

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: P572039

Luminaire Tested: 22ID-70-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572039
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-70-L830-DBR
Description: 7000 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: 6966.9 lumens
Efficiency: N/A
Efficacy: 114.0 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

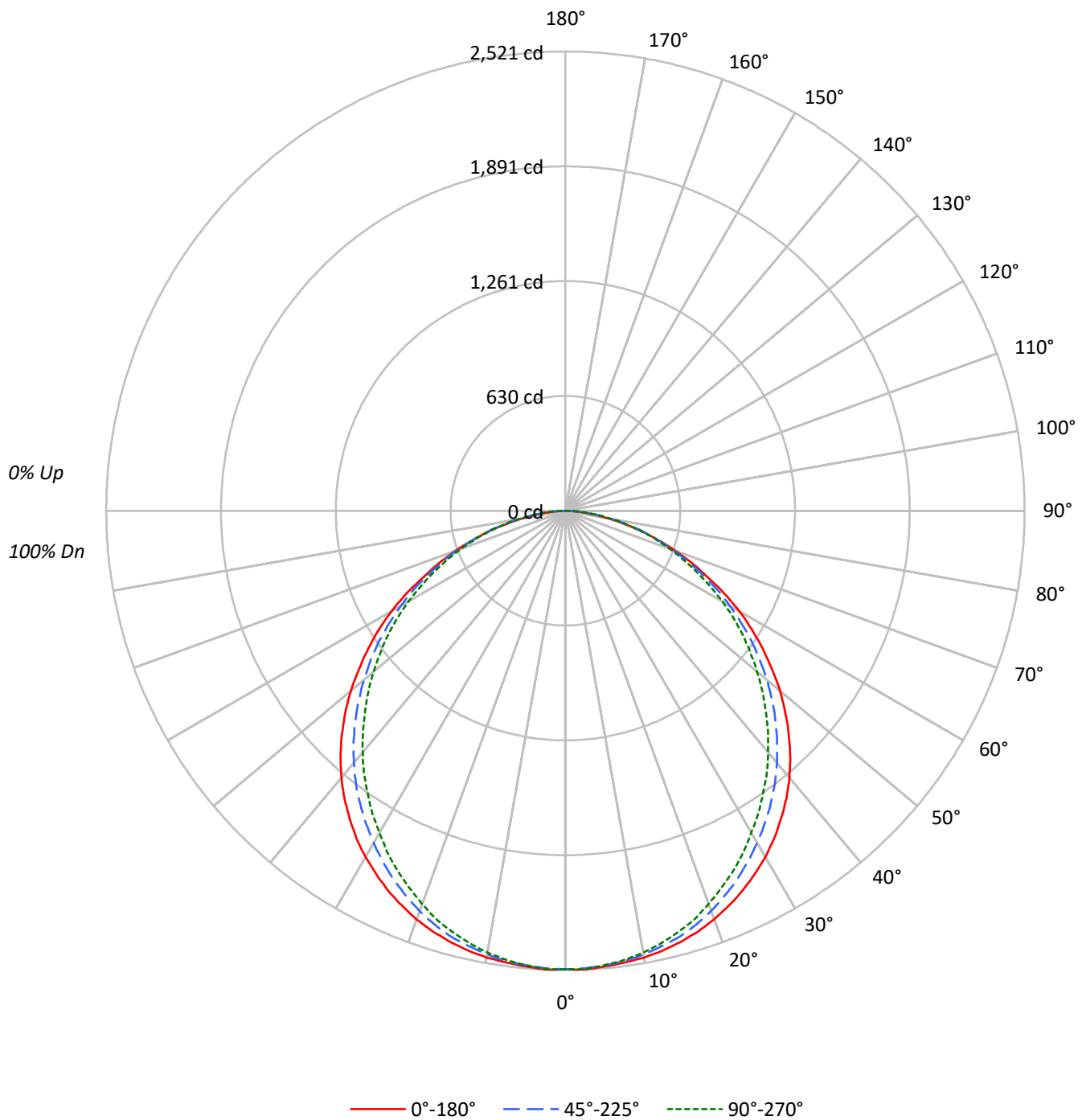
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6775	6775	6775
5°	6783	6764	6764
10°	6805	6758	6730
15°	6823	6747	6670
20°	6836	6699	6581
25°	6833	6629	6476
30°	6820	6543	6340
35°	6782	6455	6218
40°	6721	6347	6081
45°	6602	6209	5922
50°	6442	6040	5752
55°	6205	5850	5576
60°	5934	5602	5343
65°	5468	5293	5053
70°	5027	4946	4784
75°	4428	4572	4428
80°	3620	3992	3992
85°	2226	3180	3180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.2	3.4
10°-20°	682.9	9.8
20°-30°	1030.5	14.8
30°-40°	1233.1	17.7
40°-50°	1262.7	18.1
50°-60°	1116.3	16.0
60°-70°	824.7	11.8
70°-80°	460.8	6.6
80°-90°	117.7	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°	1951.6	28.0
0°-40°	3184.7	45.7
0°-60°	5563.7	79.9
0°-90°	6966.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6966.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2511	2508	2504	2501	2504	239
15°	2449	2439	2422	2401	2394	692
25°	2301	2281	2233	2195	2181	1061
35°	2064	2034	1965	1910	1893	1291
45°	1735	1700	1632	1573	1556	1337
55°	1322	1298	1247	1202	1188	1182
65°	859	859	831	804	794	857
75°	426	443	440	433	426	454
85°	72	93	103	106	103	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2517.8	2517.8	2517.8	2517.8	2517.8
2.5°	2521.3	2514.4	2514.4	2514.4	2517.8
5°	2511.0	2507.5	2504.1	2500.7	2504.1
7.5°	2500.7	2497.2	2493.8	2483.5	2486.9
10°	2490.4	2483.5	2473.2	2462.9	2462.9
12.5°	2473.2	2462.9	2449.1	2435.4	2432.0
15°	2449.1	2438.8	2421.7	2401.0	2394.2
17.5°	2421.7	2407.9	2383.9	2359.8	2353.0
20°	2387.3	2373.6	2339.2	2308.3	2298.0
22.5°	2346.1	2328.9	2287.7	2253.3	2239.6
25°	2301.4	2280.8	2232.7	2194.9	2181.2
27.5°	2249.9	2225.9	2170.9	2129.7	2115.9
30°	2194.9	2167.5	2105.6	2061.0	2040.4
32.5°	2133.1	2102.2	2036.9	1985.4	1971.7
35°	2064.4	2033.5	1964.8	1909.8	1892.7
37.5°	1992.3	1957.9	1889.2	1830.8	1817.1
40°	1913.3	1878.9	1806.8	1745.0	1731.2
42.5°	1827.4	1789.6	1720.9	1662.5	1645.4
45°	1734.7	1700.3	1631.6	1573.2	1556.0
47.5°	1638.5	1607.6	1538.9	1483.9	1466.7
50°	1538.9	1508.0	1442.7	1387.7	1374.0
52.5°	1428.9	1404.9	1346.5	1291.6	1281.2
55°	1322.5	1298.4	1246.9	1202.2	1188.5
57.5°	1212.5	1188.5	1143.8	1099.2	1092.3
60°	1102.6	1082.0	1040.8	1006.4	992.7
62.5°	982.4	975.5	941.2	903.4	893.1
65°	858.7	858.7	831.3	803.8	793.5
67.5°	752.3	748.8	728.2	711.0	700.7
70°	638.9	645.8	628.6	611.4	608.0
72.5°	532.4	539.3	532.4	522.1	515.2
75°	425.9	443.1	439.7	432.8	425.9
77.5°	326.3	346.9	346.9	343.5	340.1
80°	233.6	254.2	257.6	257.6	257.6
82.5°	147.7	168.3	178.6	178.6	178.6
85°	72.1	92.7	103.0	106.5	103.0
87.5°	24.0	34.3	37.8	41.2	41.2
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	18.51	20.14	18.88	20.46	20.77	17.94	19.57	18.30	19.88	20.20
	3H	20.19	21.66	20.56	21.98	22.34	19.68	21.15	20.06	21.48	21.84
	4H	20.77	22.16	21.17	22.51	22.88	20.34	21.72	20.74	22.07	22.45
	6H	21.16	22.44	21.57	22.81	23.20	20.82	22.11	21.23	22.47	22.86
	8H	21.26	22.48	21.68	22.87	23.27	20.98	22.20	21.40	22.59	22.99
	12H	21.30	22.47	21.73	22.85	23.28	21.07	22.24	21.50	22.63	23.05
4H	2H	19.06	20.45	19.46	20.80	21.17	18.61	19.99	19.01	20.34	20.72
	3H	20.97	22.13	21.38	22.52	22.92	20.56	21.72	20.97	22.12	22.52
	4H	21.69	22.74	22.12	23.15	23.59	21.35	22.39	21.78	22.81	23.24
	6H	22.21	23.12	22.66	23.56	24.02	21.95	22.87	22.41	23.31	23.76
	8H	22.34	23.20	22.80	23.64	24.11	22.15	23.01	22.61	23.45	23.91
	12H	22.42	23.19	22.90	23.66	24.13	22.28	23.05	22.76	23.53	24.00
8H	4H	21.97	22.83	22.43	23.27	23.74	21.67	22.52	22.13	22.97	23.43
	6H	22.60	23.31	23.09	23.80	24.28	22.39	23.10	22.88	23.59	24.06
	8H	22.80	23.44	23.31	23.95	24.43	22.66	23.30	23.17	23.80	24.29
	12H	22.93	23.49	23.44	23.98	24.54	22.86	23.42	23.37	23.91	24.48
12H	4H	22.00	22.77	22.48	23.24	23.71	21.70	22.47	22.18	22.94	23.41
	6H	22.65	23.29	23.16	23.79	24.28	22.44	23.08	22.95	23.59	24.07
	8H	22.90	23.47	23.41	23.96	24.52	22.76	23.33	23.27	23.82	24.38

END OF REPORT