

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: P1438930

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

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438930  
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-085D-927-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

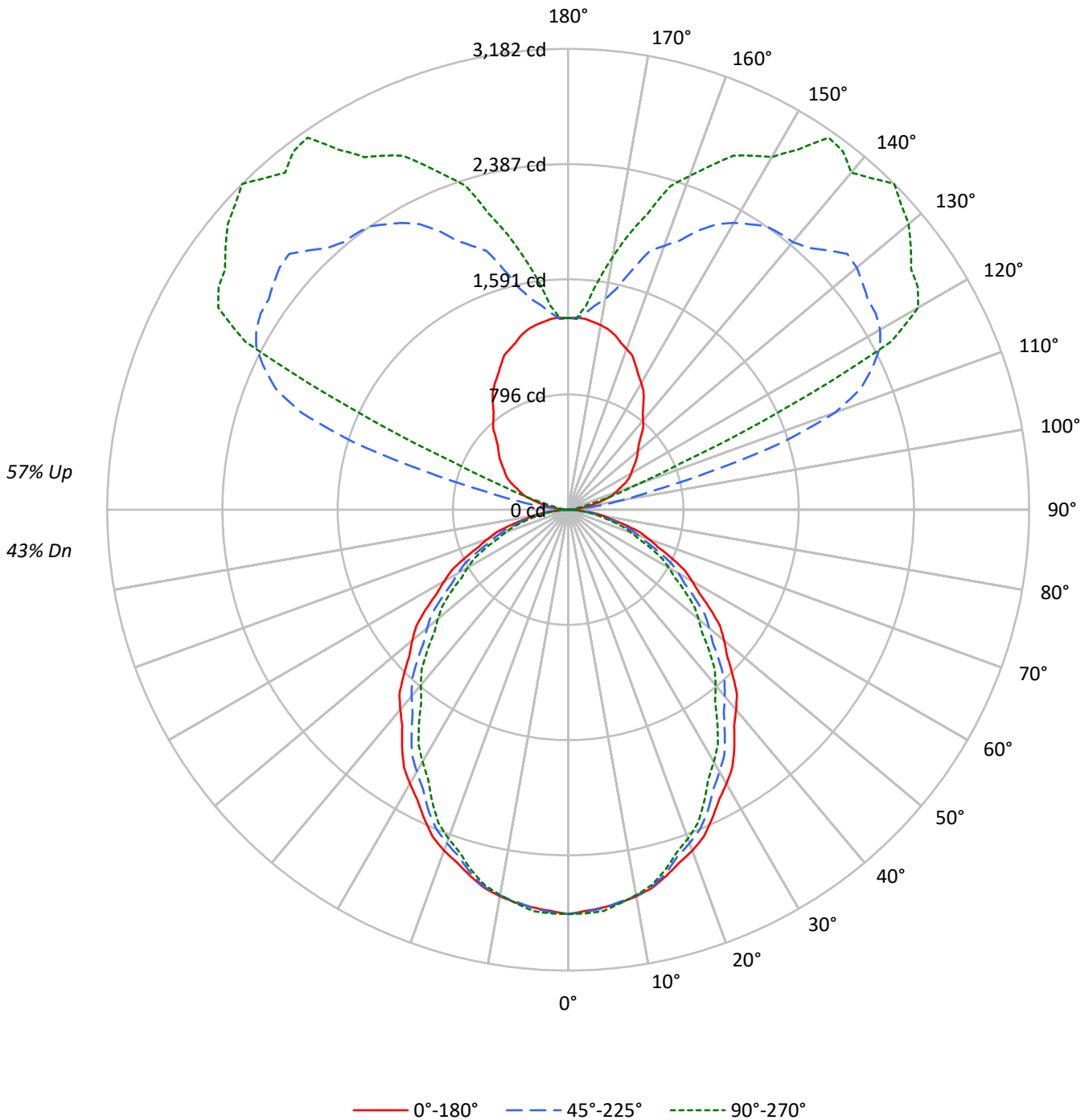
Lumens per Lamp: N/A  
Luminaire Lumens: 15203.0 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 113.4  
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	26	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	12

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

	0°	45°	90°
0°	24315	24315	24315
5°	24109	24146	24314
10°	23972	23915	23896
15°	23592	23438	23246
20°	23221	22706	22389
25°	22596	21960	21343
30°	21971	21004	20208
35°	21251	20023	19069
40°	20488	19103	17985
45°	19721	18141	16929
50°	19030	17205	15902
55°	18177	16229	14931
60°	17203	15305	13963
65°	16168	14274	12996
70°	15023	13118	11759
75°	13668	11868	10646
80°	12222	10401	9649
85°	9403	8543	7044

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19721 cd/sqm



TEST NUMBER: P1438930

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.6	1.7
10°-20°	731.9	4.8
20°-30°	1052.4	6.9
30°-40°	1182.8	7.8
40°-50°	1142.6	7.5
50°-60°	965.4	6.4
60°-70°	693.4	4.6
70°-80°	379.0	2.5
80°-90°	100.7	0.7
90°-100°	99.1	0.7
100°-110°	613.8	4.0
110°-120°	1547.9	10.2
120°-130°	1860.8	12.2
130°-140°	1687.1	11.1
140°-150°	1345.3	8.8
150°-160°	917.7	6.0
160°-170°	485.3	3.2
170°-180°	135.1	0.9
0°-30°	2046.8	13.5
0°-40°	3229.6	21.2
0°-60°	5337.6	35.1
0°-90°	6510.7	42.8
90°-120°	2260.9	14.9
90°-150°	7154.1	47.1
90°-180°	8692.0	57.2
0°-180°	15203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2792	2792	2792	2792	2792	
5°	2758	2796	2762	2762	2781	262
15°	2617	2640	2600	2574	2578	738
25°	2352	2354	2285	2234	2221	1083
35°	1999	1976	1883	1810	1794	1249
45°	1601	1568	1473	1396	1375	1237
55°	1197	1153	1069	1002	983	1070
65°	785	755	693	643	631	778
75°	406	381	353	325	316	434
85°	94	88	86	75	70	112
90°	0	0	0	0	0	6
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: P1438930

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2792.0	2792.0	2792.0	2792.0	2792.0
2.5°	2773.2	2806.7	2781.8	2785.3	2790.3
5°	2757.8	2795.5	2762.1	2762.5	2781.3
7.5°	2738.2	2773.7	2731.7	2724.0	2741.6
10°	2710.8	2746.3	2704.4	2689.7	2702.2
12.5°	2674.9	2708.7	2668.5	2645.2	2656.1
15°	2616.7	2639.7	2599.6	2574.1	2578.3
17.5°	2553.5	2567.7	2509.8	2488.4	2484.2
20°	2505.6	2518.1	2450.0	2420.0	2415.8
22.5°	2444.0	2454.9	2383.3	2346.4	2340.5
25°	2351.6	2353.7	2285.4	2233.8	2221.2
27.5°	2255.0	2248.3	2172.5	2111.4	2095.1
30°	2184.9	2176.5	2088.7	2024.2	2009.6
32.5°	2109.6	2094.6	2006.6	1937.0	1922.4
35°	1998.9	1975.9	1883.4	1810.4	1793.7
37.5°	1880.9	1855.0	1764.2	1684.6	1665.8
40°	1802.2	1772.9	1680.4	1600.8	1582.0
42.5°	1723.5	1690.9	1596.5	1517.0	1496.5
45°	1601.3	1567.8	1473.0	1395.5	1374.6
47.5°	1485.0	1442.3	1350.3	1273.3	1252.4
50°	1404.6	1358.6	1269.9	1194.6	1173.7
52.5°	1322.5	1274.8	1189.5	1117.6	1096.7
55°	1197.2	1153.3	1068.9	1002.2	983.4
57.5°	1073.2	1031.0	953.9	890.2	871.8
60°	987.7	952.2	878.7	818.4	801.7
62.5°	905.6	873.4	803.4	748.3	731.6
65°	784.6	755.3	692.7	643.2	630.7
67.5°	667.0	637.7	587.1	542.7	528.5
70°	590.0	560.8	515.2	474.3	461.8
72.5°	516.5	485.6	448.5	411.1	401.9
75°	406.2	381.1	352.7	324.8	316.4
77.5°	308.7	284.5	263.8	244.1	242.0
80°	243.7	222.8	207.4	194.5	192.4
82.5°	182.1	166.3	156.1	146.6	146.2
85°	94.1	87.8	85.5	74.7	70.5
87.5°	27.4	27.4	23.9	20.5	20.5
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: P1438930

CATALOG NUMBER: CB2-B-085U-085D-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	17.38	18.18	18.40	19.20	20.57	16.28	17.08	17.30	18.10	19.47
	3H	19.02	19.73	20.05	20.77	22.16	17.81	18.52	18.84	19.55	20.94
	4H	19.65	20.32	20.69	21.36	22.76	18.38	19.05	19.42	20.09	21.48
	6H	20.05	20.67	21.10	21.71	23.12	18.75	19.36	19.80	20.40	21.81
	8H	20.19	20.78	21.25	21.84	23.25	18.88	19.47	19.94	20.53	21.93
	12H	20.27	20.82	21.33	21.88	23.31	18.94	19.50	20.00	20.55	21.98
4H	2H	17.79	18.46	18.83	19.49	20.89	16.91	17.58	17.96	18.62	20.02
	3H	19.65	20.21	20.70	21.27	22.68	18.64	19.20	19.69	20.26	21.68
	4H	20.39	20.90	21.45	21.96	23.39	19.31	19.82	20.37	20.88	22.31
	6H	20.91	21.35	21.98	22.43	23.85	19.78	20.22	20.85	21.30	22.73
	8H	21.11	21.52	22.18	22.59	24.04	19.97	20.38	21.04	21.45	22.90
	12H	21.21	21.58	22.30	22.67	24.12	20.05	20.43	21.14	21.51	22.96
8H	4H	20.54	20.95	21.61	22.02	23.47	19.58	19.99	20.65	21.06	22.50
	6H	21.18	21.52	22.28	22.63	24.08	20.18	20.52	21.27	21.63	23.07
	8H	21.47	21.77	22.57	22.87	24.33	20.45	20.75	21.56	21.85	23.31
	12H	21.64	21.90	22.75	23.00	24.50	20.60	20.86	21.71	21.95	23.45
12H	4H	20.52	20.89	21.61	21.98	23.42	19.58	19.95	20.67	21.04	22.48
	6H	21.21	21.51	22.31	22.60	24.06	20.24	20.54	21.34	21.64	23.10
	8H	21.52	21.78	22.63	22.88	24.38	20.54	20.81	21.65	21.90	23.40