

Description

The 6inch Commercial LED Down Lights are suitable for 100~277V Input with fire-rated Junction box, which delivers high lumens of exceptional 80+ CRI, Lifetime > 50000H with 3000K, 4000K, 5000K ES color temperatures options. It can replace for most manufacturers incandescent, CFL or H.I.D. fixtures with apertures of 6.1" min. to 6.7" max diameter. Easy conversion method and installation can be performed from below the ceiling without removing existing fixture.

PERFORMANCE SUMMARY

Efficacy: >89LPW

Rated Power: 18W

Delivered light output: 1606lm (3000K)

CRI: Ra>80

CCT Options: 3000K, 4000K, 5000K

THD: <20%

PF: >0.9

Standard Warranty: 5 Years

Standard Lifetime: Designed minimum 50,000 hours

Mounting: Recessed

Recommended Dimmers: DIVA-DVTV (LUTRON), NOVA T NTSTV-DV (LUTRON)

Signal Current: 0.88mA

Driver efficiency >87%.

Temperature Rating: Designed to operate in temperatures 45°C and below room side and plenum side.

CERTIFICATE

UL YES

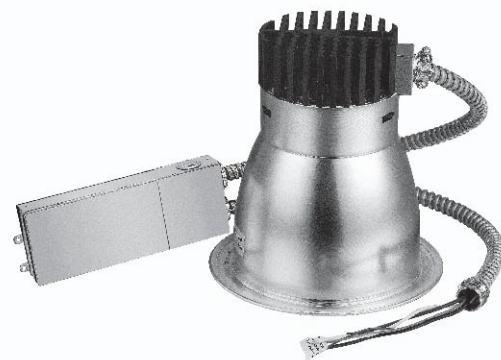
Energy Star Listed YES

LM79 Report YES

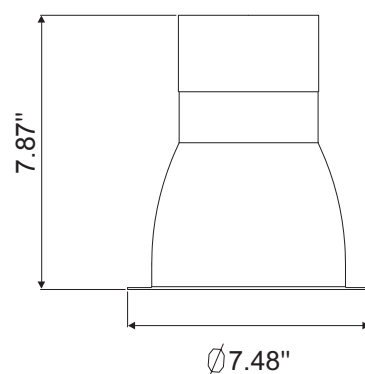
Damp Rated YES

CDL-18W-X-XXX

Architectural LED Retrofit Downlight



Dimension:

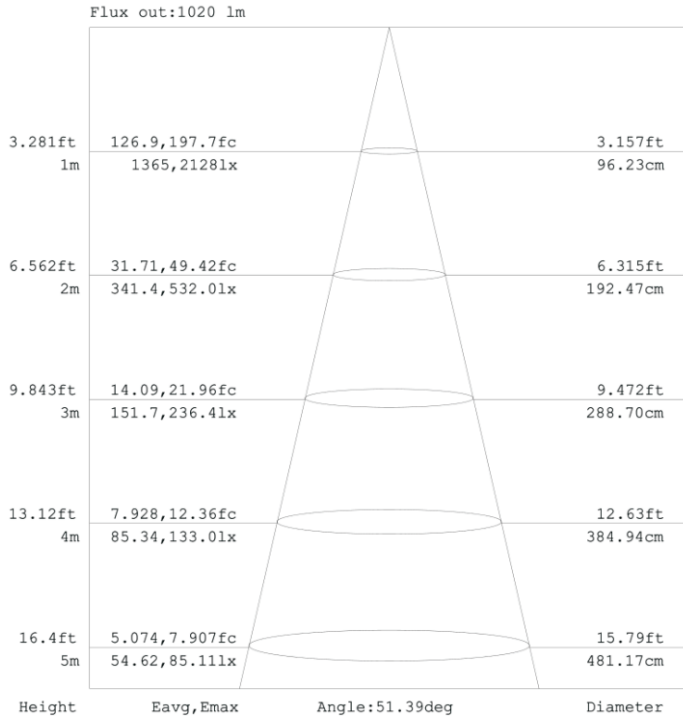


Order Information

CDL-18W-6-30E

Catagory	Wattage	Size	CCT(XX)	CRI(X)
CDL=Commercial	18W=18W 27W=27W 40W=40W	6=6inch	30=3000K 40=4000K 50=5000K	E=80 CRI

AVERAGE ILLUMINANCE CURVE



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

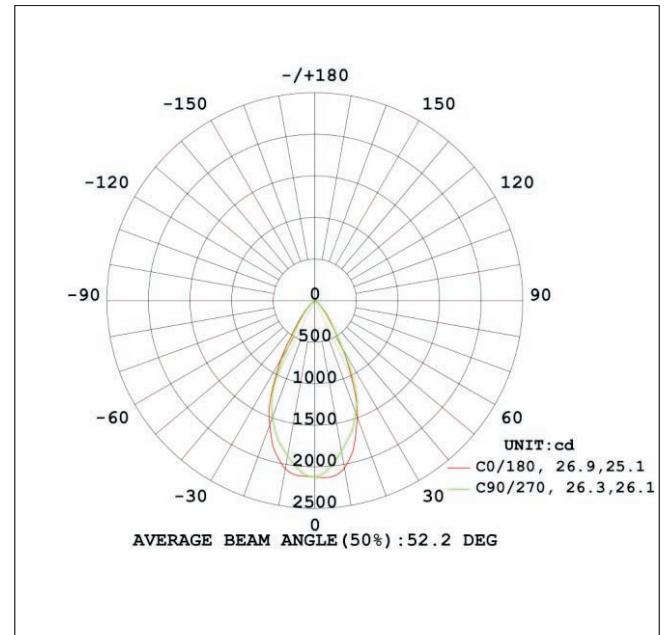
CDL-18W-X-XXX

PHOTOMETRY

Fixture photometry has been conducted accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%. Result may vary per actual order.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

CDL-18W-6-30E



ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180	C225	C270	C315
10	2044	1944	1841	1903	2053	2055	1895	1969
20	1495	1467	1441	1499	1589	1572	1495	1481
30	666.5	672.9	671.4	749.3	821.0	755.0	650.5	622.2
40	204.2	224.5	243.4	254.3	259.7	245.0	217.8	206.8
50	53.58	62.97	69.56	72.38	71.63	67.57	59.53	53.89
60	16.63	19.03	20.48	21.02	21.72	21.82	19.54	17.38
70	6.546	7.421	7.810	8.003	8.449	8.727	7.786	6.767
80	2.006	2.297	2.559	2.724	2.910	2.824	2.412	2.078
90	0	0.0000	0.0006	0.0076	0.0106	0	0	0
DEG	LUMINOUS INTENSITY: cd							

ZONAL LUMEN SUMMARY

T	Φ zone	Φ total	lum, lamp
0-10	195.0	195.0	12.1, 12.1
10-20	490.7	685.6	42.7, 42.7
20-30	516.2	1202	74.8, 74.8
30-40	253.0	1455	90.6, 90.6
40-50	100.3	1555	96.8, 96.8
50-60	32.32	1588	98.8, 98.8
60-70	12.47	1600	99.6, 99.6
70-80	5.093	1605	99.9, 99.9
80-90	0.9520	1606	100.100
	UNIT: lm		

COEFFICIENTS OF UTILIZATION

ppc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR: Room Cavity Ratio			(CU)												
0.0	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	00
1.0	111	108	106	109	106	104	105	103	101	101	99	98	97	96	95	94
2.0	103	99	96	101	98	95	98	95	93	95	93	91	92	91	89	87
3.0	96	91	87	95	90	87	92	89	85	90	87	84	88	85	83	81
4.0	90	85	81	89	84	80	87	83	79	85	81	78	83	80	77	76
5.0	85	79	75	84	78	74	82	77	74	80	76	73	79	75	72	71
6.0	80	74	70	79	73	69	77	72	69	76	72	68	75	71	68	67
7.0	75	69	65	74	69	65	73	68	65	72	68	64	71	67	64	63
8.0	71	65	61	70	65	61	69	64	61	68	64	60	67	63	60	59
9.0	67	61	58	67	61	57	66	61	57	65	60	57	64	60	57	56
10.0	64	58	54	63	58	54	63	58	54	62	57	54	61	57	54	53