

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: P572215

Luminaire Tested: 24ID-80-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572215
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-80-L835-DBD
Description: 8000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

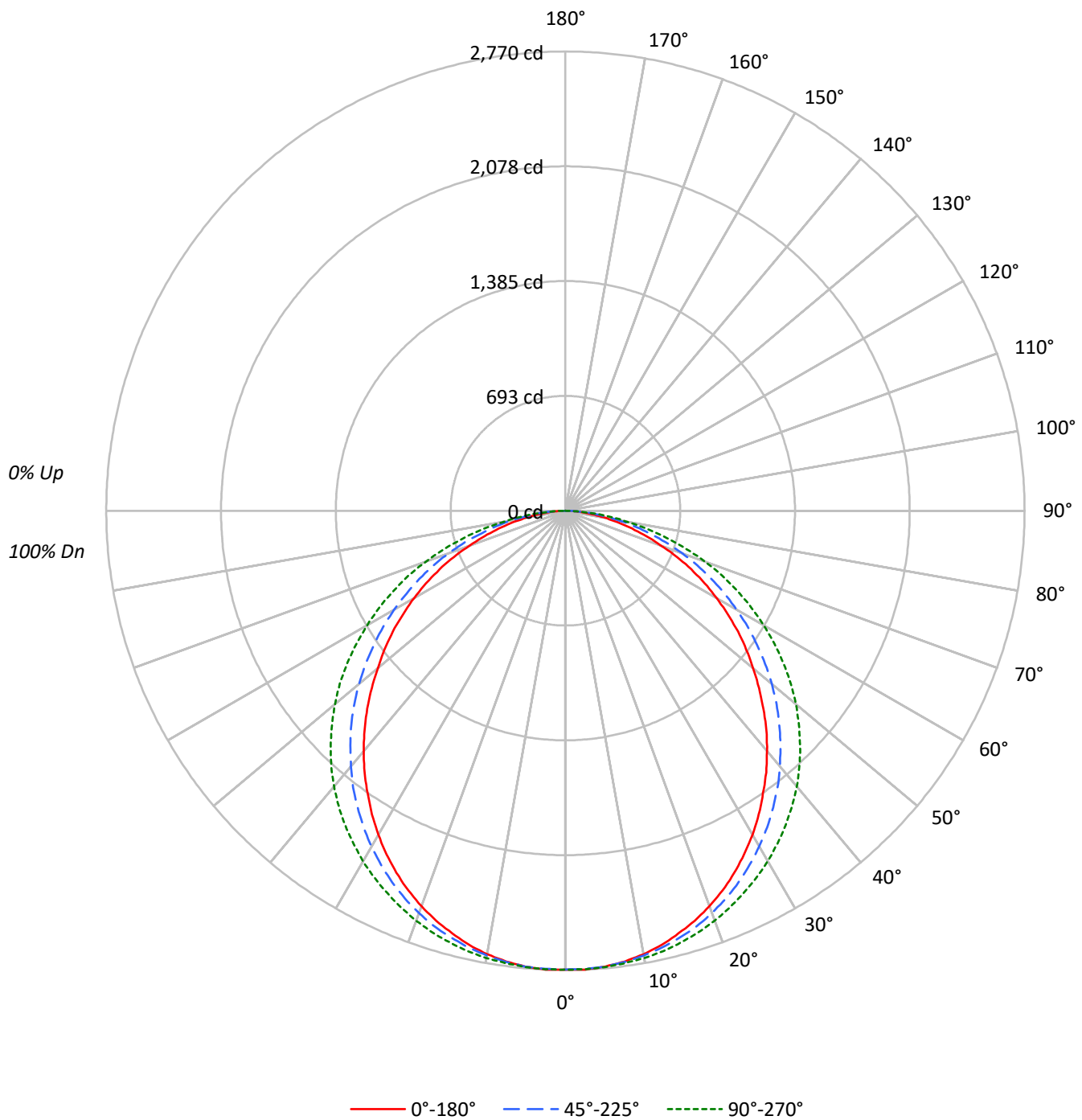
Lumens per Lamp: N/A
Luminaire Lumens: 7896.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77
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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91			93	91	88		84
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3724	3724	3724
5°	3714	3699	3704
10°	3684	3665	3688
15°	3636	3626	3673
20°	3581	3583	3657
25°	3511	3525	3636
30°	3424	3457	3619
35°	3319	3380	3594
40°	3211	3291	3566
45°	3086	3191	3517
50°	2944	3078	3456
55°	2814	2936	3369
60°	2642	2780	3248
65°	2446	2597	3086
70°	2166	2365	2852
75°	1871	2037	2504
80°	1480	1656	1959
85°	1021	1025	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	3.3
10°-20°	752.9	9.5
20°-30°	1141.1	14.5
30°-40°	1372.7	17.4
40°-50°	1417.1	17.9
50°-60°	1273.4	16.1
60°-70°	969.5	12.3
70°-80°	556.7	7.1
80°-90°	150.2	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°	2156.4	27.3
0°-40°	3529.1	44.7
0°-60°	6219.6	78.8
0°-90°	7896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2768	2768	2768	2768	2768	
5°	2760	2762	2760	2757	2762	262
15°	2639	2652	2665	2683	2696	745
25°	2411	2434	2472	2524	2544	1110
35°	2080	2116	2185	2280	2316	1302
45°	1689	1728	1825	1951	2003	1303
55°	1271	1304	1410	1546	1607	1134
65°	837	876	970	1083	1142	828
75°	416	454	521	596	632	441
85°	98	113	134	141	149	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2770.2	2770.2	2765.1	2762.5	2767.7
5°	2760.0	2762.5	2760.0	2757.4	2762.5
7.5°	2742.0	2744.6	2744.6	2747.1	2752.3
10°	2716.3	2721.5	2724.0	2731.7	2739.4
12.5°	2682.9	2688.1	2698.3	2711.2	2721.5
15°	2639.3	2652.1	2665.0	2682.9	2695.8
17.5°	2593.1	2608.5	2629.0	2652.1	2667.5
20°	2539.2	2557.1	2582.8	2613.6	2631.6
22.5°	2477.5	2500.7	2531.5	2570.0	2590.5
25°	2410.8	2433.9	2472.4	2523.8	2544.3
27.5°	2336.3	2362.0	2408.2	2467.3	2495.5
30°	2256.8	2285.0	2338.9	2410.8	2441.6
32.5°	2172.0	2202.8	2264.5	2346.6	2380.0
35°	2079.6	2115.5	2184.9	2279.9	2315.8
37.5°	1989.7	2025.7	2102.7	2205.4	2246.5
40°	1892.2	1930.7	2012.8	2125.8	2172.0
42.5°	1794.6	1828.0	1920.4	2041.1	2089.9
45°	1689.4	1727.9	1825.4	1951.2	2002.6
47.5°	1584.1	1625.2	1727.9	1856.2	1910.2
50°	1476.3	1519.9	1625.2	1756.1	1815.2
52.5°	1376.1	1412.1	1519.9	1653.4	1715.0
55°	1270.9	1304.2	1409.5	1545.6	1607.2
57.5°	1160.5	1199.0	1304.2	1432.6	1494.2
60°	1052.6	1091.1	1191.3	1319.6	1381.3
62.5°	947.4	983.3	1080.9	1204.1	1265.7
65°	837.0	875.5	970.5	1083.4	1142.5
67.5°	729.1	770.2	860.1	962.8	1024.4
70°	613.6	659.8	747.1	842.1	890.9
72.5°	510.9	554.6	634.2	718.9	765.1
75°	415.9	454.4	521.2	595.6	631.6
77.5°	320.9	362.0	421.1	477.5	505.8
80°	236.2	274.7	320.9	359.4	372.3
82.5°	161.7	190.0	223.4	243.9	261.9
85°	97.6	113.0	133.5	141.2	148.9
87.5°	41.1	46.2	53.9	51.3	53.9
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	15.17	16.82	15.54	17.13	17.44	16.64	18.28	17.00	18.60	18.91
	3H	16.74	18.23	17.12	18.55	18.91	18.54	20.03	18.92	20.35	20.71
	4H	17.26	18.66	17.66	19.01	19.38	19.24	20.64	19.64	20.99	21.37
	6H	17.59	18.89	18.00	19.25	19.64	19.74	21.03	20.15	21.40	21.79
	8H	17.67	18.91	18.09	19.30	19.70	19.88	21.12	20.30	21.51	21.91
	12H	17.71	18.90	18.14	19.28	19.71	19.96	21.15	20.39	21.53	21.96
4H	2H	15.93	17.33	16.32	17.67	18.05	17.10	18.50	17.49	18.84	19.22
	3H	17.69	18.87	18.10	19.27	19.67	19.21	20.39	19.62	20.78	21.18
	4H	18.32	19.38	18.75	19.79	20.23	20.04	21.11	20.48	21.52	21.96
	6H	18.75	19.68	19.20	20.12	20.58	20.67	21.60	21.12	22.04	22.49
	8H	18.87	19.74	19.33	20.18	20.64	20.86	21.73	21.32	22.17	22.63
	12H	18.93	19.72	19.41	20.19	20.66	20.97	21.76	21.45	22.23	22.70
8H	4H	18.70	19.57	19.16	20.01	20.48	20.24	21.11	20.70	21.55	22.02
	6H	19.24	19.96	19.73	20.45	20.92	20.96	21.69	21.46	22.17	22.65
	8H	19.41	20.06	19.91	20.56	21.05	21.21	21.86	21.72	22.36	22.85
	12H	19.52	20.09	20.02	20.58	21.14	21.38	21.96	21.89	22.45	23.01
12H	4H	18.75	19.53	19.23	20.01	20.48	20.25	21.03	20.73	21.50	21.97
	6H	19.31	19.96	19.82	20.47	20.95	20.98	21.63	21.49	22.14	22.62
	8H	19.53	20.10	20.04	20.59	21.15	21.27	21.85	21.78	22.34	22.90