

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: P572194

Luminaire Tested: 24ID-65-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-65-L840-DBR
Description: 6500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

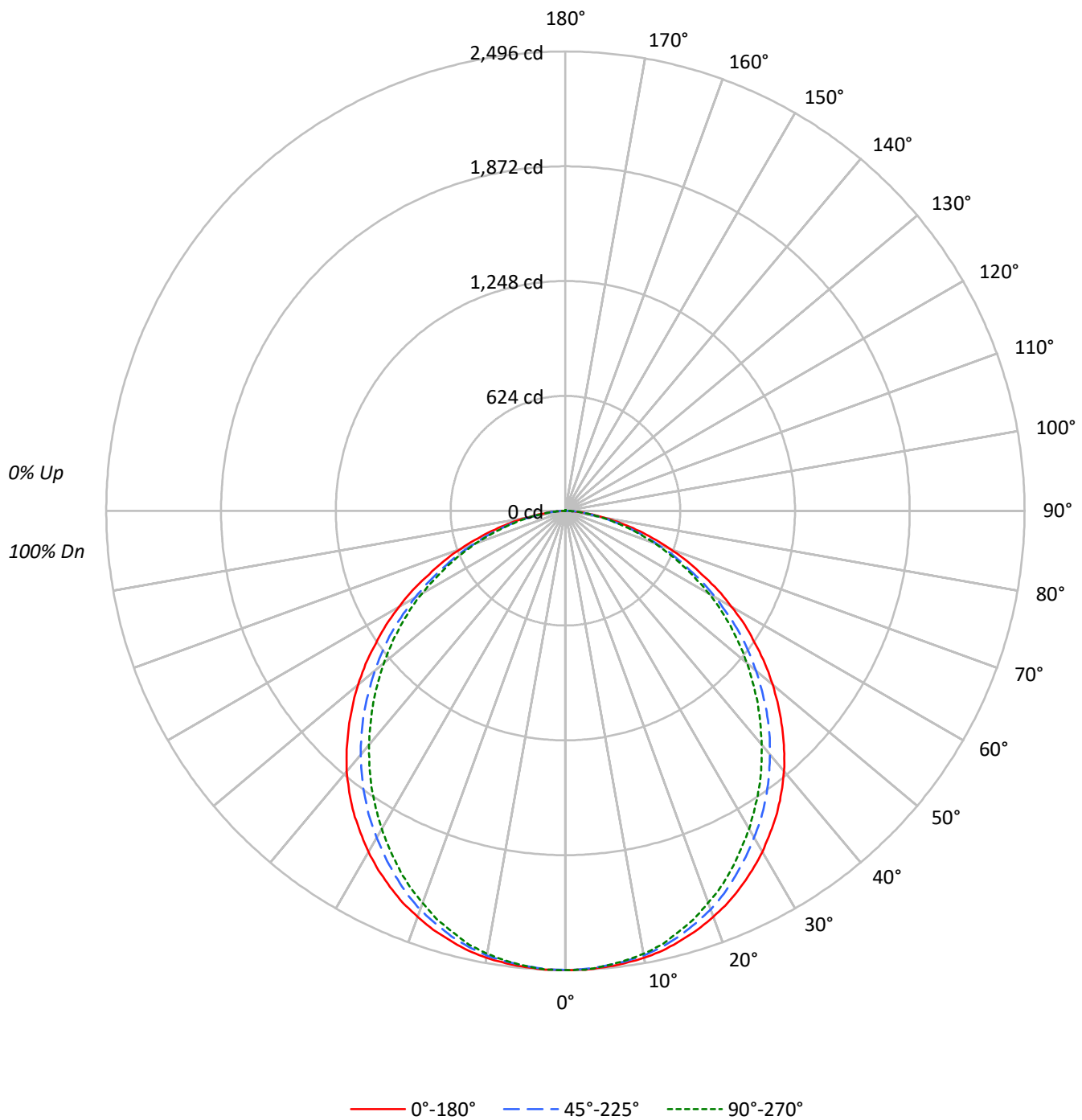
Lumens per Lamp: N/A
Luminaire Lumens: 6561.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.5
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

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Luminous Intensity Polar Plot



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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	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3359	3359	3359
5°	3363	3354	3354
10°	3371	3354	3341
15°	3370	3335	3303
20°	3363	3304	3249
25°	3349	3249	3183
30°	3326	3187	3102
35°	3295	3121	3016
40°	3248	3039	2916
45°	3171	2945	2811
50°	3079	2831	2697
55°	2954	2706	2571
60°	2803	2535	2423
65°	2602	2326	2234
70°	2383	2093	2030
75°	2066	1799	1749
80°	1664	1416	1416
85°	841	891	841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	3.6
10°-20°	675.2	10.3
20°-30°	1010.9	15.4
30°-40°	1194.8	18.2
40°-50°	1202.6	18.3
50°-60°	1040.7	15.9
60°-70°	741.2	11.3
70°-80°	380.6	5.8
80°-90°	78.7	1.2
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°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1922.2	29.3
0°-40°	3117.0	47.5
0°-60°	5360.3	81.7
0°-90°	6560.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2490	2487	2484	2480	2484	237
15°	2420	2410	2394	2375	2372	683
25°	2256	2237	2189	2154	2144	1040
35°	2006	1974	1900	1852	1836	1253
45°	1666	1631	1548	1493	1477	1285
55°	1259	1224	1154	1106	1096	1127
65°	817	788	731	705	702	814
75°	397	378	346	333	336	424
85°	54	54	58	58	54	82
90°	0	0	0	0	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	3	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2496.4	2493.2	2493.2	2490.0	2496.4
5°	2490.0	2486.8	2483.6	2480.4	2483.6
7.5°	2480.4	2474.0	2470.8	2464.4	2467.6
10°	2467.6	2461.2	2454.8	2445.2	2445.2
12.5°	2448.4	2442.0	2429.1	2416.3	2416.3
15°	2419.5	2409.9	2393.9	2374.7	2371.5
17.5°	2387.5	2374.7	2352.2	2329.8	2326.6
20°	2349.0	2336.2	2307.4	2278.5	2268.9
22.5°	2307.4	2291.3	2252.9	2220.8	2211.2
25°	2256.1	2236.9	2188.8	2153.5	2143.9
27.5°	2201.6	2176.0	2121.5	2083.0	2070.2
30°	2140.7	2115.1	2051.0	2012.5	1996.5
32.5°	2073.4	2044.6	1980.5	1932.4	1916.4
35°	2006.1	1974.1	1900.4	1852.3	1836.3
37.5°	1929.2	1894.0	1817.0	1765.8	1749.7
40°	1849.1	1813.8	1730.5	1679.2	1660.0
42.5°	1759.4	1724.1	1640.8	1586.3	1567.1
45°	1666.4	1631.2	1547.9	1493.4	1477.4
47.5°	1570.3	1528.6	1448.5	1397.2	1381.2
50°	1470.9	1429.3	1352.4	1301.1	1288.3
52.5°	1368.4	1326.7	1253.0	1201.7	1192.1
55°	1259.4	1224.2	1153.7	1105.6	1096.0
57.5°	1156.9	1118.4	1044.7	1009.5	999.9
60°	1041.5	1009.5	942.2	910.1	900.5
62.5°	935.8	903.7	836.4	801.2	798.0
65°	817.2	788.3	730.7	705.0	701.8
67.5°	714.6	682.6	634.5	608.9	608.9
70°	605.7	576.8	532.0	516.0	516.0
72.5°	496.7	477.5	439.0	423.0	426.2
75°	397.4	378.2	346.1	333.3	336.5
77.5°	304.4	282.0	262.8	253.2	256.4
80°	214.7	198.7	182.7	179.5	182.7
82.5°	128.2	118.6	115.4	115.4	115.4
85°	54.5	54.5	57.7	57.7	54.5
87.5°	22.4	19.2	19.2	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	3.2	0.0	3.2	3.2	3.2
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	3.2	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	3.2
177.5°	0.0	0.0	3.2	3.2	3.2
180°	0.0	0.0	0.0	0.0	0.0

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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	15.94	17.54	16.30	17.85	18.17	15.17	16.77	15.54	17.09	17.40
	3H	17.56	19.01	17.94	19.33	19.69	16.72	18.17	17.10	18.49	18.86
	4H	18.11	19.47	18.51	19.82	20.20	17.25	18.60	17.64	18.95	19.33
	6H	18.47	19.72	18.88	20.09	20.48	17.58	18.83	17.99	19.20	19.59
	8H	18.54	19.74	18.97	20.13	20.53	17.66	18.86	18.08	19.24	19.64
	12H	18.57	19.71	19.00	20.10	20.53	17.69	18.84	18.12	19.22	19.65
4H	2H	16.40	17.76	16.80	18.11	18.48	15.78	17.14	16.18	17.48	17.86
	3H	18.23	19.37	18.64	19.76	20.17	17.53	18.66	17.94	19.06	19.46
	4H	18.90	19.92	19.33	20.34	20.77	18.15	19.17	18.58	19.58	20.02
	6H	19.36	20.25	19.82	20.69	21.15	18.58	19.47	19.03	19.91	20.37
	8H	19.47	20.30	19.93	20.74	21.21	18.69	19.52	19.15	19.96	20.43
	12H	19.51	20.26	19.99	20.73	21.20	18.74	19.49	19.22	19.96	20.43
8H	4H	19.09	19.92	19.55	20.36	20.83	18.41	19.24	18.87	19.68	20.15
	6H	19.63	20.31	20.12	20.80	21.28	18.92	19.61	19.41	20.10	20.57
	8H	19.77	20.39	20.28	20.90	21.38	19.07	19.69	19.58	20.20	20.68
	12H	19.85	20.39	20.36	20.88	21.45	19.17	19.71	19.67	20.20	20.76
12H	4H	19.10	19.84	19.58	20.32	20.79	18.43	19.17	18.91	19.65	20.12
	6H	19.63	20.25	20.15	20.76	21.25	18.94	19.56	19.46	20.07	20.56
	8H	19.82	20.36	20.33	20.86	21.42	19.14	19.69	19.65	20.18	20.74

END OF REPORT