

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: P1438928

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

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438928  
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-055D-940-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

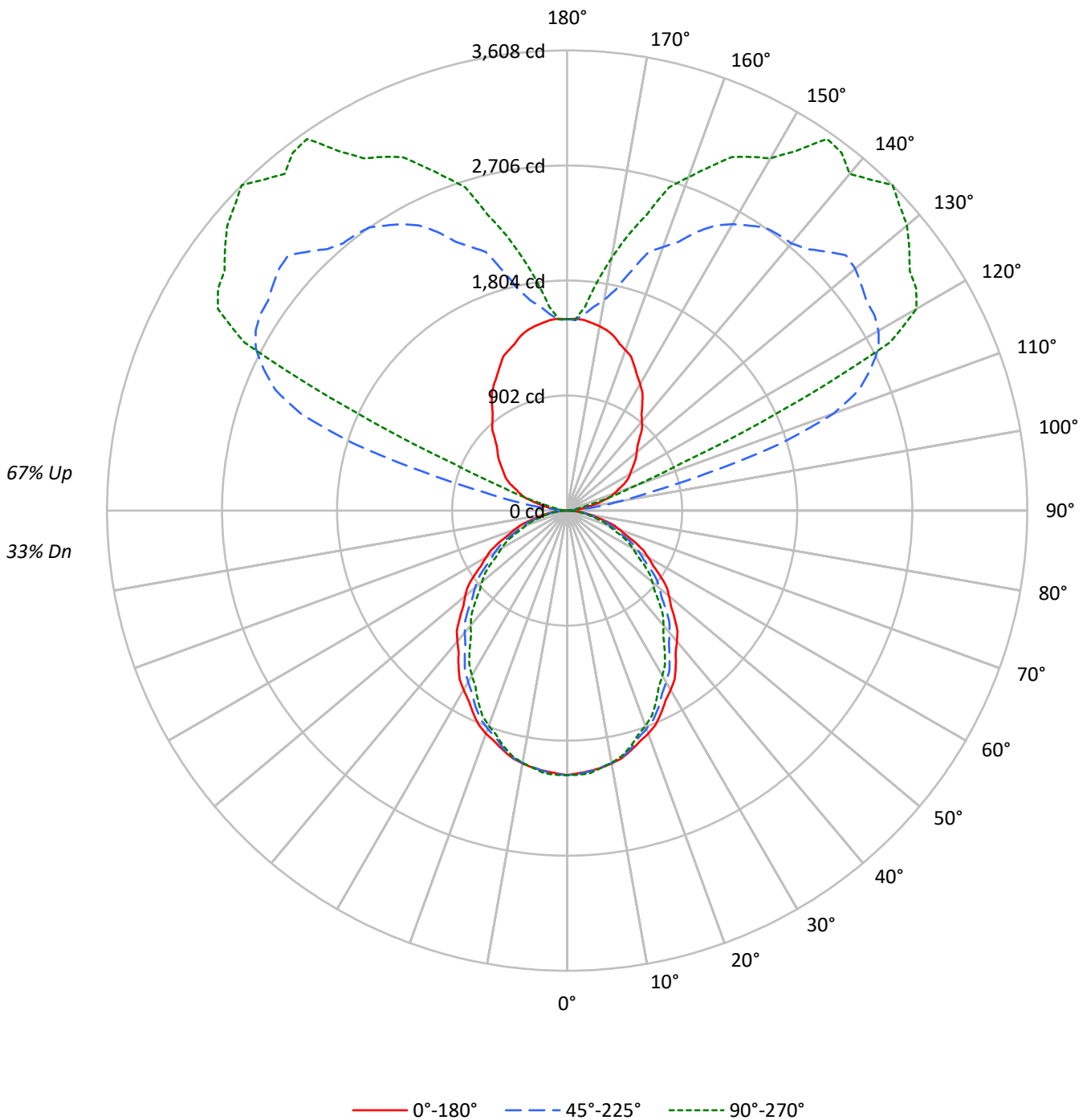
Lumens per Lamp: N/A  
Luminaire Lumens: 14694.4 lumens  
Efficiency: N/A  
Efficacy: 155.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 94.3  
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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	39	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	42	39	36	34	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	35	31	29	25	23	22	17
5	66	54	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11	9

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

	0°	45°	90°
0°	18064	18064	18064
5°	17911	17939	18064
10°	17810	17767	17753
15°	17528	17413	17270
20°	17252	16869	16633
25°	16789	16315	15858
30°	16324	15605	15013
35°	15789	14876	14167
40°	15222	14192	13362
45°	14652	13479	12578
50°	14138	12783	11814
55°	13505	12058	11093
60°	12781	11370	10374
65°	12012	10604	9656
70°	11163	9747	8736
75°	10155	8819	7911
80°	9082	7728	7167
85°	6984	6345	5236

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14652 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	1.3
10°-20°	543.8	3.7
20°-30°	781.9	5.3
30°-40°	878.8	6.0
40°-50°	848.9	5.8
50°-60°	717.2	4.9
60°-70°	515.2	3.5
70°-80°	281.6	1.9
80°-90°	74.8	0.5
90°-100°	112.4	0.8
100°-110°	696.1	4.7
110°-120°	1755.4	11.9
120°-130°	2110.2	14.4
130°-140°	1913.2	13.0
140°-150°	1525.6	10.4
150°-160°	1040.7	7.1
160°-170°	550.4	3.7
170°-180°	153.2	1.0
0°-30°	1520.7	10.3
0°-40°	2399.5	16.3
0°-60°	3965.6	27.0
0°-90°	4837.1	32.9
90°-120°	2563.9	17.4
90°-150°	8113.0	55.2
90°-180°	9857.0	67.1
0°-180°	14694.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2049	2077	2052	2052	2066	195
15°	1944	1961	1931	1912	1916	548
25°	1747	1749	1698	1660	1650	804
35°	1485	1468	1399	1345	1333	928
45°	1190	1165	1094	1037	1021	919
55°	890	857	794	745	731	795
65°	583	561	515	478	469	578
75°	302	283	262	241	235	323
85°	70	65	64	56	52	83
90°	0	0	0	0	0	5
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: P1438928

CATALOG NUMBER: CB2-B-085U-055D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2074.3	2074.3	2074.3	2074.3	2074.3
2.5°	2060.4	2085.2	2066.7	2069.4	2073.1
5°	2048.9	2076.9	2052.1	2052.4	2066.4
7.5°	2034.3	2060.7	2029.6	2023.8	2036.9
10°	2014.0	2040.4	2009.2	1998.3	2007.6
12.5°	1987.3	2012.5	1982.5	1965.3	1973.3
15°	1944.1	1961.2	1931.4	1912.4	1915.5
17.5°	1897.1	1907.7	1864.7	1848.7	1845.6
20°	1861.5	1870.8	1820.2	1797.9	1794.8
22.5°	1815.8	1823.8	1770.7	1743.2	1738.9
25°	1747.2	1748.7	1697.9	1659.6	1650.3
27.5°	1675.4	1670.4	1614.1	1568.7	1556.6
30°	1623.3	1617.1	1551.8	1503.9	1493.0
32.5°	1567.4	1556.2	1490.8	1439.1	1428.2
35°	1485.1	1468.0	1399.3	1345.0	1332.6
37.5°	1397.4	1378.1	1310.7	1251.6	1237.6
40°	1339.0	1317.2	1248.4	1189.3	1175.4
42.5°	1280.5	1256.3	1186.2	1127.0	1111.8
45°	1189.7	1164.8	1094.4	1036.8	1021.3
47.5°	1103.2	1071.6	1003.2	946.0	930.4
50°	1043.5	1009.4	943.5	887.5	872.0
52.5°	982.5	947.1	883.7	830.3	814.8
55°	889.5	856.8	794.2	744.6	730.6
57.5°	797.3	766.0	708.7	661.4	647.7
60°	733.8	707.4	652.8	608.0	595.6
62.5°	672.8	648.9	596.9	555.9	543.5
65°	582.9	561.2	514.6	477.9	468.6
67.5°	495.6	473.8	436.2	403.2	392.6
70°	438.4	416.6	382.8	352.4	343.1
72.5°	383.7	360.8	333.2	305.4	298.6
75°	301.8	283.1	262.1	241.3	235.1
77.5°	229.4	211.3	196.0	181.4	179.8
80°	181.1	165.5	154.1	144.5	142.9
82.5°	135.3	123.5	115.9	109.0	108.6
85°	69.9	65.2	63.5	55.5	52.4
87.5°	20.3	20.3	17.8	15.2	15.2
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: P1438928

CATALOG NUMBER: CB2-B-085U-055D-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	15.22	15.94	16.31	17.03	18.53	14.12	14.84	15.22	15.93	17.43
	3H	16.86	17.50	17.96	18.60	20.11	15.64	16.28	16.74	17.38	18.90
	4H	17.48	18.09	18.59	19.19	20.71	16.21	16.82	17.32	17.92	19.44
	6H	17.87	18.44	18.99	19.54	21.07	16.57	17.13	17.69	18.23	19.77
	8H	18.02	18.55	19.14	19.67	21.20	16.71	17.24	17.83	18.36	19.88
	12H	18.09	18.59	19.22	19.71	21.25	16.76	17.27	17.89	18.38	19.93
4H	2H	15.61	16.22	16.73	17.32	18.84	14.74	15.35	15.86	16.45	17.97
	3H	17.47	17.98	18.60	19.11	20.64	16.46	16.97	17.59	18.10	19.63
	4H	18.21	18.68	19.34	19.79	21.35	17.13	17.60	18.26	18.71	20.26
	6H	18.72	19.12	19.86	20.26	21.81	17.60	18.00	18.73	19.14	20.68
	8H	18.92	19.30	20.06	20.43	21.99	17.78	18.16	18.92	19.29	20.85
	12H	19.02	19.36	20.17	20.50	22.07	17.86	18.20	19.02	19.35	20.91
8H	4H	18.36	18.73	19.49	19.86	21.42	17.39	17.77	18.53	18.90	20.46
	6H	18.99	19.30	20.15	20.47	22.03	17.99	18.30	19.15	19.47	21.03
	8H	19.28	19.55	20.44	20.70	22.28	18.26	18.53	19.43	19.69	21.26
	12H	19.45	19.69	20.61	20.83	22.45	18.41	18.64	19.57	19.79	21.40
12H	4H	18.33	18.67	19.48	19.81	21.37	17.39	17.73	18.54	18.87	20.43
	6H	19.02	19.29	20.18	20.44	22.02	18.05	18.32	19.21	19.47	21.05
	8H	19.33	19.57	20.50	20.71	22.33	18.35	18.59	19.52	19.74	21.35