

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: P1438674

Luminaire Tested: CB2-055U-085D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438674  
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: CB2-055U-085D-840-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

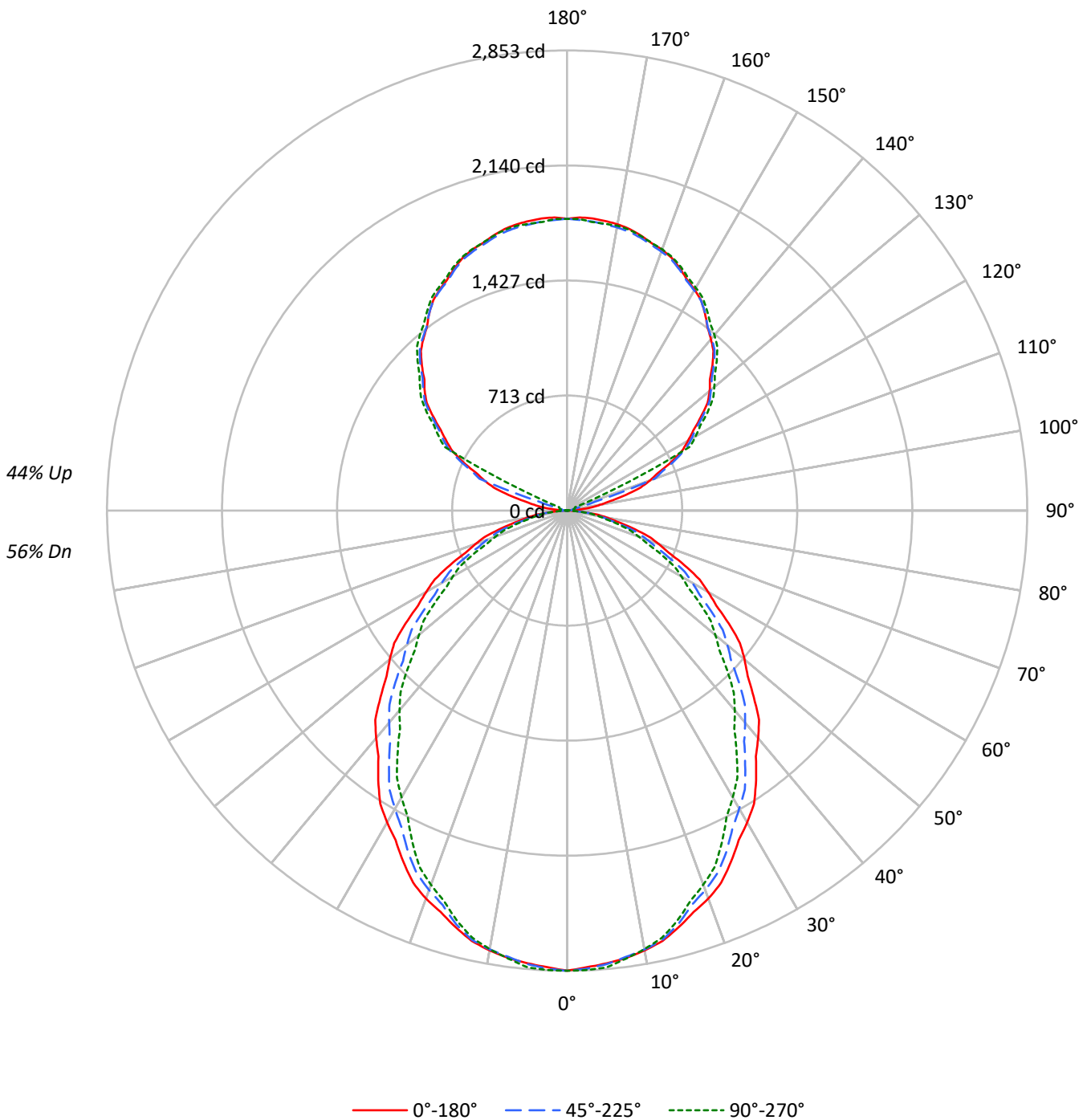
Lumens per Lamp: N/A  
Luminaire Lumens: 11809.7 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.8  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	47	45	40
3	83	73	66	60	77	69	62	57	60	55	51	51	47	44	43	41	38	34
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	55	47	42	48	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24844	24844	24844
5°	24634	24672	24844
10°	24493	24436	24416
15°	24106	23948	23751
20°	23726	23200	22876
25°	23089	22438	21808
30°	22450	21461	20648
35°	21713	20460	19484
40°	20935	19518	18377
45°	20150	18537	17299
50°	19444	17579	16247
55°	18573	16583	15256
60°	17578	15637	14268
65°	16520	14583	13279
70°	15351	13403	12013
75°	13964	12127	10878
80°	12488	10627	9860
85°	9602	8733	7204

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20150 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.3	2.3
10°-20°	747.8	6.3
20°-30°	1075.3	9.1
30°-40°	1208.6	10.2
40°-50°	1167.5	9.9
50°-60°	986.4	8.4
60°-70°	708.5	6.0
70°-80°	387.3	3.3
80°-90°	103.0	0.9
90°-100°	31.5	0.3
100°-110°	200.6	1.7
110°-120°	637.4	5.4
120°-130°	924.9	7.8
130°-140°	994.8	8.4
140°-150°	936.6	7.9
150°-160°	763.0	6.5
160°-170°	496.6	4.2
170°-180°	171.7	1.5
0°-30°	2091.4	17.7
0°-40°	3300.0	27.9
0°-60°	5453.9	46.2
0°-90°	6652.6	56.3
90°-120°	869.5	7.4
90°-150°	3725.8	31.5
90°-180°	5157.0	43.7
0°-180°	11809.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2818	2856	2822	2823	2842	268
15°	2674	2697	2656	2630	2634	754
25°	2403	2405	2335	2282	2270	1106
35°	2042	2019	1924	1850	1833	1276
45°	1636	1602	1505	1426	1405	1264
55°	1223	1178	1092	1024	1005	1094
65°	802	772	708	657	644	795
75°	415	389	360	332	323	444
85°	96	90	87	76	72	114
90°	0	0	0	1	1	7
95°	72	21	22	14	13	91
105°	377	391	39	46	48	397
115°	713	728	735	744	426	701
125°	1012	1030	1030	1048	1062	905
135°	1274	1289	1287	1295	1312	982
145°	1491	1502	1492	1494	1513	932
155°	1656	1666	1648	1644	1667	763
165°	1766	1771	1752	1745	1763	499
175°	1818	1822	1798	1787	1796	173
180°	1809	1809	1809	1809	1809	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2852.8	2852.8	2852.8	2852.8	2852.8
2.5°	2833.6	2867.8	2842.4	2846.0	2851.1
5°	2817.9	2856.3	2822.3	2822.7	2841.9
7.5°	2797.8	2834.1	2791.2	2783.3	2801.3
10°	2769.8	2806.1	2763.3	2748.3	2761.1
12.5°	2733.1	2767.7	2726.6	2702.8	2713.9
15°	2673.7	2697.2	2656.2	2630.1	2634.4
17.5°	2609.1	2623.6	2564.5	2542.6	2538.3
20°	2560.1	2572.9	2503.3	2472.7	2468.4
22.5°	2497.2	2508.3	2435.2	2397.5	2391.5
25°	2402.9	2405.0	2335.1	2282.4	2269.6
27.5°	2304.1	2297.3	2219.8	2157.4	2140.7
30°	2232.5	2223.9	2134.2	2068.3	2053.3
32.5°	2155.6	2140.2	2050.3	1979.2	1964.2
35°	2042.4	2018.9	1924.5	1849.8	1832.7
37.5°	1921.8	1895.4	1802.6	1721.3	1702.1
40°	1841.5	1811.6	1716.9	1635.7	1616.5
42.5°	1761.1	1727.8	1631.3	1550.0	1529.1
45°	1636.1	1601.9	1505.1	1425.9	1404.6
47.5°	1517.3	1473.7	1379.7	1301.0	1279.6
50°	1435.2	1388.2	1297.5	1220.6	1199.2
52.5°	1351.3	1302.6	1215.4	1142.0	1120.6
55°	1223.3	1178.4	1092.2	1024.1	1004.8
57.5°	1096.6	1053.4	974.7	909.6	890.8
60°	1009.2	972.9	897.8	836.2	819.2
62.5°	925.3	892.4	820.9	764.6	747.5
65°	801.7	771.8	707.7	657.2	644.4
67.5°	681.5	651.6	599.8	554.5	540.0
70°	602.9	573.0	526.4	484.6	471.8
72.5°	527.8	496.1	458.3	420.1	410.7
75°	415.0	389.4	360.4	331.8	323.3
77.5°	315.4	290.7	269.6	249.4	247.3
80°	249.0	227.7	211.9	198.7	196.6
82.5°	186.1	169.9	159.5	149.8	149.4
85°	96.1	89.7	87.4	76.4	72.1
87.5°	28.0	28.0	24.5	21.2	21.2
90°	0.0	0.0	0.0	1.3	1.3
92.5°	19.9	7.6	5.2	7.6	7.6
95°	71.9	20.8	22.2	14.4	13.1
97.5°	149.3	33.5	32.2	35.3	36.6
100°	207.9	68.6	35.3	40.6	41.8
102.5°	272.8	258.2	36.4	43.7	46.0
105°	376.6	390.7	39.2	45.8	48.4
107.5°	478.6	492.7	182.6	47.4	50.0
110°	546.6	560.7	578.0	48.4	51.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	610.5	627.6	640.8	107.8	53.1
115°	712.7	728.1	735.0	743.5	426.3
117.5°	803.0	821.9	829.7	844.4	858.7
120°	865.7	883.6	889.3	904.0	919.4
122.5°	927.5	943.3	946.8	963.6	978.0
125°	1012.2	1030.1	1030.5	1047.8	1061.9
127.5°	1097.0	1112.3	1111.6	1124.5	1140.1
130°	1153.5	1163.7	1163.9	1174.8	1191.4
132.5°	1200.5	1214.9	1215.2	1223.9	1240.6
135°	1273.8	1289.1	1286.8	1295.1	1311.7
137.5°	1342.6	1357.4	1353.3	1360.2	1377.3
140°	1387.5	1400.3	1394.1	1401.1	1420.2
142.5°	1429.4	1442.2	1432.8	1438.7	1458.9
145°	1490.9	1502.4	1492.2	1493.9	1513.1
147.5°	1545.5	1556.8	1544.5	1546.2	1564.1
150°	1581.1	1591.3	1575.9	1577.6	1595.5
152.5°	1612.5	1621.7	1605.2	1604.9	1625.8
155°	1655.6	1665.9	1647.8	1644.4	1667.4
157.5°	1694.9	1704.3	1686.2	1683.8	1701.7
160°	1721.0	1727.4	1709.3	1705.7	1723.6
162.5°	1738.8	1746.2	1728.1	1722.5	1740.4
165°	1765.5	1770.6	1752.4	1745.0	1762.9
167.5°	1788.5	1794.4	1771.0	1764.4	1783.5
170°	1802.1	1805.9	1782.5	1773.8	1793.0
172.5°	1810.5	1813.3	1789.8	1779.9	1793.0
175°	1817.8	1821.6	1798.2	1786.6	1795.6
177.5°	1819.1	1821.2	1803.4	1793.3	1808.6
180°	1808.6	1808.6	1808.6	1808.6	1808.6



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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	18.73	19.64	19.63	20.56	21.74	17.63	18.54	18.53	19.46	20.64
	3H	20.38	21.19	21.29	22.12	23.33	19.16	19.97	20.08	20.91	22.11
	4H	21.01	21.78	21.94	22.71	23.93	19.74	20.51	20.67	21.44	22.65
	6H	21.41	22.12	22.36	23.06	24.29	20.11	20.82	21.05	21.76	22.99
	8H	21.56	22.24	22.51	23.20	24.42	20.25	20.93	21.20	21.89	23.11
	12H	21.64	22.28	22.59	23.23	24.48	20.32	20.96	21.27	21.91	23.16
4H	2H	19.14	19.91	20.08	20.85	22.06	18.27	19.04	19.21	19.97	21.19
	3H	21.02	21.66	21.96	22.63	23.85	20.01	20.65	20.96	21.62	22.84
	4H	21.77	22.35	22.72	23.31	24.56	20.68	21.27	21.64	22.23	23.48
	6H	22.29	22.79	23.26	23.78	25.03	21.16	21.67	22.13	22.65	23.90
	8H	22.49	22.96	23.46	23.94	25.21	21.35	21.82	22.32	22.80	24.07
	12H	22.60	23.03	23.59	24.02	25.29	21.44	21.87	22.43	22.86	24.13
8H	4H	21.93	22.40	22.90	23.37	24.64	20.96	21.43	21.93	22.41	23.68
	6H	22.57	22.96	23.57	23.98	25.24	21.57	21.96	22.56	22.98	24.24
	8H	22.86	23.20	23.87	24.21	25.49	21.84	22.19	22.85	23.19	24.48
	12H	23.04	23.34	24.04	24.34	25.67	22.00	22.30	23.00	23.30	24.63
12H	4H	21.91	22.33	22.90	23.33	24.60	20.97	21.39	21.96	22.39	23.66
	6H	22.60	22.94	23.60	23.95	25.23	21.63	21.98	22.64	22.98	24.26
	8H	22.92	23.22	23.93	24.22	25.55	21.94	22.24	22.95	23.24	24.57