

HCMDL

Deep Regressed Downlight

Available in 4", 6", 8" and 10" with up to 80w . Designed and engineered for recessed applications, suitable for commercial and public places, such as shopping mall, hospital, airport, hotel lobby, etc. 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.

Features:

- UL, Energy Star and Damp Rated
- A smart design that one LED engine fits all trims 4", 6", 8" and 10" size, 85lm/w
- Up to 80W
- CCT and wattage adjustable
- Twist-Lock Modular design
- New construction housing frame available

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 0-10V 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, 4000K and 5000K color temperature with great color consistency, or CCT adjustable from 3000K, 3500K and 4000K.

LED: Life minimum 50,000 hours with 87.8% lumen maintenance at 25°C ambient temperature, in compliance with IES LM-80 testing measurements.

Thermal Management: Aluminum housing acts as the heat sink to maximize life.

Environment: Damp rated for operating ambient temperatures of -20°C to 40°C.

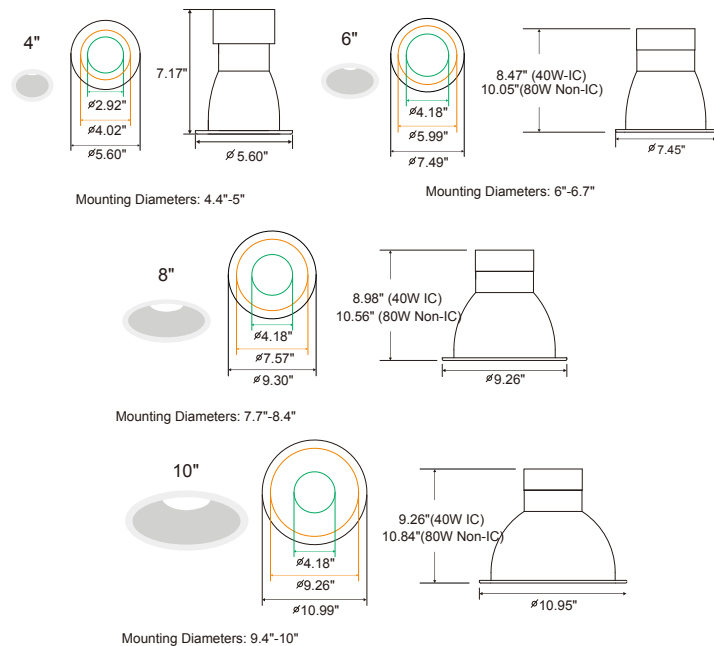
Mounting: Provided with spring steel friction clips allowing for installation in a variety of commercial recessed open frame rough-in sections.

APPROVALS:

- cULus listed for damp locations
- Energy Star Listed
- Tested to IESNA LM-79 and LM-80
- 5 years limited warranty



DIMENSIONS



PERFORMANCE

Model NO.	Lumen Output			CCT Adjustable	Type	Compatible Trims
	High	Medium	Low			
HCMDL-27W-TWS	27W, 2025LM	20W, 1600LM	14W, 1200LM	3000K, 3500K, 4000K	NON-IC	Only for 4inch
HCMDL-40W-TWS	40W, 3500LM	27W, 2300LM	18W, 1500LM	3000K, 3500K, 4000K	IC	Only for 6inch, 8inch and 10inch
HCMDL-80W-XXE	80W, 6800LM	65W, 5500LM	50W, 4200LM	Fixed	NON-IC	Only for 6inch, 8inch and 10inch

Above are subject to 3500K. All efficacy is ±5% base on different CCT and Trims. Check the IES file to gain the accurate data .

2026.07

PRODUCT ORDERING GUIDE: Example: HCMDL-6-40W-TWS

Cutout Size		Wattage & CCT	
HCMDL-4 4 Inch (27W Only)	QuickShip	27W-35T (Only for 4inch) Wattage Selectable 27W,20W,14W & CCT Adjustable 3000K, 3500K ,4000K	QuickShip
HCMDL-6 6 Inch	QuickShip	40W-TWS (Only for 6inch, 8inch and 10inch) Wattage Selectable 40W,27W,18W & CCT Adjustable 3000K, 3500K ,4000K	QuickShip
HCMDL-8 8 Inch	QuickShip	80W-30E (Only for 6inch, 8inch and 10inch) * Wattage Selectable 80W,65W,50W & 3000K	Make to Order
HCMDL-10 10 Inch	QuickShip	80W-35E (Only for 6inch, 8inch and 10inch) Wattage Selectable 80W,65W,50W & 3500K	QuickShip
		80W-40E (Only for 6inch, 8inch and 10inch) Wattage Selectable 80W,65W,50W & 4000K	QuickShip

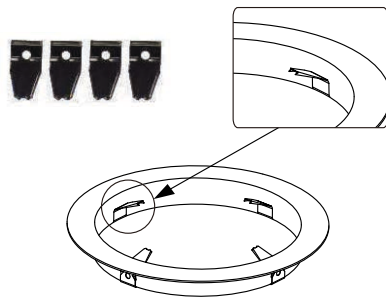
OPTIONAL MOUNTING ACCESSORY

Optional Spring Clips	Optional New Construction Frame Kit	Optional Emergency Function
SP6 Spring Clips For 6"	FK4R 4" Housing Frame Kit	Field-installed (Pre-wired option available) Only external 16w or 25w LED emergency driver with standard indicator available.
SP8 Spring Clips For 8"	FK6R 6" Housing Frame Kit	EME/EM-H16170 16W Emergency LED Driver
SP10 Spring Clips For 10"	FK8R 8" Housing Frame Kit	EME/EM-H25170 25W Emergency LED Driver
	FK10R 10" Housing Frame Kit	

*Make to Order means additional cost and /or lead time on customized fixtures may apply. Some fixtures require an MOQ. Please contact your sales rep for more information.

MOUNTING ACCESSORY

Standard - Clips



Optional New Construction Frame Kit

The frame kit was specifically designed for the HCMDL 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.



Optional - Spring Clips

Designed for HCMDL 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

SP6



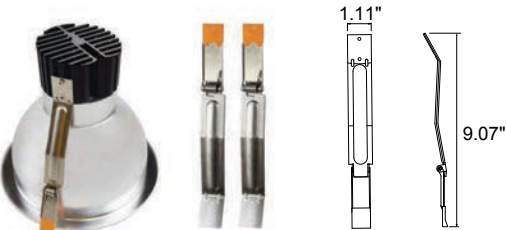
8inch

SP8



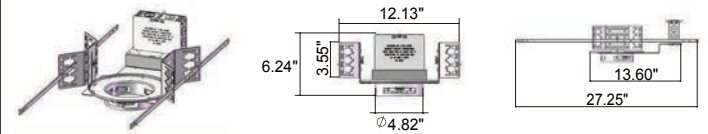
10inch

SP10



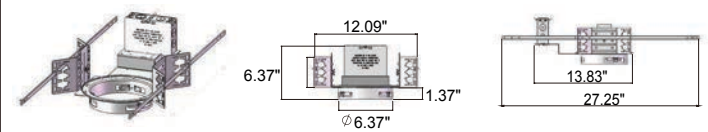
4inch

FK4R



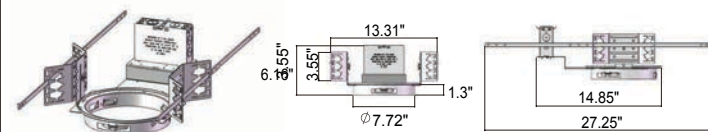
6inch

FK6R



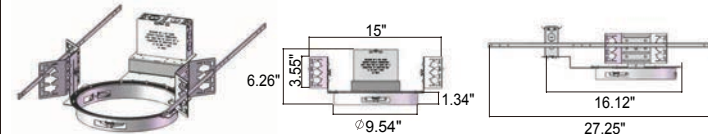
8inch

FK8R



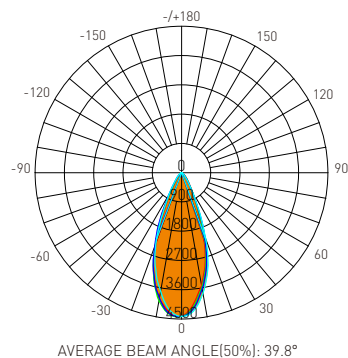
10inch

FK10R



DISTRIBUTION DIAGRAM

4"-27W



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

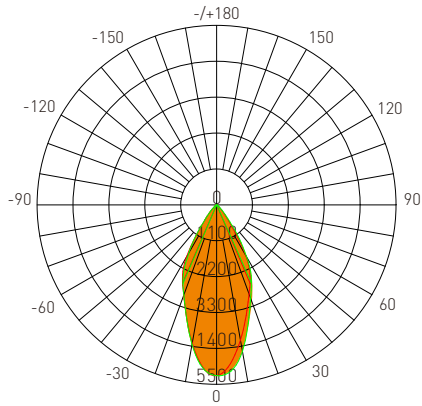
T	φ total
0-10	386.8
10-20	1227
20-30	1816
30-40	2068
40-50	2187
50-60	2240
60-70	2262
70-80	2270
80-90	2271
90-100	2271
100-110	2271
110-120	2271
120-130	2272
130-140	2272
140-150	2273
150-160	2275
160-170	2277
170-180	2278
UNIT: lm	

Luminance cd/(m2)

G(°)	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

DISTRIBUTION DIAGRAM

8"-40W



AVERAGE BEAM ANGLE(50%): 46.9°

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

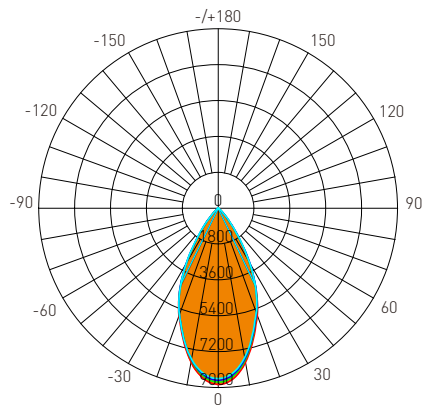
Zonal Flux Diagram

τ	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
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

τ	
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: lm

8"-80W



AVERAGE BEAM ANGLE(50%): 51.6°

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

UNIT: cd
— C0/180,51.0 °
— C30/210,51.4 °
— C60/240,51.9 °
— C90/270,52.0 °

Zonal Flux Diagram

	10	20	30	40	50
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

	0-10	
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)

	85	466	681
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	