

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: P1439424

Luminaire Tested: CB3-B-055U-085D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439424  
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-055U-085D-940-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

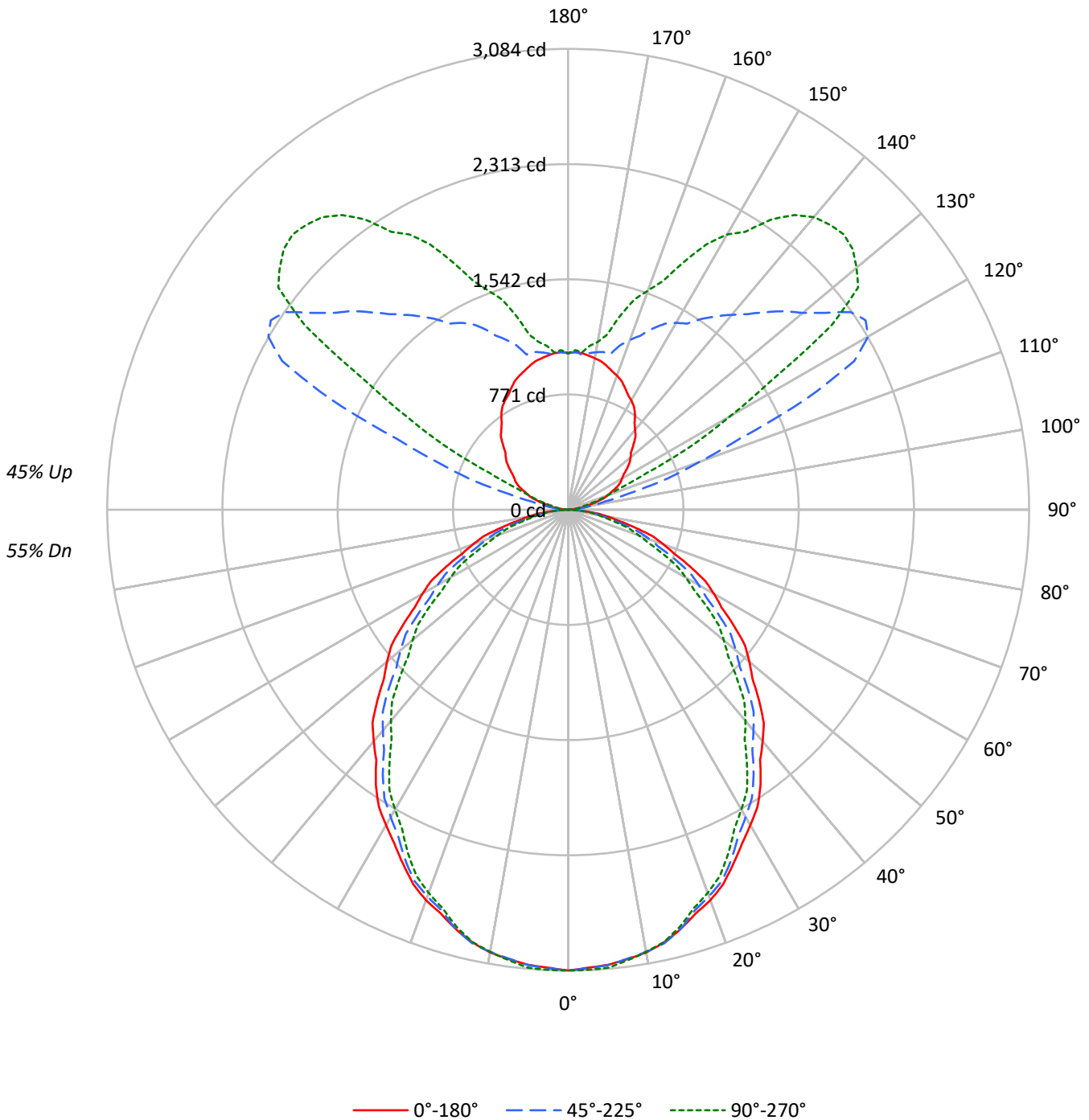
Lumens per Lamp: N/A  
Luminaire Lumens: 13541.6 lumens  
Efficiency: N/A  
Efficacy: 153.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 88.5  
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									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	50	30	10	0														
RCR																																						
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55																				
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46																				
2	90	83	77	72	84	77	72	67	66	62	59	57	54	51	47	45	44	39																				
3	83	73	66	60	76	68	62	57	59	54	50	50	47	43	42	40	37	33																				
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29																				
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25																				
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22																				
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22	20																				
8	55	43	35	30	51	40	33	28	35	30	25	31	26	23	26	23	20	18																				
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18	16																				
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	15																				

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

	0°	45°	90°
0°	17445	17445	17445
5°	17363	17375	17475
10°	17287	17261	17261
15°	17022	17022	16919
20°	16746	16574	16429
25°	16323	16118	15831
30°	15924	15509	15136
35°	15504	14929	14400
40°	14945	14233	13619
45°	14439	13615	12774
50°	13917	12876	11951
55°	13350	12161	11168
60°	12737	11423	10284
65°	12020	10583	9352
70°	11193	9600	8332
75°	10149	8426	7421
80°	8848	7063	6565
85°	6822	5972	5972

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14439 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.9	2.1
10°-20°	817.4	6.0
20°-30°	1187.6	8.8
30°-40°	1350.2	10.0
40°-50°	1310.8	9.7
50°-60°	1106.6	8.2
60°-70°	787.3	5.8
70°-80°	420.7	3.1
80°-90°	111.1	0.8
90°-100°	70.8	0.5
100°-110°	371.1	2.7
110°-120°	934.1	6.9
120°-130°	1441.0	10.6
130°-140°	1319.2	9.7
140°-150°	973.6	7.2
150°-160°	620.6	4.6
160°-170°	326.7	2.4
170°-180°	101.7	0.8
0°-30°	2295.9	17.0
0°-40°	3646.2	26.9
0°-60°	6063.6	44.8
0°-90°	7382.7	54.5
90°-120°	1376.0	10.2
90°-150°	5109.8	37.7
90°-180°	6159.0	45.5
0°-180°	13541.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3084	3084	3084	3084	3084	
5°	3057	3096	3060	3056	3077	290
15°	2906	2932	2906	2889	2889	819
25°	2615	2624	2582	2547	2536	1205
35°	2245	2224	2162	2098	2085	1399
45°	1805	1777	1702	1620	1597	1392
55°	1354	1317	1233	1154	1132	1210
65°	898	866	791	720	699	889
75°	464	439	386	346	340	495
85°	105	97	92	92	92	125
90°	0	0	0	0	0	6
95°	37	105	42	23	23	47
105°	189	586	424	175	143	202
115°	360	734	1762	766	581	350
125°	480	741	2306	2326	2150	429
135°	618	826	1868	2548	2606	478
145°	780	901	1559	2168	2371	485
155°	900	967	1338	1655	1827	415
165°	996	1023	1075	1257	1342	281
175°	1052	1074	1042	1047	1056	100
180°	1047	1047	1047	1047	1047	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3083.7	3083.7	3083.7	3083.7	3083.7
2.5°	3067.9	3098.8	3071.4	3075.1	3081.9
5°	3057.4	3096.0	3059.6	3055.7	3077.1
7.5°	3033.8	3068.9	3031.1	3022.4	3041.6
10°	3009.2	3047.8	3004.8	2994.1	3004.8
12.5°	2965.4	3005.7	2971.6	2953.8	2962.8
15°	2906.3	2932.0	2906.3	2888.8	2888.8
17.5°	2834.0	2861.0	2812.6	2800.2	2795.5
20°	2781.5	2805.0	2753.0	2735.3	2728.9
22.5°	2711.4	2733.2	2689.9	2659.9	2651.8
25°	2615.0	2623.6	2582.1	2546.9	2536.2
27.5°	2518.2	2520.3	2463.4	2420.6	2406.5
30°	2437.6	2439.7	2374.1	2327.9	2317.1
32.5°	2357.0	2350.6	2288.2	2233.3	2226.0
35°	2244.9	2223.5	2161.6	2097.8	2085.0
37.5°	2109.5	2096.7	2023.7	1959.7	1940.4
40°	2023.7	2002.3	1927.3	1863.4	1844.1
42.5°	1937.8	1913.0	1836.2	1765.2	1744.2
45°	1804.7	1776.8	1701.7	1620.2	1596.6
47.5°	1670.6	1640.2	1557.6	1478.6	1452.5
50°	1581.3	1549.1	1463.0	1385.7	1357.9
52.5°	1490.2	1456.3	1370.1	1291.2	1268.5
55°	1353.5	1317.1	1233.0	1153.7	1132.3
57.5°	1216.8	1180.9	1097.2	1022.2	996.5
60°	1125.7	1091.5	1009.6	934.6	908.9
62.5°	1032.9	1000.3	920.3	847.0	823.0
65°	897.9	865.8	790.6	720.1	698.6
67.5°	764.4	736.9	662.7	598.0	580.8
70°	676.7	651.0	580.4	520.9	503.7
72.5°	592.6	565.2	498.0	447.4	435.4
75°	464.3	438.6	385.5	345.9	339.5
77.5°	346.9	325.9	279.9	257.5	254.1
80°	271.6	252.3	216.8	201.5	201.5
82.5°	201.5	185.6	162.5	155.9	155.9
85°	105.1	96.6	92.0	92.0	92.0
87.5°	31.5	31.5	29.8	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	25.5	7.4	3.8	7.4
95°	36.9	104.6	41.5	23.1	23.1
97.5°	76.6	233.5	107.0	57.1	51.7
100°	106.1	331.6	166.1	82.8	73.8
102.5°	139.3	429.8	250.9	112.2	95.9
105°	189.1	586.0	424.4	174.6	143.0
107.5°	244.5	692.8	699.3	269.1	216.8
110°	281.4	736.9	931.8	353.3	272.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	314.6	748.5	1241.8	481.9	371.8
115°	359.8	734.2	1762.1	766.2	581.2
117.5°	393.0	698.8	2157.0	1218.8	940.1
120°	415.2	699.3	2315.7	1561.3	1250.1
122.5°	441.0	703.5	2360.0	1901.4	1615.4
125°	479.7	741.3	2306.4	2325.5	2149.6
127.5°	518.5	769.3	2162.5	2499.9	2444.8
130°	544.3	787.9	2048.1	2559.2	2518.6
132.5°	570.2	806.5	1966.9	2560.6	2581.4
135°	618.1	825.6	1868.2	2547.7	2606.3
137.5°	667.0	849.2	1776.0	2467.0	2588.8
140°	696.5	867.9	1702.2	2379.6	2555.5
142.5°	729.8	883.1	1632.0	2298.7	2485.4
145°	779.6	901.4	1559.2	2168.1	2371.0
147.5°	818.3	911.2	1477.0	2036.3	2204.0
150°	844.2	911.8	1443.8	1919.1	2126.5
152.5°	866.3	930.3	1403.2	1811.6	2001.1
155°	899.5	967.2	1337.7	1655.3	1826.7
157.5°	932.7	997.7	1260.2	1538.7	1655.1
160°	954.9	1009.0	1208.6	1482.5	1559.2
162.5°	973.3	1020.2	1153.2	1386.8	1474.3
165°	996.4	1023.4	1074.8	1256.7	1342.4
167.5°	1017.6	1031.1	1081.3	1129.0	1198.4
170°	1028.7	1042.2	1070.2	1116.8	1139.4
172.5°	1039.7	1060.5	1055.4	1087.2	1106.2
175°	1051.7	1074.3	1042.5	1047.3	1056.4
177.5°	1054.5	1065.3	1058.2	1058.4	1069.3
180°	1047.1	1047.1	1047.1	1047.1	1047.1



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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	17.49	18.38	18.41	19.32	20.53	16.41	17.30	17.33	18.24	19.45
	3H	19.16	19.96	20.09	20.90	22.13	17.83	18.63	18.76	19.57	20.80
	4H	19.79	20.55	20.74	21.50	22.74	18.35	19.10	19.29	20.05	21.29
	6H	20.18	20.87	21.14	21.83	23.08	18.67	19.36	19.62	20.32	21.57
	8H	20.32	20.98	21.28	21.95	23.20	18.79	19.45	19.76	20.43	21.68
	12H	20.39	21.02	21.35	21.98	23.26	18.87	19.50	19.84	20.46	21.74
4H	2H	17.90	18.66	18.85	19.61	20.85	17.04	17.80	18.00	18.75	19.99
	3H	19.80	20.42	20.76	21.41	22.66	18.67	19.30	19.63	20.28	21.53
	4H	20.55	21.12	21.52	22.09	23.37	19.27	19.85	20.25	20.82	22.10
	6H	21.05	21.54	22.03	22.54	23.82	19.69	20.18	20.67	21.18	22.46
	8H	21.24	21.70	22.23	22.69	23.99	19.86	20.32	20.84	21.31	22.60
	12H	21.34	21.76	22.34	22.76	24.06	19.97	20.38	20.97	21.39	22.69
8H	4H	20.68	21.14	21.66	22.13	23.42	19.54	20.00	20.52	20.99	22.28
	6H	21.30	21.68	22.31	22.71	24.00	20.07	20.45	21.08	21.48	22.77
	8H	21.57	21.91	22.59	22.93	24.24	20.32	20.66	21.34	21.68	22.99
	12H	21.74	22.03	22.76	23.05	24.40	20.50	20.79	21.52	21.81	23.16
12H	4H	20.65	21.07	21.66	22.08	23.37	19.54	19.96	20.55	20.97	22.26
	6H	21.31	21.65	22.33	22.67	23.98	20.12	20.46	21.14	21.48	22.79
	8H	21.62	21.91	22.64	22.93	24.28	20.41	20.70	21.43	21.72	23.07