

1050LRN

Lytecaster LED 5", round lensed downlight, light engine/trim

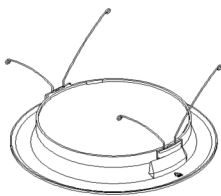
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Catalog number:

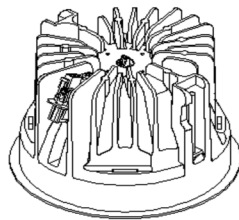
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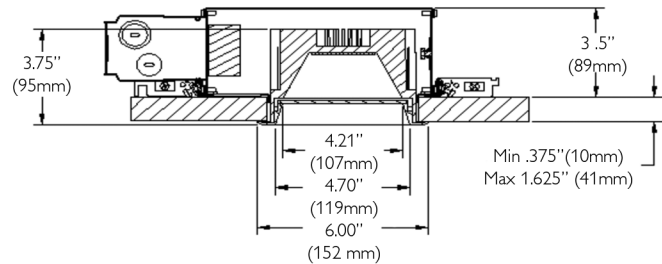
XCEED



Trim



Light Engine



Frame-in Kit

Complete fixture consists of lensed downlight trim, LED light engine and frame-in kit. Select each separately.

Lensed round downlight trims	Round LED light engines	Round LED frame-in kits
1050LRNDLWB (white baffle, white flange)	1050LRN0927 (900 Lumens, 2700K)	1050LRN06D1** (650 Lumens, 120V Dimming)
1050LRNDLCDW (clear diffuse, white flange)	1050LRN0935 (1000 Lumens, 3500K)	1050LRN09D1** (900 Lumens, 120V Dimming)
1050LRNDLCDP (clear diffuse, clear diffuse flange)	1050LRN0627 (600 Lumens, 2700K)	1050LRN0609D2* (277V Dimming; compatible
1050LRNDLWC (white cone, white flange)	1050LRN0635 (750 Lumens, 3500K)	with all LED light engines)

* See individual frame-in kit specification sheet.

** All frames come standard with preset mounting screws. Simply add "N" to the end of the model number for preset nails.

Trim features

- Lower baffle / cone:** Injection molded non-yellowing Polycarbonate plastic trim. Matte white finish. CD and WD finishes are a painted metallic coated finish.
- Lens:** 1/8" (6mm) thick high transmission soda lime glass. Solite texture to reduce visibility to the LEDs.
- Finishes:** WB = White Baffle / White Flange, CDW = Clear Diffuse Cone / White Flange CDP = Clear Diffuse Cone/ Clear Diffuse Flange, WC = White Cone/White Flange
- Tortiontite springs:** Permit easy and fast installation of trim and assure snug fit on ceiling.

Light engine features

- LED Board:** Utilizes Philips Lumileds LED's.
- Optical mixing chamber:** Designed to provide optimal illumination with high reflectivity aluminum reflector.
- Securing screws:** Springs on frame-in kit allow fast positioning of Light Engine into ceiling opening, and captive screws secure the Light Engine snug to the ceiling.
- Thermal management:** Proprietary heat sink was developed using the latest in Computational Fluid Dynamic Software. This optimized thermal design provides a 50,000 hour lifetime at 70% lumen maintenance. Cast aluminum heat sink is painted in black to maximize heat transfer.
- Performance data:** See attached photometric reports for distribution and efficiency data.

Warranty

5 years, all testing conducted in accordance with IESNA LM79 and LM80 standards.

Labels

cULus Listed, Trims are suitable for wet location.
120V only I.C. rated. 277V housings are Non-IC.

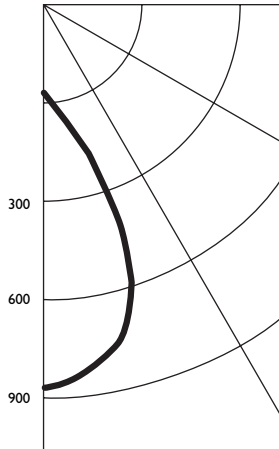
PHILIPS
LIGHTOLIER

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20W LED, 3500K, WB finish trim



Angle	Mean CP
0	846
5	840
10	822
15	785
20	730
25	641
30	520
35	387
40	260
45	158
50	89
55	48
60	27
65	15
70	9
75	4
80	1
85	0
90	0

1050LRNDLWB/1050LRN0935/1050LRN09D1

Report no.: L10076
Total fixture lumens: 1023 lms
Color temp: 3500K
Input watts: 19.7W
Luminaire efficacy: 51.9 lm/w
CRI: 82

Single unit data

Height to Lighted Plane	Initial Center Beam Foot-Candles	Beam Diameter (ft)*
6'	24	6
7'	17	8
8'	13	9

* Beam diameter is where foot-candles drop to 50% of maximum.

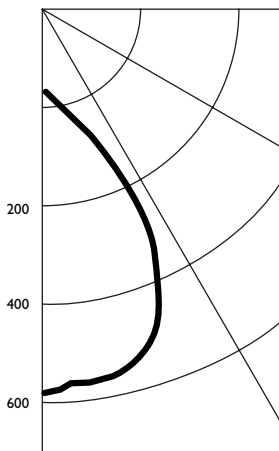
Zonal lumens and percentages

Zone	Lumens	%Luminaire
0-30	591	57.8
0-40	831	81.2
0-60	1001	97.9
0-90	1023	100

Coefficients of utilization												
Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	114	111	108	106	109	104	105	101	101	98	94
	2	108	103	100	96	102	95	98	93	96	91	88
	3	103	96	92	88	95	87	93	86	90	84	82
	4	98	90	85	81	89	80	87	79	85	79	76
	5	93	85	79	74	83	74	82	77	77	73	71
	6	88	79	73	69	78	69	77	68	75	68	66
	7	83	74	68	64	73	63	72	63	68	62	61
	8	79	69	63	59	68	59	67	58	64	58	56
	9	74	65	58	54	64	54	63	54	60	54	52
10	70	60	54	50	60	50	59	50	57	50	48	

Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

16W LED, 3500K, WB finish trim



Angle	Mean CP
0	552
5	539
10	538
15	528
20	499
25	443
30	365
35	277
40	190
45	119
50	71
55	44
60	31
65	24
70	19
75	15
80	9
85	4
90	0

1050LRNDLWB/1050LRN0635/1050LRN06D1

Report No.: L10092
Total Fixture Lumens: 752 lms
Color Temp: 3500K
Input Watts: 16.0W
Luminaire Efficacy: 47.0 lm/w
CRI: 82

Single unit data

Height to Lighted Plane	Initial Center Beam Foot-Candles	Beam Diameter (ft)*
6'	15	7
7'	11	8
8'	9	9

* Beam diameter is where foot-candles drop to 50% of maximum.

Zonal lumens and percentages

Zone	Lumens	%Luminaire	%Fixt
0-30	401	N/A	53.3
0-40	572	N/A	76.1
0-60	708	94.2	97.9
0-90	752	N/A	100

Coefficients of utilization												
Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	110	107	104	108	103	103	100	100	96	92
	2	107	101	97	93	100	92	96	90	93	88	85
	3	101	94	89	84	92	84	90	82	87	81	78
	4	96	88	82	77	86	77	84	76	82	75	72
	5	90	81	75	70	80	70	78	70	77	69	67
	6	85	76	70	65	75	65	74	64	72	64	62
	7	80	71	64	60	70	59	68	59	67	59	57
	8	76	66	59	55	65	55	64	55	63	54	53
	9	72	61	55	50	61	50	60	50	59	50	48
	10	68	57	51	47	57	47	56	46	55	46	45

Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



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1050LRNDL December 18, 2012

Specifications are subject to change without notice.
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