

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: P572181

Luminaire Tested: 24ID-60-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572181
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-60-L830-DBD
Description: 6000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

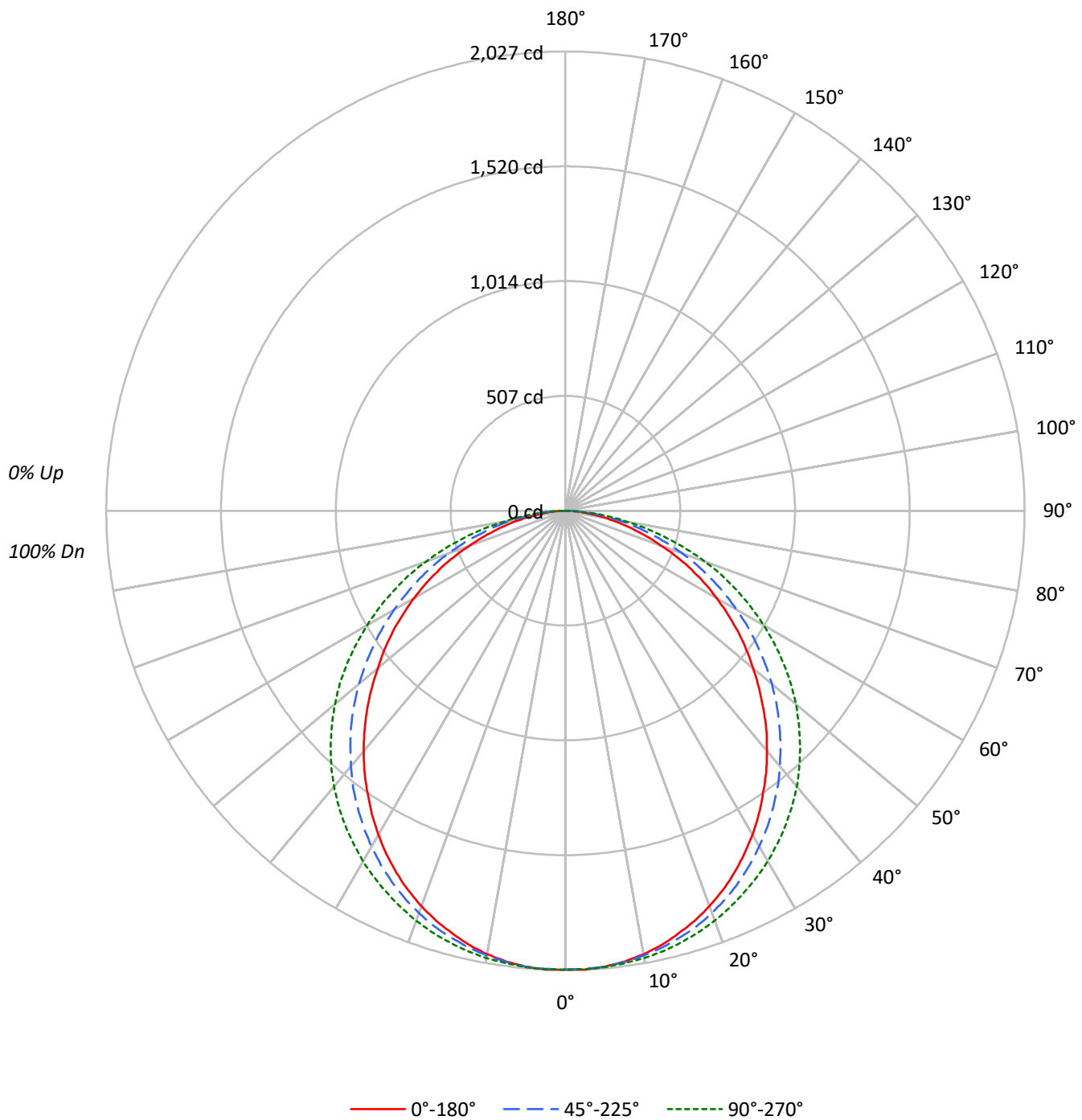
Lumens per Lamp: N/A
Luminaire Lumens: 5778.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 54.5
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	94	97	94	91	93	91	88	90	88	86
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2725	2725	2725
5°	2718	2707	2711
10°	2696	2682	2699
15°	2661	2654	2688
20°	2621	2622	2676
25°	2569	2580	2661
30°	2505	2530	2648
35°	2429	2473	2630
40°	2350	2408	2609
45°	2258	2335	2574
50°	2154	2252	2529
55°	2059	2148	2465
60°	1933	2034	2377
65°	1790	1901	2258
70°	1585	1730	2087
75°	1369	1491	1833
80°	1083	1212	1433
85°	747	750	862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	3.3
10°-20°	550.9	9.5
20°-30°	835.0	14.5
30°-40°	1004.5	17.4
40°-50°	1037.0	17.9
50°-60°	931.8	16.1
60°-70°	709.5	12.3
70°-80°	407.3	7.0
80°-90°	109.9	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°	1577.9	27.3
0°-40°	2582.5	44.7
0°-60°	4551.3	78.8
0°-90°	5778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2020	2022	2020	2018	2022	192
15°	1931	1941	1950	1963	1973	545
25°	1764	1781	1809	1847	1862	812
35°	1522	1548	1599	1668	1695	952
45°	1236	1264	1336	1428	1465	953
55°	930	954	1031	1131	1176	830
65°	612	641	710	793	836	606
75°	304	332	381	436	462	323
85°	71	83	98	103	109	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.3	2025.3	2025.3	2025.3	2025.3
2.5°	2027.2	2027.2	2023.4	2021.5	2025.3
5°	2019.6	2021.5	2019.6	2017.8	2021.5
7.5°	2006.5	2008.4	2008.4	2010.2	2014.0
10°	1987.7	1991.5	1993.3	1999.0	2004.6
12.5°	1963.3	1967.0	1974.6	1983.9	1991.5
15°	1931.3	1940.7	1950.1	1963.3	1972.7
17.5°	1897.5	1908.8	1923.8	1940.7	1952.0
20°	1858.1	1871.2	1890.0	1912.6	1925.7
22.5°	1813.0	1829.9	1852.4	1880.6	1895.6
25°	1764.1	1781.0	1809.2	1846.8	1861.8
27.5°	1709.6	1728.4	1762.3	1805.5	1826.1
30°	1651.4	1672.1	1711.5	1764.1	1786.7
32.5°	1589.4	1612.0	1657.0	1717.2	1741.6
35°	1521.8	1548.1	1598.8	1668.3	1694.6
37.5°	1456.0	1482.3	1538.7	1613.8	1643.9
40°	1384.6	1412.8	1472.9	1555.6	1589.4
42.5°	1313.2	1337.7	1405.3	1493.6	1529.3
45°	1236.2	1264.4	1335.8	1427.8	1465.4
47.5°	1159.2	1189.2	1264.4	1358.3	1397.8
50°	1080.3	1112.2	1189.2	1285.1	1328.3
52.5°	1007.0	1033.3	1112.2	1209.9	1255.0
55°	930.0	954.4	1031.4	1131.0	1176.1
57.5°	849.2	877.4	954.4	1048.3	1093.4
60°	770.3	798.5	871.7	965.7	1010.8
62.5°	693.3	719.6	790.9	881.1	926.2
65°	612.5	640.6	710.2	792.8	836.0
67.5°	533.6	563.6	629.4	704.5	749.6
70°	449.0	482.8	546.7	616.2	651.9
72.5°	373.9	405.8	464.0	526.0	559.9
75°	304.4	332.5	381.4	435.9	462.2
77.5°	234.8	264.9	308.1	349.4	370.1
80°	172.8	201.0	234.8	263.0	272.4
82.5°	118.4	139.0	163.4	178.5	191.6
85°	71.4	82.7	97.7	103.3	109.0
87.5°	30.1	33.8	39.5	37.6	39.5
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	14.09	15.73	14.45	16.05	16.36	15.56	17.20	15.92	17.51	17.83
	3H	15.66	17.14	16.03	17.47	17.83	17.45	18.94	17.83	19.27	19.63
	4H	16.17	17.57	16.57	17.92	18.30	18.16	19.56	18.55	19.90	20.28
	6H	16.50	17.80	16.91	18.17	18.56	18.65	19.95	19.06	20.31	20.70
	8H	16.59	17.83	17.01	18.22	18.61	18.79	20.03	19.22	20.42	20.82
	12H	16.63	17.82	17.06	18.20	18.63	18.87	20.06	19.30	20.44	20.87
4H	2H	14.84	16.24	15.24	16.59	16.96	16.01	17.41	16.41	17.76	18.13
	3H	16.61	17.78	17.02	18.18	18.58	18.12	19.30	18.53	19.70	20.10
	4H	17.23	18.30	17.66	18.71	19.14	18.96	20.02	19.39	20.44	20.87
	6H	17.67	18.60	18.12	19.04	19.49	19.58	20.51	20.04	20.95	21.41
	8H	17.78	18.65	18.24	19.09	19.56	19.77	20.64	20.23	21.08	21.55
	12H	17.85	18.63	18.33	19.11	19.58	19.89	20.67	20.37	21.15	21.61
8H	4H	17.61	18.48	18.07	18.93	19.39	19.15	20.02	19.61	20.47	20.93
	6H	18.15	18.88	18.65	19.36	19.84	19.88	20.60	20.37	21.09	21.56
	8H	18.32	18.97	18.83	19.48	19.96	20.12	20.77	20.63	21.28	21.77
	12H	18.43	19.01	18.94	19.50	20.06	20.30	20.87	20.80	21.36	21.92
12H	4H	17.66	18.45	18.14	18.92	19.39	19.16	19.94	19.64	20.42	20.89
	6H	18.23	18.88	18.73	19.38	19.87	19.89	20.55	20.40	21.05	21.54
	8H	18.44	19.02	18.95	19.51	20.07	20.19	20.76	20.69	21.25	21.81