

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1438714

Luminaire Tested: CB2-085U-055D-835-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438714
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-1, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-085U-055D-835-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

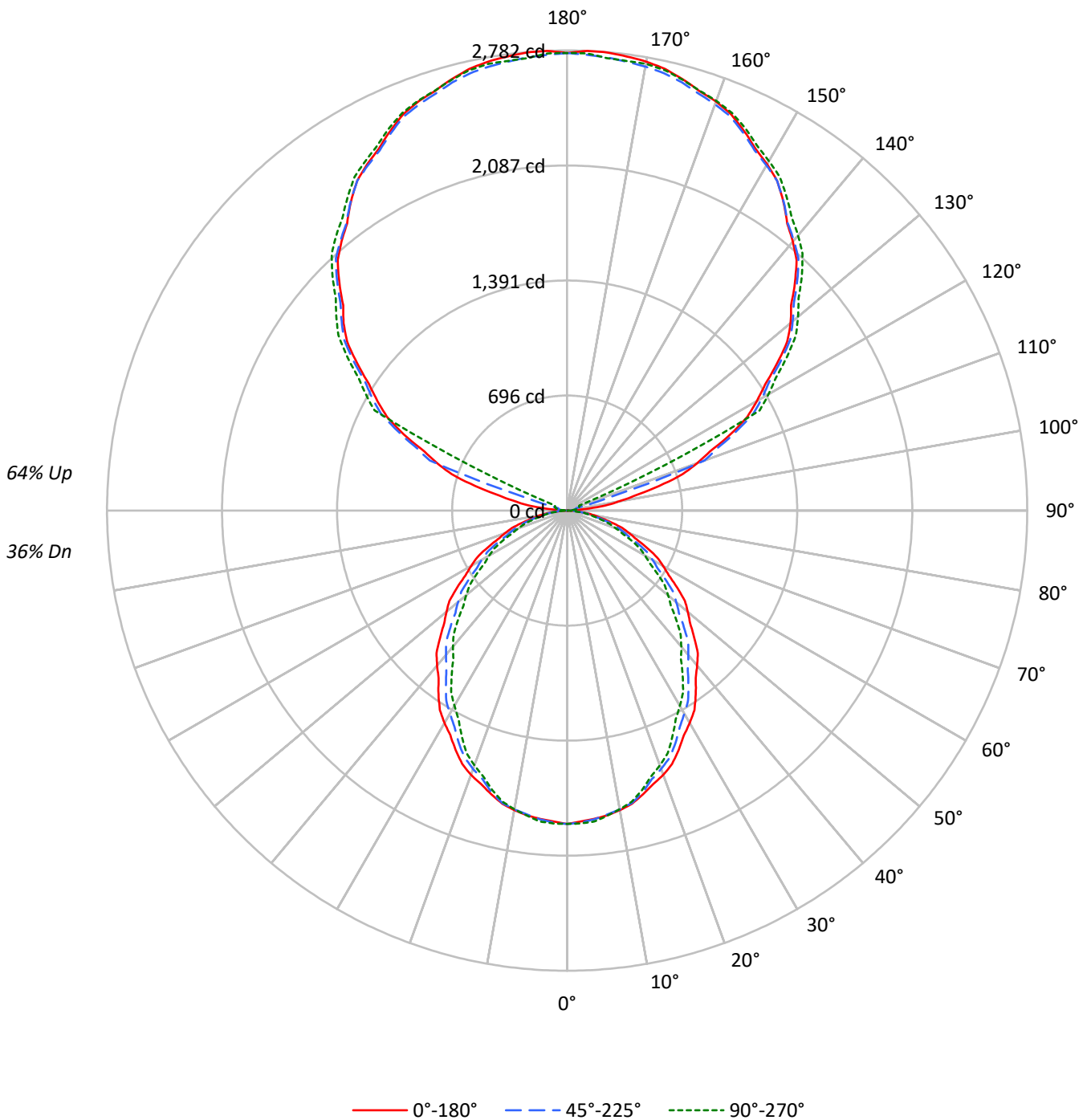
Lumens per Lamp: N/A
Luminaire Lumens: 12304.3 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (A_{in}): 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										
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	50	30	10	0														
RCR																																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36																				
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	37	37	30																				
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31	26																				
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22																				
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19																				
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17																				
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15																				
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13																				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12																				
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11																				
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16497	16497	16497
5°	16357	16382	16496
10°	16264	16225	16213
15°	16006	15901	15771
20°	15754	15405	15190
25°	15331	14899	14481
30°	14907	14250	13710
35°	14418	13585	12937
40°	13900	12960	12202
45°	13380	12309	11486
50°	12910	11673	10788
55°	12332	11011	10130
60°	11671	10382	9473
65°	10969	9683	8818
70°	10193	8902	7977
75°	9273	8052	7224
80°	8295	7056	6545
85°	6375	5795	4786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13380 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.4
10°-20°	496.6	4.0
20°-30°	714.0	5.8
30°-40°	802.5	6.5
40°-50°	775.2	6.3
50°-60°	655.0	5.3
60°-70°	470.5	3.8
70°-80°	257.1	2.1
80°-90°	68.4	0.6
90°-100°	48.2	0.4
100°-110°	306.8	2.5
110°-120°	974.8	7.9
120°-130°	1414.5	11.5
130°-140°	1521.3	12.4
140°-150°	1432.4	11.6
150°-160°	1166.9	9.5
160°-170°	759.5	6.2
170°-180°	262.5	2.1
0°-30°	1388.7	11.3
0°-40°	2191.2	17.8
0°-60°	3621.4	29.4
0°-90°	4417.4	35.9
90°-120°	1329.8	10.8
90°-150°	5698.0	46.3
90°-180°	7887.0	64.1
0°-180°	12304.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1871	1897	1874	1874	1887	178
15°	1775	1791	1764	1746	1749	500
25°	1596	1597	1550	1516	1507	734
35°	1356	1341	1278	1228	1217	847
45°	1086	1064	999	947	933	839
55°	812	782	725	680	667	726
65°	532	512	470	436	428	528
75°	276	259	239	220	215	295
85°	64	60	58	51	48	76
90°	0	0	0	2	2	7
95°	110	32	34	22	20	139
105°	576	598	60	70	74	607
115°	1090	1114	1124	1137	652	1072
125°	1548	1575	1576	1602	1624	1384
135°	1948	1972	1968	1981	2006	1502
145°	2280	2298	2282	2285	2314	1425
155°	2532	2548	2520	2515	2550	1167
165°	2700	2708	2680	2669	2696	763
175°	2780	2786	2750	2732	2746	264
180°	2766	2766	2766	2766	2766	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1894.3	1894.3	1894.3	1894.3	1894.3
2.5°	1881.5	1904.2	1887.3	1889.7	1893.1
5°	1871.1	1896.6	1874.0	1874.3	1887.0
7.5°	1857.7	1881.8	1853.4	1848.1	1860.0
10°	1839.2	1863.3	1834.8	1824.9	1833.4
12.5°	1814.8	1837.8	1810.4	1794.7	1802.0
15°	1775.3	1790.9	1763.7	1746.4	1749.2
17.5°	1732.4	1742.1	1702.8	1688.3	1685.4
20°	1699.9	1708.4	1662.2	1641.8	1639.0
22.5°	1658.1	1665.5	1617.0	1591.9	1587.9
25°	1595.5	1596.9	1550.5	1515.5	1507.0
27.5°	1529.9	1525.4	1473.9	1432.5	1421.4
30°	1482.4	1476.7	1417.1	1373.3	1363.4
32.5°	1431.3	1421.1	1361.4	1314.2	1304.2
35°	1356.2	1340.6	1277.8	1228.3	1216.9
37.5°	1276.1	1258.5	1196.9	1142.9	1130.2
40°	1222.7	1202.9	1140.0	1086.1	1073.3
42.5°	1169.3	1147.2	1083.2	1029.2	1015.3
45°	1086.4	1063.7	999.4	946.8	932.6
47.5°	1007.5	978.5	916.1	863.9	849.7
50°	952.9	921.7	861.6	810.5	796.3
52.5°	897.2	864.9	807.0	758.3	744.1
55°	812.2	782.5	725.2	680.0	667.2
57.5°	728.1	699.5	647.2	604.0	591.5
60°	670.1	646.0	596.1	555.3	543.9
62.5°	614.4	592.6	545.1	507.7	496.3
65°	532.3	512.5	469.9	436.4	427.9
67.5°	452.5	432.7	398.3	368.2	358.5
70°	400.3	380.5	349.6	321.8	313.3
72.5°	350.4	329.4	304.3	278.9	272.7
75°	275.6	258.6	239.3	220.3	214.7
77.5°	209.4	193.0	179.0	165.6	164.2
80°	165.4	151.2	140.7	132.0	130.5
82.5°	123.6	112.8	105.9	99.5	99.2
85°	63.8	59.6	58.0	50.7	47.9
87.5°	18.6	18.6	16.2	14.3	14.3
90°	0.0	0.0	0.0	2.0	2.0
92.5°	30.4	11.6	8.0	11.6	11.6
95°	110.0	31.8	34.0	22.0	20.0
97.5°	228.4	51.2	49.2	54.0	56.0
100°	318.0	104.8	54.0	62.0	64.0
102.5°	417.2	394.9	55.6	66.9	70.4
105°	576.0	597.5	60.0	70.1	74.0
107.5°	732.0	753.5	279.2	72.5	76.4
110°	836.0	857.5	884.0	74.1	78.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	933.6	959.8	980.0	164.9	81.2
115°	1090.0	1113.5	1124.0	1137.0	652.0
117.5°	1228.0	1256.9	1268.8	1291.3	1313.2
120°	1324.0	1351.4	1360.0	1382.5	1406.0
122.5°	1418.4	1442.6	1448.0	1473.7	1495.6
125°	1548.0	1575.4	1576.0	1602.5	1624.0
127.5°	1677.6	1701.1	1700.0	1719.7	1743.6
130°	1764.0	1779.6	1780.0	1796.6	1822.0
132.5°	1836.0	1857.9	1858.4	1871.8	1897.2
135°	1948.0	1971.5	1968.0	1980.6	2006.0
137.5°	2053.2	2075.9	2069.6	2080.2	2106.4
140°	2122.0	2141.6	2132.0	2142.7	2172.0
142.5°	2186.0	2205.6	2191.2	2200.3	2231.2
145°	2280.0	2297.6	2282.0	2284.7	2314.0
147.5°	2363.6	2380.8	2362.0	2364.6	2392.0
150°	2418.0	2433.6	2410.0	2412.6	2440.0
152.5°	2466.0	2480.1	2454.8	2454.3	2486.4
155°	2532.0	2547.6	2520.0	2514.8	2550.0
157.5°	2592.0	2606.5	2578.8	2575.0	2602.4
160°	2632.0	2641.8	2614.0	2608.6	2636.0
162.5°	2659.2	2670.5	2642.8	2634.2	2661.6
165°	2700.0	2707.8	2680.0	2668.6	2696.0
167.5°	2735.2	2744.2	2708.4	2698.3	2727.6
170°	2756.0	2761.9	2726.0	2712.7	2742.0
172.5°	2768.8	2773.1	2737.2	2722.1	2742.0
175°	2780.0	2785.9	2750.0	2732.3	2746.0
177.5°	2782.0	2785.1	2758.0	2742.5	2766.0
180°	2766.0	2766.0	2766.0	2766.0	2766.0

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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	15.27	16.01	16.34	17.08	18.54	14.17	14.91	15.24	15.98	17.44
	3H	16.91	17.57	17.99	18.65	20.13	15.69	16.35	16.77	17.43	18.91
	4H	17.53	18.16	18.62	19.24	20.72	16.26	16.89	17.35	17.97	19.45
	6H	17.93	18.50	19.03	19.59	21.09	16.62	17.20	17.72	18.29	19.78
	8H	18.07	18.62	19.18	19.72	21.21	16.76	17.31	17.86	18.41	19.90
	12H	18.14	18.66	19.25	19.76	21.27	16.82	17.34	17.93	18.44	19.95
4H	2H	15.67	16.29	16.76	17.38	18.86	14.79	15.42	15.89	16.50	17.99
	3H	17.52	18.05	18.63	19.16	20.65	16.52	17.04	17.62	18.15	19.64
	4H	18.26	18.75	19.37	19.84	21.36	17.18	17.66	18.29	18.76	20.28
	6H	18.78	19.19	19.90	20.31	21.82	17.65	18.06	18.77	19.19	20.70
	8H	18.98	19.36	20.10	20.48	22.00	17.84	18.22	18.96	19.34	20.86
	12H	19.08	19.43	20.21	20.55	22.09	17.92	18.27	19.06	19.40	20.93
8H	4H	18.41	18.80	19.53	19.91	21.44	17.45	17.83	18.56	18.95	20.47
	6H	19.05	19.37	20.19	20.52	22.04	18.05	18.36	19.19	19.52	21.04
	8H	19.34	19.62	20.48	20.75	22.30	18.32	18.60	19.47	19.73	21.28
	12H	19.51	19.75	20.66	20.88	22.46	18.47	18.71	19.61	19.84	21.42
12H	4H	18.39	18.73	19.52	19.86	21.39	17.45	17.79	18.58	18.92	20.45
	6H	19.08	19.35	20.22	20.49	22.03	18.11	18.39	19.25	19.52	21.07
	8H	19.39	19.63	20.54	20.76	22.34	18.41	18.65	19.56	19.79	21.37