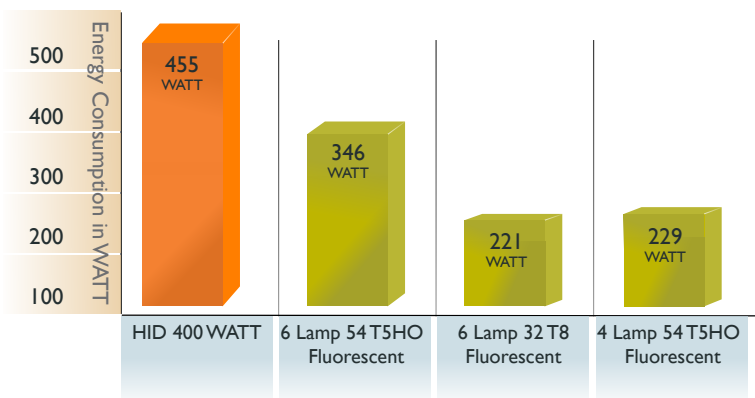
Compared to traditional 400W MH fixtures, our Cool Beam High Bays deliver more usable lumens, require no warm up time, have excellent efficiency in the mid 90's, and provide greater energy savings.

On the next job, make sure you ask about our new Cool Beam Fluorescent High Bay and LET THERE BE LIGHT!

### Energy Saving



ELITE Lighting Fluorescent high bay has designed to offer significant energy saving opportunities over HID light systems.



# COOL BEAM HIGH BAY

## [capabilities]

### ability [abil-i-ty]

the quality of being able to perform; a quality that permits or facilitates achievement or accomplishment.



**1. RELIABILITY**  
Slot louvers on each side ensure that the ballast will remain cool and operate for its rated lifetime.



**2. ACCESSIBILITY**  
Full size access plate is located on the top of the full body for quick wiring and maintenance.



**3. DURABILITY**  
Post painted high gloss enamel finish ensures maximum adhesion and rust resistance.



**4. CREDITABILITY**  
Cool Beam fixtures use only well known components in the industry such as High Temperature Advance ballast, Leviton sockets, IOTA and Bodine Emergency battery packs.



**5. CONNECTABILITY**  
NEC required ballast disconnects along with quick disconnects are standard.



**\* CONTROLLABILITY**  
Leviton's fixture mounted sensor provide fast, easy installation and instant energy saving. (Optional Item)



**6. MANAGEABILITY**  
All sides and corner are turned in removing sharp edges for safe handling and installation.



**8. REFLECTIVITY**  
Highly tooled 95% reflective premium reflector material is engineered to optimize the thermal and luminous environment.



**9. SERVICEABILITY**  
Reflector, wireguard clear lens with door frame hinges down by removing two screws and allows for quick maintenance and access to ballast without removing lamps.



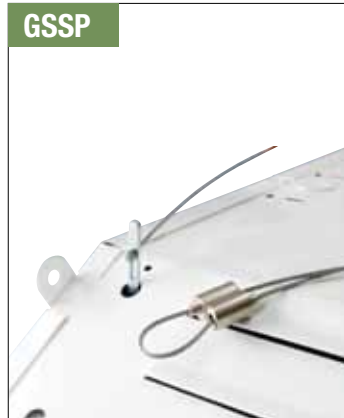
**10. SUPPORTABILITY**  
Four corner tie points are standard for safety wire support when required.



## FLUORESCENT HIGH BAY SUPPORTABILITY



**GSS** - Gripple Suspension System is fully adjustable for different mounting heights. "Y" style comes standard with 10' length. Other lengths are available upon request.



**GSSP** - Paddles and tool-less, adjustable looping cable grippers. "Y" style comes standard 10' length. Other lengths are available upon request.

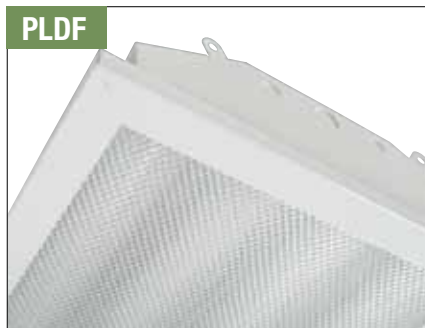


**VH** - Easy to install V Hooks snap into pre-drill holes at the top of high bay body and ensure strong support.



**VHCH** - Easy to install V-Hook and Chain Kit includes all necessary mounting accessories. Kit includes 2 V-Hooks, 2 chains (32"), 2 S-Hooks for adjustment, and 2 "S" hooks for connecting chain to V-Hooks.

## FLUORESCENT HIGH BAY OTHER OPTIONS



**PLDF** - Acrylic #12 pattern lens attached is fitted into door frame. Other prismatic lens options available upon request.



**CLDF** - Clear Lens comes with door frame and easily swings open for easy lamp replacement.



**WGCL** - Post pointed wireguard with clear lens and door frame.  
**WGPL** - Post pointed wireguard with prismatic Acrylic #12 pattern lens and door frame



**WG** - Post pointed wireguard protects lamps from objects that may impact fixture. Ideal for gymnasiums and sports facilities. Wireguard is held by 4 clips that attach to fixture.



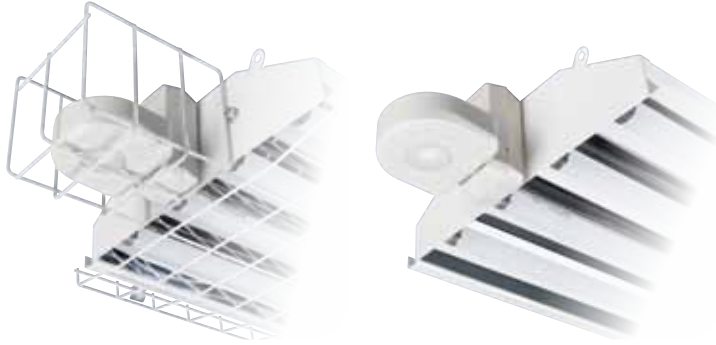
**WGDF** - Post pointed flat Wireguard with door frame. Protects lamps from being impacted by objects.



**MH** - Mounting Hub is made from Cast-iron and allows for pendant mounting and acts as junction box. Top Plate slides for balancing and access to wiring. Multiple Knockouts on sides are standard.

## PART# : MS- MOTION SENSOR

**MS** - Motion Sensor works in 8' to 40' mounting heights. It offers an adjustable time setting of 30 sec. to 30 minutes and comes with three optic lenses ( 360° High Bay, 360° Low Bay, and Aisle ). Motion sensor comes prewired and ready for simple snap-n-go installation.



### MOTION SENSOR FEATURES

**Quicksnap:** built into the 1/2" nipple, this locking mechanism allows for the fastest and easiest mounting not requiring a threaded lock-nut



**Fast, easy time delay setting:** can be set at any time without requiring power to the sensor; time delay is variable from 30s-20m

**High Inrush Stability (H.I.S. Technology):**

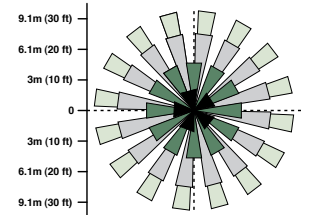
- :: Zero crossing circuitry optimizes relay operation for reliable, long-life operation
- :: Robust mechanical latching relay is durable for all load types

**Auto temperature calibration:** automatically adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field-of-view

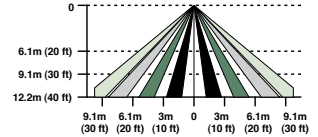
**Return to last state:** for safety and energy savings, the MS contains a latching relay so that in the event power is lost to the device, the device will return to the last known state of the relay

**False detection intelligence:** for increased energy savings and to mitigate nuisance tripping, the super bright LED indicates advanced detection has been activated and the lights will only turn

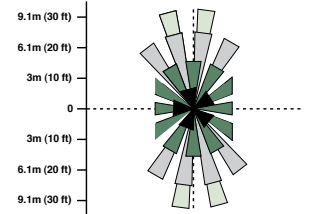
**High Bay  
360°  
Top View**



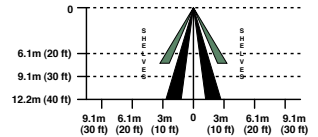
**Side View**



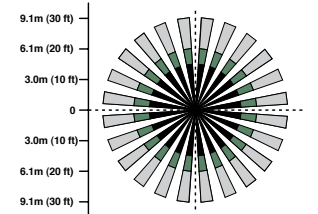
**Aisle  
Top View**



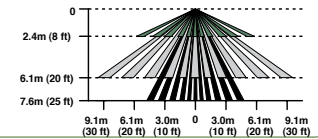
**Side View**



**Low Bay  
360°  
Top View**



**Side View**



## FLUORESCENT HIGH BAY CONNECTABILITY



**PCSB**

Straight blade plug is available in:

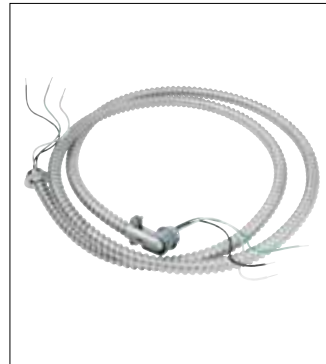
- 120V NEMA 5-15R
- 277V NEMA 7-15R



**PCTL**

Twist lock plug is available in:

- 120V NEMA L5-15R
- 277V NEMA L7-15R



**C3/C4**

C3 wire flex cable is single circuit and C4 wire flex cable is double circuit.



**SO Cord** - available in:

- 120V/277V
- 480V

\* 10' STANDARD LENGTH - AVAILABLE IN CUSTOM LENGTHS

# BLENDING MOTION SENSOR WITH PHOTOCELL TECHNOLOGY

## PART# : MSPH

### Photocell option- For daylight Harvesting.

- :: Integrated rotating adjustable light sensor for light hold-off.
- :: 24 hour auto-calibration.
- :: Quick snap feature for easy installation.
- :: T5 fixture with Leviton's new MSPH sensor with built-in photocell uses 85% less energy than a 400W HID fixture.
- :: Meets DOE & TITLE 24 requirements.
- :: Photocell has variable sensitivity control.
- :: Adjustable time delay (No Power Required).

**85%** less energy than an HID fixture

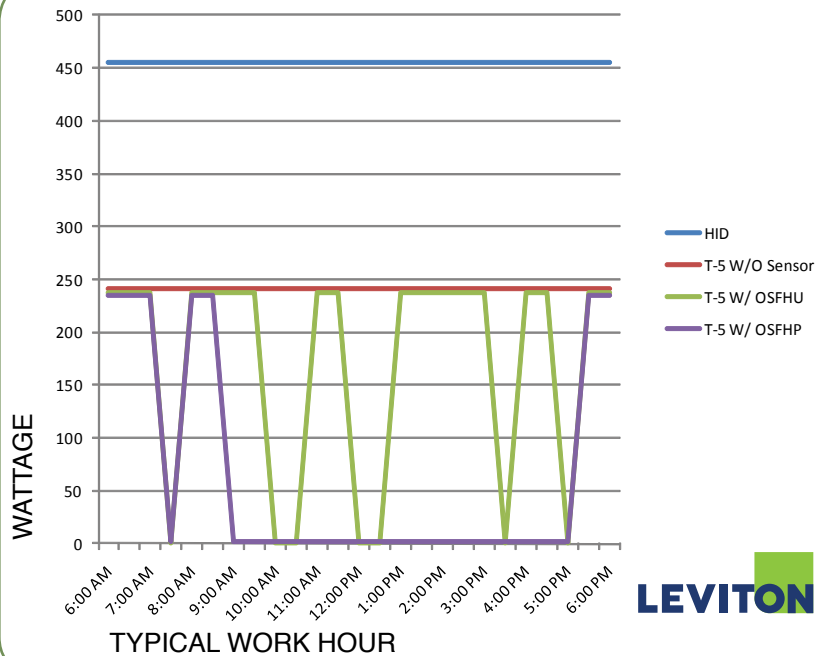
### PHOTOCELL FEATURES

- Standard T-5 Highbay fixture uses 48% less energy than a standard 400W HID fixture
- T-5 fixture with standard Leviton MSPH Sensor uses 60% less energy than an HID fixture



**85%** less energy than an HID fixture

- T-5 fixture with Leviton's new MSPH sensor with built in Photocell uses 85% less energy than an HID fixture



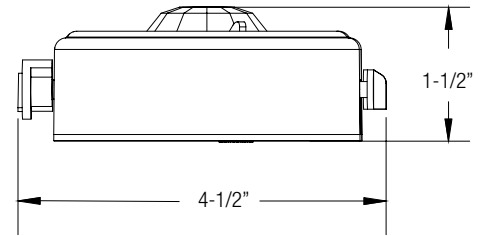
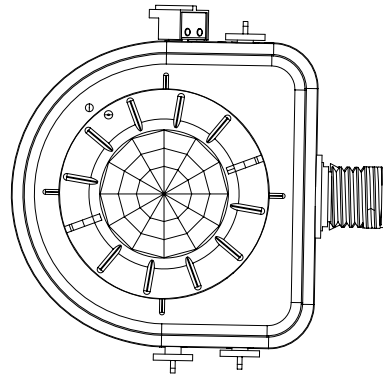
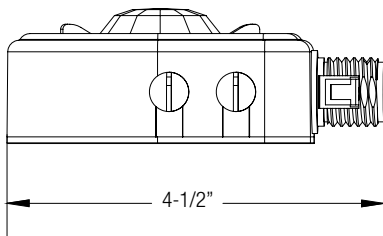
**LEVITON**

	120-347V and 480V Models	Low Voltage 24V Models (-ILW)
<b>ELECTRICAL</b>		
Input Voltage	120-230-277-347VAC; 240/480VAC (-I4W models)	24VAC/VDC
Minimum Load	No Requirement	
Output Channels	Latching Relay	HVAC Form C N/O, N/C
Time Delay	Load 1: 30s - 30m Load 2: 0h - infinity (starts after Load 1 expires)	
Wire Designation	Line-Black, Load-Red, Neutral-White	Line-Black, Load-Red, Neutral-White; OCC=Blue, PH=Gray, HVAC=Brown
<b>ENVIRONMENTAL</b>		
Operating Temperature Range	14° F to 160° F (-10° C to 71° C)	
Cold Storage Temperature Range	-40° F to 160° F (-40° C to 71° C)	
Relative Humidity	0% to 90% non-condensing	
<b>OTHER</b>		
Agency Listings	UL 916, CSA 22.2 No. 205 M1983, FCC Certified, Title 24 Compliant	
Warranty	Limited 5-Year	

# BLENDING MOTION SENSOR WITH PHOTOCELL TECHNOLOGY

**MSPH**  
Motion Sensor with Photocell

**LEVITON**



	120-347V and 480V Models	Low Voltage 24V Models (-ILW)
<b>ELECTRICAL</b>		
Input Voltage	120-230-277-347VAC; 240/480VAC (-I4W models)	24VAC/VDC
Operational Frequencies	50/60Hz	
Load Rating	Fluorescent Ballasts: 800VA @ 120VAC Ballast 1000VA @ 230VAC Ballast 1200VA @ 277VAC Ballast 1500VA @ 347VAC Ballast 2000VA @ 480VAC Ballast Motor: 1/4 HP Load @ 120V Compatible with electronic and magnetic ballasts, electronic and magnetic low-voltage transformers.	Input: 20mA Output: 120mA HVAC: 1A, 30VDC
Minimum Load	No Requirement	
Output Channels	Latching Relay	HVAC Form C N/O, N/C
Time Delay	Load 1: 30s - 30m Load 2: 0h - infinity (starts after Load 1 expires)	
Wire Designation	Line-Black, Load-Red, Neutral-White	Line-Black, Load-Red, Neutral-White; OCC=Blue, PH=Gray, HVAC=Brown
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<b>OTHER</b>		
Agency Listings	UL 916, CSA 22.2 No. 205 M1983, FCC Certified, Title 24 Compliant	
Warranty	Limited 5-Year	

# 4 LAMP, T5 FLUORESCENT HIGH BAY PHOTOMETRICS

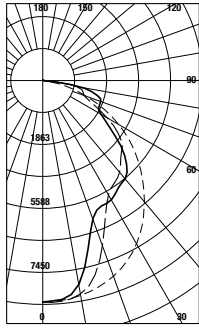
CB-4-54-T5HO

LAMP: PHILIPS F54T5/841/HO/ALTO

LAMP LUMENS: 4450

TOTAL LUMINAIRE EFFICIENCY: 92.8%

SPACING CRITERIA: 1.10



### ZONAL LUMENS SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0-30	4,781.50	26.90%	28.90%
0-40	7,527.80	42.30%	45.50%
0-60	13,010.40	73.10%	78.60%
60-90	3,533.00	19.80%	21.40%
0-90	16,543.40	92.90%	100%

TOTAL LUMINAIRE EFFICIENCY = 92.8%

T5 FLUORESCENT HIGH BAY

EFFICIENCY = 92.8%

### CANDELA TABULATION

	0	22.5	45	67.5	90
0	7441.95	7441.95	7441.95	7441.95	7441.95
5	7429.67	7402.69	7360.66	7302.45	7253.89
15	7136.77	6952.61	6338.93	5591.37	5308.35
25	6510.57	5953.38	4544.72	4264.45	4291.55
35	5577.7	4356.65	3801.86	4367.9	4487.54
45	4549.65	3099.66	3660.18	4123.57	4162.15
55	3404.83	2436.6	3117.57	2917.22	2718.01
65	2109.03	1851.73	1750.01	1731.87	1862.64
75	905.43	903.25	1231.39	1585.59	1638.18
85	101.61	336.18	368.9	300.13	258.45
90	0	0	0	0	0

### Coefficients of Utilization - Zonal Cavity Method (Effective Floor Cavity Reflectance 0.20)

ROOM CAVITY RATIO	RC RW	80%				70%				50%			30%			10%			0%
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0		111	111	111	111	108	108	108	108	103	103	103	99	99	99	95	95	95	93
1		101	96	92	89	98	94	91	87	90	87	84	87	84	82	83	81	79	77
2		92	84	78	72	89	82	76	71	79	74	70	76	72	68	73	70	67	65
3		84	74	66	60	81	72	65	60	70	64	59	67	62	58	65	60	57	55
4		77	66	58	51	75	64	57	51	62	55	50	60	54	50	58	53	49	47
5		71	59	51	44	69	58	50	44	56	49	44	54	48	43	52	47	43	41
6		65	53	45	39	64	52	44	39	51	44	38	49	43	38	48	42	38	36
7		61	48	40	35	59	48	40	34	46	39	34	45	39	34	44	38	34	32
8		57	44	36	31	55	44	36	31	42	36	31	41	35	30	40	34	30	29
9		53	41	33	28	52	40	33	28	39	32	28	38	32	28	37	32	27	26
10		50	38	30	26	49	37	30	25	36	30	25	35	29	25	35	29	25	24

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

# 6LAMP, T5 FLUORESCENT HIGH BAY PHOTOMETRICS

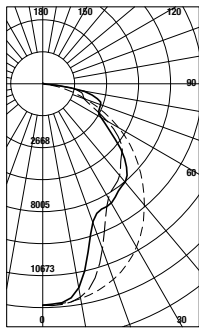
CB-6-54-T5HO

LAMP: PHILIPS F54T5/841/HO/ALTO

LAMP LUMENS: 4450

TOTAL LUMINAIRE EFFICIENCY: 93.8%

SPACING CRITERIA: 1.16



### ZONAL LUMENS SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0-30	7,240.20	27.10%	28.90%
0-40	11,405.00	42.70%	45.50%
0-60	19,414.50	72.70%	77.50%
60-90	5,635.80	21.10%	22.50%
0-90	25,050.30	93.80%	100%

TOTAL LUMINAIRE EFFICIENCY = 93.8%

T5 FLUORESCENT HIGH BAY

EFFICIENCY = 93.8%

### CANDELA TABULATION

	0	22.5	45	67.5	90
0	10651	10651	10651	10651	10651
5	10608	10629	10648	10628	10568
15	10284	10265	9656	8731	8356
25	9554	9148	7100	6630	6664
35	8333	7016	5993	6270	6299
45	6758	4908	5275	5711	5665
55	5100	3799	4400	4093	3902
65	3266	2715	2669	2769	2967
75	1473	1376	1978	2566	2707
85	176	585	757	716	654
90	0	0	0	0	0

### Coefficients of Utilization - Zonal Cavity Method (Effective Floor Cavity Reflectance 0.20)

ROOM CAVITY RATIO	RC RW	80%				70%				50%			30%			10%			0%
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0		112	112	112	112	109	109	109	94	104	104	104	100	100	100	96	96	96	94
1		102	97	93	89	99	95	91	78	91	88	85	87	84	82	84	82	80	78
2		92	84	78	72	90	83	77	66	79	74	70	76	72	68	73	70	67	65
3		84	74	66	60	82	73	66	56	70	64	59	67	62	58	65	60	57	55
4		77	66	58	51	75	65	57	49	62	56	50	60	54	50	58	53	49	47
5		71	59	51	44	69	58	50	42	56	49	44	54	48	43	52	47	43	41
6		66	53	45	39	64	52	45	38	51	44	38	49	43	38	48	42	38	36
7		61	49	40	35	60	48	40	34	46	39	34	45	39	34	44	38	34	32
8		57	44	36	31	56	44	36	30	43	36	31	41	35	31	40	35	30	29
9		53	41	33	28	52	40	33	27	39	33	28	38	32	28	37	32	28	26
10		50	38	30	26	49	37	30	25	36	30	25	36	30	25	35	29	25	24

RC - Ceiling Cavity Reflectance RW - Wall Reflectance