

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: P572199

Luminaire Tested: 24ID-70-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572199
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-70-L835-DBD
Description: 7000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

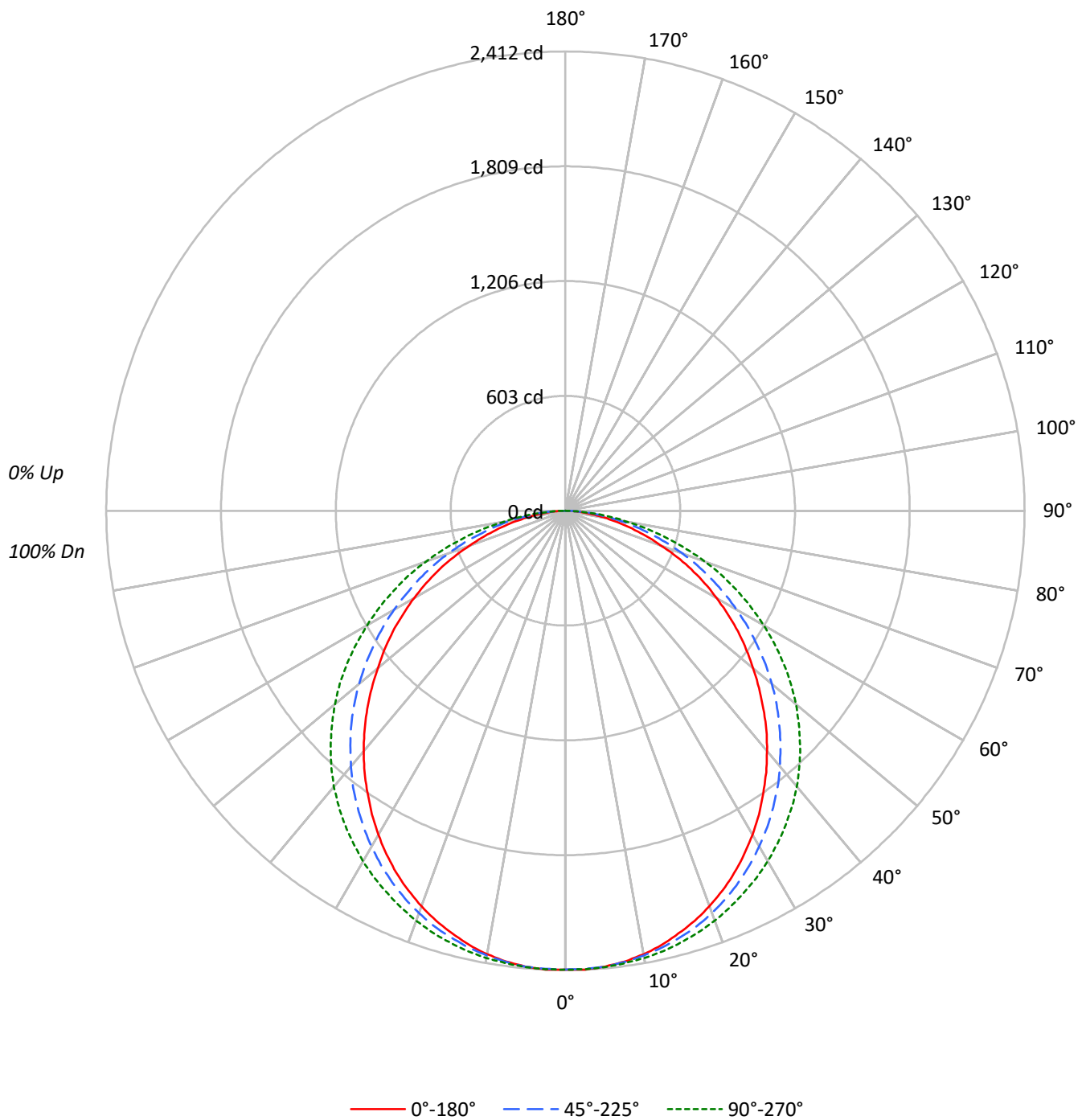
Lumens per Lamp: N/A
Luminaire Lumens: 6876.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.6
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	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°	3243	3243	3243
5°	3234	3221	3226
10°	3208	3191	3212
15°	3166	3158	3199
20°	3119	3120	3185
25°	3057	3070	3166
30°	2981	3011	3152
35°	2890	2943	3130
40°	2796	2866	3105
45°	2687	2779	3063
50°	2564	2680	3010
55°	2450	2556	2934
60°	2301	2421	2828
65°	2130	2262	2687
70°	1886	2059	2483
75°	1629	1774	2181
80°	1289	1442	1706
85°	889	893	1025

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	3.3
10°-20°	655.6	9.5
20°-30°	993.7	14.5
30°-40°	1195.4	17.4
40°-50°	1234.1	17.9
50°-60°	1108.9	16.1
60°-70°	844.3	12.3
70°-80°	484.8	7.1
80°-90°	130.8	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°	1877.8	27.3
0°-40°	3073.2	44.7
0°-60°	5416.2	78.8
0°-90°	6876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2410	2410	2410	2410	2410	
5°	2403	2406	2403	2401	2406	228
15°	2298	2310	2321	2336	2348	648
25°	2099	2120	2153	2198	2216	966
35°	1811	1842	1903	1985	2017	1133
45°	1471	1505	1590	1699	1744	1135
55°	1107	1136	1227	1346	1400	987
65°	729	762	845	944	995	721
75°	362	396	454	519	550	384
85°	85	98	116	123	130	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2410.1	2410.1	2410.1	2410.1	2410.1
2.5°	2412.4	2412.4	2407.9	2405.7	2410.1
5°	2403.4	2405.7	2403.4	2401.2	2405.7
7.5°	2387.8	2390.0	2390.0	2392.3	2396.7
10°	2365.4	2369.9	2372.1	2378.8	2385.5
12.5°	2336.4	2340.8	2349.8	2361.0	2369.9
15°	2298.4	2309.5	2320.7	2336.4	2347.5
17.5°	2258.1	2271.5	2289.4	2309.5	2322.9
20°	2211.2	2226.8	2249.2	2276.0	2291.6
22.5°	2157.5	2177.6	2204.5	2238.0	2255.9
25°	2099.4	2119.5	2153.0	2197.7	2215.6
27.5°	2034.5	2056.9	2097.1	2148.6	2173.2
30°	1965.2	1989.8	2036.8	2099.4	2126.2
32.5°	1891.4	1918.3	1971.9	2043.5	2072.5
35°	1811.0	1842.3	1902.6	1985.3	2016.6
37.5°	1732.7	1764.0	1831.1	1920.5	1956.3
40°	1647.8	1681.3	1752.8	1851.2	1891.4
42.5°	1562.8	1591.9	1672.3	1777.4	1819.9
45°	1471.1	1504.7	1589.6	1699.2	1743.9
47.5°	1379.5	1415.2	1504.7	1616.4	1663.4
50°	1285.6	1323.6	1415.2	1529.3	1580.7
52.5°	1198.4	1229.7	1323.6	1439.8	1493.5
55°	1106.7	1135.8	1227.4	1345.9	1399.6
57.5°	1010.6	1044.1	1135.8	1247.6	1301.2
60°	916.7	950.2	1037.4	1149.2	1202.8
62.5°	825.0	856.3	941.3	1048.6	1102.2
65°	728.9	762.4	845.1	943.5	994.9
67.5°	635.0	670.7	749.0	838.4	892.1
70°	534.3	574.6	650.6	733.3	775.8
72.5°	444.9	482.9	552.2	626.0	666.3
75°	362.2	395.7	453.9	518.7	550.0
77.5°	279.5	315.2	366.7	415.9	440.4
80°	205.7	239.2	279.5	313.0	324.2
82.5°	140.9	165.4	194.5	212.4	228.0
85°	85.0	98.4	116.3	123.0	129.7
87.5°	35.8	40.2	47.0	44.7	47.0
90°	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	14.69	16.34	15.06	16.65	16.96	16.16	17.80	16.52	18.12	18.43
	3H	16.26	17.75	16.64	18.07	18.43	18.06	19.55	18.44	19.87	20.23
	4H	16.78	18.18	17.18	18.53	18.90	18.76	20.16	19.16	20.51	20.88
	6H	17.11	18.41	17.52	18.77	19.16	19.26	20.55	19.67	20.92	21.31
	8H	17.19	18.43	17.61	18.82	19.22	19.40	20.64	19.82	21.03	21.43
	12H	17.23	18.42	17.66	18.80	19.23	19.48	20.67	19.91	21.05	21.48
4H	2H	15.45	16.85	15.84	17.19	17.57	16.62	18.02	17.01	18.36	18.74
	3H	17.21	18.39	17.62	18.79	19.18	18.73	19.90	19.14	20.30	20.70
	4H	17.84	18.90	18.27	19.31	19.75	19.56	20.63	19.99	21.04	21.48
	6H	18.27	19.20	18.72	19.64	20.10	20.19	21.12	20.64	21.56	22.01
	8H	18.39	19.26	18.84	19.70	20.16	20.38	21.25	20.83	21.69	22.15
	12H	18.45	19.24	18.93	19.71	20.18	20.49	21.27	20.97	21.75	22.22
8H	4H	18.22	19.09	18.68	19.53	20.00	19.76	20.63	20.22	21.07	21.54
	6H	18.76	19.48	19.25	19.97	20.44	20.48	21.21	20.98	21.69	22.17
	8H	18.93	19.57	19.43	20.08	20.57	20.73	21.38	21.24	21.88	22.37
	12H	19.04	19.61	19.54	20.10	20.66	20.90	21.48	21.41	21.97	22.53
12H	4H	18.27	19.05	18.75	19.53	20.00	19.77	20.55	20.25	21.02	21.49
	6H	18.83	19.48	19.34	19.99	20.47	20.50	21.15	21.01	21.66	22.14
	8H	19.05	19.62	19.55	20.11	20.67	20.79	21.37	21.30	21.86	22.42

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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