

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: P572083

Luminaire Tested: 22ID-80-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572083
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-80-L850-DBR
Description: 8000 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: 8461.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

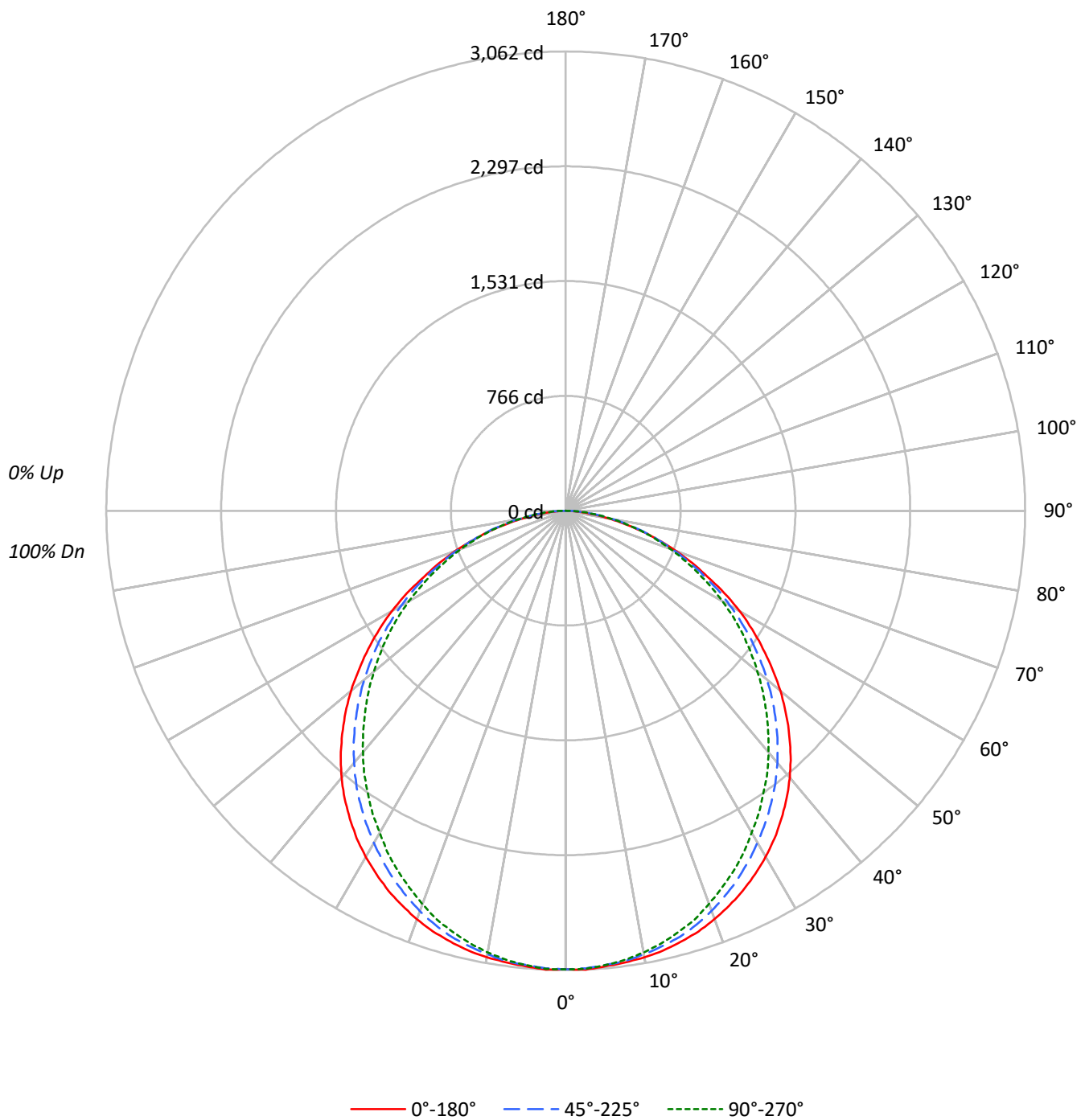
Input Watts (W): 70.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P572083

CATALOG NUMBER: 22ID-80-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°	8228	8228	8228
5°	8237	8215	8215
10°	8264	8207	8173
15°	8286	8193	8100
20°	8302	8135	7992
25°	8299	8051	7865
30°	8283	7946	7700
35°	8236	7839	7551
40°	8162	7708	7386
45°	8017	7541	7191
50°	7824	7335	6985
55°	7535	7104	6772
60°	7207	6803	6488
65°	6641	6428	6136
70°	6105	6006	5810
75°	5378	5552	5378
80°	4396	4849	4849
85°	2705	3863	3863

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8017 cd/sqm

TEST NUMBER: P572083

CATALOG NUMBER: 22ID-80-L850-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	3.4
10°-20°	829.3	9.8
20°-30°	1251.5	14.8
30°-40°	1497.5	17.7
40°-50°	1533.5	18.1
50°-60°	1355.7	16.0
60°-70°	1001.5	11.8
70°-80°	559.7	6.6
80°-90°	143.0	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°	2370.1	28.0
0°-40°	3867.6	45.7
0°-60°	6756.8	79.9
0°-90°	8461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3058	3058	3058	3058	3058	
5°	3049	3045	3041	3037	3041	290
15°	2974	2962	2941	2916	2908	840
25°	2795	2770	2712	2666	2649	1288
35°	2507	2470	2386	2319	2298	1568
45°	2107	2065	1982	1911	1890	1624
55°	1606	1577	1514	1460	1443	1435
65°	1043	1043	1010	976	964	1040
75°	517	538	534	526	517	551
85°	88	113	125	129	125	119
90°	0	0	0	0	0	

TEST NUMBER: P572083

CATALOG NUMBER: 22ID-80-L850-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3057.8	3057.8	3057.8	3057.8	3057.8
2.5°	3061.9	3053.6	3053.6	3053.6	3057.8
5°	3049.4	3045.2	3041.1	3036.9	3041.1
7.5°	3036.9	3032.7	3028.6	3016.0	3020.2
10°	3024.4	3016.0	3003.5	2991.0	2991.0
12.5°	3003.5	2991.0	2974.3	2957.6	2953.5
15°	2974.3	2961.8	2941.0	2915.9	2907.6
17.5°	2941.0	2924.3	2895.1	2865.9	2857.5
20°	2899.2	2882.6	2840.8	2803.3	2790.8
22.5°	2849.2	2828.3	2778.3	2736.5	2719.9
25°	2795.0	2769.9	2711.5	2665.6	2648.9
27.5°	2732.4	2703.2	2636.4	2586.4	2569.7
30°	2665.6	2632.3	2557.2	2502.9	2477.9
32.5°	2590.5	2553.0	2473.7	2411.2	2394.5
35°	2507.1	2469.6	2386.1	2319.4	2298.5
37.5°	2419.5	2377.8	2294.4	2223.4	2206.8
40°	2323.6	2281.8	2194.2	2119.2	2102.5
42.5°	2219.3	2173.4	2090.0	2019.0	1998.2
45°	2106.6	2064.9	1981.5	1910.6	1889.7
47.5°	1989.8	1952.3	1868.9	1802.1	1781.3
50°	1868.9	1831.3	1752.1	1685.3	1668.6
52.5°	1735.4	1706.2	1635.3	1568.5	1556.0
55°	1606.1	1576.9	1514.3	1460.0	1443.4
57.5°	1472.6	1443.4	1389.1	1334.9	1326.6
60°	1339.1	1314.0	1264.0	1222.3	1205.6
62.5°	1193.1	1184.7	1143.0	1097.1	1084.6
65°	1042.9	1042.9	1009.5	976.1	963.6
67.5°	913.6	909.4	884.4	863.5	851.0
70°	775.9	784.3	763.4	742.5	738.4
72.5°	646.6	654.9	646.6	634.1	625.7
75°	517.3	538.1	534.0	525.6	517.3
77.5°	396.3	421.3	421.3	417.2	413.0
80°	283.7	308.7	312.9	312.9	312.9
82.5°	179.4	204.4	216.9	216.9	216.9
85°	87.6	112.6	125.1	129.3	125.1
87.5°	29.2	41.7	45.9	50.1	50.1
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	19.19	20.82	19.55	21.13	21.45	18.62	20.24	18.98	20.56	20.87
	3H	20.86	22.33	21.24	22.66	23.02	20.36	21.83	20.73	22.16	22.52
	4H	21.45	22.83	21.85	23.18	23.56	21.01	22.40	21.41	22.75	23.12
	6H	21.84	23.12	22.25	23.48	23.87	21.50	22.78	21.91	23.15	23.54
	8H	21.93	23.16	22.36	23.55	23.95	21.65	22.88	22.08	23.27	23.66
	12H	21.97	23.15	22.40	23.53	23.96	21.75	22.92	22.17	23.30	23.73
4H	2H	19.74	21.12	20.14	21.47	21.85	19.28	20.67	19.68	21.02	21.39
	3H	21.64	22.80	22.05	23.20	23.60	21.24	22.40	21.65	22.79	23.19
	4H	22.37	23.41	22.80	23.83	24.26	22.02	23.07	22.45	23.48	23.92
	6H	22.88	23.80	23.34	24.24	24.69	22.63	23.54	23.08	23.98	24.44
	8H	23.02	23.88	23.48	24.32	24.78	22.82	23.68	23.29	24.12	24.59
	12H	23.09	23.86	23.57	24.34	24.81	22.96	23.73	23.44	24.20	24.67
8H	4H	22.65	23.50	23.11	23.95	24.41	22.34	23.20	22.80	23.64	24.11
	6H	23.28	23.99	23.77	24.48	24.95	23.06	23.78	23.56	24.26	24.74
	8H	23.48	24.12	23.99	24.62	25.11	23.33	23.97	23.84	24.48	24.96
	12H	23.60	24.17	24.11	24.66	25.22	23.53	24.10	24.04	24.59	25.15
12H	4H	22.67	23.44	23.15	23.92	24.39	22.37	23.14	22.85	23.62	24.09
	6H	23.32	23.96	23.83	24.47	24.96	23.12	23.76	23.63	24.26	24.75
	8H	23.58	24.14	24.08	24.63	25.19	23.44	24.00	23.95	24.50	25.06