

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: P1438712

Luminaire Tested: CB2-085U-055D-830-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438712
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

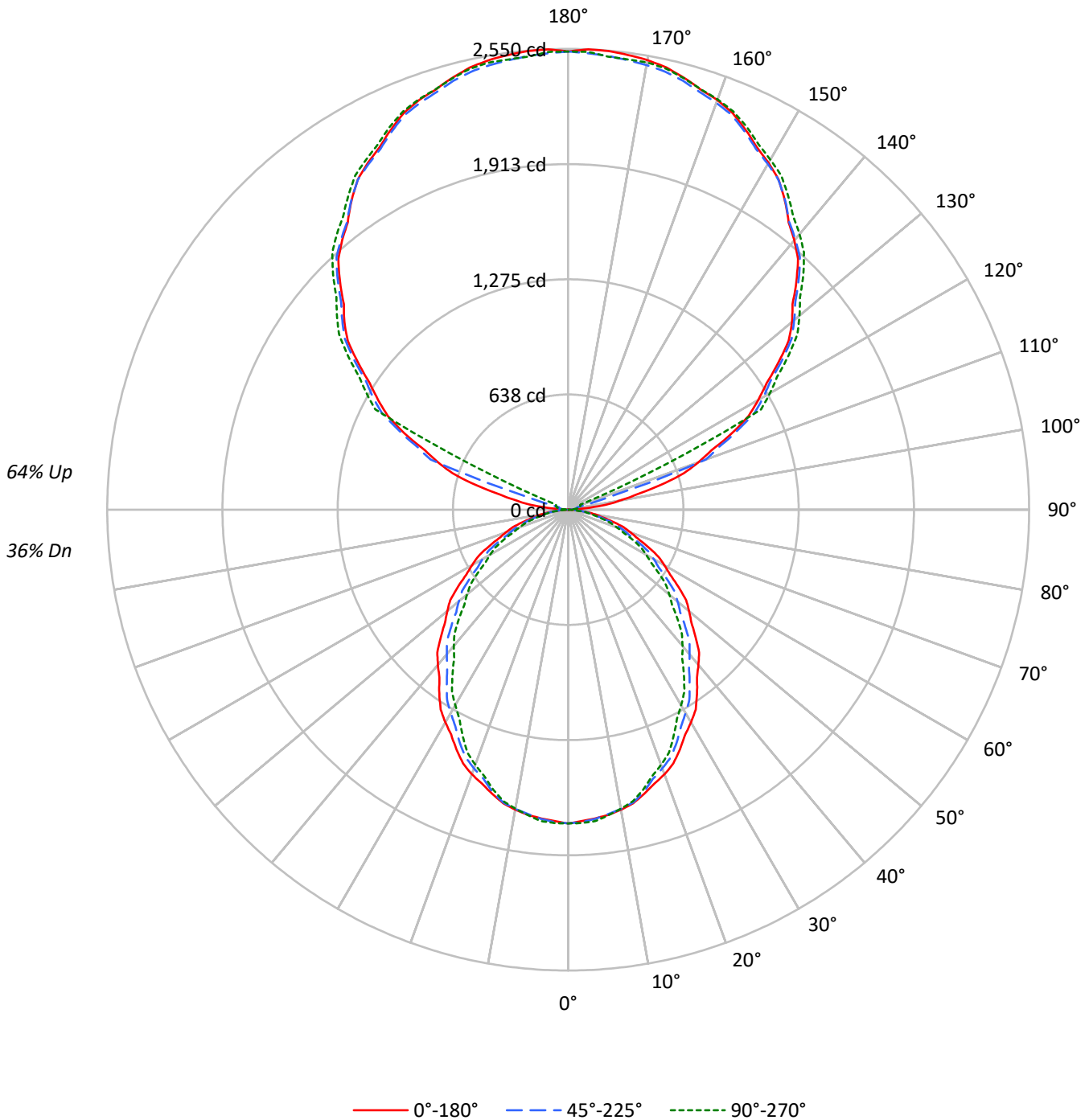
Lumens per Lamp: N/A
Luminaire Lumens: 11277.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1438712

CATALOG NUMBER: CB2-085U-055D-830-1D-UNV-STD-W-8

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	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°	15120	15120	15120
5°	14992	15015	15120
10°	14907	14871	14860
15°	14671	14575	14455
20°	14440	14119	13923
25°	14052	13656	13273
30°	13663	13062	12567
35°	13215	12451	11858
40°	12741	11879	11184
45°	12263	11281	10528
50°	11833	10699	9889
55°	11304	10092	9284
60°	10698	9517	8683
65°	10054	8875	8082
70°	9342	8158	7313
75°	8499	7382	6622
80°	7603	6470	5998
85°	5845	5316	4387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12263 cd/sqm



TEST NUMBER: P1438712

CATALOG NUMBER: CB2-085U-055D-830-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	1.4
10°-20°	455.1	4.0
20°-30°	654.4	5.8
30°-40°	735.5	6.5
40°-50°	710.5	6.3
50°-60°	600.3	5.3
60°-70°	431.2	3.8
70°-80°	235.7	2.1
80°-90°	62.7	0.6
90°-100°	44.2	0.4
100°-110°	281.2	2.5
110°-120°	893.4	7.9
120°-130°	1296.5	11.5
130°-140°	1394.4	12.4
140°-150°	1312.8	11.6
150°-160°	1069.5	9.5
160°-170°	696.1	6.2
170°-180°	240.6	2.1
0°-30°	1272.8	11.3
0°-40°	2008.4	17.8
0°-60°	3319.2	29.4
0°-90°	4048.9	35.9
90°-120°	1218.8	10.8
90°-150°	5222.6	46.3
90°-180°	7229.0	64.1
0°-180°	11277.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1715	1738	1718	1718	1730	163
15°	1627	1642	1617	1601	1603	459
25°	1462	1464	1421	1389	1381	673
35°	1243	1229	1171	1126	1115	776
45°	996	975	916	868	855	769
55°	744	717	665	623	612	666
65°	488	470	431	400	392	484
75°	253	237	219	202	197	270
85°	58	55	53	46	44	70
90°	0	0	0	2	2	6
95°	101	29	31	20	18	128
105°	528	548	55	64	68	556
115°	999	1021	1030	1042	598	982
125°	1419	1444	1444	1469	1488	1268
135°	1786	1807	1804	1815	1839	1377
145°	2090	2106	2092	2094	2121	1306
155°	2321	2335	2310	2305	2337	1070
165°	2475	2482	2456	2446	2471	699
175°	2548	2553	2521	2504	2517	242
180°	2535	2535	2535	2535	2535	

TEST NUMBER: P1438712

CATALOG NUMBER: CB2-085U-055D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.2	1736.2	1736.2	1736.2	1736.2
2.5°	1724.5	1745.3	1729.9	1732.1	1735.2
5°	1715.0	1738.4	1717.6	1717.9	1729.6
7.5°	1702.7	1724.8	1698.7	1693.9	1704.9
10°	1685.7	1707.8	1681.7	1672.6	1680.4
12.5°	1663.4	1684.4	1659.4	1644.9	1651.7
15°	1627.2	1641.5	1616.6	1600.7	1603.3
17.5°	1587.9	1596.7	1560.8	1547.4	1544.8
20°	1558.1	1565.9	1523.5	1504.9	1502.3
22.5°	1519.8	1526.6	1482.1	1459.1	1455.5
25°	1462.4	1463.7	1421.2	1389.1	1381.3
27.5°	1402.3	1398.1	1351.0	1313.0	1302.8
30°	1358.7	1353.5	1298.9	1258.8	1249.7
32.5°	1311.9	1302.5	1247.8	1204.5	1195.4
35°	1243.0	1228.7	1171.2	1125.8	1115.4
37.5°	1169.6	1153.5	1097.0	1047.6	1035.9
40°	1120.7	1102.5	1044.9	995.5	983.8
42.5°	1071.8	1051.5	992.8	943.3	930.6
45°	995.7	974.9	916.0	867.8	854.8
47.5°	923.4	896.9	839.7	791.8	778.8
50°	873.4	844.8	789.7	742.9	729.9
52.5°	822.4	792.7	739.7	695.0	682.0
55°	744.5	717.2	664.7	623.2	611.5
57.5°	667.4	641.1	593.2	553.6	542.1
60°	614.2	592.1	546.4	508.9	498.5
62.5°	563.1	543.1	499.6	465.3	454.9
65°	487.9	469.7	430.7	400.0	392.2
67.5°	414.8	396.6	365.1	337.5	328.6
70°	366.9	348.7	320.4	295.0	287.2
72.5°	321.2	302.0	278.9	255.7	249.9
75°	252.6	237.0	219.4	202.0	196.8
77.5°	192.0	176.9	164.1	151.8	150.5
80°	151.6	138.6	129.0	120.9	119.6
82.5°	113.3	103.4	97.0	91.2	90.9
85°	58.5	54.6	53.2	46.5	43.9
87.5°	17.0	17.0	14.9	13.1	13.1
90°	0.0	0.0	0.0	1.8	1.8
92.5°	27.9	10.7	7.3	10.6	10.6
95°	100.8	29.1	31.2	20.1	18.3
97.5°	209.3	47.0	45.1	49.5	51.3
100°	291.5	96.1	49.5	56.9	58.7
102.5°	382.4	362.0	51.0	61.3	64.5
105°	527.9	547.7	55.0	64.2	67.8
107.5°	670.9	690.6	255.9	66.4	70.0
110°	766.3	786.0	810.2	67.9	71.5

TEST NUMBER: P1438712

CATALOG NUMBER: CB2-085U-055D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	855.7	879.7	898.2	151.1	74.4
115°	999.1	1020.6	1030.2	1042.1	597.6
117.5°	1125.5	1152.1	1162.9	1183.6	1203.6
120°	1213.5	1238.6	1246.5	1267.2	1288.7
122.5°	1300.1	1322.3	1327.2	1350.7	1370.8
125°	1418.8	1443.9	1444.5	1468.8	1488.5
127.5°	1537.6	1559.1	1558.2	1576.3	1598.1
130°	1616.8	1631.2	1631.5	1646.7	1670.0
132.5°	1682.8	1702.9	1703.4	1715.6	1738.9
135°	1785.5	1807.0	1803.8	1815.3	1838.6
137.5°	1881.9	1902.7	1896.9	1906.6	1930.7
140°	1945.0	1962.9	1954.1	1963.9	1990.8
142.5°	2003.6	2021.5	2008.4	2016.7	2045.1
145°	2089.8	2105.9	2091.6	2094.1	2120.9
147.5°	2166.4	2182.2	2164.9	2167.3	2192.4
150°	2216.3	2230.6	2208.9	2211.3	2236.4
152.5°	2260.3	2273.2	2250.0	2249.6	2279.0
155°	2320.8	2335.1	2309.8	2305.0	2337.3
157.5°	2375.7	2389.0	2363.7	2360.2	2385.3
160°	2412.4	2421.4	2395.9	2391.0	2416.1
162.5°	2437.3	2447.7	2422.3	2414.4	2439.5
165°	2474.7	2481.9	2456.4	2446.0	2471.1
167.5°	2507.0	2515.2	2482.4	2473.1	2500.0
170°	2526.1	2531.4	2498.6	2486.3	2513.2
172.5°	2537.8	2541.7	2508.8	2495.0	2513.2
175°	2548.1	2553.4	2520.6	2504.4	2516.9
177.5°	2549.9	2552.8	2527.9	2513.7	2535.2
180°	2535.2	2535.2	2535.2	2535.2	2535.2

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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	14.97	15.71	16.04	16.78	18.24	13.87	14.61	14.94	15.68	17.14
	3H	16.60	17.27	17.69	18.35	19.82	15.39	16.05	16.47	17.13	18.61
	4H	17.23	17.86	18.32	18.94	20.42	15.96	16.58	17.05	17.67	19.15
	6H	17.62	18.20	18.72	19.29	20.78	16.32	16.90	17.42	17.98	19.48
	8H	17.77	18.32	18.87	19.42	20.91	16.46	17.01	17.56	18.11	19.60
	12H	17.84	18.36	18.95	19.46	20.97	16.52	17.04	17.62	18.13	19.65
4H	2H	15.36	15.99	16.46	17.07	18.56	14.49	15.12	15.59	16.20	17.68
	3H	17.22	17.74	18.33	18.85	20.35	16.21	16.74	17.32	17.84	19.34
	4H	17.96	18.44	19.07	19.54	21.06	16.88	17.36	17.99	18.46	19.98
	6H	18.48	18.89	19.59	20.01	21.52	17.35	17.76	18.47	18.88	20.39
	8H	18.68	19.06	19.79	20.18	21.70	17.54	17.92	18.65	19.03	20.56
	12H	18.78	19.13	19.91	20.25	21.78	17.62	17.97	18.75	19.09	20.62
8H	4H	18.11	18.49	19.23	19.61	21.13	17.15	17.53	18.26	18.64	20.17
	6H	18.75	19.06	19.88	20.22	21.74	17.74	18.06	18.88	19.22	20.74
	8H	19.04	19.31	20.18	20.45	21.99	18.02	18.30	19.16	19.43	20.98
	12H	19.20	19.45	20.35	20.58	22.16	18.16	18.41	19.31	19.54	21.12
12H	4H	18.08	18.43	19.22	19.56	21.09	17.14	17.49	18.28	18.62	20.15
	6H	18.77	19.05	19.92	20.19	21.73	17.81	18.08	18.95	19.22	20.76
	8H	19.09	19.33	20.23	20.46	22.04	18.11	18.35	19.26	19.48	21.06