

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: P572051

Luminaire Tested: 22ID-70-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-70-L850-DBR
Description: 7000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7520.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

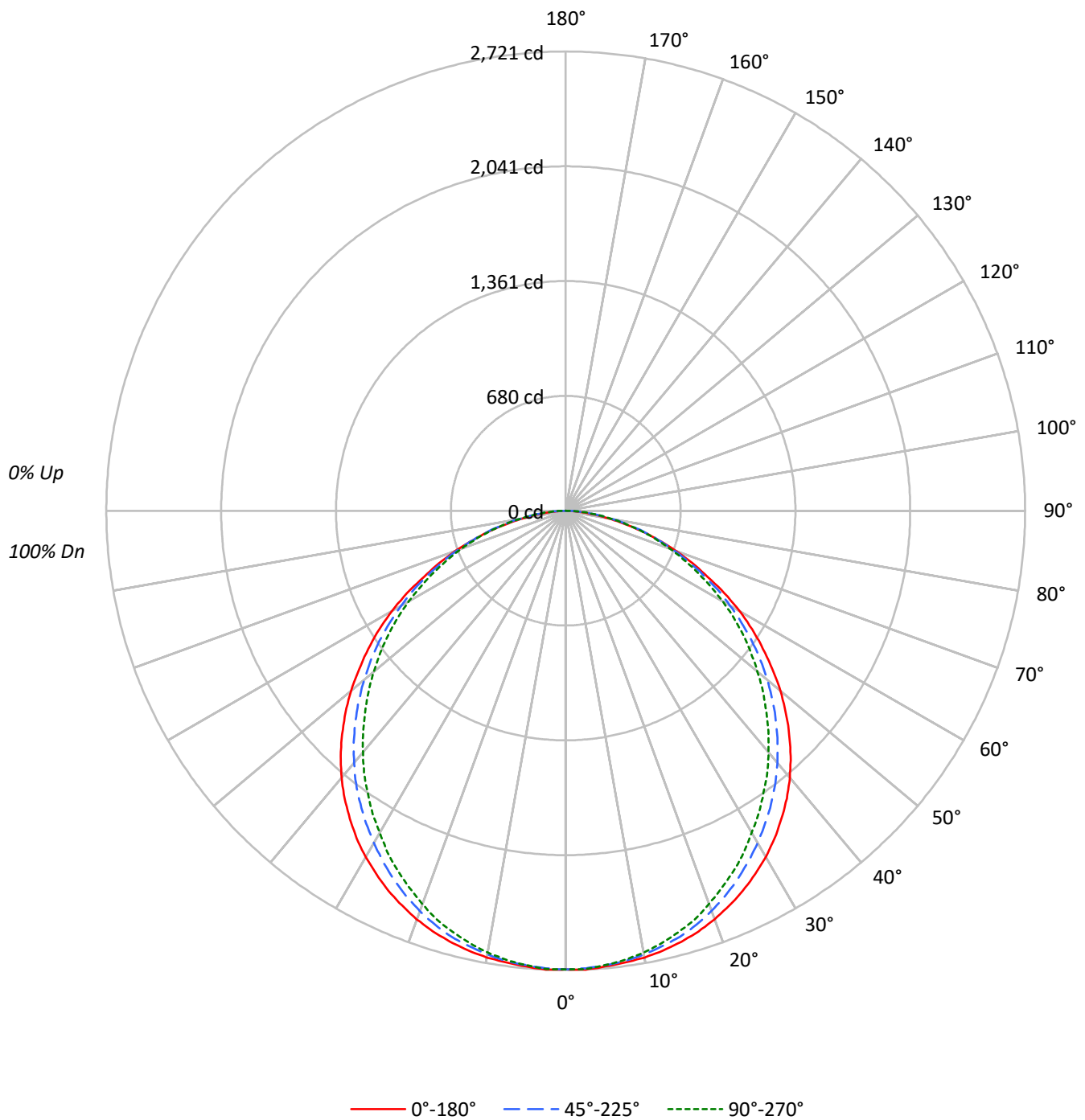
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P572051

CATALOG NUMBER: 22ID-70-L850-DBR

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	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7313	7313	7313
5°	7321	7301	7301
10°	7345	7294	7264
15°	7365	7282	7199
20°	7379	7231	7103
25°	7376	7156	6990
30°	7362	7062	6843
35°	7320	6967	6711
40°	7254	6851	6564
45°	7125	6702	6392
50°	6954	6519	6208
55°	6697	6314	6018
60°	6405	6046	5767
65°	5902	5713	5454
70°	5426	5338	5163
75°	4780	4934	4780
80°	3907	4310	4310
85°	2405	3433	3433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7125 cd/sqm

TEST NUMBER: P572051

CATALOG NUMBER: 22ID-70-L850-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	3.4
10°-20°	737.1	9.8
20°-30°	1112.3	14.8
30°-40°	1330.9	17.7
40°-50°	1362.9	18.1
50°-60°	1204.9	16.0
60°-70°	890.1	11.8
70°-80°	497.5	6.6
80°-90°	127.1	1.7
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°	2106.5	28.0
0°-40°	3437.4	45.7
0°-60°	6005.3	79.9
0°-90°	7520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2710	2707	2703	2699	2703	258
15°	2644	2632	2614	2592	2584	747
25°	2484	2462	2410	2369	2354	1145
35°	2228	2195	2121	2061	2043	1394
45°	1872	1835	1761	1698	1680	1443
55°	1427	1402	1346	1298	1283	1275
65°	927	927	897	868	856	925
75°	460	478	475	467	460	490
85°	78	100	111	115	111	106
90°	0	0	0	0	0	

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CATALOG NUMBER: 22ID-70-L850-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2717.7	2717.7	2717.7	2717.7	2717.7
2.5°	2721.4	2714.0	2714.0	2714.0	2717.7
5°	2710.3	2706.6	2702.9	2699.2	2702.9
7.5°	2699.2	2695.4	2691.7	2680.6	2684.3
10°	2688.0	2680.6	2669.5	2658.4	2658.4
12.5°	2669.5	2658.4	2643.5	2628.7	2625.0
15°	2643.5	2632.4	2613.9	2591.6	2584.2
17.5°	2613.9	2599.0	2573.1	2547.1	2539.7
20°	2576.8	2562.0	2524.9	2491.5	2480.4
22.5°	2532.3	2513.8	2469.3	2432.2	2417.4
25°	2484.1	2461.9	2410.0	2369.2	2354.3
27.5°	2428.5	2402.5	2343.2	2298.7	2283.9
30°	2369.2	2339.5	2272.8	2224.6	2202.3
32.5°	2302.4	2269.1	2198.6	2143.0	2128.2
35°	2228.3	2194.9	2120.8	2061.4	2042.9
37.5°	2150.4	2113.3	2039.2	1976.2	1961.3
40°	2065.1	2028.1	1950.2	1883.5	1868.6
42.5°	1972.5	1931.7	1857.5	1794.5	1776.0
45°	1872.3	1835.3	1761.1	1698.1	1679.6
47.5°	1768.5	1735.2	1661.0	1601.7	1583.2
50°	1661.0	1627.6	1557.2	1497.9	1483.0
52.5°	1542.4	1516.4	1453.4	1394.1	1382.9
55°	1427.4	1401.5	1345.9	1297.7	1282.8
57.5°	1308.8	1282.8	1234.6	1186.4	1179.0
60°	1190.1	1167.9	1123.4	1086.3	1071.5
62.5°	1060.4	1053.0	1015.9	975.1	964.0
65°	926.9	926.9	897.2	867.6	856.5
67.5°	812.0	808.3	786.0	767.5	756.4
70°	689.6	697.0	678.5	660.0	656.2
72.5°	574.7	582.1	574.7	563.6	556.1
75°	459.7	478.3	474.6	467.2	459.7
77.5°	352.2	374.5	374.5	370.8	367.1
80°	252.1	274.4	278.1	278.1	278.1
82.5°	159.4	181.7	192.8	192.8	192.8
85°	77.9	100.1	111.2	114.9	111.2
87.5°	26.0	37.1	40.8	44.5	44.5
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	18.78	20.41	19.14	20.72	21.04	18.21	19.83	18.57	20.15	20.46
	3H	20.45	21.92	20.83	22.25	22.61	19.95	21.42	20.33	21.75	22.11
	4H	21.04	22.42	21.44	22.77	23.15	20.60	21.99	21.00	22.34	22.71
	6H	21.43	22.71	21.84	23.07	23.46	21.09	22.37	21.50	22.74	23.13
	8H	21.52	22.75	21.95	23.14	23.54	21.24	22.47	21.67	22.86	23.25
	12H	21.56	22.74	21.99	23.12	23.55	21.34	22.51	21.77	22.89	23.32
4H	2H	19.33	20.71	19.73	21.06	21.44	18.87	20.26	19.27	20.61	20.98
	3H	21.23	22.39	21.64	22.79	23.19	20.83	21.99	21.24	22.39	22.79
	4H	21.96	23.01	22.39	23.42	23.85	21.61	22.66	22.04	23.07	23.51
	6H	22.47	23.39	22.93	23.83	24.28	22.22	23.13	22.67	23.57	24.03
	8H	22.61	23.47	23.07	23.91	24.37	22.42	23.27	22.88	23.71	24.18
	12H	22.68	23.45	23.16	23.93	24.40	22.55	23.32	23.03	23.80	24.26
8H	4H	22.24	23.09	22.70	23.54	24.00	21.93	22.79	22.39	23.23	23.70
	6H	22.87	23.58	23.36	24.07	24.54	22.66	23.37	23.15	23.86	24.33
	8H	23.07	23.71	23.58	24.21	24.70	22.92	23.56	23.43	24.07	24.55
	12H	23.19	23.76	23.70	24.25	24.81	23.12	23.69	23.63	24.18	24.74
12H	4H	22.26	23.03	22.74	23.51	23.98	21.96	22.73	22.44	23.21	23.68
	6H	22.91	23.55	23.42	24.06	24.55	22.71	23.35	23.22	23.85	24.34
	8H	23.17	23.73	23.67	24.22	24.78	23.03	23.60	23.54	24.09	24.65

END OF REPORT