

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: P1439450

Luminaire Tested: CB3-B-085U-085D-927-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439450  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-2, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-B-085U-085D-927-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

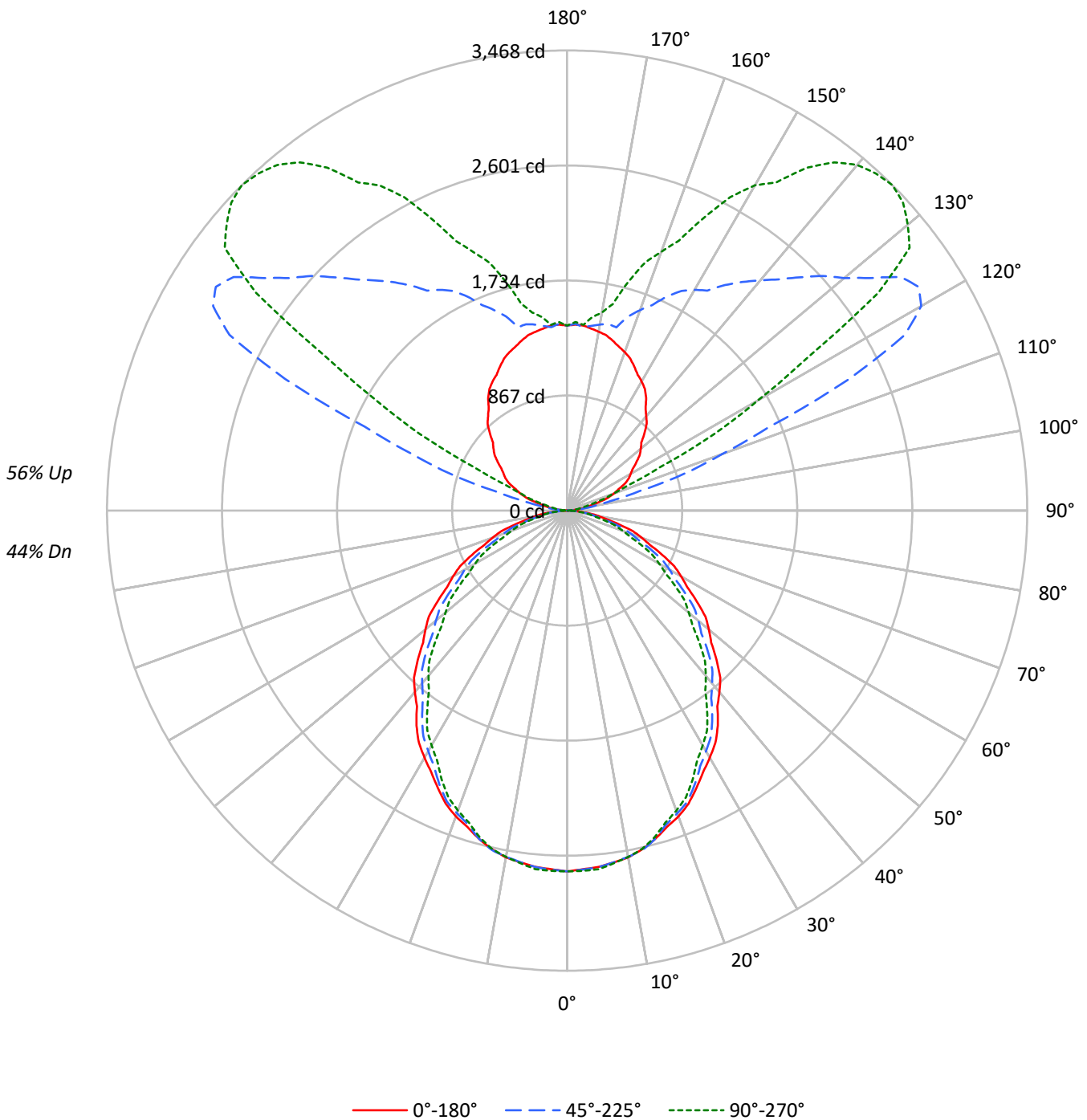
Lumens per Lamp: N/A  
Luminaire Lumens: 14705.3 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 108.3  
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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38				
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32				
3	80	71	64	58	73	66	59	54	55	50	46	45	41	39	36	33	31	27				
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	23				
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20				
6	62	50	43	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	30	26	22	24	21	19	16				
8	53	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	14				
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13				
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12				

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

	0°	45°	90°
0°	15383	15383	15383
5°	15311	15322	15409
10°	15244	15221	15221
15°	15010	15010	14920
20°	14766	14615	14487
25°	14394	14213	13960
30°	14042	13676	13348
35°	13672	13165	12698
40°	13179	12551	12009
45°	12732	12006	11264
50°	12272	11354	10539
55°	11772	10724	9848
60°	11232	10073	9069
65°	10599	9333	8247
70°	9872	8466	7347
75°	8949	7430	6542
80°	7803	6229	5789
85°	6017	5264	5264

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12732 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	1.7
10°-20°	720.8	4.9
20°-30°	1047.2	7.1
30°-40°	1190.6	8.1
40°-50°	1155.8	7.9
50°-60°	975.9	6.6
60°-70°	694.3	4.7
70°-80°	371.0	2.5
80°-90°	98.0	0.7
90°-100°	94.2	0.6
100°-110°	493.8	3.4
110°-120°	1242.9	8.5
120°-130°	1917.5	13.0
130°-140°	1755.3	11.9
140°-150°	1295.5	8.8
150°-160°	825.8	5.6
160°-170°	434.8	3.0
170°-180°	135.4	0.9
0°-30°	2024.6	13.8
0°-40°	3215.3	21.9
0°-60°	5347.0	36.4
0°-90°	6510.2	44.3
90°-120°	1830.9	12.5
90°-150°	6799.2	46.2
90°-180°	8195.0	55.7
0°-180°	14705.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2719	2719	2719	2719	2719	
5°	2696	2730	2698	2695	2713	256
15°	2563	2586	2563	2547	2547	722
25°	2306	2314	2277	2246	2236	1062
35°	1980	1961	1906	1850	1839	1234
45°	1591	1567	1501	1429	1408	1227
55°	1194	1161	1087	1017	998	1067
65°	792	764	697	635	616	784
75°	409	387	340	305	299	436
85°	93	85	81	81	81	110
90°	0	0	0	0	0	6
95°	49	139	55	31	31	62
105°	252	780	565	232	190	269
115°	479	977	2345	1019	773	466
125°	638	986	3069	3094	2860	571
135°	822	1099	2486	3390	3468	635
145°	1037	1199	2075	2885	3155	645
155°	1197	1287	1780	2203	2431	552
165°	1326	1362	1430	1672	1786	374
175°	1399	1430	1387	1394	1406	132
180°	1393	1393	1393	1393	1393	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2719.2	2719.2	2719.2	2719.2	2719.2
2.5°	2705.3	2732.5	2708.4	2711.7	2717.7
5°	2696.1	2730.1	2698.0	2694.6	2713.4
7.5°	2675.2	2706.2	2672.9	2665.2	2682.2
10°	2653.6	2687.6	2649.7	2640.3	2649.7
12.5°	2615.0	2650.5	2620.4	2604.7	2612.6
15°	2562.8	2585.5	2562.8	2547.4	2547.4
17.5°	2499.1	2522.9	2480.1	2469.2	2465.1
20°	2452.7	2473.5	2427.6	2412.0	2406.4
22.5°	2390.9	2410.2	2372.0	2345.6	2338.4
25°	2305.9	2313.5	2277.0	2245.9	2236.4
27.5°	2220.6	2222.5	2172.3	2134.6	2122.1
30°	2149.5	2151.4	2093.5	2052.7	2043.3
32.5°	2078.4	2072.8	2017.8	1969.4	1963.0
35°	1979.6	1960.7	1906.2	1849.9	1838.6
37.5°	1860.2	1848.9	1784.5	1728.1	1711.1
40°	1784.5	1765.6	1699.5	1643.1	1626.1
42.5°	1708.8	1686.9	1619.2	1556.6	1538.1
45°	1591.4	1566.8	1500.6	1428.7	1407.9
47.5°	1473.2	1446.4	1373.5	1303.9	1280.8
50°	1394.4	1366.1	1290.1	1221.9	1197.4
52.5°	1314.0	1284.2	1208.2	1138.6	1118.6
55°	1193.5	1161.4	1087.3	1017.4	998.5
57.5°	1073.0	1041.3	967.6	901.4	878.7
60°	992.7	962.5	890.3	824.1	801.5
62.5°	910.8	882.1	811.5	746.9	725.8
65°	791.8	763.5	697.2	635.0	616.1
67.5°	674.0	649.8	584.4	527.3	512.2
70°	596.8	574.1	511.8	459.3	444.2
72.5°	522.6	498.4	439.2	394.5	383.9
75°	409.4	386.8	339.9	305.0	299.3
77.5°	305.9	287.4	246.8	227.0	224.0
80°	239.5	222.5	191.2	177.7	177.7
82.5°	177.7	163.7	143.3	137.5	137.5
85°	92.7	85.1	81.1	81.1	81.1
87.5°	27.8	27.8	26.3	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.7	33.9	9.8	5.0	9.8
95°	49.1	139.1	55.2	30.7	30.7
97.5°	101.9	310.7	142.4	75.9	68.7
100°	141.2	441.2	221.0	110.2	98.2
102.5°	185.4	571.9	333.9	149.3	127.7
105°	251.7	779.8	564.7	232.3	190.3
107.5°	325.3	921.9	930.5	358.1	288.5
110°	374.4	980.6	1239.9	470.2	362.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	418.6	996.0	1652.3	641.2	494.7
115°	478.8	976.9	2344.7	1019.4	773.4
117.5°	523.0	929.9	2870.1	1621.8	1250.9
120°	552.4	930.5	3081.2	2077.5	1663.4
122.5°	586.8	936.1	3140.2	2530.0	2149.5
125°	638.3	986.4	3069.0	3094.3	2860.3
127.5°	689.9	1023.6	2877.5	3326.3	3253.1
130°	724.3	1048.4	2725.2	3405.3	3351.3
132.5°	758.6	1073.1	2617.2	3407.2	3434.8
135°	822.5	1098.6	2485.9	3389.9	3467.9
137.5°	887.5	1130.0	2363.1	3282.6	3444.6
140°	926.8	1154.9	2264.9	3166.3	3400.4
142.5°	971.0	1175.1	2171.6	3058.6	3307.1
145°	1037.3	1199.3	2074.6	2884.8	3154.9
147.5°	1088.9	1212.5	1965.4	2709.4	2932.7
150°	1123.2	1213.3	1921.2	2553.5	2829.6
152.5°	1152.7	1237.9	1867.2	2410.6	2662.6
155°	1196.9	1286.9	1780.0	2202.6	2430.6
157.5°	1241.1	1327.5	1676.9	2047.4	2202.3
160°	1270.5	1342.6	1608.1	1972.6	2074.6
162.5°	1295.1	1357.5	1534.5	1845.2	1961.7
165°	1325.8	1361.8	1430.1	1672.1	1786.1
167.5°	1354.0	1372.0	1438.7	1502.2	1594.6
170°	1368.8	1386.8	1424.0	1486.1	1516.1
172.5°	1383.5	1411.1	1404.4	1446.7	1471.9
175°	1399.4	1429.5	1387.2	1393.6	1405.6
177.5°	1403.1	1417.5	1408.0	1408.4	1422.8
180°	1393.3	1393.3	1393.3	1393.3	1393.3



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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	16.09	16.89	17.10	17.91	19.26	15.01	15.81	16.02	16.83	18.18
	3H	17.75	18.47	18.77	19.50	20.87	16.42	17.14	17.44	18.16	19.54
	4H	18.38	19.06	19.41	20.09	21.47	16.94	17.62	17.97	18.64	20.02
	6H	18.76	19.39	19.80	20.42	21.81	17.25	17.88	18.29	18.91	20.30
	8H	18.90	19.49	19.94	20.54	21.93	17.37	17.97	18.42	19.02	20.40
	12H	18.96	19.53	20.01	20.57	21.98	17.45	18.01	18.50	19.05	20.47
4H	2H	16.49	17.17	17.53	18.20	19.58	15.63	16.31	16.67	17.34	18.72
	3H	18.38	18.94	19.42	20.00	21.39	17.25	17.81	18.29	18.87	20.26
	4H	19.12	19.64	20.17	20.69	22.10	17.85	18.37	18.90	19.42	20.83
	6H	19.62	20.07	20.68	21.14	22.55	18.26	18.71	19.32	19.78	21.19
	8H	19.81	20.23	20.87	21.29	22.72	18.43	18.84	19.49	19.91	21.33
	12H	19.91	20.28	20.98	21.36	22.79	18.53	18.91	19.61	19.98	21.42
8H	4H	19.25	19.66	20.31	20.73	22.15	18.11	18.52	19.17	19.59	21.01
	6H	19.86	20.21	20.95	21.31	22.73	18.63	18.98	19.72	20.08	21.51
	8H	20.14	20.44	21.23	21.53	22.97	18.89	19.19	19.98	20.28	21.72
	12H	20.30	20.57	21.40	21.65	23.13	19.06	19.32	20.15	20.41	21.89
12H	4H	19.22	19.59	20.30	20.67	22.10	18.11	18.48	19.19	19.56	20.99
	6H	19.88	20.18	20.97	21.27	22.71	18.69	18.99	19.78	20.08	21.52
	8H	20.18	20.44	21.27	21.53	23.01	18.97	19.23	20.06	20.32	21.80