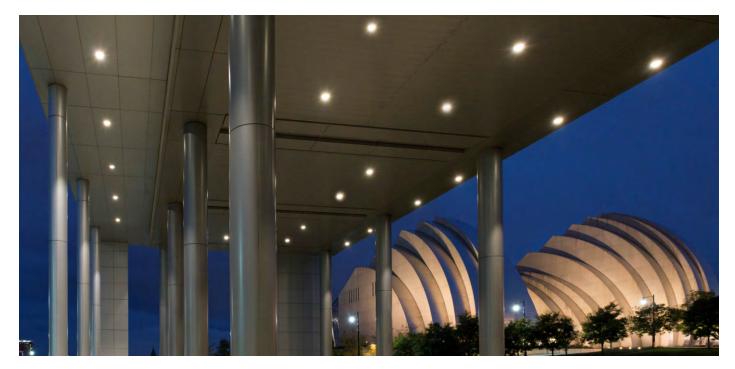
# Recessed-LED Commercial Downlight





OKT LED commercial downlights have been upgraded 4th generation since 2013. Each engine works seamlessly with the all trims, making it truly modular. 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. Light engine is mounted directly to aluminum trim providing superior thermal management to ensure long life. Spun aluminum reflector integrated with haze finish and white trim ring with shadow free.

It is available in 6", 8" and 10" with up to 80w which is designed and engineered for recessed applications, which is suitable for commercial and public places, such as shopping mall, hospital, airport, hotel lobby, etc.



UL, Energy Star and Damp Rated A smart design that one LED engine fits all trims 6", 8" and 10" size, 85lm/w, up to 80W CCT and wattage adjustable Twist-Lock Modular design New construction housing frame available

















## **PERFORMANCE**

Model NO.	Lumen Output			CCT Adjustable	Type
Model NO.	High	Medium	Low	OOT Adjustable	турс
CES-40W-TWS	40W, 3500LM	27W, 2300LM	18W, 1500LM	3000K, 3500K, 4000K	IC
CES-80W-XXE	80W, 6800LM	65W, 5500LM	50W, 4200LM	N/A	NON-IC

 $Above \ are \ subjuect \ to \ 3500K. \ All \ efficacy \ is \ \pm 5\% \ base \ on \ different \ CCT \ and \ Trims. \ Check \ the IES \ file \ to \ gain \ the \ accurate \ data \ accurate \ accurate \ data \ accur$ 

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## Recessed-LED Commercial Downlight



### STRUCTURE

### Optics

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

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 drivers are cULus recognized

and available for 110-277V AC.

# ▶ LED System

CRI Minimum 80 color rendering index

CCT The choice of 3000K, 3500K, 4000Kand 5000K

color temperature with a great color consistency, or CCT adjustable from 3000K,3500K and 4000K.

LED Life Minimum 50,000h with 87.8% of lumen

maintenance in  $25^{\circ}$ C ambient temperature, in compliance with IES LM-80 testing measurements.

Thermal Aluminum housing acting as the heat sink to

Management maximize life.

Environment Damp rated in operating ambient

temperatures of -20°C~40°C.

### ▶ 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 years limited warranty

### > Optional Function

Emergency Option



Optional low voltage emergency LED driver EM-L series 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.

# PRODUCT ORDERING GUIDE

Sample					
<u>CE</u> 8 - 40W - TWS					
CE					
1. Base Model					
☑ CE					
2. Size					
□ 6 6"					
□ 8 8"					
□ 10 10"					
3. CCT					
☐ 40W-TWS Wattage Selectable 40W,27W,18W & CCT Adjustable 3000K, 3500K,4000K					
☐ 80W-30E Wattage Selectable 80W,65W,50W & 3000K*					
☐ 80W-30E Wattage Selectable 80W,65W,50W & 3500K					
☐ 80W-30E Wattage Selectable 80W,65W,50W & 4000K					
OPTIONAL ORDERING GUIDE					
OPTIONAL ORDERING GUIDE					
OPTIONAL ORDERING GUIDE Optional Mounting Accessory					
OPTIONAL ORDERING GUIDE					
OPTIONAL ORDERING GUIDE Optional Mounting Accessory  6" Spring Clips					
OPTIONAL ORDERING GUIDE Optional Mounting Accessory  G" Spring Clips 8" Spring Clips					
OPTIONAL ORDERING GUIDE  Optional Mounting Accessory  6" Spring Clips 8" Spring Clips 10" Spring Clips Optional New Construction Frame Kit					
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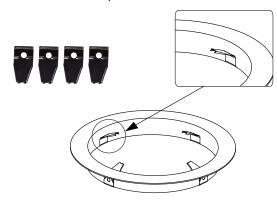
sales@oktlighting.com

# Recessed-LED Commercial Downlight



# MOUNTING ACCESSORY

Standard - Clips



# Optional - Spring Clips

Designed for CES downlight fixation, this spring clip can be used to secure the light to the housing frame kit if the existing clips could not match the mounting diameters. Made of premium material for long time and durable use.

### 6inch



#### 8inch



10inch

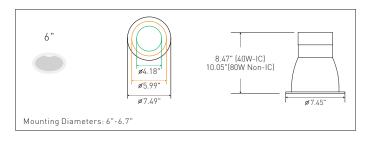


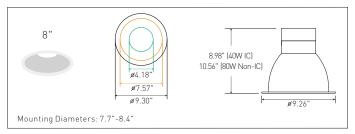


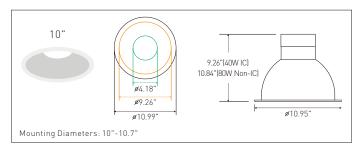




# **DIMENSIONS**







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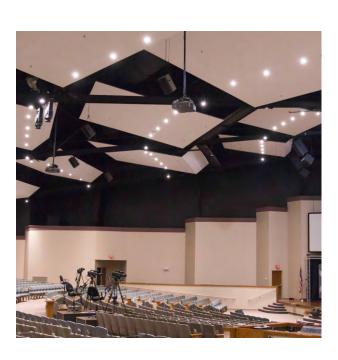
Mar 1th, 2024

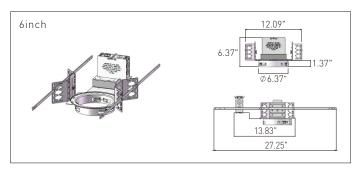


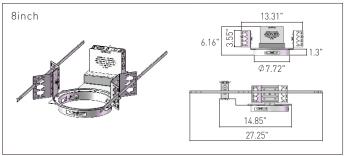
# OPTIONAL NEW CONSTRUCTION FRAME KIT

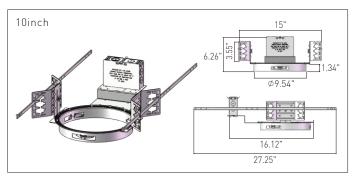
The frame kit was specifically designed for the CES series, it delivers the perfect aperture for a tight, seamless fit. This minimizes the space and materials required for installation. Steel housing frames are suitable for new construction. They are available in 6inch, 8inch and 10inch.











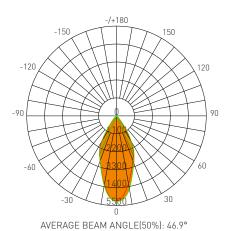
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# DISTRIBUTION DIAGRAM

# 8"-40W



Lumens: 3454.8 Lm Watts: 40 W LPW: 86.37 Lm/W CCT: 3000K UNIT: cd — C0/180,23.6,23.1 — C90/270,23.2,24.0

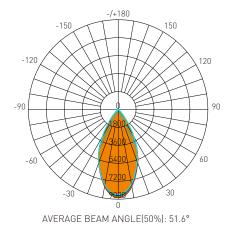
Zonal Flux Diagram					
Υ	C0	C45	C90	C135	C180
10	4207	4415	4558	4486	4303
20	2908	2989	3048	3017	2951
30	1783	1845	1841	1886	1860
40	404.4	449.3	484.6	473.0	456.1
50	86.32	93.34	102.6	97.79	98.80
60	28.65	31.97	35.80	31.96	31.76
70	11.68	13.27	14.63	12.86	12.69
80	4.325	4.949	5.424	4.908	4.774
90	0.0042	0.0048	0.0057	0.0085	0.0064
100	0.0030	0.0028	0.0022	0.0028	0.0042
110	0.0069	0.0047	0.0056	0.0044	0.0083
120	0.0130	0.0125	0.0130	0.0125	0.0155
130	0.0296	0.0321	0.0255	0.0322	0.0305
140	0.0873	0.0858	0.0741	0.0856	0.0737
150	0.1587	0.1440	0.1159	0.1539	0.1406
160	0.1934	0.2072	0.1962	0.2238	0.2125
170	0.1596	0.2089	0.2004	0.2279	0.2055
180	0.1087	0.1105	0.1023	0.0966	0.1065

LUMINOUS INTENSITY:cd

#### Zonal Lumens φ total 0-10 456.9 10-20 1464 20-30 2576 30-40 3195 40-50 3372 50-60 3423 60-70 3443 70-80 3452 80-90 3454 90-100 3454 100-110 3454 110-120 3455 120-130 3455 130-140 3455 140-150 3455 150-160 3455 160-170 3455 170-180 3455

UNIT- Im

#### 8"-80W



Lumens: 6288.5 Lm Watts: 80 W LPW: 78.61Lm/W CCT: 3000K 

# Zonal Flux Diagram

DEG

	•				
Υ	C0	C45	C90	C135	C180
10	7872	7743	7625	7552	7858
20	5741	5648	5579	5538	5777
30	3072	3196	3154	3133	3168
40	863.6	934.3	953.4	979.2	923.3
50	154.7	156.7	165.2	184.7	180.9
60	31.91	32.07	35.00	42.64	40.87
70	11.69	11.21	11.99	13.96	13.43
80	4.327	4.261	4.534	4.810	4.632
90	0.1629	0.1966	0.1448	0.1684	0.1504
100	0.1616	0.1471	0.1497	0.1443	0.1623
110	0.2522	0.2166	0.2029	0.2166	0.2211
120	0.5132	0.4694	0.4464	0.4604	0.4604
130	1.495	1.490	1.513	1.454	1.427
140	4.095	4.071	4.131	3.953	4.054
150	8.045	7.940	7.982	7.733	7.987
160	12.49	12.36	12.22	11.98	12.40
170	16.29	16.02	15.74	15.54	16.30
180	17.76	17.60	17.17	17.10	17.83
DEG	LUMINOUS INTENSITY:cd				

### Zonal Lumens

Υ	φ total			
0-10	775.2			
10-20	2630			
20-30	4656			
30-40	5823			
40-50	6169			
50-60	6241			
60-70	6261			
70-80	6269			
80-90	6271			
90-100	6271			
100-110	6272			
110-120	6272			
120-130	6273			
130-140	6275			
140-150	6278			
150-160	6283			
160-170	6287			
170-180	6288			
UNIT: lm				

### Luminance cd/(m2)

G(DEG)	C0/180	C90/270	
85	466	681	
80	880	923	
75	1033	1049	
70	1207	1239	
65	1530	1617	
60	2255	2474	
55	4114	4540	
50	8505	9079	
45	18529	21493	

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