

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: P572213

Luminaire Tested: 24ID-80-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572213
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-L830-DBD
Description: 8000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

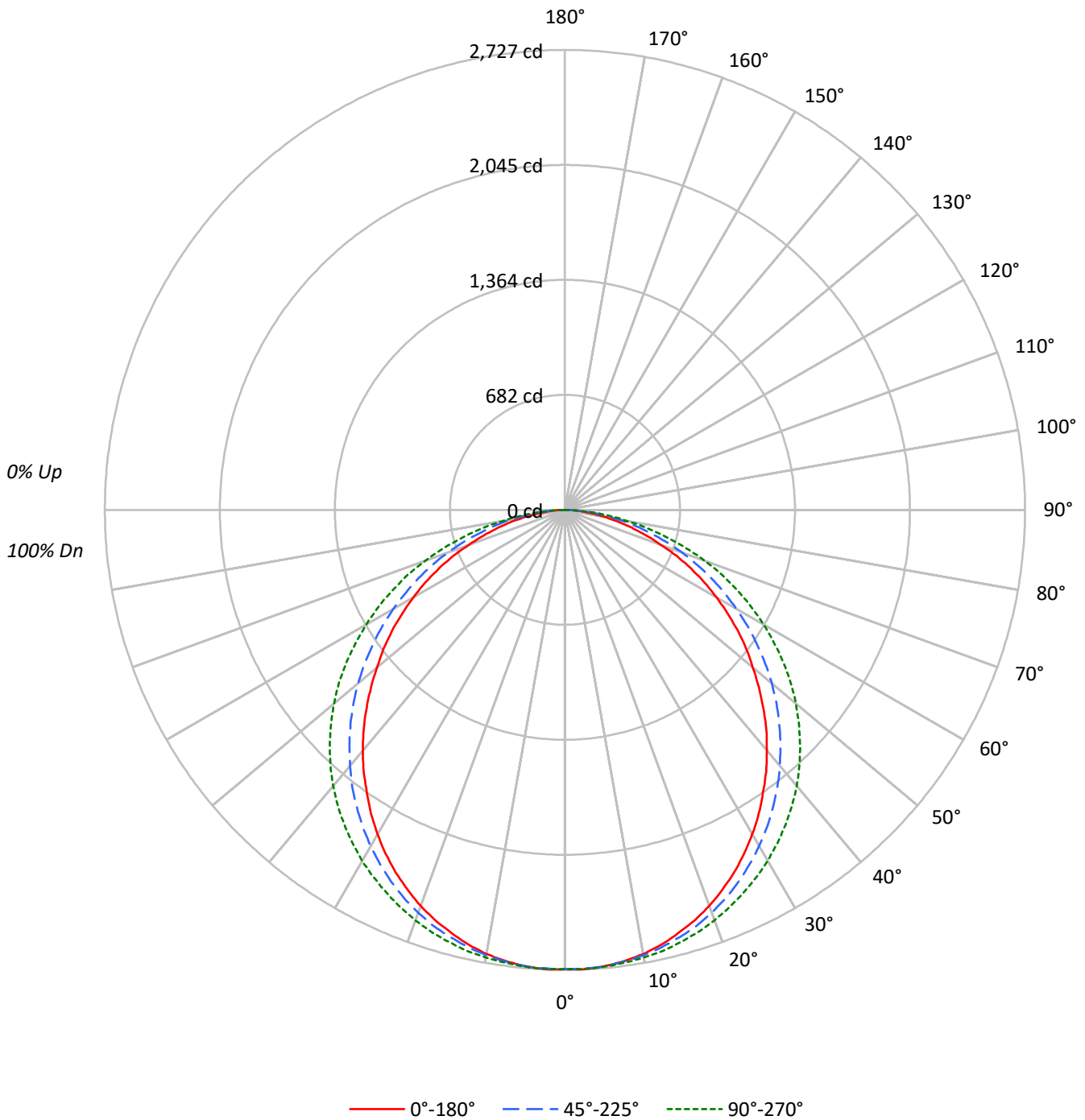
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7772.0 lumens
Efficiency: N/A
Efficacy: 100.9 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100				
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58				
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45	43				
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3665	3665	3665
5°	3656	3641	3646
10°	3626	3607	3631
15°	3579	3569	3615
20°	3525	3527	3600
25°	3456	3470	3579
30°	3370	3403	3562
35°	3267	3327	3538
40°	3161	3239	3510
45°	3037	3141	3462
50°	2898	3029	3402
55°	2770	2890	3316
60°	2600	2736	3197
65°	2408	2556	3037
70°	2132	2328	2807
75°	1842	2005	2465
80°	1457	1630	1928
85°	1004	1009	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3462 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	3.3
10°-20°	741.0	9.5
20°-30°	1123.2	14.5
30°-40°	1351.2	17.4
40°-50°	1394.9	17.9
50°-60°	1253.4	16.1
60°-70°	954.3	12.3
70°-80°	547.9	7.1
80°-90°	147.8	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°	2122.5	27.3
0°-40°	3473.7	44.7
0°-60°	6121.9	78.8
0°-90°	7772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2724	2724	2724	2724	2724	
5°	2717	2719	2717	2714	2719	258
15°	2598	2610	2623	2641	2653	733
25°	2373	2396	2434	2484	2504	1092
35°	2047	2082	2151	2244	2279	1281
45°	1663	1701	1797	1921	1971	1282
55°	1251	1284	1387	1521	1582	1116
65°	824	862	955	1066	1125	815
75°	409	447	513	586	622	434
85°	96	111	131	139	147	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2724.2	2724.2	2724.2	2724.2	2724.2
2.5°	2726.7	2726.7	2721.7	2719.1	2724.2
5°	2716.6	2719.1	2716.6	2714.1	2719.1
7.5°	2698.9	2701.5	2701.5	2704.0	2709.0
10°	2673.7	2678.7	2681.2	2688.8	2696.4
12.5°	2640.8	2645.9	2656.0	2668.6	2678.7
15°	2597.8	2610.5	2623.1	2640.8	2653.4
17.5°	2552.4	2567.5	2587.7	2610.5	2625.6
20°	2499.3	2517.0	2542.3	2572.6	2590.3
22.5°	2438.6	2461.4	2491.7	2529.6	2549.8
25°	2372.9	2395.7	2433.6	2484.1	2504.3
27.5°	2299.7	2324.9	2370.4	2428.5	2456.3
30°	2221.3	2249.1	2302.2	2372.9	2403.3
32.5°	2137.9	2168.2	2228.9	2309.8	2342.6
35°	2046.9	2082.3	2150.6	2244.1	2279.4
37.5°	1958.5	1993.9	2069.7	2170.8	2211.2
40°	1862.5	1900.4	1981.2	2092.4	2137.9
42.5°	1766.4	1799.3	1890.3	2009.0	2057.1
45°	1662.8	1700.7	1796.8	1920.6	1971.1
47.5°	1559.2	1599.6	1700.7	1827.1	1880.2
50°	1453.1	1496.0	1599.6	1728.5	1786.7
52.5°	1354.5	1389.9	1496.0	1627.4	1688.1
55°	1250.9	1283.8	1387.4	1521.3	1582.0
57.5°	1142.2	1180.2	1283.8	1410.1	1470.8
60°	1036.1	1074.0	1172.6	1298.9	1359.6
62.5°	932.5	967.9	1063.9	1185.2	1245.9
65°	823.8	861.7	955.2	1066.4	1124.6
67.5°	717.7	758.1	846.6	947.7	1008.3
70°	604.0	649.5	735.4	828.9	876.9
72.5°	502.9	545.9	624.2	707.6	753.1
75°	409.4	447.3	513.0	586.3	621.7
77.5°	315.9	356.3	414.4	470.0	497.8
80°	232.5	270.4	315.9	353.8	366.4
82.5°	159.2	187.0	219.9	240.1	257.8
85°	96.0	111.2	131.4	139.0	146.6
87.5°	40.4	45.5	53.1	50.5	53.1
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	15.12	16.76	15.48	17.08	17.39	16.59	18.23	16.95	18.54	18.86
	3H	16.69	18.17	17.06	18.50	18.86	18.48	19.97	18.86	20.30	20.66
	4H	17.20	18.60	17.60	18.95	19.33	19.19	20.59	19.59	20.93	21.31
	6H	17.53	18.83	17.94	19.20	19.59	19.68	20.98	20.09	21.34	21.73
	8H	17.62	18.86	18.04	19.25	19.64	19.82	21.06	20.25	21.45	21.85
	12H	17.66	18.85	18.09	19.23	19.66	19.90	21.09	20.33	21.47	21.90
4H	2H	15.87	17.27	16.27	17.62	17.99	17.04	18.44	17.44	18.79	19.16
	3H	17.64	18.81	18.05	19.21	19.61	19.16	20.33	19.56	20.73	21.13
	4H	18.26	19.33	18.69	19.74	20.17	19.99	21.05	20.42	21.47	21.90
	6H	18.70	19.63	19.15	20.07	20.52	20.61	21.54	21.07	21.98	22.44
	8H	18.81	19.68	19.27	20.12	20.59	20.80	21.67	21.26	22.11	22.58
	12H	18.88	19.66	19.36	20.14	20.61	20.92	21.70	21.40	22.18	22.64
8H	4H	18.64	19.51	19.10	19.96	20.42	20.18	21.05	20.64	21.50	21.96
	6H	19.18	19.91	19.68	20.40	20.87	20.91	21.63	21.40	22.12	22.59
	8H	19.35	20.00	19.86	20.51	20.99	21.15	21.80	21.66	22.31	22.80
	12H	19.46	20.04	19.97	20.53	21.09	21.33	21.90	21.83	22.39	22.95
12H	4H	18.69	19.48	19.17	19.95	20.42	20.19	20.98	20.67	21.45	21.92
	6H	19.26	19.91	19.76	20.41	20.90	20.92	21.58	21.43	22.08	22.57
	8H	19.47	20.05	19.98	20.54	21.10	21.22	21.79	21.72	22.28	22.84