

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572209

Luminaire Tested: 24ID-75-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-75-L840-DBD
Description: 7500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

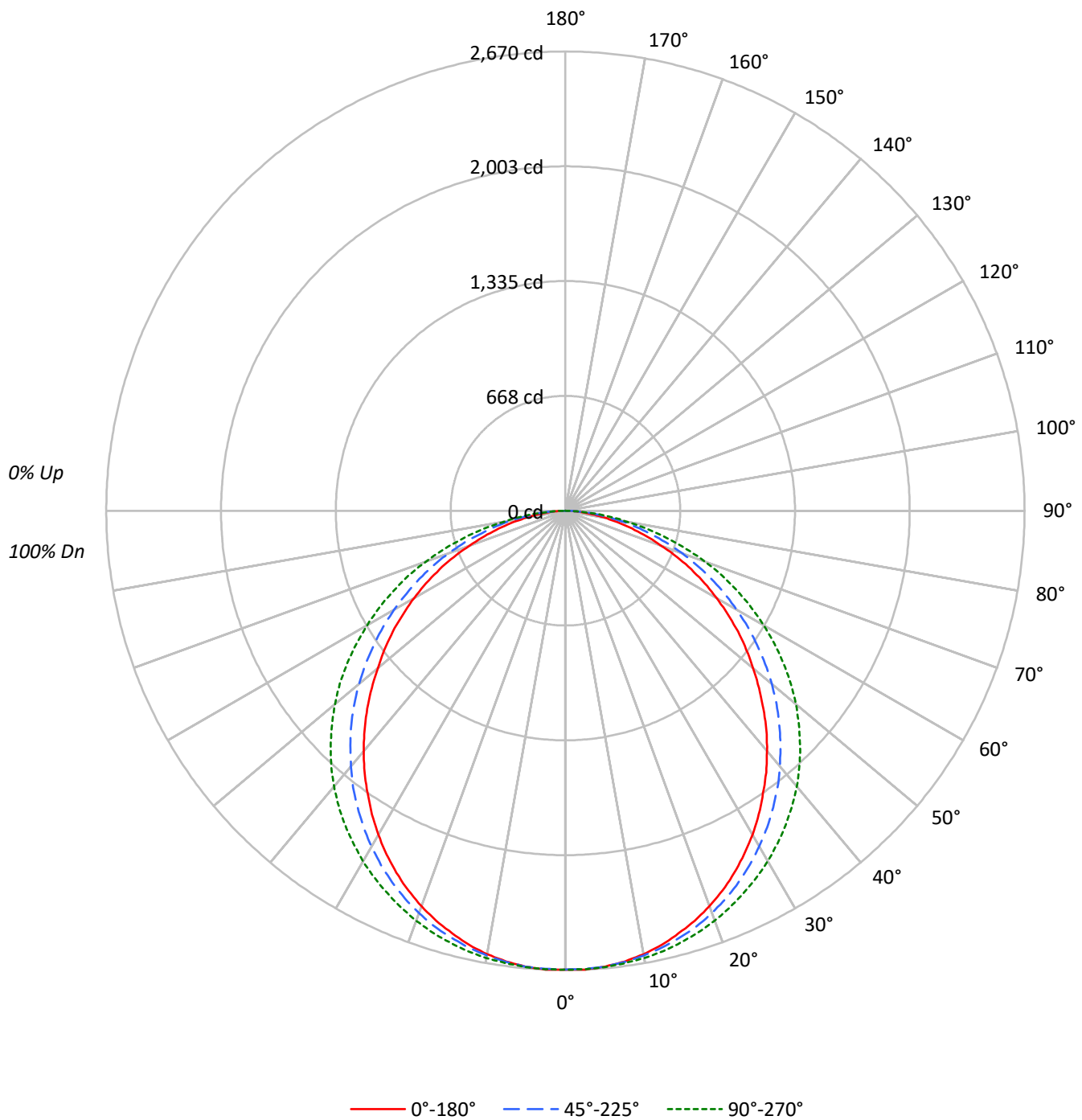
Lumens per Lamp: N/A
Luminaire Lumens: 7611.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P572209

CATALOG NUMBER: 24ID-75-L840-DBD

Luminous Intensity Polar Plot



TEST NUMBER: P572209

CATALOG NUMBER: 24ID-75-L840-DBD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3589	3589	3589
5°	3580	3566	3570
10°	3551	3532	3555
15°	3505	3495	3541
20°	3452	3454	3525
25°	3384	3398	3505
30°	3300	3333	3489
35°	3199	3258	3464
40°	3095	3172	3437
45°	2975	3076	3390
50°	2838	2966	3331
55°	2712	2830	3248
60°	2546	2680	3131
65°	2358	2504	2975
70°	2088	2279	2749
75°	1804	1964	2414
80°	1427	1596	1888
85°	983	988	1134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3390 cd/sqm

TEST NUMBER: P572209

CATALOG NUMBER: 24ID-75-L840-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.9	3.3
10°-20°	725.7	9.5
20°-30°	1100.0	14.5
30°-40°	1323.2	17.4
40°-50°	1366.0	17.9
50°-60°	1227.4	16.1
60°-70°	934.5	12.3
70°-80°	536.6	7.1
80°-90°	144.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2078.5	27.3
0°-40°	3401.7	44.7
0°-60°	5995.1	78.8
0°-90°	7611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2660	2663	2660	2658	2663	253
15°	2544	2556	2569	2586	2598	718
25°	2324	2346	2383	2433	2452	1070
35°	2004	2039	2106	2198	2232	1255
45°	1628	1666	1760	1881	1930	1256
55°	1225	1257	1359	1490	1549	1093
65°	807	844	936	1044	1101	798
75°	401	438	502	574	609	425
85°	94	109	129	136	144	110
90°	0	0	0	0	0	

TEST NUMBER: P572209

CATALOG NUMBER: 24ID-75-L840-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2667.8	2667.8	2667.8	2667.8	2667.8
2.5°	2670.2	2670.2	2665.3	2662.8	2667.8
5°	2660.3	2662.8	2660.3	2657.9	2662.8
7.5°	2643.0	2645.5	2645.5	2648.0	2652.9
10°	2618.3	2623.2	2625.7	2633.1	2640.5
12.5°	2586.1	2591.1	2601.0	2613.3	2623.2
15°	2544.0	2556.4	2568.8	2586.1	2598.5
17.5°	2499.5	2514.3	2534.1	2556.4	2571.3
20°	2447.5	2464.8	2489.6	2519.3	2536.6
22.5°	2388.1	2410.4	2440.1	2477.2	2497.0
25°	2323.8	2346.1	2383.2	2432.7	2452.5
27.5°	2252.0	2276.8	2321.3	2378.2	2405.4
30°	2175.3	2202.5	2254.5	2323.8	2353.5
32.5°	2093.6	2123.3	2182.7	2261.9	2294.1
35°	2004.5	2039.2	2106.0	2197.6	2232.2
37.5°	1917.9	1952.6	2026.8	2125.8	2165.4
40°	1823.9	1861.0	1940.2	2049.1	2093.6
42.5°	1729.8	1762.0	1851.1	1967.4	2014.4
45°	1628.4	1665.5	1759.5	1880.8	1930.3
47.5°	1526.9	1566.5	1665.5	1789.2	1841.2
50°	1423.0	1465.0	1566.5	1692.7	1749.6
52.5°	1326.5	1361.1	1465.0	1593.7	1653.1
55°	1225.0	1257.2	1358.6	1489.8	1549.2
57.5°	1118.6	1155.7	1257.2	1380.9	1440.3
60°	1014.6	1051.8	1148.3	1272.0	1331.4
62.5°	913.2	947.8	1041.9	1160.7	1220.0
65°	806.8	843.9	935.5	1044.3	1101.3
67.5°	702.8	742.4	829.0	928.0	987.4
70°	591.5	636.0	720.1	811.7	858.7
72.5°	492.5	534.5	611.3	692.9	737.5
75°	400.9	438.0	502.4	574.1	608.8
77.5°	309.3	348.9	405.9	460.3	487.5
80°	227.7	264.8	309.3	346.5	358.8
82.5°	155.9	183.1	215.3	235.1	252.4
85°	94.0	108.9	128.7	136.1	143.5
87.5°	39.6	44.5	52.0	49.5	52.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572209
CATALOG NUMBER: 24ID-75-L840-DBD

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.05	16.69	15.41	17.00	17.32	16.51	18.15	16.88	18.47	18.78
	3H	16.61	18.10	16.99	18.42	18.78	18.41	19.90	18.79	20.22	20.58
	4H	17.13	18.53	17.53	18.88	19.25	19.11	20.51	19.51	20.86	21.24
	6H	17.46	18.76	17.87	19.12	19.51	19.61	20.91	20.02	21.27	21.66
	8H	17.54	18.78	17.97	19.17	19.57	19.75	20.99	20.18	21.38	21.78
	12H	17.58	18.77	18.01	19.15	19.58	19.83	21.02	20.26	21.40	21.83
4H	2H	15.80	17.20	16.20	17.55	17.92	16.97	18.37	17.37	18.72	19.09
	3H	17.57	18.74	17.97	19.14	19.54	19.08	20.26	19.49	20.65	21.05
	4H	18.19	19.25	18.62	19.67	20.10	19.92	20.98	20.35	21.39	21.83
	6H	18.62	19.55	19.08	19.99	20.45	20.54	21.47	20.99	21.91	22.37
	8H	18.74	19.61	19.20	20.05	20.52	20.73	21.60	21.19	22.04	22.51
	12H	18.81	19.59	19.29	20.06	20.53	20.84	21.63	21.32	22.10	22.57
8H	4H	18.57	19.44	19.03	19.88	20.35	20.11	20.98	20.57	21.42	21.89
	6H	19.11	19.83	19.60	20.32	20.80	20.84	21.56	21.33	22.05	22.52
	8H	19.28	19.93	19.79	20.43	20.92	21.08	21.73	21.59	22.24	22.72
	12H	19.39	19.97	19.90	20.46	21.02	21.25	21.83	21.76	22.32	22.88
12H	4H	18.62	19.40	19.10	19.88	20.35	20.12	20.90	20.60	21.38	21.85
	6H	19.18	19.83	19.69	20.34	20.82	20.85	21.50	21.36	22.01	22.49
	8H	19.40	19.98	19.91	20.47	21.03	21.14	21.72	21.65	22.21	22.77