

PHILIPS
LIGHTOLIER

Downlighting

**Xceed LED 5"
Round Lensed**

600lm & 900lm, Low Profile
Light Engine & Trim



XCEED



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

Xceed LED's color spectrum is broader and renders more colors, more accurately than traditional compact fluorescent fixtures.

Ordering guide

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

Frame-in kit Series		Lumens / Dimming	Mounting
1050LRN			
1050LRN	Lytecaster Xceed LED 5", Round Frame-in kit for New construction	0609D2 600lm & 900lm (nominal) / 277v dimming 06D1 600lm (nominal) / 120v dimming 09D1 900lm (nominal) / 120v dimming	- Preset screws N Preset nails
Light Engine Series		Lumens*	CCT*
1050LRN			
1050LRN	Lytecaster Xceed LED 5", Round Light Engine for New construction	06 600lm (nominal)* 09 900lm (nominal)	27 2700K 30 3000K* 35 3500K
Trim Series		Style	Finish / Flange
1050LRN		DL	
1050LRN	Lytecaster Xceed LED 5", Round Trim for New construction	DL Lensed Downlight	WB White baffle finish / White flange CDW Clear diffuse finish / White flange CDP Clear diffuse finish / Clear diffuse flange WC White cone finish / White flange

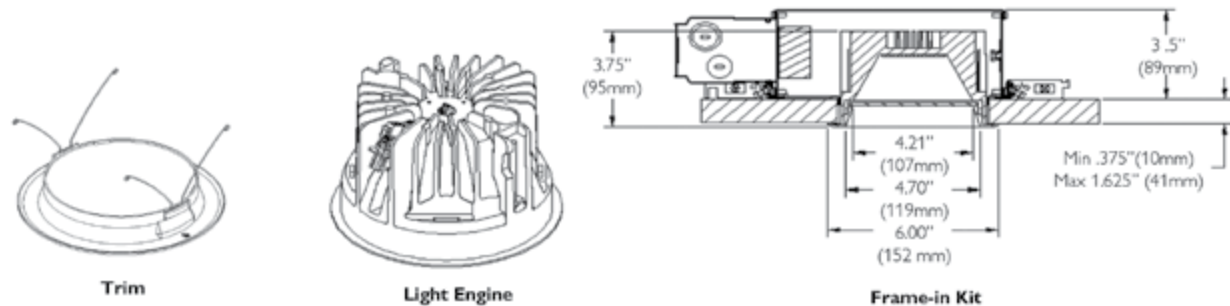
* Light Engines with 600lm (**06**) configurations are not available with 3000K (**30**) CCT options.



1050LRNDL Xceed LED 5"

Round Lensed Downlight, New construction, Light Engine / Trim

Dimensions



Trim Features

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

Light Engine Features

1. **LED Board:** Utilizes Philips Lumileds LEDs.
2. **Optical mixing chamber:** Designed to provide optimal illumination with high reflectivity aluminum reflector.
3. **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.
4. **Thermal management:** Proprietary heat sink was developed using the latest in Computational Fluid Dynamic Software. This optimized thermal design provides an expected lifetime of 50,000 hours. Cast aluminum heat sink is painted in black to maximize heat transfer.
5. **Performance:** See attached photometric reports for distribution and efficiency data.

Labels

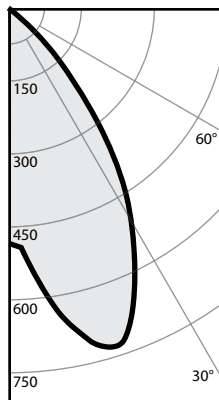
cULus listed, frames are suitable for damp location, trims are suitable for wet location. Complies with Air Leakage.
120V housing = type IC
277V housing = type Non-IC
ENERGY STAR® (except for 1050LRN0609D2 frame-in kit.
Title 24 (900 lumen only).
5 year warranty.
All testing conducted in accordance with IESNA LM79 and LM80 standards.

1050LRNDL Xceed LED 5"

Round Lensed Downlight, New construction, Light Engine / Trim

1050LRNDLWB (trim), 1050LRN0935 (engine), 1050LRN09D1 (frame) • 15W LED, 3500K, 80CRI, 900lm

Candela Curves



Report¹: 398GFR

Lumens: 910lm
Input Watts²: 14.6W
Spacing Crit: 1.1
Efficacy: 62.4lm/w
CCT³: 3500K
CRI: >80

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	19	5.5'
6'	14	6.6'
7'	10	7.7'
8'	8	8.8'
9'	6	9.9'

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

Multiple Unit Data - RCR 2

Spacing On Center	Initial Footcandles	Watts / Sq. Ft.
5'	40.5	0.65
6'	26.6	0.42
7'	19.0	0.30
8'	15.8	0.25
9'	12.6	0.20

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Angle	Mean CP	Lumens
0	487	
5	541	55
10	653	
15	723	202
20	713	
25	617	282
30	506	
35	374	229
40	224	
45	104	87
50	40	
55	25	24
60	20	
65	16	16
70	13	
75	11	12
80	8	
85	4	5
90	0	

Coefficients of utilization

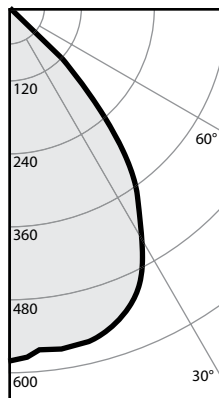
Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	109	107	104	107	102	103	99	99	96	91
	2	106	100	96	92	99	91	95	89	92	87	83
	3	100	93	87	82	91	82	88	80	86	79	76
	4	94	85	79	74	84	74	82	73	80	72	70
	5	89	79	73	68	78	67	76	67	75	66	64
	6	83	73	67	62	73	62	71	61	70	61	59
	7	79	68	62	57	68	57	66	56	65	56	54
	8	74	64	57	53	63	52	62	52	61	52	50
	9	70	60	53	49	59	49	58	48	57	48	47
10	67	56	50	45	55	45	55	45	54	45	43	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	539	59.2%
0-40	768	84.3%
0-60	878	96.5%
0-90	910	100.0%

1050LRNDLWB (trim), 1050LRN0635 (engine), 1050LRN06D1 (frame) • 16W LED, 3500K, 80CRI, 600lm

Candela Curves



Report¹: L10092

Lumens:	752lm	Zone	Lumens	%Luminaire
Input Watts ² :	16.0W	0-30	401	53.3%
Efficacy:	47.0lm/w	0-40	572	76.1%
CCT ³ :	3500K	0-60	708	97.9%
CRI:	>82	0-90	752	100%

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
6'	15	7'
7'	11	8'
8'	9	9'

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

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

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	

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-20 08: Specifications for the Chromaticity of Solid State Lighting Products.

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