

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: P572211

Luminaire Tested: 24ID-75-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572211
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-L850-DBD
Description: 7500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

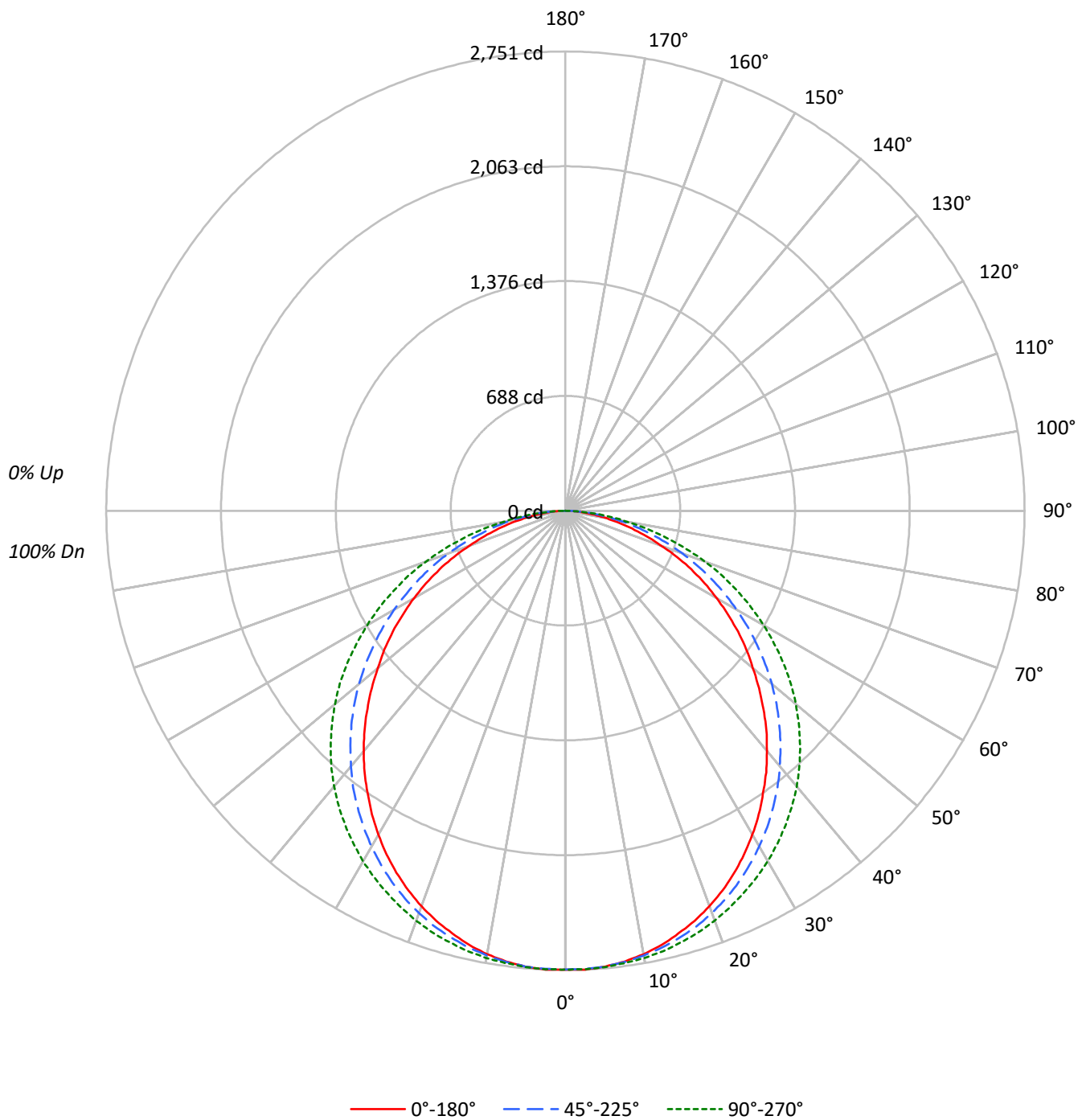
Lumens per Lamp: N/A
Luminaire Lumens: 7841.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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

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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3698	3698	3698
5°	3688	3673	3678
10°	3658	3639	3663
15°	3610	3601	3647
20°	3556	3558	3632
25°	3486	3501	3611
30°	3400	3433	3594
35°	3296	3356	3569
40°	3189	3268	3541
45°	3064	3169	3493
50°	2923	3056	3432
55°	2794	2915	3346
60°	2624	2761	3225
65°	2429	2579	3064
70°	2151	2348	2832
75°	1858	2023	2487
80°	1470	1645	1945
85°	1013	1018	1169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	3.3
10°-20°	747.6	9.5
20°-30°	1133.2	14.5
30°-40°	1363.2	17.4
40°-50°	1407.3	17.9
50°-60°	1264.5	16.1
60°-70°	962.8	12.3
70°-80°	552.8	7.1
80°-90°	149.1	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°	2141.4	27.3
0°-40°	3504.5	44.7
0°-60°	6176.3	78.8
0°-90°	7841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2748	2748	2748	2748	2748	
5°	2741	2743	2741	2738	2743	260
15°	2621	2634	2646	2664	2677	739
25°	2394	2417	2455	2506	2527	1102
35°	2065	2101	2170	2264	2300	1292
45°	1678	1716	1813	1938	1989	1294
55°	1262	1295	1400	1535	1596	1126
65°	831	869	964	1076	1134	822
75°	413	451	518	592	627	438
85°	97	112	133	140	148	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2748.4	2748.4	2748.4	2748.4	2748.4
2.5°	2750.9	2750.9	2745.8	2743.3	2748.4
5°	2740.7	2743.3	2740.7	2738.2	2743.3
7.5°	2722.9	2725.4	2725.4	2728.0	2733.1
10°	2697.4	2702.5	2705.0	2712.7	2720.3
12.5°	2664.3	2669.4	2679.6	2692.3	2702.5
15°	2620.9	2633.7	2646.4	2664.3	2677.0
17.5°	2575.0	2590.3	2610.7	2633.7	2649.0
20°	2521.5	2539.3	2564.8	2595.4	2613.3
22.5°	2460.3	2483.2	2513.8	2552.1	2572.5
25°	2394.0	2417.0	2455.2	2506.2	2526.6
27.5°	2320.1	2345.6	2391.5	2450.1	2478.1
30°	2241.0	2269.1	2322.6	2394.0	2424.6
32.5°	2156.9	2187.5	2248.7	2330.3	2363.4
35°	2065.1	2100.8	2169.6	2264.0	2299.7
37.5°	1975.9	2011.6	2088.1	2190.0	2230.8
40°	1879.0	1917.2	1998.8	2111.0	2156.9
42.5°	1782.1	1815.3	1907.0	2026.9	2075.3
45°	1677.6	1715.8	1812.7	1937.6	1988.6
47.5°	1573.1	1613.8	1715.8	1843.3	1896.8
50°	1466.0	1509.3	1613.8	1743.9	1802.5
52.5°	1366.5	1402.2	1509.3	1641.9	1703.1
55°	1262.0	1295.2	1399.7	1534.8	1596.0
57.5°	1152.4	1190.6	1295.2	1422.6	1483.8
60°	1045.3	1083.5	1183.0	1310.5	1371.6
62.5°	940.8	976.5	1073.4	1195.7	1256.9
65°	831.1	869.4	963.7	1075.9	1134.5
67.5°	724.1	764.9	854.1	956.1	1017.3
70°	609.3	655.2	741.9	836.2	884.7
72.5°	507.4	550.7	629.7	713.9	759.8
75°	413.0	451.3	517.6	591.5	627.2
77.5°	318.7	359.5	418.1	474.2	502.3
80°	234.6	272.8	318.7	356.9	369.7
82.5°	160.6	188.7	221.8	242.2	260.1
85°	96.9	112.2	132.6	140.2	147.9
87.5°	40.8	45.9	53.5	51.0	53.5
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	15.15	16.79	15.51	17.11	17.42	16.62	18.26	16.98	18.57	18.89
	3H	16.72	18.20	17.09	18.53	18.89	18.52	20.00	18.89	20.33	20.69
	4H	17.23	18.63	17.63	18.98	19.36	19.22	20.62	19.62	20.97	21.34
	6H	17.56	18.86	17.97	19.23	19.62	19.71	21.01	20.12	21.37	21.77
	8H	17.65	18.89	18.07	19.28	19.67	19.85	21.10	20.28	21.48	21.88
	12H	17.69	18.88	18.12	19.26	19.69	19.93	21.12	20.36	21.50	21.93
4H	2H	15.90	17.30	16.30	17.65	18.02	17.07	18.47	17.47	18.82	19.19
	3H	17.67	18.84	18.08	19.24	19.64	19.19	20.36	19.59	20.76	21.16
	4H	18.29	19.36	18.72	19.77	20.21	20.02	21.08	20.45	21.50	21.93
	6H	18.73	19.66	19.18	20.10	20.55	20.64	21.57	21.10	22.01	22.47
	8H	18.84	19.71	19.30	20.15	20.62	20.83	21.70	21.29	22.14	22.61
	12H	18.91	19.69	19.39	20.17	20.64	20.95	21.73	21.43	22.21	22.67
8H	4H	18.67	19.55	19.13	19.99	20.45	20.21	21.09	20.67	21.53	21.99
	6H	19.21	19.94	19.71	20.43	20.90	20.94	21.66	21.43	22.15	22.63
	8H	19.38	20.03	19.89	20.54	21.02	21.19	21.83	21.69	22.34	22.83
	12H	19.49	20.07	20.00	20.56	21.12	21.36	21.93	21.86	22.42	22.98
12H	4H	18.72	19.51	19.20	19.98	20.45	20.22	21.01	20.70	21.48	21.95
	6H	19.29	19.94	19.79	20.44	20.93	20.95	21.61	21.46	22.11	22.60
	8H	19.51	20.08	20.01	20.57	21.13	21.25	21.82	21.75	22.31	22.87