

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: P572071

Luminaire Tested: 22ID-80-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572071
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-L830-DBR
Description: 8000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7839.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

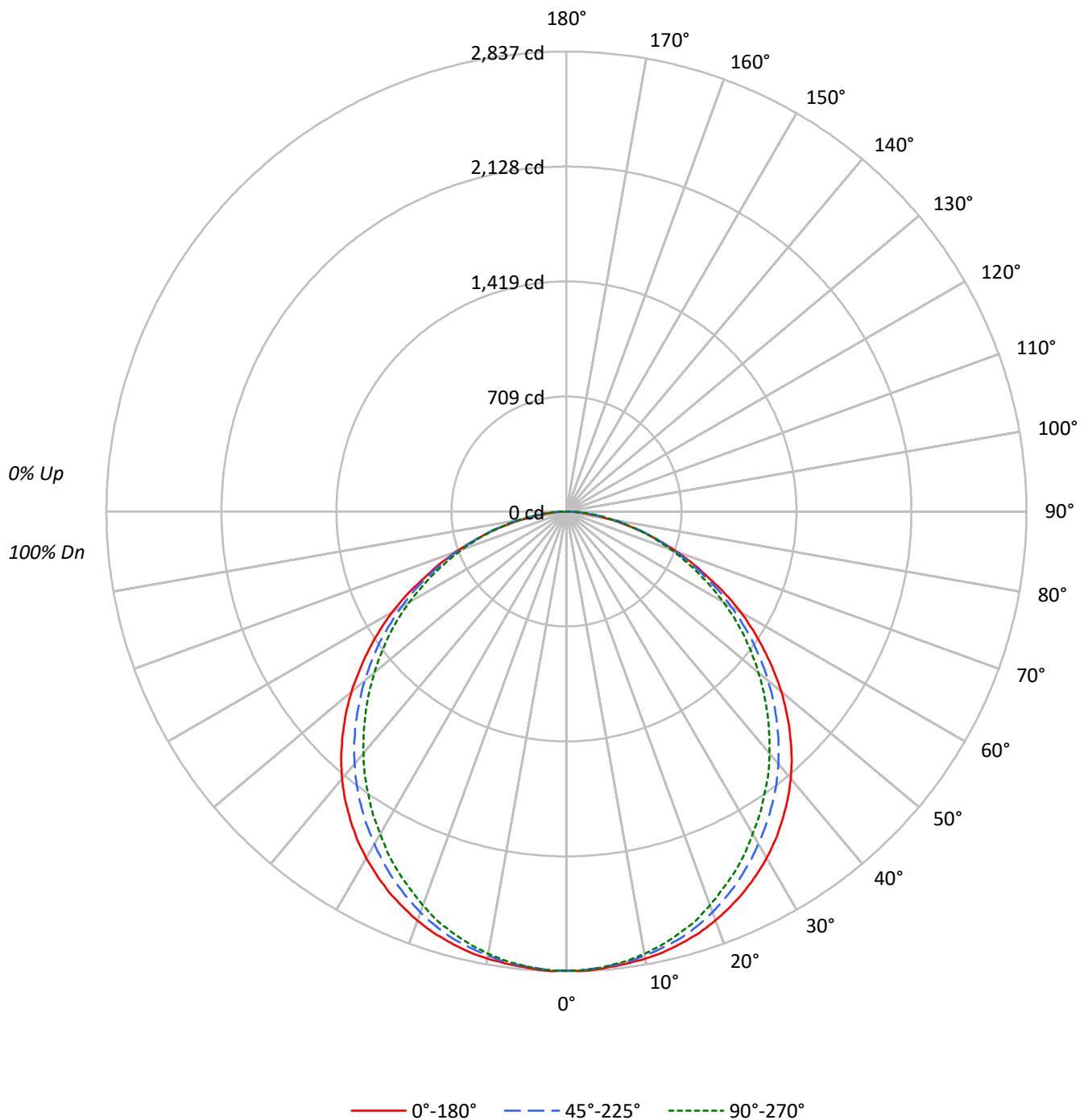
Input Watts (W): 70.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92			94	91	89		90
2	99	91	84	78	96	89	83	78	85	80	76			82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64			73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54			65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47			58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41			53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36			48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33			44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29			41	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27			38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7624	7624	7624
5°	7632	7611	7611
10°	7657	7604	7572
15°	7677	7591	7505
20°	7692	7537	7404
25°	7689	7459	7287
30°	7674	7362	7134
35°	7631	7262	6996
40°	7562	7141	6843
45°	7428	6986	6663
50°	7249	6796	6472
55°	6981	6582	6274
60°	6677	6303	6012
65°	6152	5955	5685
70°	5656	5565	5382
75°	4982	5143	4982
80°	4073	4493	4493
85°	2507	3578	3578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.4
10°-20°	768.4	9.8
20°-30°	1159.5	14.8
30°-40°	1387.4	17.7
40°-50°	1420.7	18.1
50°-60°	1256.1	16.0
60°-70°	927.9	11.8
70°-80°	518.6	6.6
80°-90°	132.5	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°	2195.9	28.0
0°-40°	3583.3	45.7
0°-60°	6260.1	79.9
0°-90°	7839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2833	2833	2833	2833	2833	
5°	2825	2821	2818	2814	2818	269
15°	2756	2744	2725	2702	2694	778
25°	2590	2566	2512	2470	2454	1193
35°	2323	2288	2211	2149	2130	1453
45°	1952	1913	1836	1770	1751	1504
55°	1488	1461	1403	1353	1337	1329
65°	966	966	935	904	893	964
75°	479	499	495	487	479	510
85°	81	104	116	120	116	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2833.0	2833.0	2833.0	2833.0	2833.0
2.5°	2836.8	2829.1	2829.1	2829.1	2833.0
5°	2825.2	2821.4	2817.5	2813.6	2817.5
7.5°	2813.6	2809.8	2805.9	2794.3	2798.2
10°	2802.1	2794.3	2782.7	2771.1	2771.1
12.5°	2782.7	2771.1	2755.7	2740.2	2736.4
15°	2755.7	2744.1	2724.8	2701.6	2693.8
17.5°	2724.8	2709.3	2682.2	2655.2	2647.5
20°	2686.1	2670.6	2632.0	2597.2	2585.6
22.5°	2639.7	2620.4	2574.0	2535.4	2519.9
25°	2589.5	2566.3	2512.2	2469.7	2454.2
27.5°	2531.5	2504.5	2442.6	2396.2	2380.8
30°	2469.7	2438.8	2369.2	2318.9	2295.8
32.5°	2400.1	2365.3	2291.9	2233.9	2218.5
35°	2322.8	2288.0	2210.7	2148.9	2129.6
37.5°	2241.6	2203.0	2125.7	2060.0	2044.5
40°	2152.8	2114.1	2032.9	1963.4	1947.9
42.5°	2056.1	2013.6	1936.3	1870.6	1851.3
45°	1951.8	1913.1	1835.8	1770.1	1750.8
47.5°	1843.6	1808.8	1731.5	1669.6	1650.3
50°	1731.5	1696.7	1623.3	1561.4	1546.0
52.5°	1607.8	1580.7	1515.0	1453.2	1441.6
55°	1488.0	1460.9	1403.0	1352.7	1337.3
57.5°	1364.3	1337.3	1287.0	1236.8	1229.0
60°	1240.6	1217.4	1171.1	1132.4	1117.0
62.5°	1105.4	1097.6	1059.0	1016.5	1004.9
65°	966.2	966.2	935.3	904.4	892.8
67.5°	846.4	842.5	819.4	800.0	788.4
70°	718.9	726.6	707.3	688.0	684.1
72.5°	599.1	606.8	599.1	587.5	579.7
75°	479.2	498.6	494.7	487.0	479.2
77.5°	367.2	390.4	390.4	386.5	382.6
80°	262.8	286.0	289.9	289.9	289.9
82.5°	166.2	189.4	201.0	201.0	201.0
85°	81.2	104.4	115.9	119.8	115.9
87.5°	27.1	38.6	42.5	46.4	46.4
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	18.92	20.55	19.29	20.87	21.18	18.35	19.98	18.71	20.29	20.61
	3H	20.60	22.07	20.97	22.39	22.75	20.09	21.56	20.47	21.89	22.25
	4H	21.18	22.57	21.58	22.92	23.29	20.75	22.13	21.15	22.48	22.86
	6H	21.57	22.85	21.98	23.22	23.61	21.23	22.52	21.64	22.88	23.27
	8H	21.67	22.89	22.09	23.28	23.68	21.39	22.61	21.81	23.00	23.40
	12H	21.71	22.88	22.14	23.26	23.69	21.48	22.65	21.91	23.04	23.46
4H	2H	19.47	20.86	19.87	21.21	21.58	19.02	20.40	19.42	20.75	21.13
	3H	21.38	22.54	21.79	22.93	23.33	20.97	22.13	21.38	22.53	22.93
	4H	22.10	23.15	22.53	23.56	24.00	21.76	22.80	22.19	23.22	23.65
	6H	22.62	23.53	23.07	23.97	24.43	22.36	23.28	22.82	23.72	24.17
	8H	22.75	23.61	23.21	24.05	24.52	22.56	23.42	23.02	23.86	24.32
	12H	22.83	23.60	23.31	24.07	24.54	22.69	23.46	23.17	23.94	24.41
8H	4H	22.38	23.24	22.84	23.68	24.15	22.08	22.93	22.54	23.37	23.84
	6H	23.01	23.72	23.50	24.21	24.69	22.80	23.51	23.29	24.00	24.47
	8H	23.21	23.85	23.72	24.36	24.84	23.07	23.71	23.58	24.21	24.70
	12H	23.34	23.90	23.85	24.39	24.95	23.27	23.83	23.78	24.32	24.89
12H	4H	22.41	23.18	22.89	23.65	24.12	22.11	22.88	22.59	23.35	23.82
	6H	23.06	23.70	23.57	24.20	24.69	22.85	23.49	23.36	24.00	24.48
	8H	23.31	23.88	23.82	24.37	24.93	23.17	23.74	23.68	24.23	24.79

END OF REPORT