

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: P572003

Luminaire Tested: 22ID-55-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572003
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-55-L850-DBR
Description: 5500 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: 5881.0 lumens
Efficiency: N/A
Efficacy: 128.1 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

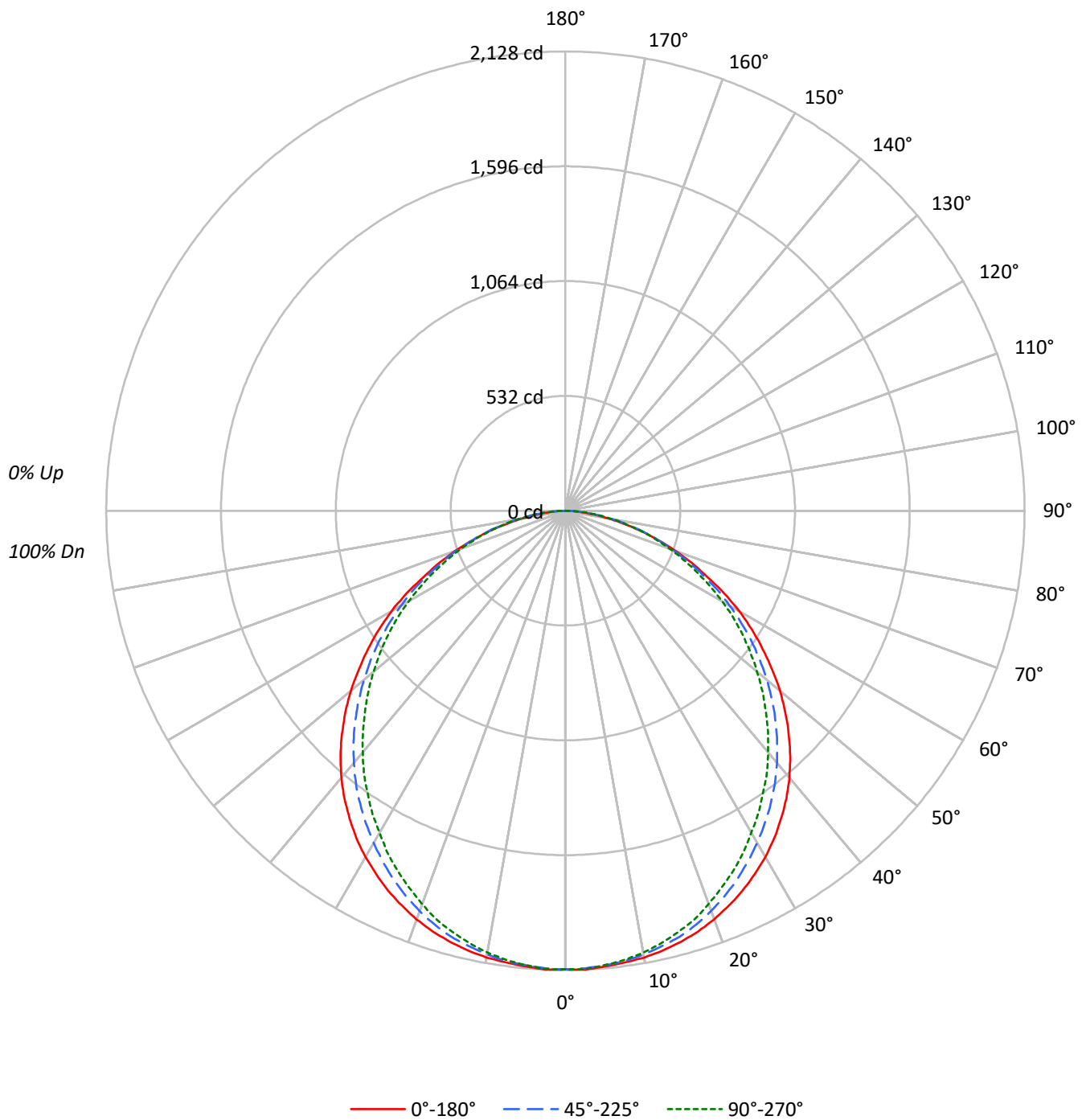
Input Watts (W): 45.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P572003

CATALOG NUMBER: 22ID-55-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°	5719	5719	5719
5°	5726	5710	5710
10°	5744	5705	5681
15°	5760	5695	5630
20°	5771	5655	5555
25°	5768	5596	5467
30°	5757	5523	5352
35°	5725	5448	5248
40°	5673	5358	5134
45°	5573	5241	4999
50°	5438	5098	4855
55°	5237	4938	4707
60°	5010	4729	4510
65°	4616	4468	4265
70°	4243	4175	4038
75°	3738	3858	3738
80°	3056	3371	3371
85°	1880	2686	2686

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5573 cd/sqm

TEST NUMBER: P572003

CATALOG NUMBER: 22ID-55-L850-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	3.4
10°-20°	576.4	9.8
20°-30°	869.9	14.8
30°-40°	1040.8	17.7
40°-50°	1065.9	18.1
50°-60°	942.3	16.0
60°-70°	696.1	11.8
70°-80°	389.0	6.6
80°-90°	99.4	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°	1647.4	28.0
0°-40°	2688.2	45.7
0°-60°	4696.5	79.9
0°-90°	5881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2125	2125	2125	2125	2125	
5°	2120	2117	2114	2111	2114	202
15°	2067	2059	2044	2027	2021	584
25°	1943	1925	1885	1853	1841	895
35°	1743	1716	1658	1612	1598	1090
45°	1464	1435	1377	1328	1314	1129
55°	1116	1096	1052	1015	1003	997
65°	725	725	702	678	670	723
75°	360	374	371	365	360	383
85°	61	78	87	90	87	83
90°	0	0	0	0	0	

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CATALOG NUMBER: 22ID-55-L850-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2125.4	2125.4	2125.4	2125.4	2125.4
2.5°	2128.3	2122.5	2122.5	2122.5	2125.4
5°	2119.6	2116.7	2113.8	2110.9	2113.8
7.5°	2110.9	2108.0	2105.1	2096.4	2099.3
10°	2102.2	2096.4	2087.7	2079.0	2079.0
12.5°	2087.7	2079.0	2067.4	2055.8	2052.9
15°	2067.4	2058.7	2044.2	2026.8	2021.0
17.5°	2044.2	2032.6	2012.3	1992.0	1986.2
20°	2015.2	2003.6	1974.6	1948.5	1939.8
22.5°	1980.4	1965.9	1931.1	1902.1	1890.5
25°	1942.7	1925.3	1884.7	1852.8	1841.2
27.5°	1899.2	1878.9	1832.5	1797.7	1786.1
30°	1852.8	1829.6	1777.4	1739.7	1722.3
32.5°	1800.6	1774.5	1719.4	1675.9	1664.3
35°	1742.6	1716.5	1658.5	1612.1	1597.6
37.5°	1681.7	1652.7	1594.7	1545.5	1533.9
40°	1615.0	1586.0	1525.2	1473.0	1461.4
42.5°	1542.6	1510.7	1452.7	1403.4	1388.9
45°	1464.3	1435.3	1377.3	1328.0	1313.5
47.5°	1383.1	1357.0	1299.0	1252.6	1238.1
50°	1299.0	1272.9	1217.8	1171.4	1159.8
52.5°	1206.2	1185.9	1136.6	1090.2	1081.5
55°	1116.3	1096.0	1052.5	1014.8	1003.2
57.5°	1023.5	1003.2	965.5	927.9	922.1
60°	930.8	913.4	878.6	849.6	838.0
62.5°	829.3	823.5	794.5	762.6	753.9
65°	724.9	724.9	701.7	678.5	669.8
67.5°	635.0	632.1	614.7	600.2	591.5
70°	539.3	545.1	530.6	516.1	513.2
72.5°	449.4	455.2	449.4	440.7	434.9
75°	359.5	374.0	371.1	365.3	359.5
77.5°	275.5	292.9	292.9	290.0	287.1
80°	197.2	214.6	217.5	217.5	217.5
82.5°	124.7	142.1	150.8	150.8	150.8
85°	60.9	78.3	87.0	89.9	87.0
87.5°	20.3	29.0	31.9	34.8	34.8
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	17.92	19.55	18.29	19.87	20.18	17.35	18.98	17.72	19.29	19.61
	3H	19.60	21.07	19.97	21.39	21.75	19.09	20.57	19.47	20.89	21.25
	4H	20.18	21.57	20.58	21.92	22.29	19.75	21.14	20.15	21.48	21.86
	6H	20.57	21.85	20.98	22.22	22.61	20.23	21.52	20.65	21.88	22.27
	8H	20.67	21.89	21.09	22.28	22.68	20.39	21.61	20.81	22.00	22.40
	12H	20.71	21.88	21.14	22.27	22.69	20.48	21.66	20.91	22.04	22.47
4H	2H	18.47	19.86	18.87	20.21	20.58	18.02	19.40	18.42	19.75	20.13
	3H	20.38	21.54	20.79	21.93	22.33	19.97	21.13	20.38	21.53	21.93
	4H	21.10	22.15	21.53	22.56	23.00	20.76	21.80	21.19	22.22	22.65
	6H	21.62	22.53	22.07	22.97	23.43	21.36	22.28	21.82	22.72	23.18
	8H	21.75	22.61	22.21	23.05	23.52	21.56	22.42	22.02	22.86	23.33
	12H	21.83	22.60	22.31	23.07	23.54	21.70	22.47	22.18	22.94	23.41
8H	4H	21.38	22.24	21.84	22.68	23.15	21.08	21.93	21.54	22.38	22.84
	6H	22.01	22.72	22.51	23.21	23.69	21.80	22.51	22.29	23.00	23.48
	8H	22.21	22.85	22.72	23.36	23.84	22.07	22.71	22.58	23.21	23.70
	12H	22.34	22.90	22.85	23.40	23.96	22.27	22.84	22.78	23.33	23.89
12H	4H	21.41	22.18	21.89	22.66	23.12	21.11	21.88	21.59	22.35	22.82
	6H	22.06	22.70	22.57	23.21	23.69	21.85	22.49	22.36	23.00	23.49
	8H	22.31	22.88	22.82	23.37	23.93	22.18	22.74	22.68	23.23	23.79

END OF REPORT