

PROJECT

DATE

COMMENTS



IN STOCK



ENERGY CHART

OUTPUT	WATTAGE	DELIVERED LUMENS	EFFICACY lm/w
FS1	10	800	80
	15	1170	78
	20	1500	75
FS2	27	2430	90
	34	2890	85
	40	3200	80
FS2	40	4360	109
	50	5300	106
	60	6180	103

CDLSQ COMMERCIAL DOWNLIGHT SQUARE LED

CDLSQ is a cost effective commercial grade round downlight with integral junction box, available in 4" or 6" trims with general open or wall wash distribution. For new construction, a frame kit is available. For remodel applications, CDLSQ can be installed from below the ceiling without a new construction frame kit.

- Residential
- Commercial
- Hospitality

PHYSICAL

Housing Material	Aluminum
Reflector	Spun Aluminum Haze Finish
Mounting	Recessed: Spring Clips or New Construction Frame Kit
Trim Finish	White
Trim Shapes	Square Trim, Square Wall Wash Trim

PERFORMANCE

Warranty	5 years
Certifications	Damp Location, UL, Energy Star* (FS1/FS1C with 4", 6", 8" trims and FS2 with 4", 6", 8", 10" trims are listed on Energy Star)
Rated Life	>50,000 hours
CCT	Field Selectable 3CCT: FS1/FS2/FS3: 3000K/3500K/4000K & FS1C: 3000K/4000K/5000K
CRI	80+

ELECTRICAL

Wattage	Field Selectable: 10/15/20W, 27/34/40W, 40W/50W/60W
Voltage	FS1/FS1C/FS2: 120-347V & FS3: 120-277V
Power Factor	>0.9
Dimmable	0-10V FS1/FS1C/FS2: Dim to 10% & FS3: Dim to 1%

ORDERING LOGIC

EX: CDLSQ-4-SO-FS1

FAMILY	SIZE	TRIM	OUTPUT
CDLSQ			
	4 4"	SO Square Open	FS1 10W/15W/20W CCT: 3000K / 3500K / 4000K
	6 6"	SW Square Wall Wash	FS2 27W/34W/40W CCT: 3000K / 3500K / 4000K
			FS3 ¹ 40W/50W/60W CCT: 3000K / 3500K / 4000K
			FS1C 10W/15W/20W CCT: 3000K / 4000K / 5000K

ORDERING NOTES

1 6 Size and SO Trim Only, Dim to 1%

SEE NEXT PAGE FOR ACCESSORIES



ACCESSORIES ORDERING LOGIC (ORDER SEPARATELY)

EX: CDLSQ-FKS

FAMILY	ACCESSORIES
CDLSQ	
FKS	New Construction Square Frame Kit for 3" to 8" Downlights
FKSJ	New Construction Round Square Kit for 3" to 8" Downlights with J-Box and 2' MC Cable Included
EM16	16W External 120-277V Emergency LED Driver: 120-Minutes
EM25	25W External 120-277V Emergency LED Driver: 120-Minutes

SPECIFICATIONS
STRUCTURE

Spun aluminum shadow-free reflector integrated with haze finish and white trim ring.

TRIM OPTIONS

- Square Trim: 4", 6"
- Square Wall Wash Trim: 4", 6"

ELECTRICAL

Class 2, high efficiency, 0-10V driver with continuous dimming down to 10% for FS1/FS1C/FS2 output options or down to 1% for FS3 output option.

Confirmed compatibility with (but not limited to) the following dimmers:

1. Leviton IP710-DL
2. Leviton IP710-LF
3. Lutron PowPak 0-10V Dimming Module
4. Lutron Diva-Dvtv
5. Hubbell NX Distributed Room Controller
6. Cooper Greengate Room Controller
7. nLight nPP16D
8. WattStopper DLM

LED SYSTEM

CRI: Minimum 80 color rendering index

CCT: 3CCT Field Selectable

- **FS1/FS2/FS3:** 3000K/3500K/4000K
- **FS1C:** 3000K/4000K/5000K

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

MOUNTING

Durable spring clips allow for fast and easy flush installation. New construction frame kit can be ordered separately.

APPROVALS

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

WARRANTY

5-year limited warranty on LED and driver.

ADDITIONAL OPTIONS

Emergency Option: Optional high power 120-277V emergency LED driver for lighting up to 120 minutes in event of power failure.

ADDITIONAL IMAGERY
ENGINES


UP TO 60W NON-IC
(Only for 6"/8"/10" round trim)



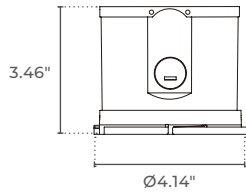
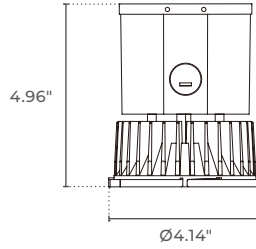
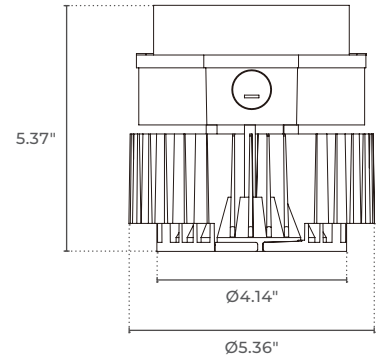
UP TO 40W NON-IC

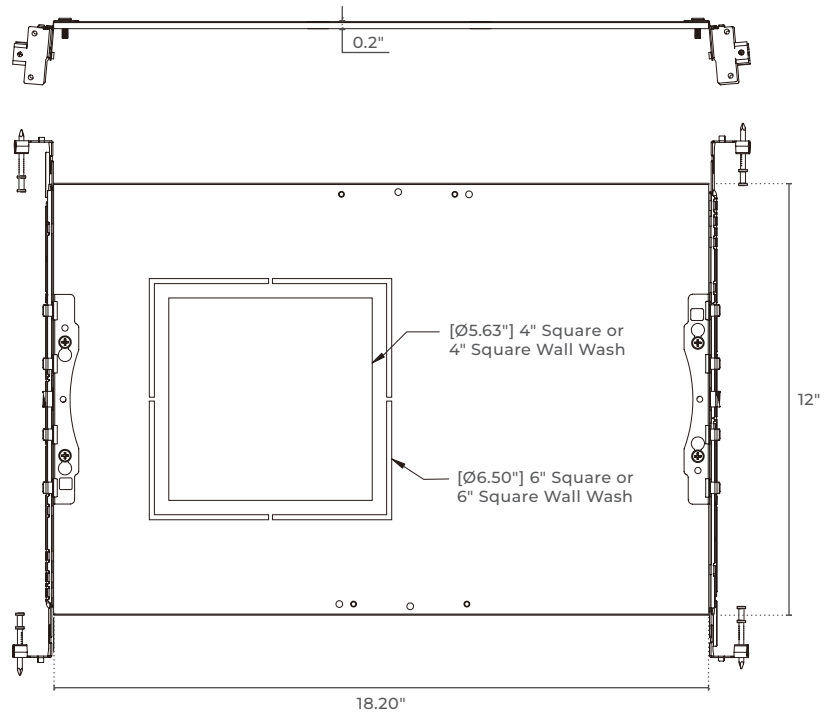


UP TO 20W NON-IC
(For all trims)

TRIMS

HOUSING


ENGINE DIMENSIONS
FS1 10W/15W/20W

FS2 27W/34W/40W

FS3 40W/50W/60W

OPTIONAL NEW CONSTRUCTION FRAME KIT
CDLSQ-FKS New Construction Square Frame Kit for 3" to 8" Downlights

CDLSQ-FKSJ New Construction Square Frame Kit for 3" to 8" Downlights with J-Box and 3' MC Cable Included


TRIM DIMENSIONS

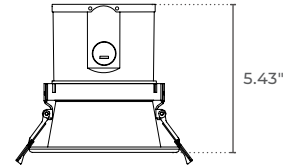
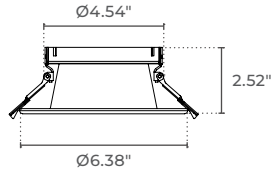
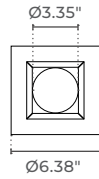
Trim Options For **FS1** & **FS1C** Modules

4" SQUARE TRIMS

Mounting Diameters: 5.3" – 6"



White Ring

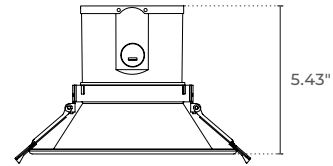
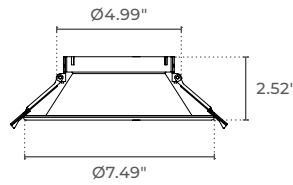
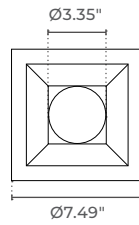


6" SQUARE TRIMS

Mounting Diameters: 6" – 7.3"



White Ring



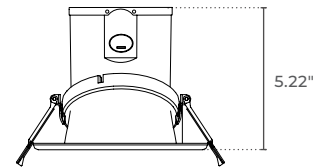
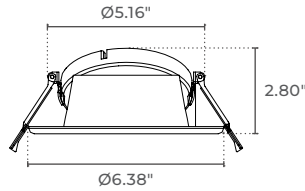
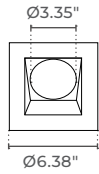
4" SQUARE WALL WASH TRIMS

Tilt: 15°

Mounting Diameters: 5.3" – 6"



White Ring



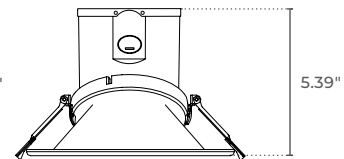
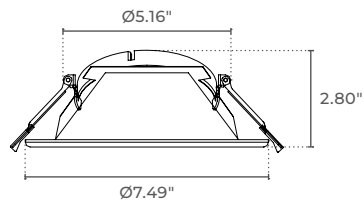
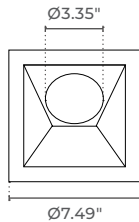
6" SQUARE WALL WASH TRIMS

Tilt: 15°

Mounting Diameters: 6" – 7.3"



White Ring



TRIM DIMENSIONS

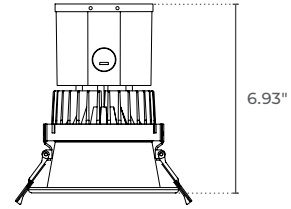
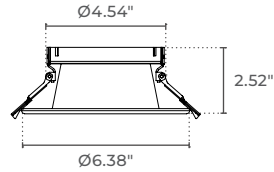
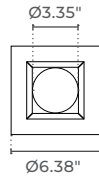
Trim Options For **FS2** Modules

4" SQUARE TRIMS

Mounting Diameters: 5.3" – 6"



White Ring

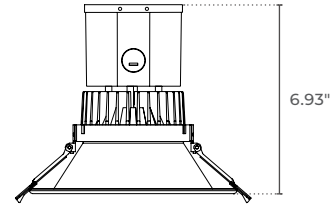
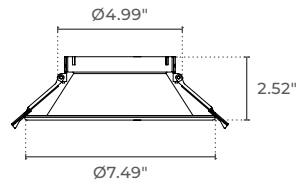
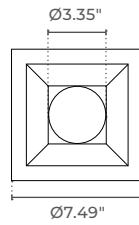


6" SQUARE TRIMS

Mounting Diameters: 6" – 7.3"



White Ring



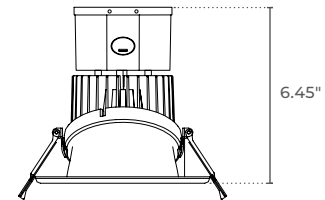
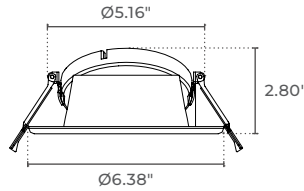
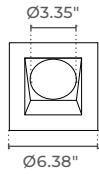
4" SQUARE WALL WASH TRIMS

Tilt: 15°

Mounting Diameters: 5.3" – 6"



White Ring



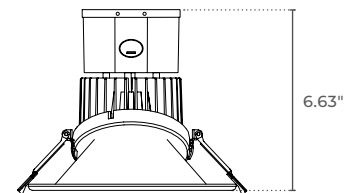
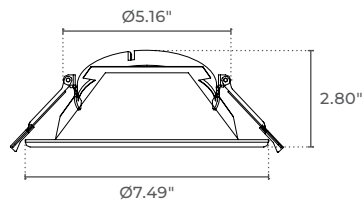
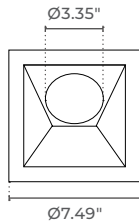
6" SQUARE WALL WASH TRIMS

Tilt: 15°

Mounting Diameters: 6" – 7.3"



White Ring



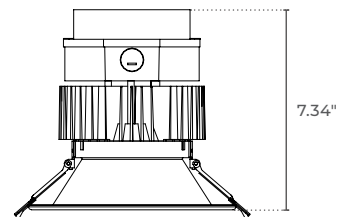
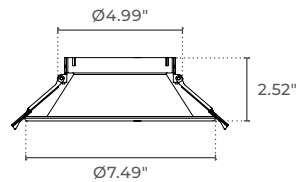
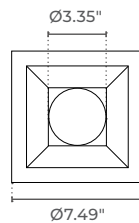
Trim Options For **FS3** Modules

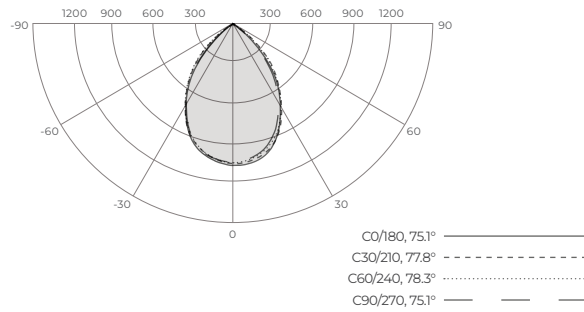
6" SQUARE TRIMS

Mounting Diameters: 6" – 7.3"



White Ring



PHOTOMETRICS - 6" SQUARE TRIM - 20W - 4000K
AVERAGE BEAM ANGLE (50%): 76.6°

Luminance cd/(m2)

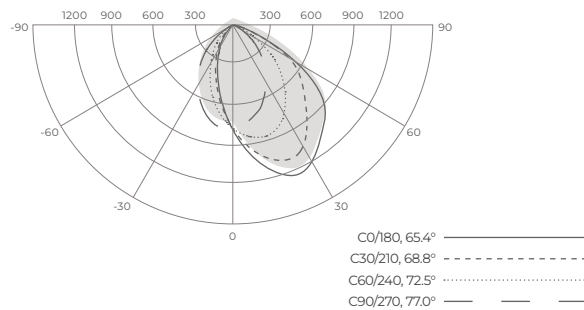
G(DEG)	C0/180	C90/270
85	662	908
80	395	528
75	341	445
70	351	439
65	965	913
60	2869	2684
55	6050	5712
50	11807	10926
45	19770	18214

ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180
10	1047	1022	1007	992.7	1027
20	939.2	932.1	893.4	892.4	922.1
30	719.9	739.1	687.3	709.4	711.5
40	471.7	497.7	440.1	477.0	457.8
50	170.8	280.1	158.0	250.7	159.6
60	32.27	62.15	30.20	46.44	33.23
70	2.699	4.711	3.380	4.018	3.231
80	1.543	2.277	2.065	2.620	1.965
90	0.1002	0.0711	0.1300	0.0681	0.1300
100	0.0406	0.0496	0.0406	0.0406	0.0451
110	0.0587	0.1195	0.1128	0.1015	0.1038
120	0.2476	0.3584	0.3114	0.3492	0.3024
130	0.6308	0.7486	0.6814	0.7350	0.7086
140	1.149	1.193	1.150	1.217	1.205
150	1.614	1.648	1.633	1.653	1.682
160	2.155	2.061	2.043	2.088	2.156
170	2.363	2.331	2.304	2.322	2.422
180	2.498	2.444	2.431	2.415	2.503
DEG	LUMINOUS INTENSITY: cd				

ZONAL LUMEN SUMMARY

T	Φ TOTAL
0-10	98.17
10-20	371.6
20-30	748.1
30-40	1122
40-50	1389
50-60	1490
60-70	1507
70-80	1510
80-90	1511
90-100	1511
100-110	1511
110-120	1512
120-130	1512
130-140	1513
140-150	1514
150-160	1515
160-170	1515
170-180	1515
UNIT: lm	

PHOTOMETRICS - 6" SQUARE WALL WASH TRIM - 20W - 3000K
AVERAGE BEAM ANGLE (50%): 71.0°

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	373	694
80	3114	410
75	9473	779
70	17677	1904
65	31770	3741
60	46776	6569
55	57281	10368
50	62005	14225
45	61916	17780

ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180
10	1038	919.6	732.9	585.3	554.5
20	1209	984.8	638.0	411.7	353.7
30	1192	930.7	494.7	267.4	210.7
40	1053	743.2	354.7	155.9	97.27
50	896.8	548.9	205.7	66.71	21.28
60	526.2	310.4	73.90	12.46	5.292
70	136.0	73.16	14.65	4.282	4.094
80	12.17	4.784	1.600	3.400	3.395
90	0.1674	0.0925	0.0768	0.1779	0.0947
100	0.0812	0.0812	0.1175	0.2143	0.3070
110	0.0631	0.0925	0.1760	0.5996	0.7989
120	1.081	0.1646	0.3880	1.220	1.633
130	0.1577	0.2909	0.6721	1.526	2.147
140	0.3513	0.4938	0.9789	1.914	2.359
150	0.6173	0.7667	1.276	2.081	2.534
160	0.9781	1.127	1.565	2.182	2.530
170	1.433	1.522	1.781	2.153	2.340
180	1.935	1.851	1.826	1.847	1.944
DEG	LUMINOUS INTENSITY: cd				

ZONAL LUMEN SUMMARY

T	Φ TOTAL
0-10	73.89
10-20	284.3
20-30	592.3
30-40	929.2
40-50	1235
50-60	1461
60-70	1563
70-80	1584
80-90	1586
90-100	1586
100-110	1586
110-120	1587
120-130	1588
130-140	1588
140-150	1589
150-160	1590
160-170	1590
170-180	1591
UNIT: lm	

