

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: P1438904

Luminaire Tested: CB2-B-055U-085D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438904  
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-055U-085D-940-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

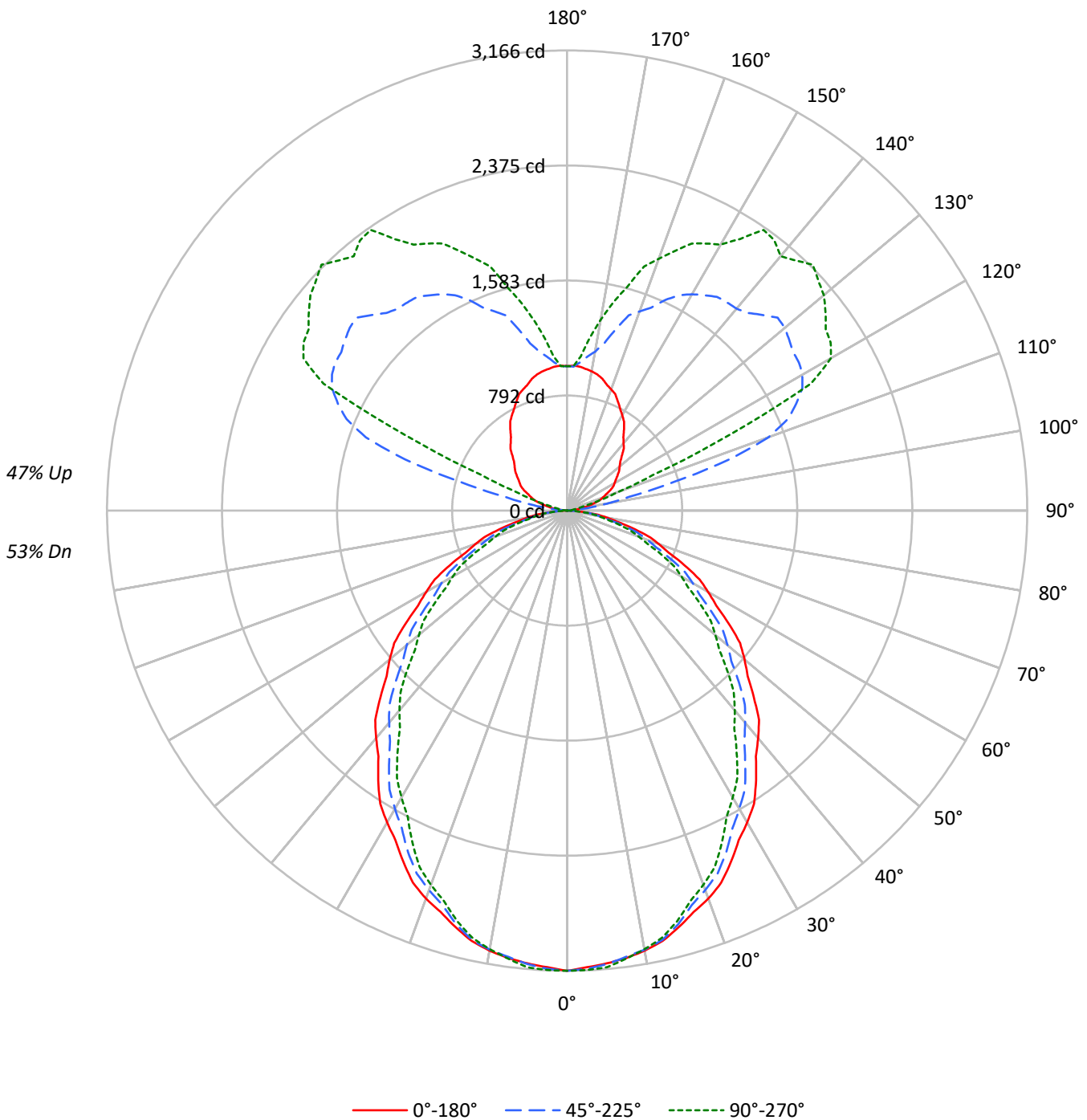
Lumens per Lamp: N/A  
Luminaire Lumens: 13916.0 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.8  
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45
2	90	83	77	71	83	77	72	67	66	62	58	56	53	50	46	44	43	38
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	39	36	32
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

**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	2.1
10°-20°	830.0	6.0
20°-30°	1193.4	8.6
30°-40°	1341.4	9.6
40°-50°	1295.7	9.3
50°-60°	1094.8	7.9
60°-70°	786.4	5.7
70°-80°	429.8	3.1
80°-90°	114.2	0.8
90°-100°	74.5	0.5
100°-110°	461.3	3.3
110°-120°	1163.3	8.4
120°-130°	1398.5	10.0
130°-140°	1267.9	9.1
140°-150°	1011.1	7.3
150°-160°	689.7	5.0
160°-170°	364.8	2.6
170°-180°	101.5	0.7
0°-30°	2321.1	16.7
0°-40°	3662.5	26.3
0°-60°	6053.0	43.5
0°-90°	7383.4	53.1
90°-120°	1699.1	12.2
90°-150°	5376.6	38.6
90°-180°	6533.0	46.9
0°-180°	13916.0	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°	39	97	30	21	21	49
105°	189	528	763	191	129	198
115°	326	720	1740	1620	1234	319
125°	424	873	1898	2160	2173	380
135°	531	967	1903	2228	2391	413
145°	681	1017	1796	2164	2357	426
155°	827	1037	1598	1926	2027	381
165°	938	1026	1290	1519	1590	263
175°	994	1007	1024	1042	1063	94
180°	994	994	994	994	994	

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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°	10.3	17.0	6.9	6.9	6.9
95°	38.6	97.2	30.0	21.4	21.4
97.5°	80.6	233.1	162.0	43.6	37.7
100°	111.4	337.7	278.5	64.0	51.4
102.5°	142.3	428.9	439.7	101.5	78.8
105°	188.6	527.9	762.8	191.4	128.6
107.5°	234.0	592.6	1169.0	395.0	238.3
110°	261.4	630.1	1474.1	615.7	368.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	288.8	667.6	1642.1	987.1	635.9
115°	325.7	719.5	1739.8	1619.7	1234.2
117.5°	356.5	767.2	1823.8	2002.9	1889.8
120°	377.1	804.5	1868.4	2057.8	2095.5
122.5°	397.7	831.8	1892.4	2079.1	2150.4
125°	424.2	872.6	1898.4	2160.1	2172.6
127.5°	450.8	903.3	1926.7	2234.5	2240.4
130°	471.4	923.9	1954.1	2259.4	2305.5
132.5°	495.4	941.2	1964.4	2273.6	2343.2
135°	531.4	967.1	1902.7	2227.8	2391.2
137.5°	576.8	985.8	1843.5	2226.5	2332.1
140°	604.2	989.7	1812.7	2275.7	2284.1
142.5°	635.1	1000.5	1805.8	2270.3	2342.3
145°	681.4	1016.6	1795.5	2164.2	2356.9
147.5°	727.6	1026.8	1756.1	2047.1	2215.5
150°	758.5	1030.9	1718.4	2007.9	2112.7
152.5°	789.4	1034.9	1670.4	1983.5	2071.5
155°	827.1	1036.6	1598.4	1926.4	2026.9
157.5°	866.5	1031.6	1511.9	1822.0	1931.8
160°	887.1	1025.3	1457.0	1746.3	1842.7
162.5°	907.6	1022.4	1409.0	1647.3	1760.4
165°	938.5	1026.5	1289.9	1518.6	1589.8
167.5°	959.1	1022.7	1178.5	1365.9	1466.4
170°	972.8	1023.0	1109.9	1248.9	1332.7
172.5°	983.0	1006.5	1068.8	1142.0	1199.0
175°	994.2	1006.8	1024.2	1041.8	1062.8
177.5°	997.6	1004.3	990.8	987.5	994.2
180°	994.2	994.2	994.2	994.2	994.2

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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	18.80	19.68	19.74	20.63	21.86	17.70	18.58	18.64	19.53	20.76
	3H	20.45	21.24	21.39	22.19	23.45	19.23	20.02	20.18	20.98	22.23
	4H	21.08	21.82	22.04	22.79	24.05	19.81	20.55	20.77	21.51	22.77
	6H	21.48	22.17	22.45	23.14	24.41	20.18	20.86	21.15	21.83	23.11
	8H	21.63	22.28	22.61	23.27	24.54	20.32	20.97	21.30	21.96	23.23
	12H	21.71	22.33	22.69	23.30	24.60	20.38	21.00	21.37	21.98	23.28
4H	2H	19.22	19.96	20.18	20.92	22.18	18.34	19.08	19.30	20.05	21.31
	3H	21.09	21.71	22.06	22.70	23.97	20.08	20.70	21.05	21.69	22.96
	4H	21.83	22.40	22.82	23.38	24.68	20.75	21.32	21.73	22.30	23.60
	6H	22.35	22.84	23.35	23.85	25.15	21.23	21.71	22.22	22.72	24.02
	8H	22.56	23.01	23.55	24.02	25.33	21.42	21.87	22.41	22.88	24.19
	12H	22.67	23.08	23.68	24.09	25.41	21.51	21.92	22.52	22.94	24.25
8H	4H	21.99	22.45	22.99	23.45	24.76	21.03	21.48	22.02	22.48	23.79
	6H	22.63	23.01	23.65	24.05	25.36	21.63	22.01	22.65	23.05	24.36
	8H	22.92	23.25	23.95	24.29	25.61	21.91	22.24	22.94	23.27	24.60
	12H	23.10	23.39	24.13	24.42	25.79	22.06	22.35	23.09	23.37	24.75
12H	4H	21.97	22.38	22.99	23.40	24.72	21.03	21.44	22.05	22.46	23.78
	6H	22.66	22.99	23.69	24.02	25.35	21.69	22.03	22.72	23.06	24.38
	8H	22.98	23.27	24.01	24.30	25.67	22.00	22.29	23.03	23.32	24.69