

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: P572075

Luminaire Tested: 22ID-80-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572075
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-L835-DBR
Description: 8000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7963.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

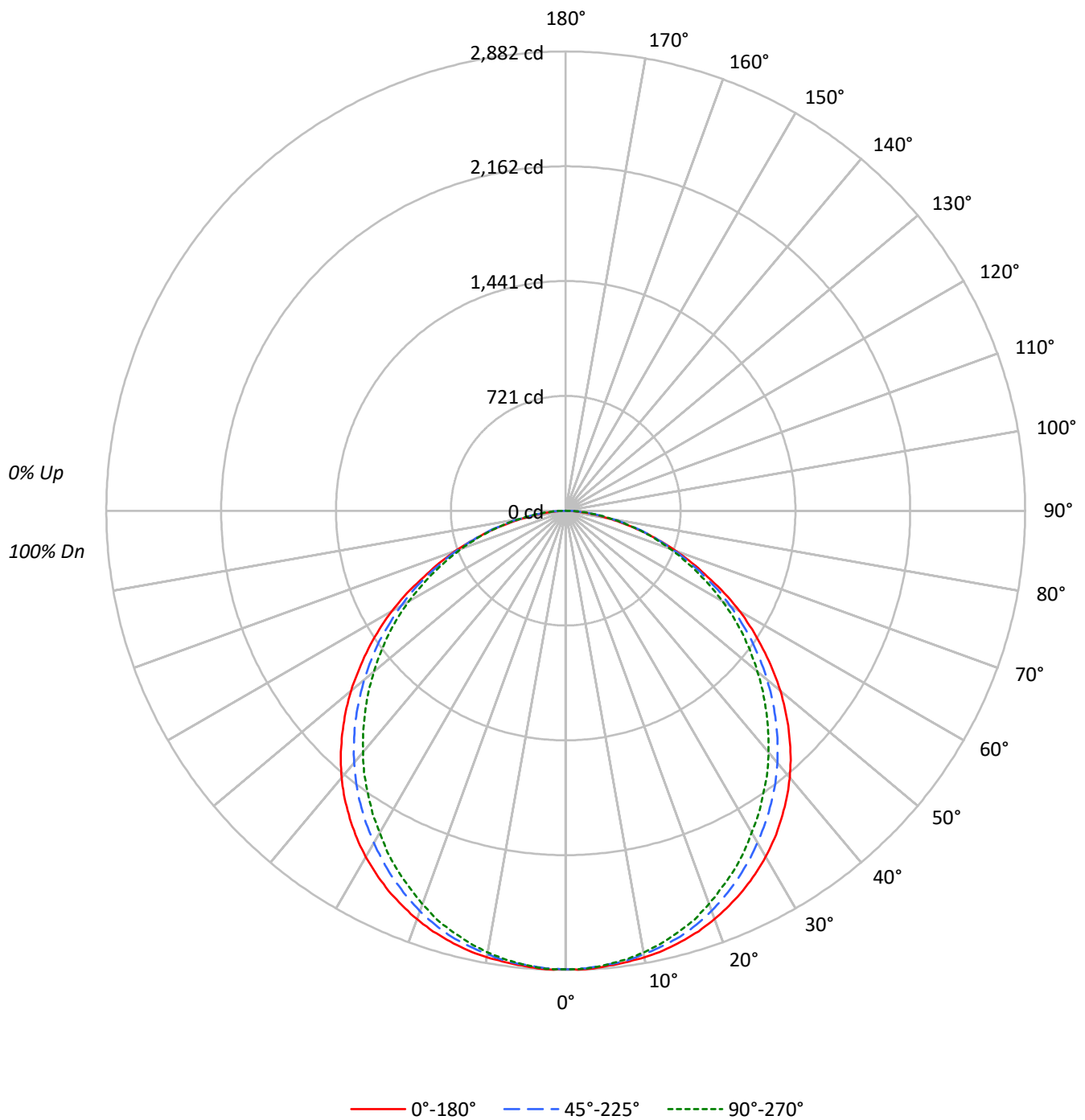
Input Watts (W): 70.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7744	7744	7744
5°	7752	7731	7731
10°	7778	7724	7692
15°	7799	7711	7623
20°	7814	7656	7521
25°	7810	7577	7402
30°	7795	7478	7246
35°	7751	7377	7106
40°	7682	7254	6951
45°	7545	7097	6768
50°	7363	6903	6574
55°	7091	6686	6373
60°	6783	6402	6106
65°	6250	6050	5775
70°	5745	5653	5467
75°	5061	5225	5061
80°	4138	4564	4564
85°	2544	3637	3637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	3.4
10°-20°	780.5	9.8
20°-30°	1177.9	14.8
30°-40°	1409.3	17.7
40°-50°	1443.2	18.1
50°-60°	1275.9	16.0
60°-70°	942.6	11.8
70°-80°	526.7	6.6
80°-90°	134.6	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°	2230.6	28.0
0°-40°	3639.9	45.7
0°-60°	6359.1	79.9
0°-90°	7963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2878	2878	2878	2878	2878	
5°	2870	2866	2862	2858	2862	273
15°	2799	2788	2768	2744	2736	791
25°	2630	2607	2552	2509	2493	1212
35°	2360	2324	2246	2183	2163	1476
45°	1983	1943	1865	1798	1778	1528
55°	1512	1484	1425	1374	1358	1350
65°	982	982	950	919	907	979
75°	487	506	502	495	487	518
85°	82	106	118	122	118	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2877.8	2877.8	2877.8	2877.8	2877.8
2.5°	2881.7	2873.9	2873.9	2873.9	2877.8
5°	2869.9	2866.0	2862.1	2858.2	2862.1
7.5°	2858.2	2854.2	2850.3	2838.5	2842.5
10°	2846.4	2838.5	2826.7	2815.0	2815.0
12.5°	2826.7	2815.0	2799.3	2783.6	2779.6
15°	2799.3	2787.5	2767.9	2744.3	2736.4
17.5°	2767.9	2752.2	2724.7	2697.2	2689.3
20°	2728.6	2712.9	2673.6	2638.3	2626.5
22.5°	2681.5	2661.9	2614.7	2575.5	2559.8
25°	2630.4	2606.9	2551.9	2508.7	2493.0
27.5°	2571.6	2544.1	2481.3	2434.1	2418.4
30°	2508.7	2477.3	2406.7	2355.6	2332.1
32.5°	2438.1	2402.7	2328.1	2269.3	2253.5
35°	2359.5	2324.2	2245.7	2182.9	2163.2
37.5°	2277.1	2237.8	2159.3	2092.6	2076.9
40°	2186.8	2147.5	2065.1	1994.4	1978.7
42.5°	2088.7	2045.5	1966.9	1900.2	1880.6
45°	1982.6	1943.4	1864.9	1798.1	1778.5
47.5°	1872.7	1837.4	1758.9	1696.0	1676.4
50°	1758.9	1723.5	1648.9	1586.1	1570.4
52.5°	1633.2	1605.7	1539.0	1476.2	1464.4
55°	1511.5	1484.0	1425.2	1374.1	1358.4
57.5°	1385.9	1358.4	1307.4	1256.3	1248.5
60°	1260.3	1236.7	1189.6	1150.3	1134.6
62.5°	1122.8	1115.0	1075.7	1032.5	1020.8
65°	981.5	981.5	950.1	918.7	906.9
67.5°	859.8	855.9	832.3	812.7	800.9
70°	730.2	738.1	718.5	698.8	694.9
72.5°	608.5	616.4	608.5	596.8	588.9
75°	486.8	506.5	502.5	494.7	486.8
77.5°	373.0	396.5	396.5	392.6	388.7
80°	267.0	290.5	294.5	294.5	294.5
82.5°	168.8	192.4	204.2	204.2	204.2
85°	82.4	106.0	117.8	121.7	117.8
87.5°	27.5	39.3	43.2	47.1	47.1
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	18.98	20.61	19.34	20.92	21.23	18.40	20.03	18.77	20.35	20.66
	3H	20.65	22.12	21.03	22.45	22.81	20.15	21.62	20.52	21.94	22.30
	4H	21.24	22.62	21.64	22.97	23.35	20.80	22.19	21.20	22.54	22.91
	6H	21.62	22.91	22.04	23.27	23.66	21.29	22.57	21.70	22.94	23.33
	8H	21.72	22.95	22.15	23.34	23.73	21.44	22.67	21.86	23.05	23.45
	12H	21.76	22.94	22.19	23.32	23.75	21.53	22.71	21.96	23.09	23.52
4H	2H	19.53	20.91	19.93	21.26	21.64	19.07	20.46	19.47	20.80	21.18
	3H	21.43	22.59	21.84	22.99	23.39	21.03	22.19	21.44	22.58	22.98
	4H	22.16	23.20	22.59	23.62	24.05	21.81	22.86	22.24	23.27	23.71
	6H	22.67	23.59	23.12	24.03	24.48	22.42	23.33	22.87	23.77	24.23
	8H	22.81	23.66	23.27	24.11	24.57	22.61	23.47	23.07	23.91	24.38
	12H	22.88	23.65	23.36	24.13	24.59	22.75	23.52	23.23	23.99	24.46
8H	4H	22.44	23.29	22.90	23.74	24.20	22.13	22.99	22.59	23.43	23.89
	6H	23.07	23.78	23.56	24.27	24.74	22.85	23.57	23.35	24.05	24.53
	8H	23.27	23.90	23.78	24.41	24.90	23.12	23.76	23.63	24.27	24.75
	12H	23.39	23.96	23.90	24.45	25.01	23.32	23.89	23.83	24.38	24.94
12H	4H	22.46	23.23	22.94	23.71	24.18	22.16	22.93	22.64	23.41	23.88
	6H	23.11	23.75	23.62	24.26	24.74	22.91	23.55	23.42	24.05	24.54
	8H	23.37	23.93	23.87	24.42	24.98	23.23	23.79	23.74	24.28	24.85

END OF REPORT