

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: P1438936

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

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438936  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

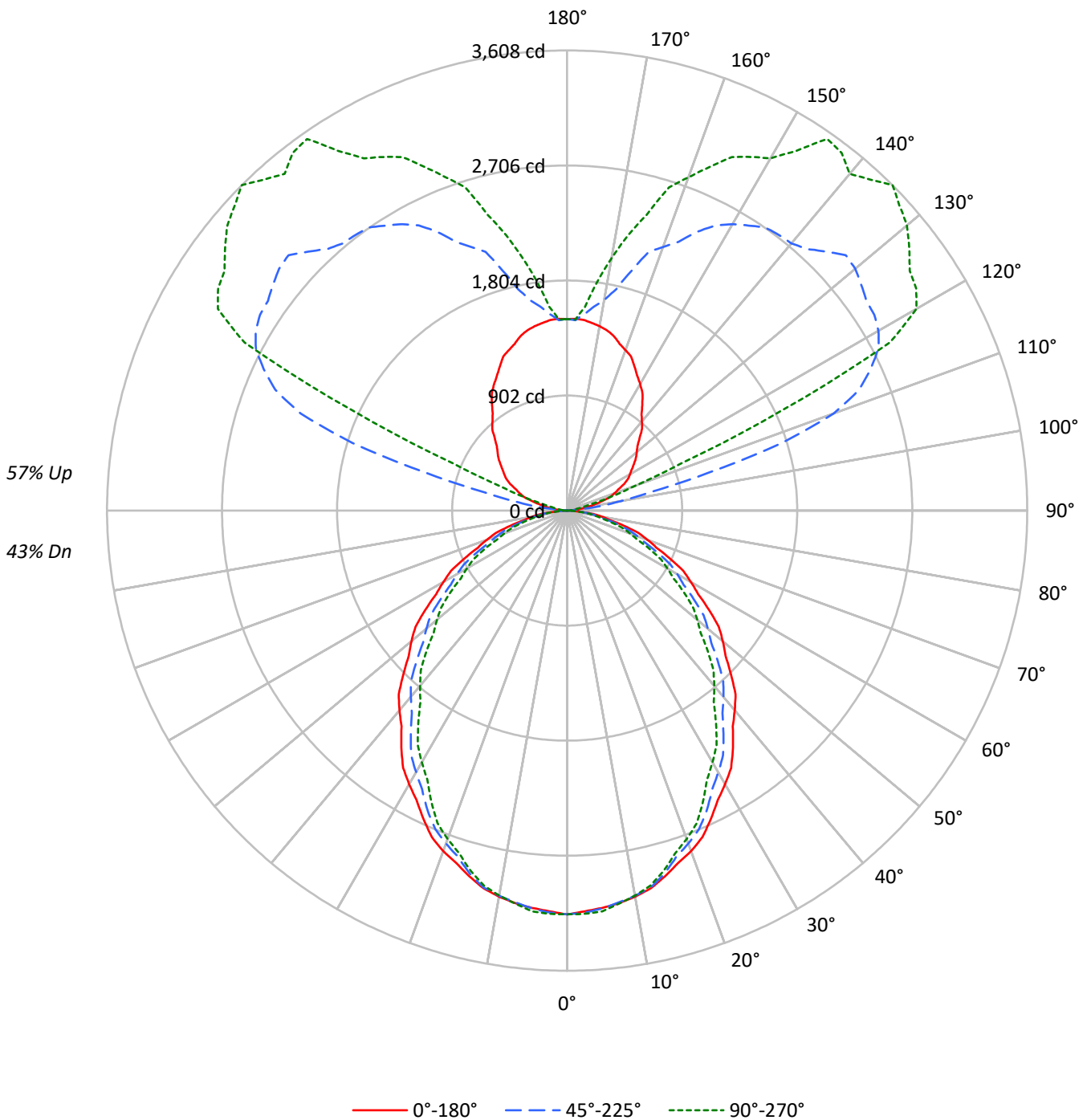
Lumens per Lamp: N/A  
Luminaire Lumens: 17240.6 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

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									
RC	80									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	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°	27573	27573	27573
5°	27340	27382	27573
10°	27184	27120	27099
15°	26754	26579	26361
20°	26333	25748	25389
25°	25625	24904	24204
30°	24916	23818	22916
35°	24099	22707	21625
40°	23235	21664	20395
45°	22364	20573	19199
50°	21580	19511	18033
55°	20614	18405	16932
60°	19509	17355	15834
65°	18334	16186	14738
70°	17037	14878	13335
75°	15498	13459	12073
80°	13862	11796	10943
85°	10662	9692	7994

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22364 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.7	1.7
10°-20°	830.0	4.8
20°-30°	1193.4	6.9
30°-40°	1341.4	7.8
40°-50°	1295.7	7.5
50°-60°	1094.8	6.4
60°-70°	786.4	4.6
70°-80°	429.8	2.5
80°-90°	114.2	0.7
90°-100°	112.4	0.7
100°-110°	696.1	4.0
110°-120°	1755.4	10.2
120°-130°	2110.2	12.2
130°-140°	1913.2	11.1
140°-150°	1525.6	8.8
150°-160°	1040.7	6.0
160°-170°	550.4	3.2
170°-180°	153.2	0.9
0°-30°	2321.1	13.5
0°-40°	3662.5	21.2
0°-60°	6053.0	35.1
0°-90°	7383.4	42.8
90°-120°	2563.9	14.9
90°-150°	8113.0	47.1
90°-180°	9857.0	57.2
0°-180°	17240.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3166	3166	3166	3166	3166	
5°	3127	3170	3132	3133	3154	297
15°	2967	2994	2948	2919	2924	836
25°	2667	2669	2592	2533	2519	1228
35°	2267	2241	2136	2053	2034	1416
45°	1816	1778	1670	1583	1559	1403
55°	1358	1308	1212	1136	1115	1214
65°	890	857	786	729	715	882
75°	461	432	400	368	359	493
85°	107	100	97	85	80	127
90°	0	0	0	0	0	6
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3166.2	3166.2	3166.2	3166.2	3166.2
2.5°	3144.9	3182.8	3154.6	3158.6	3164.3
5°	3127.4	3170.1	3132.3	3132.8	3154.1
7.5°	3105.1	3145.4	3097.9	3089.1	3109.0
10°	3074.1	3114.4	3066.8	3050.2	3064.4
12.5°	3033.4	3071.8	3026.1	2999.7	3012.0
15°	2967.4	2993.5	2948.0	2919.1	2923.8
17.5°	2895.7	2911.8	2846.2	2821.9	2817.1
20°	2841.4	2855.6	2778.3	2744.3	2739.5
22.5°	2771.5	2783.9	2702.7	2660.8	2654.2
25°	2666.8	2669.2	2591.7	2533.2	2518.9
27.5°	2557.2	2549.6	2463.7	2394.4	2375.9
30°	2477.7	2468.2	2368.6	2295.5	2278.9
32.5°	2392.4	2375.3	2275.5	2196.6	2180.0
35°	2266.8	2240.7	2135.9	2053.0	2034.1
37.5°	2133.0	2103.6	2000.6	1910.4	1889.1
40°	2043.8	2010.6	1905.6	1815.4	1794.0
42.5°	1954.5	1917.6	1810.5	1720.3	1697.1
45°	1815.9	1777.9	1670.4	1582.6	1558.9
47.5°	1684.0	1635.6	1531.2	1443.9	1420.2
50°	1592.8	1540.7	1440.1	1354.7	1331.0
52.5°	1499.7	1445.7	1348.9	1267.4	1243.7
55°	1357.7	1307.9	1212.2	1136.5	1115.2
57.5°	1217.0	1169.2	1081.8	1009.5	988.7
60°	1120.1	1079.8	996.4	928.1	909.1
62.5°	1027.0	990.5	911.1	848.6	829.6
65°	889.7	856.6	785.5	729.4	715.2
67.5°	756.4	723.2	665.7	615.4	599.3
70°	669.1	635.9	584.3	537.9	523.7
72.5°	585.7	550.6	508.6	466.2	455.8
75°	460.6	432.2	400.0	368.3	358.8
77.5°	350.1	322.6	299.2	276.8	274.4
80°	276.4	252.7	235.2	220.6	218.2
82.5°	206.6	188.5	177.0	166.3	165.8
85°	106.7	99.6	97.0	84.7	80.0
87.5°	31.0	31.0	27.2	23.3	23.3
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



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**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	17.82	18.61	18.84	19.64	21.01	16.72	17.51	17.74	18.54	19.91
	3H	19.46	20.17	20.49	21.20	22.60	18.24	18.95	19.27	19.99	21.38
	4H	20.09	20.76	21.13	21.79	23.19	18.81	19.48	19.86	20.52	21.92
	6H	20.49	21.10	21.54	22.14	23.56	19.18	19.80	20.23	20.84	22.25
	8H	20.63	21.22	21.69	22.28	23.68	19.32	19.91	20.38	20.97	22.37
	12H	20.70	21.26	21.76	22.31	23.74	19.38	19.94	20.44	20.99	22.42
4H	2H	18.22	18.89	19.27	19.93	21.33	17.35	18.02	18.39	19.06	20.45
	3H	20.08	20.64	21.14	21.71	23.12	19.08	19.64	20.13	20.70	22.11
	4H	20.83	21.34	21.89	22.40	23.83	19.75	20.26	20.81	21.32	22.75
	6H	21.34	21.78	22.41	22.86	24.29	20.22	20.66	21.29	21.74	23.17
	8H	21.55	21.96	22.62	23.03	24.47	20.41	20.82	21.48	21.89	23.33
	12H	21.65	22.02	22.74	23.11	24.56	20.49	20.86	21.58	21.95	23.40
8H	4H	20.98	21.39	22.05	22.46	23.91	20.02	20.43	21.09	21.50	22.94
	6H	21.62	21.96	22.71	23.07	24.51	20.62	20.96	21.71	22.07	23.51
	8H	21.91	22.21	23.01	23.30	24.76	20.89	21.19	21.99	22.29	23.75
	12H	22.08	22.34	23.18	23.43	24.93	21.04	21.30	22.14	22.39	23.89
12H	4H	20.96	21.33	22.04	22.41	23.86	20.02	20.39	21.10	21.47	22.92
	6H	21.65	21.94	22.75	23.04	24.50	20.68	20.98	21.78	22.07	23.53
	8H	21.96	22.22	23.06	23.31	24.81	20.98	21.24	22.09	22.34	23.84