

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: P1438922

Luminaire Tested: CB2-B-085U-055D-927-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438922
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-1, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-B-085U-055D-927-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

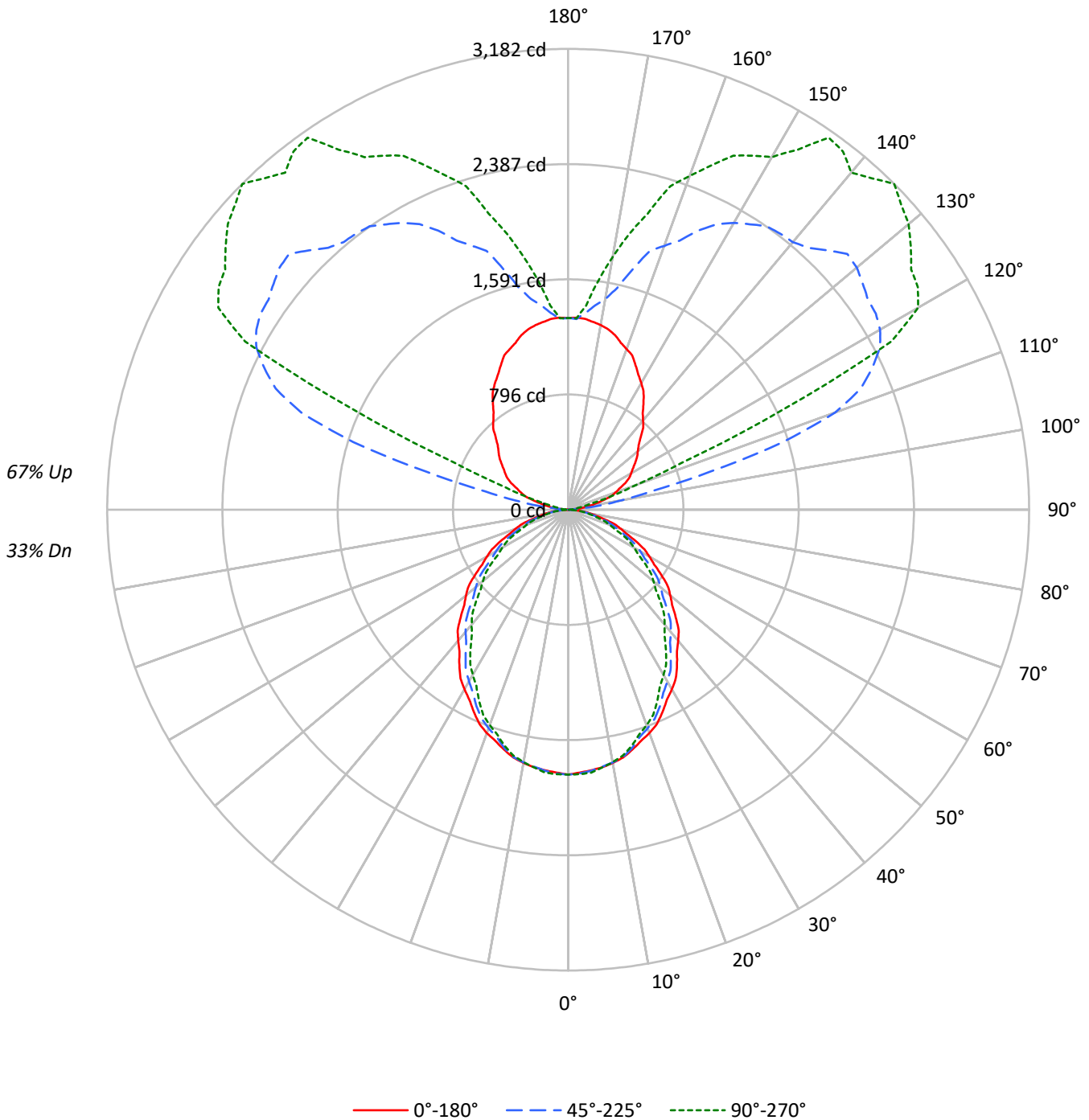
Lumens per Lamp: N/A
Luminaire Lumens: 12957.7 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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: P1438922

CATALOG NUMBER: CB2-B-085U-055D-927-1D-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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	39	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	42	39	36	34	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	35	31	29	25	23	22	17
5	66	54	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15930	15930	15930
5°	15795	15819	15930
10°	15705	15668	15656
15°	15456	15355	15229
20°	15213	14875	14668
25°	14805	14387	13983
30°	14394	13761	13240
35°	13923	13118	12493
40°	13423	12515	11782
45°	12921	11885	11092
50°	12467	11272	10417
55°	11908	10633	9782
60°	11271	10025	9148
65°	10592	9351	8515
70°	9844	8594	7702
75°	8954	7776	6975
80°	8009	6816	6324
85°	6155	5596	4616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12921 cd/sqm



TEST NUMBER: P1438922

CATALOG NUMBER: CB2-B-085U-055D-927-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.3
10°-20°	479.5	3.7
20°-30°	689.4	5.3
30°-40°	774.9	6.0
40°-50°	748.6	5.8
50°-60°	632.5	4.9
60°-70°	454.3	3.5
70°-80°	248.3	1.9
80°-90°	65.9	0.5
90°-100°	99.1	0.8
100°-110°	613.8	4.7
110°-120°	1547.9	11.9
120°-130°	1860.8	14.4
130°-140°	1687.1	13.0
140°-150°	1345.3	10.4
150°-160°	917.7	7.1
160°-170°	485.3	3.7
170°-180°	135.1	1.0
0°-30°	1341.0	10.3
0°-40°	2115.9	16.3
0°-60°	3496.9	27.0
0°-90°	4265.5	32.9
90°-120°	2260.9	17.4
90°-150°	7154.1	55.2
90°-180°	8692.0	67.1
0°-180°	12957.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1807	1831	1810	1810	1822	172
15°	1714	1729	1703	1686	1689	483
25°	1541	1542	1497	1463	1455	709
35°	1310	1294	1234	1186	1175	818
45°	1049	1027	965	914	901	811
55°	784	756	700	657	644	701
65°	514	495	454	421	413	510
75°	266	250	231	213	207	285
85°	62	58	56	49	46	73
90°	0	0	0	0	0	4
95°	51	129	40	28	28	65
105°	251	702	1015	255	171	264
115°	433	957	2315	2155	1642	425
125°	564	1161	2526	2874	2891	505
135°	707	1287	2532	2964	3182	550
145°	907	1353	2389	2880	3136	567
155°	1100	1379	2127	2563	2697	506
165°	1249	1366	1716	2021	2115	350
175°	1323	1340	1363	1386	1414	125
180°	1323	1323	1323	1323	1323	

TEST NUMBER: P1438922

CATALOG NUMBER: CB2-B-085U-055D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1829.2	1829.2	1829.2	1829.2	1829.2
2.5°	1816.9	1838.8	1822.5	1824.8	1828.1
5°	1806.8	1831.4	1809.6	1809.9	1822.2
7.5°	1793.9	1817.2	1789.7	1784.6	1796.1
10°	1776.0	1799.3	1771.8	1762.2	1770.4
12.5°	1752.4	1774.6	1748.2	1733.0	1740.1
15°	1714.3	1729.4	1703.1	1686.4	1689.1
17.5°	1672.9	1682.2	1644.3	1630.2	1627.5
20°	1641.5	1649.7	1605.1	1585.4	1582.7
22.5°	1601.2	1608.3	1561.4	1537.2	1533.4
25°	1540.7	1542.0	1497.2	1463.4	1455.2
27.5°	1477.4	1473.0	1423.3	1383.3	1372.6
30°	1431.4	1425.9	1368.4	1326.2	1316.6
32.5°	1382.1	1372.3	1314.6	1269.0	1259.4
35°	1309.6	1294.5	1233.9	1186.1	1175.1
37.5°	1232.3	1215.3	1155.8	1103.7	1091.4
40°	1180.7	1161.5	1100.9	1048.8	1036.4
42.5°	1129.2	1107.8	1046.0	993.8	980.4
45°	1049.1	1027.1	965.0	914.3	900.6
47.5°	972.9	944.9	884.6	834.2	820.5
50°	920.2	890.1	832.0	782.6	768.9
52.5°	866.4	835.2	779.3	732.2	718.5
55°	784.3	755.6	700.3	656.6	644.3
57.5°	703.1	675.4	625.0	583.2	571.2
60°	647.1	623.8	575.6	536.2	525.2
62.5°	593.3	572.2	526.3	490.2	479.3
65°	514.0	494.8	453.8	421.4	413.2
67.5°	437.0	417.8	384.6	355.5	346.2
70°	386.6	367.4	337.5	310.7	302.5
72.5°	338.4	318.1	293.8	269.3	263.3
75°	266.1	249.7	231.1	212.8	207.3
77.5°	202.2	186.4	172.8	159.9	158.5
80°	159.7	146.0	135.9	127.4	126.1
82.5°	119.3	108.9	102.2	96.1	95.8
85°	61.6	57.5	56.0	49.0	46.2
87.5°	17.9	17.9	15.7	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	22.6	9.1	9.1	9.1
95°	51.3	129.4	39.9	28.5	28.5
97.5°	107.2	310.1	215.5	58.0	50.2
100°	148.3	449.3	370.6	85.2	68.4
102.5°	189.3	570.7	585.0	135.0	104.9
105°	250.9	702.5	1015.0	254.7	171.1
107.5°	311.3	788.6	1555.5	525.5	317.0
110°	347.8	838.5	1961.5	819.3	490.4



TEST NUMBER: P1438922

CATALOG NUMBER: CB2-B-085U-055D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	888.3	2185.0	1313.4	846.2
115°	433.4	957.4	2315.0	2155.1	1642.2
117.5°	474.4	1020.8	2426.8	2665.1	2514.6
120°	501.8	1070.5	2486.1	2738.1	2788.3
122.5°	529.1	1106.7	2518.0	2766.5	2861.3
125°	564.5	1161.1	2526.0	2874.2	2890.9
127.5°	599.9	1202.0	2563.6	2973.2	2981.0
130°	627.2	1229.4	2600.1	3006.4	3067.7
132.5°	659.2	1252.4	2613.8	3025.3	3117.9
135°	707.1	1286.9	2531.7	2964.3	3181.7
137.5°	767.5	1311.6	2453.0	2962.5	3103.0
140°	804.0	1316.9	2412.0	3028.0	3039.2
142.5°	845.0	1331.2	2402.8	3020.8	3116.7
145°	906.6	1352.6	2389.1	2879.6	3136.1
147.5°	968.2	1366.3	2336.7	2723.8	2947.9
150°	1009.3	1371.7	2286.5	2671.7	2811.1
152.5°	1050.3	1377.0	2222.6	2639.3	2756.4
155°	1100.5	1379.3	2126.9	2563.2	2697.1
157.5°	1152.9	1372.6	2011.7	2424.4	2570.5
160°	1180.3	1364.3	1938.7	2323.6	2451.9
162.5°	1207.7	1360.5	1874.8	2191.9	2342.4
165°	1248.7	1365.8	1716.3	2020.7	2115.4
167.5°	1276.1	1360.9	1568.1	1817.4	1951.2
170°	1294.4	1361.3	1476.8	1661.8	1773.3
172.5°	1308.0	1339.3	1422.1	1519.6	1595.4
175°	1322.9	1339.6	1362.8	1386.2	1414.1
177.5°	1327.4	1336.4	1318.3	1313.9	1322.9
180°	1322.9	1322.9	1322.9	1322.9	1322.9



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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	14.78	15.50	15.88	16.59	18.09	13.69	14.40	14.78	15.49	16.99
	3H	16.42	17.06	17.52	18.16	19.68	15.20	15.85	16.30	16.94	18.46
	4H	17.04	17.65	18.15	18.75	20.27	15.77	16.38	16.88	17.48	19.00
	6H	17.44	18.00	18.56	19.10	20.63	16.13	16.69	17.25	17.80	19.33
	8H	17.58	18.12	18.70	19.23	20.76	16.27	16.80	17.39	17.92	19.45
	12H	17.65	18.16	18.78	19.27	20.82	16.33	16.83	17.46	17.95	19.49
4H	2H	15.18	15.79	16.30	16.89	18.41	14.30	14.91	15.42	16.01	17.53
	3H	17.03	17.54	18.16	18.67	20.20	16.02	16.53	17.15	17.66	19.19
	4H	17.77	18.24	18.90	19.36	20.91	16.69	17.16	17.82	18.28	19.83
	6H	18.28	18.69	19.42	19.82	21.37	17.16	17.56	18.29	18.70	20.24
	8H	18.49	18.86	19.62	19.99	21.55	17.35	17.72	18.48	18.85	20.41
	12H	18.59	18.92	19.74	20.07	21.63	17.43	17.77	18.58	18.91	20.47
8H	4H	17.92	18.29	19.05	19.42	20.98	16.95	17.33	18.09	18.46	20.02
	6H	18.55	18.86	19.71	20.04	21.59	17.55	17.86	18.71	19.03	20.59
	8H	18.84	19.11	20.01	20.27	21.84	17.83	18.10	18.99	19.25	20.83
	12H	19.01	19.25	20.18	20.40	22.01	17.97	18.21	19.14	19.36	20.97
12H	4H	17.89	18.23	19.04	19.37	20.94	16.95	17.29	18.10	18.43	20.00
	6H	18.58	18.85	19.74	20.00	21.58	17.61	17.88	18.78	19.04	20.61
	8H	18.89	19.13	20.06	20.28	21.89	17.91	18.15	19.08	19.30	20.91