

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: P1439234

Luminaire Tested: CB3-085U-055D-835-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439234  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-2, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-085U-055D-835-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

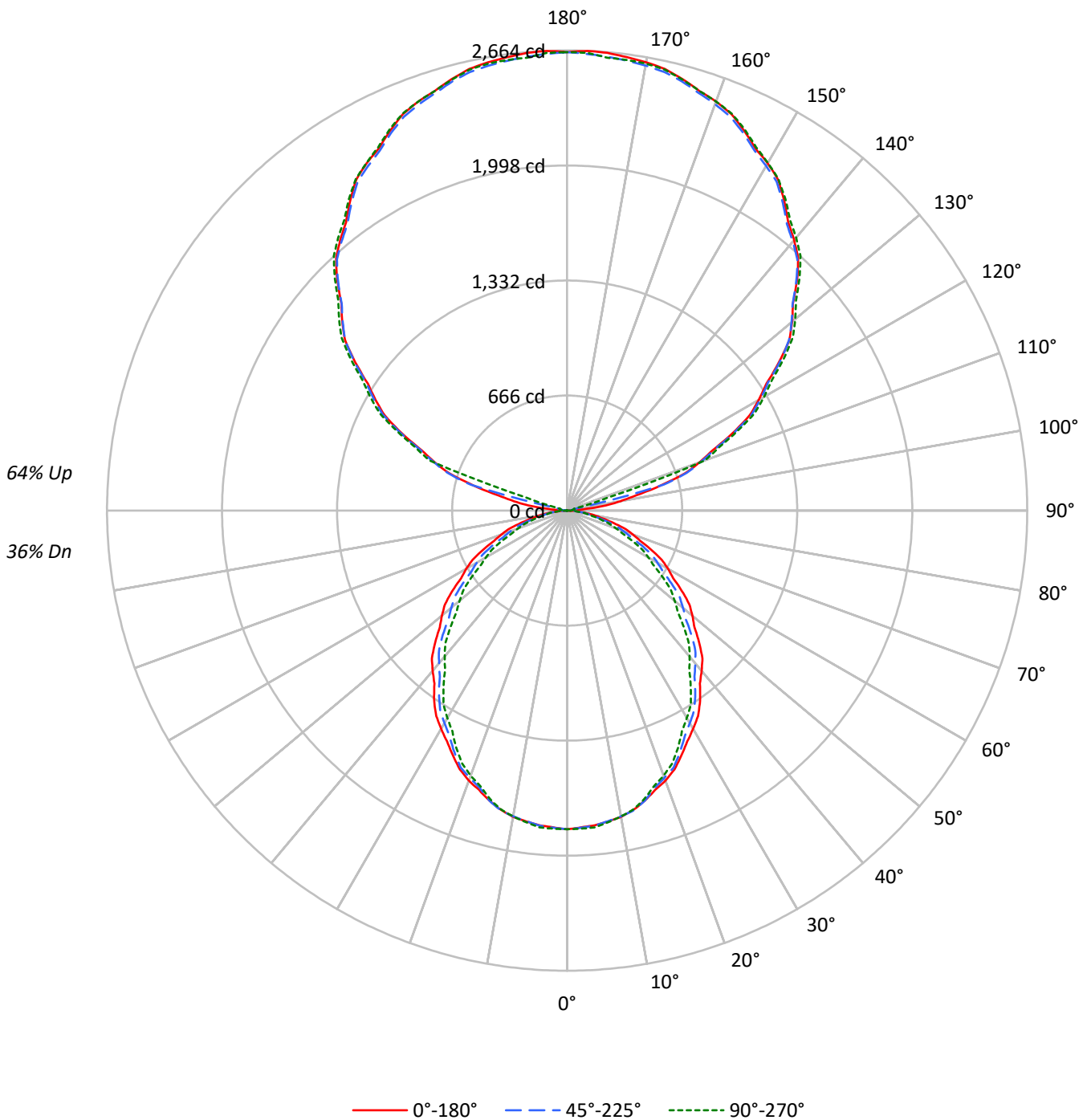
Lumens per Lamp: N/A  
Luminaire Lumens: 12249.5 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 89.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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	38	37	31
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26
3	79	70	63	57	71	63	57	52	51	47	44	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	24	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°	10437	10437	10437
5°	10388	10395	10455
10°	10342	10327	10327
15°	10184	10184	10122
20°	10018	9916	9829
25°	9766	9643	9471
30°	9527	9279	9056
35°	9275	8932	8615
40°	8941	8516	8148
45°	8638	8145	7642
50°	8326	7704	7150
55°	7987	7276	6681
60°	7620	6834	6153
65°	7191	6332	5595
70°	6697	5743	4985
75°	6072	5040	4439
80°	5294	4225	3926
85°	4083	3570	3570

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8638 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.1	1.4
10°-20°	489.0	4.0
20°-30°	710.5	5.8
30°-40°	807.8	6.6
40°-50°	784.2	6.4
50°-60°	662.1	5.4
60°-70°	471.1	3.8
70°-80°	251.7	2.1
80°-90°	66.6	0.5
90°-100°	61.3	0.5
100°-110°	443.8	3.6
110°-120°	1055.3	8.6
120°-130°	1348.2	11.0
130°-140°	1454.2	11.9
140°-150°	1370.9	11.2
150°-160°	1118.3	9.1
160°-170°	728.7	5.9
170°-180°	251.9	2.1
0°-30°	1373.6	11.2
0°-40°	2181.4	17.8
0°-60°	3627.7	29.6
0°-90°	4417.0	36.1
90°-120°	1560.4	12.7
90°-150°	5733.7	46.8
90°-180°	7833.0	63.9
0°-180°	12249.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1829	1852	1830	1828	1841	174
15°	1739	1754	1739	1728	1728	490
25°	1564	1570	1545	1524	1517	721
35°	1343	1330	1293	1255	1247	837
45°	1080	1063	1018	969	955	833
55°	810	788	738	690	677	724
65°	537	518	473	431	418	532
75°	278	262	231	207	203	296
85°	63	58	55	55	55	75
90°	0	0	0	2	0	7
95°	112	20	26	28	28	138
105°	562	570	578	42	44	593
115°	1054	1062	1064	1080	1086	1040
125°	1498	1508	1504	1520	1530	1337
135°	1882	1892	1876	1890	1902	1449
145°	2190	2204	2176	2190	2202	1370
155°	2426	2446	2412	2418	2434	1119
165°	2586	2600	2572	2564	2582	730
175°	2660	2674	2638	2624	2632	253
180°	2654	2654	2654	2654	2654	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1844.9	1844.9	1844.9	1844.9	1844.9
2.5°	1835.5	1853.9	1837.6	1839.7	1843.8
5°	1829.2	1852.2	1830.5	1828.1	1841.0
7.5°	1815.0	1836.0	1813.4	1808.2	1819.7
10°	1800.3	1823.4	1797.7	1791.3	1797.7
12.5°	1774.1	1798.2	1777.8	1767.2	1772.6
15°	1738.8	1754.1	1738.8	1728.3	1728.3
17.5°	1695.5	1711.7	1682.7	1675.3	1672.5
20°	1664.1	1678.2	1647.0	1636.5	1632.6
22.5°	1622.1	1635.2	1609.3	1591.4	1586.5
25°	1564.5	1569.6	1544.8	1523.7	1517.3
27.5°	1506.6	1507.9	1473.8	1448.2	1439.7
30°	1458.4	1459.6	1420.4	1392.7	1386.3
32.5°	1410.1	1406.3	1369.0	1336.1	1331.8
35°	1343.0	1330.2	1293.3	1255.1	1247.4
37.5°	1262.1	1254.4	1210.7	1172.4	1160.9
40°	1210.7	1197.9	1153.1	1114.8	1103.3
42.5°	1159.3	1144.5	1098.5	1056.1	1043.5
45°	1079.7	1063.0	1018.1	969.3	955.2
47.5°	999.5	981.3	931.9	884.6	869.0
50°	946.0	926.8	875.3	829.0	812.4
52.5°	891.5	871.3	819.7	772.5	758.9
55°	809.8	788.0	737.7	690.2	677.4
57.5°	728.0	706.5	656.5	611.6	596.2
60°	673.5	653.0	604.0	559.1	543.8
62.5°	617.9	598.5	550.6	506.8	492.4
65°	537.2	518.0	473.0	430.8	418.0
67.5°	457.3	440.9	396.5	357.7	347.5
70°	404.9	389.5	347.2	311.6	301.4
72.5°	354.6	338.2	298.0	267.7	260.5
75°	277.8	262.4	230.6	206.9	203.1
77.5°	207.6	195.0	167.5	154.0	152.0
80°	162.5	150.9	129.7	120.5	120.5
82.5°	120.5	111.1	97.2	93.3	93.3
85°	62.9	57.8	55.0	55.0	55.0
87.5°	18.9	18.9	17.8	17.2	16.8
90°	0.0	0.0	0.0	2.0	0.0
92.5°	30.4	11.6	9.6	11.6	11.2
95°	112.0	20.1	26.0	28.0	28.0
97.5°	225.6	221.3	30.4	36.4	36.8
100°	312.0	321.8	32.0	38.0	40.0
102.5°	408.0	416.2	59.2	39.6	41.6
105°	562.0	569.8	578.0	42.0	44.0
107.5°	715.2	721.1	726.4	653.9	244.8
110°	816.0	821.9	824.0	844.1	848.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	910.4	917.8	921.6	938.6	945.6
115°	1054.0	1061.8	1064.0	1080.1	1086.0
117.5°	1190.4	1198.6	1202.4	1215.4	1224.8
120°	1280.0	1289.8	1292.0	1308.2	1316.0
122.5°	1368.0	1379.3	1378.4	1393.0	1404.0
125°	1498.0	1507.8	1504.0	1520.2	1530.0
127.5°	1621.6	1627.5	1619.2	1639.0	1647.2
130°	1700.0	1705.9	1696.0	1714.2	1724.0
132.5°	1772.0	1781.0	1769.6	1786.2	1796.0
135°	1882.0	1891.8	1876.0	1890.3	1902.0
137.5°	1980.0	1991.7	1972.8	1989.4	1999.6
140°	2044.0	2055.7	2032.0	2050.3	2062.0
142.5°	2103.2	2118.1	2089.6	2106.3	2119.6
145°	2190.0	2203.7	2176.0	2190.3	2202.0
147.5°	2272.4	2284.1	2257.6	2267.8	2276.0
150°	2322.0	2333.7	2304.0	2314.2	2324.0
152.5°	2362.0	2378.4	2348.8	2355.9	2370.4
155°	2426.0	2445.6	2412.0	2418.4	2434.0
157.5°	2484.8	2502.4	2468.8	2474.3	2488.0
160°	2520.0	2537.6	2504.0	2506.3	2520.0
162.5°	2547.2	2563.2	2534.4	2530.4	2547.2
165°	2586.0	2599.7	2572.0	2564.4	2582.0
167.5°	2618.4	2634.0	2600.0	2593.7	2613.6
170°	2636.0	2651.6	2616.0	2606.5	2628.0
172.5°	2647.2	2661.3	2627.2	2614.4	2631.2
175°	2660.0	2673.7	2638.0	2624.2	2632.0
177.5°	2663.6	2674.6	2646.0	2633.6	2652.4
180°	2654.0	2654.0	2654.0	2654.0	2654.0



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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	13.85	14.59	14.92	15.66	17.12	12.77	13.51	13.84	14.58	16.04
	3H	15.51	16.17	16.58	17.25	18.72	14.17	14.84	15.25	15.92	17.39
	4H	16.13	16.76	17.22	17.84	19.32	14.69	15.32	15.78	16.40	17.88
	6H	16.51	17.09	17.61	18.17	19.67	15.00	15.58	16.10	16.66	18.15
	8H	16.64	17.19	17.75	18.29	19.78	15.12	15.67	16.22	16.77	18.26
	12H	16.71	17.23	17.81	18.32	19.83	15.19	15.71	16.30	16.80	18.32
4H	2H	14.24	14.87	15.34	15.95	17.43	13.38	14.01	14.48	15.09	16.58
	3H	16.12	16.64	17.22	17.75	19.25	14.99	15.51	16.09	16.62	18.12
	4H	16.86	17.34	17.97	18.44	19.96	15.59	16.07	16.70	17.17	18.69
	6H	17.36	17.77	18.48	18.89	20.40	16.00	16.41	17.11	17.53	19.04
	8H	17.55	17.93	18.66	19.05	20.57	16.16	16.55	17.28	17.66	19.19
	12H	17.64	17.99	18.77	19.11	20.64	16.26	16.61	17.40	17.74	19.27
8H	4H	16.98	17.37	18.10	18.48	20.01	15.84	16.23	16.96	17.34	18.87
	6H	17.60	17.92	18.74	19.07	20.59	16.37	16.69	17.51	17.84	19.36
	8H	17.87	18.15	19.02	19.29	20.83	16.62	16.90	17.76	18.03	19.57
	12H	18.03	18.28	19.18	19.41	20.98	16.79	17.03	17.94	18.17	19.74
12H	4H	16.95	17.30	18.08	18.42	19.95	15.84	16.19	16.97	17.31	18.84
	6H	17.61	17.89	18.76	19.03	20.57	16.42	16.70	17.57	17.84	19.38
	8H	17.91	18.15	19.05	19.28	20.86	16.70	16.94	17.85	18.08	19.65