

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: P1438914

Luminaire Tested: CB2-B-085U-030D-927-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438914  
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-030D-927-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

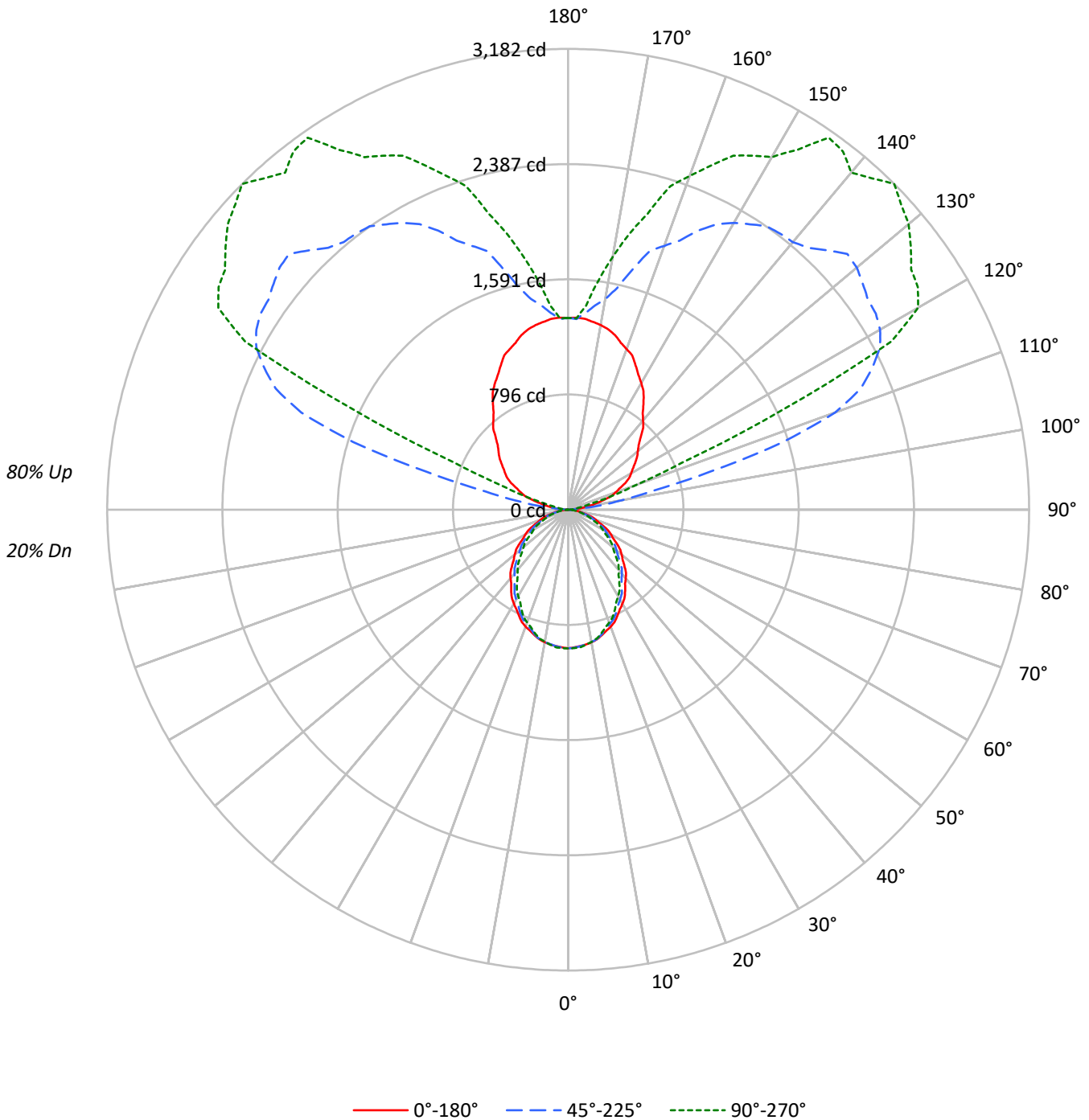
Lumens per Lamp: N/A  
Luminaire Lumens: 10925.1 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 76  
Input Voltage (V): 120  
Input Current (Ain): 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	50	30	10	0	
RCR																						
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	20				
1	91	87	83	80	81	77	74	71	59	57	55	41	40	39	26	25	25	17				
2	83	76	70	65	73	68	63	59	51	48	45	36	34	33	23	22	21	15				
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	13				
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	11				
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	9				
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	8				
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	7				
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	7				
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8	6				
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5				

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

	0°	45°	90°
0°	8339	8339	8339
5°	8268	8280	8338
10°	8220	8202	8195
15°	8091	8038	7972
20°	7964	7787	7678
25°	7750	7531	7320
30°	7535	7203	6931
35°	7288	6867	6539
40°	7027	6552	6167
45°	6763	6221	5806
50°	6526	5900	5453
55°	6234	5566	5121
60°	5899	5248	4788
65°	5545	4894	4457
70°	5154	4499	4033
75°	4687	4071	3651
80°	4193	3566	3310
85°	3227	2928	2418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6763 cd/sqm



TEST NUMBER: P1438914

CATALOG NUMBER: CB2-B-085U-030D-927-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	0.8
10°-20°	251.0	2.3
20°-30°	360.9	3.3
30°-40°	405.6	3.7
40°-50°	391.8	3.6
50°-60°	331.1	3.0
60°-70°	237.8	2.2
70°-80°	130.0	1.2
80°-90°	34.5	0.3
90°-100°	99.1	0.9
100°-110°	613.8	5.6
110°-120°	1547.9	14.2
120°-130°	1860.8	17.0
130°-140°	1687.1	15.4
140°-150°	1345.3	12.3
150°-160°	917.7	8.4
160°-170°	485.3	4.4
170°-180°	135.1	1.2
0°-30°	701.9	6.4
0°-40°	1107.6	10.1
0°-60°	1830.5	16.8
0°-90°	2232.8	20.4
90°-120°	2260.9	20.7
90°-150°	7154.1	65.5
90°-180°	8692.0	79.6
0°-180°	10925.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	946	959	947	947	954	90
15°	897	905	892	883	884	253
25°	806	807	784	766	762	371
35°	686	678	646	621	615	428
45°	549	538	505	479	471	424
55°	411	396	367	344	337	367
65°	269	259	238	221	216	267
75°	139	131	121	111	108	149
85°	32	30	29	26	24	38
90°	0	0	0	0	0	3
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: P1438914

CATALOG NUMBER: CB2-B-085U-030D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	957.5	957.5	957.5	957.5	957.5
2.5°	951.1	962.5	954.0	955.2	956.9
5°	945.8	958.7	947.2	947.4	953.8
7.5°	939.0	951.2	936.8	934.2	940.2
10°	929.6	941.8	927.5	922.4	926.7
12.5°	917.3	928.9	915.1	907.2	910.9
15°	897.4	905.3	891.5	882.8	884.2
17.5°	875.7	880.6	860.7	853.4	851.9
20°	859.3	863.6	840.2	829.9	828.5
22.5°	838.2	841.9	817.3	804.7	802.7
25°	806.5	807.2	783.8	766.1	761.8
27.5°	773.3	771.0	745.0	724.1	718.5
30°	749.3	746.4	716.3	694.2	689.2
32.5°	723.5	718.3	688.1	664.3	659.3
35°	685.5	677.6	645.9	620.9	615.1
37.5°	645.0	636.1	605.0	577.7	571.3
40°	618.1	608.0	576.3	549.0	542.5
42.5°	591.1	579.9	547.5	520.2	513.2
45°	549.1	537.7	505.1	478.6	471.4
47.5°	509.3	494.6	463.1	436.7	429.5
50°	481.7	465.9	435.5	409.7	402.5
52.5°	453.5	437.2	407.9	383.3	376.1
55°	410.6	395.5	366.6	343.7	337.3
57.5°	368.0	353.6	327.1	305.3	299.0
60°	338.7	326.5	301.3	280.7	274.9
62.5°	310.6	299.5	275.5	256.6	250.9
65°	269.1	259.0	237.5	220.6	216.3
67.5°	228.7	218.7	201.3	186.1	181.2
70°	202.4	192.3	176.7	162.7	158.4
72.5°	177.1	166.5	153.8	141.0	137.8
75°	139.3	130.7	121.0	111.4	108.5
77.5°	105.9	97.6	90.5	83.7	83.0
80°	83.6	76.4	71.1	66.7	66.0
82.5°	62.5	57.0	53.5	50.3	50.1
85°	32.3	30.1	29.3	25.6	24.2
87.5°	9.4	9.4	8.2	7.0	7.0
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: P1438914

CATALOG NUMBER: CB2-B-085U-030D-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	10.63	11.27	11.80	12.43	14.07	9.53	10.17	10.70	11.33	12.97
	3H	12.25	12.83	13.44	14.00	15.65	11.04	11.61	12.22	12.78	14.43
	4H	12.87	13.42	14.06	14.58	16.24	11.60	12.15	12.79	13.31	14.97
	6H	13.26	13.77	14.46	14.93	16.60	11.96	12.46	13.16	13.63	15.30
	8H	13.41	13.88	14.61	15.07	16.73	12.09	12.57	13.29	13.75	15.41
	12H	13.47	13.92	14.68	15.10	16.78	12.15	12.60	13.35	13.78	15.46
4H	2H	11.01	11.55	12.21	12.72	14.38	10.13	10.68	11.33	11.85	13.50
	3H	12.86	13.31	14.06	14.50	16.17	11.85	12.30	13.05	13.50	15.16
	4H	13.59	14.01	14.80	15.19	16.88	12.51	12.93	13.72	14.11	15.80
	6H	14.10	14.46	15.31	15.66	17.34	12.98	13.33	14.18	14.54	16.21
	8H	14.30	14.64	15.51	15.83	17.52	13.16	13.49	14.37	14.69	16.38
	12H	14.40	14.70	15.62	15.90	17.60	13.24	13.54	14.46	14.74	16.44
8H	4H	13.73	14.07	14.94	15.26	16.95	12.77	13.10	13.97	14.30	15.99
	6H	14.37	14.64	15.59	15.88	17.57	13.36	13.64	14.59	14.88	16.57
	8H	14.65	14.89	15.88	16.11	17.82	13.64	13.88	14.87	15.09	16.80
	12H	14.82	15.03	16.05	16.24	17.98	13.78	13.99	15.01	15.20	16.94
12H	4H	13.70	14.01	14.92	15.21	16.91	12.76	13.07	13.98	14.27	15.97
	6H	14.39	14.63	15.62	15.84	17.55	13.43	13.67	14.65	14.88	16.59
	8H	14.70	14.91	15.93	16.12	17.86	13.72	13.93	14.95	15.14	16.88