

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: P1438920

Luminaire Tested: CB2-B-085U-030D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438920  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

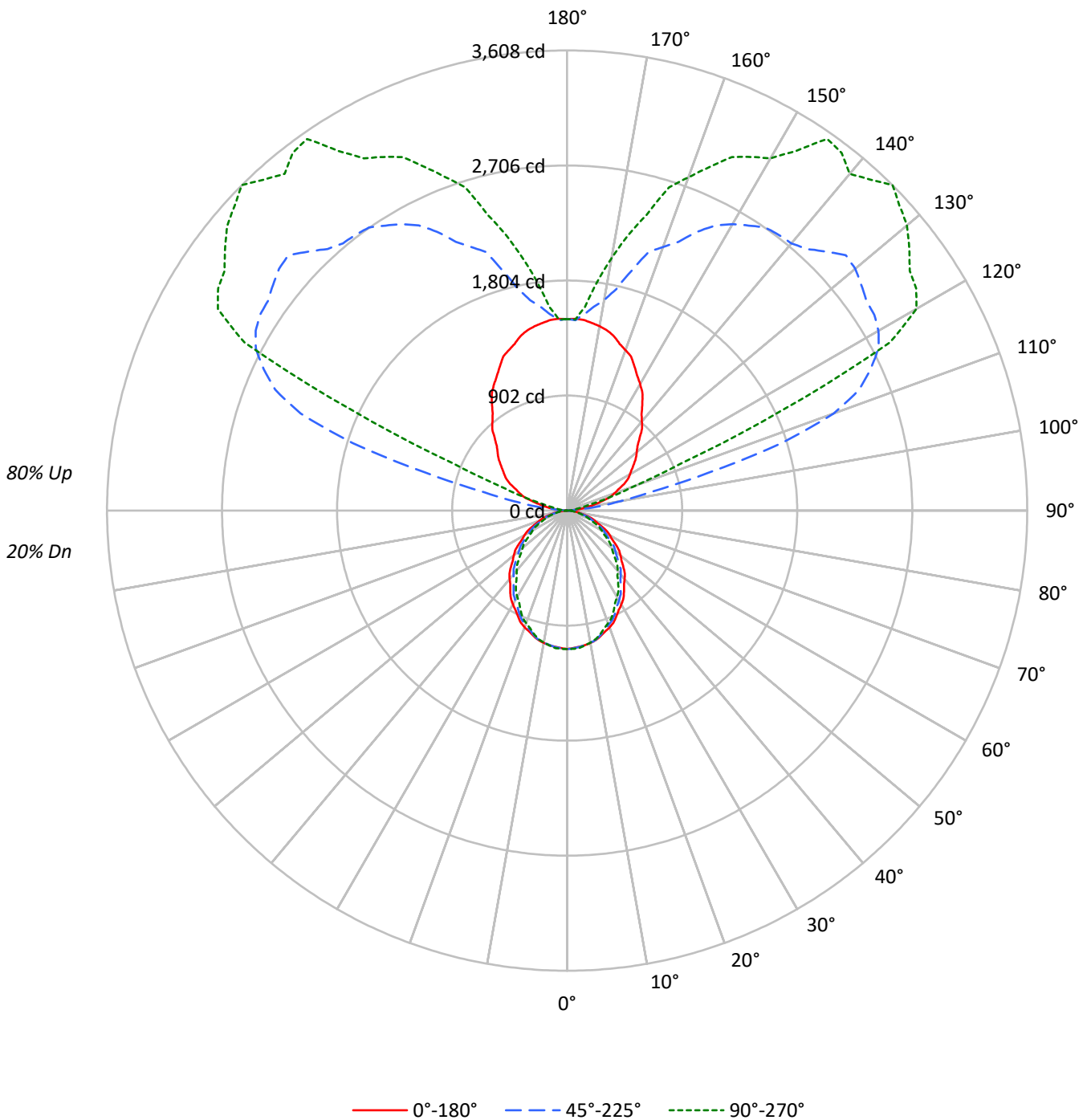
Lumens per Lamp: N/A  
Luminaire Lumens: 12389.3 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 76  
Input Voltage (V): 120  
Input Current (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	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°	9456	9456	9456
5°	9376	9391	9456
10°	9322	9301	9293
15°	9175	9115	9040
20°	9030	8830	8707
25°	8788	8540	8300
30°	8545	8168	7859
35°	8265	7787	7416
40°	7968	7429	6995
45°	7669	7056	6584
50°	7400	6691	6185
55°	7069	6312	5808
60°	6690	5952	5431
65°	6287	5551	5055
70°	5844	5103	4573
75°	5316	4616	4142
80°	4754	4042	3751
85°	3657	3327	2738

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7669 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	0.8
10°-20°	284.6	2.3
20°-30°	409.3	3.3
30°-40°	460.0	3.7
40°-50°	444.4	3.6
50°-60°	375.5	3.0
60°-70°	269.7	2.2
70°-80°	147.4	1.2
80°-90°	39.1	0.3
90°-100°	112.4	0.9
100°-110°	696.1	5.6
110°-120°	1755.4	14.2
120°-130°	2110.2	17.0
130°-140°	1913.2	15.4
140°-150°	1525.6	12.3
150°-160°	1040.7	8.4
160°-170°	550.4	4.4
170°-180°	153.2	1.2
0°-30°	796.0	6.4
0°-40°	1256.0	10.1
0°-60°	2075.8	16.8
0°-90°	2532.1	20.4
90°-120°	2563.9	20.7
90°-150°	8113.0	65.5
90°-180°	9857.0	79.6
0°-180°	12389.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1072	1087	1074	1074	1082	102
15°	1018	1027	1011	1001	1003	287
25°	915	915	889	869	864	421
35°	777	768	732	704	698	486
45°	623	610	573	543	535	481
55°	466	448	416	390	382	416
65°	305	294	269	250	245	303
75°	158	148	137	126	123	169
85°	37	34	33	29	27	44
90°	0	0	0	0	0	4
95°	58	147	45	32	32	74
105°	284	797	1151	289	194	299
115°	491	1086	2625	2444	1862	482
125°	640	1317	2864	3259	3278	573
135°	802	1459	2871	3362	3608	623
145°	1028	1534	2709	3266	3556	643
155°	1248	1564	2412	2907	3058	574
165°	1416	1549	1946	2292	2399	397
175°	1500	1519	1545	1572	1604	142
180°	1500	1500	1500	1500	1500	

TEST NUMBER: P1438920

CATALOG NUMBER: CB2-B-085U-030D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1078.5	1091.5	1081.8	1083.2	1085.2
5°	1072.5	1087.2	1074.2	1074.4	1081.7
7.5°	1064.9	1078.7	1062.4	1059.4	1066.2
10°	1054.2	1068.1	1051.8	1046.0	1050.9
12.5°	1040.3	1053.4	1037.8	1028.7	1033.0
15°	1017.7	1026.6	1011.0	1001.1	1002.7
17.5°	993.1	998.6	976.1	967.7	966.1
20°	974.4	979.3	952.8	941.1	939.5
22.5°	950.5	954.7	926.9	912.5	910.2
25°	914.6	915.4	888.8	868.7	863.8
27.5°	877.0	874.4	844.9	821.1	814.8
30°	849.7	846.5	812.3	787.2	781.5
32.5°	820.4	814.6	780.4	753.3	747.6
35°	777.4	768.4	732.5	704.1	697.6
37.5°	731.5	721.4	686.1	655.2	647.8
40°	700.9	689.5	653.5	622.6	615.3
42.5°	670.3	657.6	620.9	590.0	582.0
45°	622.7	609.7	572.9	542.7	534.6
47.5°	577.5	560.9	525.1	495.2	487.0
50°	546.2	528.4	493.9	464.6	456.5
52.5°	514.3	495.8	462.6	434.6	426.5
55°	465.6	448.5	415.7	389.8	382.5
57.5°	417.4	401.0	371.0	346.2	339.1
60°	384.1	370.3	341.7	318.3	311.8
62.5°	352.2	339.7	312.4	291.0	284.5
65°	305.1	293.8	269.4	250.1	245.3
67.5°	259.4	248.0	228.3	211.1	205.5
70°	229.5	218.1	200.4	184.5	179.6
72.5°	200.9	188.8	174.4	159.9	156.3
75°	158.0	148.2	137.2	126.3	123.1
77.5°	120.1	110.6	102.6	94.9	94.1
80°	94.8	86.7	80.6	75.6	74.8
82.5°	70.8	64.7	60.7	57.0	56.9
85°	36.6	34.1	33.3	29.1	27.4
87.5°	10.6	10.6	9.3	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.5	25.6	10.3	10.3	10.3
95°	58.2	146.7	45.3	32.3	32.3
97.5°	121.6	351.7	244.4	65.8	56.9
100°	168.1	509.5	420.3	96.6	77.6
102.5°	214.7	647.1	663.4	153.1	119.0
105°	284.5	796.6	1151.0	288.8	194.0
107.5°	353.1	894.3	1764.0	596.0	359.5
110°	394.4	950.8	2224.4	929.1	556.1



TEST NUMBER: P1438920

CATALOG NUMBER: CB2-B-085U-030D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	435.8	1007.4	2477.9	1489.4	959.6
115°	491.4	1085.8	2625.3	2443.9	1862.3
117.5°	538.0	1157.6	2752.0	3022.3	2851.6
120°	569.0	1213.9	2819.3	3105.1	3162.0
122.5°	600.1	1255.1	2855.5	3137.3	3244.8
125°	640.2	1316.7	2864.5	3259.4	3278.4
127.5°	680.2	1363.1	2907.2	3371.7	3380.5
130°	711.3	1394.1	2948.6	3409.3	3478.8
132.5°	747.5	1420.2	2964.1	3430.8	3535.7
135°	801.8	1459.4	2871.0	3361.6	3608.2
137.5°	870.4	1487.4	2781.8	3359.6	3518.9
140°	911.7	1493.4	2735.2	3433.9	3446.5
142.5°	958.3	1509.6	2724.9	3425.7	3534.4
145°	1028.1	1533.9	2709.4	3265.6	3556.4
147.5°	1098.0	1549.4	2649.9	3088.9	3343.0
150°	1144.5	1555.5	2593.0	3029.8	3187.9
152.5°	1191.1	1561.6	2520.5	2993.0	3125.8
155°	1248.0	1564.1	2411.9	2906.8	3058.5
157.5°	1307.5	1556.6	2281.3	2749.3	2915.0
160°	1338.5	1547.2	2198.5	2635.1	2780.5
162.5°	1369.5	1542.8	2126.1	2485.6	2656.3
165°	1416.1	1548.9	1946.3	2291.5	2399.0
167.5°	1447.1	1543.2	1778.2	2061.0	2212.7
170°	1467.8	1543.7	1674.8	1884.5	2011.0
172.5°	1483.4	1518.8	1612.7	1723.3	1809.3
175°	1500.2	1519.1	1545.4	1572.0	1603.6
177.5°	1505.3	1515.5	1495.0	1490.0	1500.2
180°	1500.2	1500.2	1500.2	1500.2	1500.2



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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	11.06	11.71	12.24	12.86	14.50	9.96	10.61	11.14	11.76	13.40
	3H	12.69	13.27	13.87	14.43	16.09	11.47	12.05	12.66	13.22	14.87
	4H	13.31	13.86	14.50	15.02	16.68	12.04	12.58	13.23	13.75	15.41
	6H	13.70	14.20	14.90	15.37	17.04	12.40	12.90	13.60	14.07	15.74
	8H	13.84	14.32	15.04	15.50	17.16	12.53	13.01	13.73	14.19	15.85
	12H	13.91	14.36	15.11	15.54	17.22	12.59	13.04	13.79	14.22	15.90
4H	2H	11.44	11.99	12.64	13.16	14.82	10.57	11.12	11.77	12.28	13.94
	3H	13.29	13.75	14.50	14.94	16.61	12.29	12.74	13.49	13.93	15.60
	4H	14.03	14.45	15.23	15.63	17.32	12.95	13.37	14.15	14.55	16.24
	6H	14.54	14.90	15.75	16.10	17.77	13.41	13.77	14.62	14.97	16.65
	8H	14.74	15.07	15.94	16.27	17.96	13.60	13.93	14.80	15.12	16.82
	12H	14.83	15.14	16.06	16.34	18.04	13.67	13.98	14.90	15.18	16.88
8H	4H	14.17	14.50	15.38	15.70	17.39	13.21	13.54	14.41	14.73	16.43
	6H	14.80	15.08	16.03	16.31	18.00	13.80	14.08	15.03	15.31	17.00
	8H	15.09	15.33	16.32	16.54	18.25	14.07	14.31	15.30	15.52	17.24
	12H	15.26	15.47	16.49	16.68	18.42	14.21	14.42	15.45	15.63	17.37
12H	4H	14.14	14.44	15.36	15.65	17.34	13.20	13.50	14.42	14.71	16.40
	6H	14.83	15.07	16.06	16.28	17.99	13.86	14.10	15.09	15.31	17.02
	8H	15.14	15.35	16.37	16.56	18.30	14.16	14.37	15.39	15.58	17.32