

4" Deep Regressed

Recessed-LED Commercial Downlight



Commercial downlights have been upgraded 4th generation since 2013. This 4" commercial LED downlight is powered by high efficiency external LED driver, which continuous dims to 10% that works with many types of controls. It has CCT selectable and wattage adjustable functions to maximize light compatibility by dip switch. Spun aluminum reflector integrated with haze finish and white trim ring with shadow free. Deeply regressed diffusing lens conceals the LEDs from direct view.

It is the ideal way to upgrade virtually any existing incandescent, CFL and HID commercial open frame rough-in section to high-performance LED illumination in a matter of minutes for recessed applications, which is suitable for commercial and public places, such as shopping mall, hospital, airport, hotel lobby, etc.



Feature

UL, CUL, Energy Star and Damp Rated
CCT selectable from 3000K, 3500K and 4000K
Wattage adjustable 14W, 20W, and 27W
New construction housing frame available
Quickship in USA



PERFORMANCE

Trim Size	Lumen Output			CCT Selectable	Input Voltage
	High	Medium	Low		
4INCH	27W, 75LM/W	20W, 80LM/W	14W, 82LM/W	3000K, 3500K, 4000K	100-277V AC

All efficacy is $\pm 5\%$ base on different CCT and wattage. Check the IES file to gain the accurate data .

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PRODUCT PERFORMANCE

Structure

Spun aluminum reflector integrated with haze finish and white trim ring with shadow free, deeply regressed diffusing lens conceals the LEDs from direct view.

Electrical

External LED Driver	Powered by Class 2 high efficiency LED driver, with a standard 1-10V dimming which continuous dims to 10% that works with many types of controls. Tested Dimmers: Lutron ® Diva-Dvtv, Leviton ® IP-710-DL.
THD	<20%
Power Factor	>0.9
Input Voltage	Standard electronic driver is UL recognized and available for 100-277V AC.

LED System

CRI	Minimum 80 color rendering index
CCT	CCT selectable from 3000K, 3500K and 4000K.
LED	Life Minimum 50,000h with 87.8% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.

Mounting


It is provided with spring steel friction clips allowing for installation in a variety of commercial recessed open frame rough-in sections.

Approvals

- cULus listed for damp locations
- Energy star listed
- Tested to IESNA LM-79 and LM-80
- 5-year limited warranty

Optional Function

Emergency Option



Optional high voltage 8W emergency LED driver EM-H0854-LBF can be provided. When AC power fails, it immediately switches to the emergency mode, operating for lighting up to 120 minutes. When AC power is restored, it automatically returns to the charging mode which meets critical life-safety lighting requirements. For more info or spec sheet, please visit our website or contact sales.

Emergency Lumen Output:

Fixture Efficacy	Output Power 8w
80lm/w	640 Lumens

PRODUCT ORDERING GUIDE

Sample

C	4	D	27W	35T
1	2	3	4	5

1. Base Model

☒ C Commercial LED Downlight

2. Size

☒ 4 4"

3. Dimming

☒ D 1-10V Dimming

4. Wattage

☒ 27W Up to 27W
(Wattage Selectable 27W / 20W / 14W)

5. CCT

☒ 35T CCT Adjustable 3000K / 3500K / 4000K

OPTIONAL ORDERING GUIDE

Optional Accessory (Order Separated)

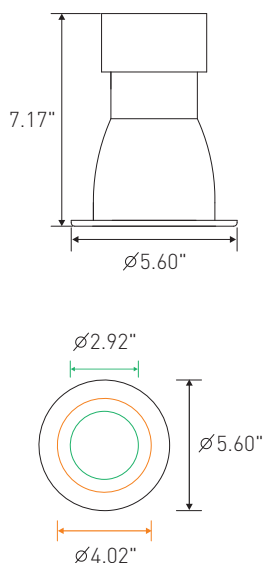
- ☐ 4" Housing Frame Kit
- ☐ LED Emergency Driver

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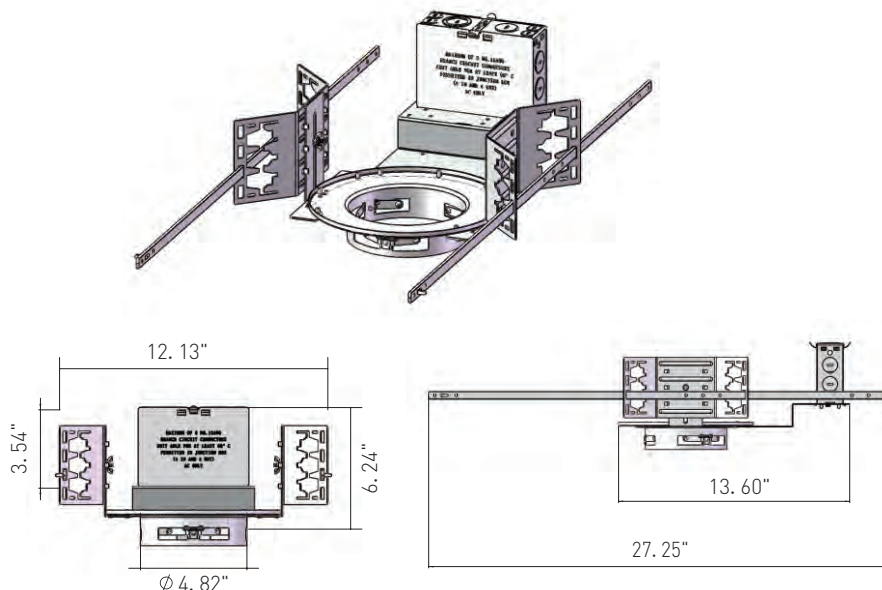


DIMENSIONS

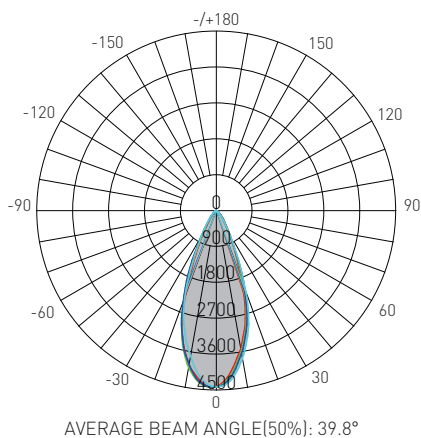


Mounting Diameters: 4"-4.7"

OPTIONAL NEW CONSTRUCTION FRAME



DISTRIBUTION DIAGRAM



Test Number: C4-D27W-35T
Lumens: 2277.5 Lm
Watts: 25.99 W
LPW: 87.64 Lm/W
CCT: 3500K

UNIT: cd
C0/180,38.5°
C30/210,39.6°
C60/240,40.5°
C90/270,40.5°

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	3526	3614	3773	3777	3951
20	1840	2066	2173	2290	2289
30	642.7	620.7	633.2	645.9	650.1
40	267.3	232.0	212.4	186.8	208.2
50	104.0	90.10	77.47	62.39	72.44
60	39.11	33.57	28.98	23.40	26.49
70	13.31	12.29	11.50	9.398	10.05
80	2.398	2.615	3.295	2.316	2.221
90	0.1544	0.0725	0.0700	0.0748	0.0755
100	0.0794	0.0794	0.0934	0.0864	0.0794
110	0.0794	0.1074	0.1401	0.1260	0.1335
120	0.1587	0.2077	0.2662	0.2522	0.2522
130	0.3638	0.4527	0.5326	0.5250	0.4906
140	1.012	1.181	1.243	1.153	1.084
150	2.687	2.862	2.845	2.633	2.519
160	4.998	5.053	5.034	4.790	4.666
170	7.029	7.112	7.158	6.916	6.752
180	8.081	8.177	8.179	8.207	8.086
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	φ total
0-10	386.8
10-20	1227
20-30	1816
30-40	2068
40-50	2187
50-60	2240
60-70	2262
70-80	2270
80-90	2271
90-100	2271
100-110	2271
110-120	2271
120-130	2272
130-140	2272
140-150	2273
150-160	2275
160-170	2277
170-180	2278
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	863	1168
80	1748	2402
75	3276	3333
70	4927	4256
65	7042	5477
60	9902	7336
55	14117	10335
50	20479	15256
45	30007	23078