

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: P1438932

Luminaire Tested: CB2-B-085U-085D-930-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438932  
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-930-1D-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

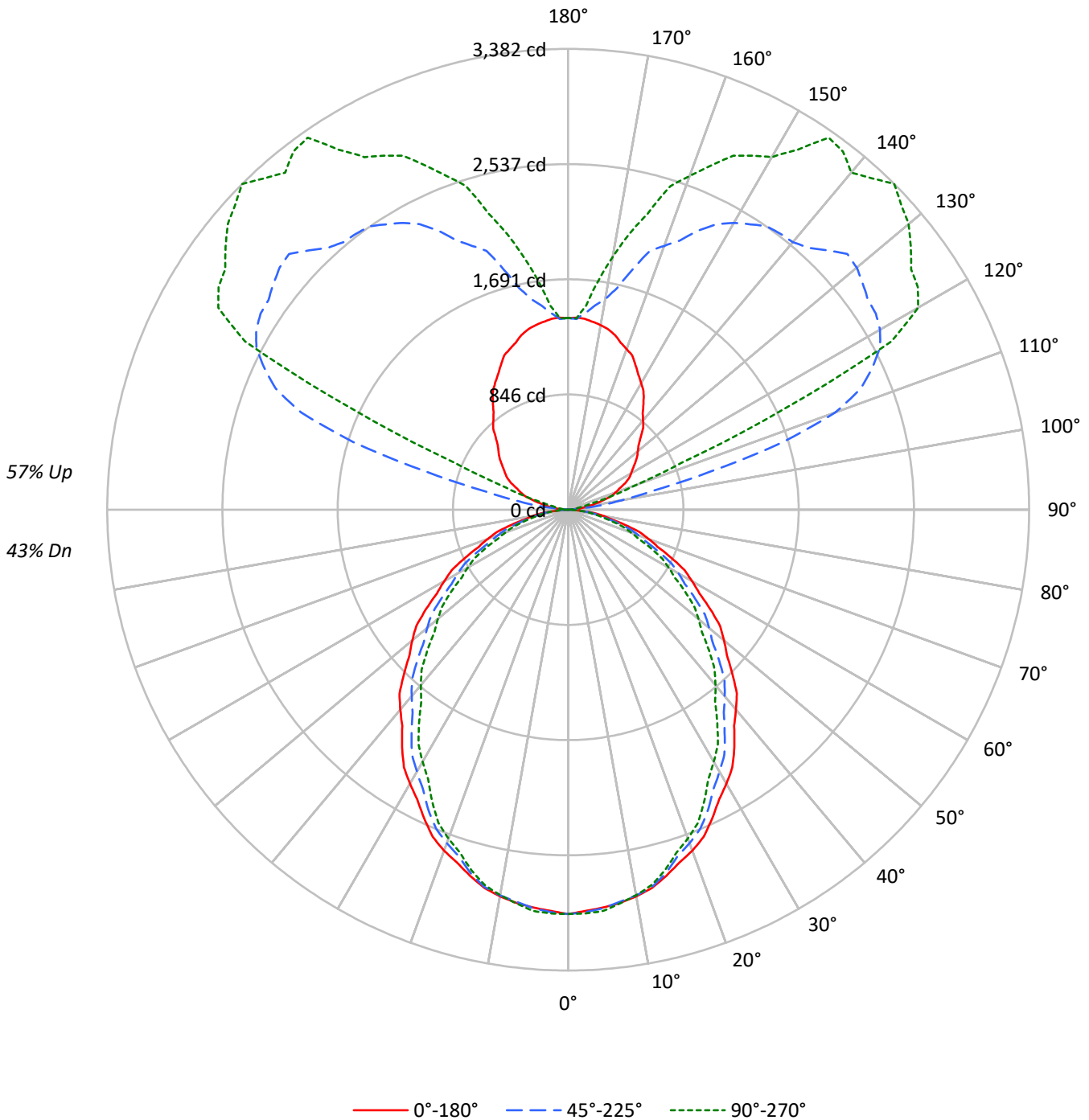
Lumens per Lamp: N/A  
Luminaire Lumens: 16157.5 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

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				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	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°	25841	25841	25841
5°	25623	25662	25841
10°	25477	25417	25396
15°	25073	24909	24704
20°	24679	24131	23794
25°	24016	23338	22684
30°	23351	22322	21476
35°	22585	21281	20266
40°	21775	20302	19114
45°	20959	19281	17992
50°	20224	18285	16900
55°	19319	17248	15869
60°	18283	16264	14840
65°	17182	15168	13813
70°	15967	13943	12497
75°	14526	12615	11316
80°	12989	11053	10256
85°	9992	9083	7494

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20959 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	1.7
10°-20°	777.8	4.8
20°-30°	1118.4	6.9
30°-40°	1257.1	7.8
40°-50°	1214.3	7.5
50°-60°	1026.0	6.4
60°-70°	737.0	4.6
70°-80°	402.8	2.5
80°-90°	107.0	0.7
90°-100°	105.3	0.7
100°-110°	652.4	4.0
110°-120°	1645.1	10.2
120°-130°	1977.6	12.2
130°-140°	1793.0	11.1
140°-150°	1429.8	8.8
150°-160°	975.3	6.0
160°-170°	515.8	3.2
170°-180°	143.6	0.9
0°-30°	2175.3	13.5
0°-40°	3432.4	21.2
0°-60°	5672.7	35.1
0°-90°	6919.5	42.8
90°-120°	2402.8	14.9
90°-150°	7603.3	47.1
90°-180°	9238.0	57.2
0°-180°	16157.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2967	2967	2967	2967	2967	
5°	2931	2971	2936	2936	2956	278
15°	2781	2805	2763	2736	2740	784
25°	2499	2502	2429	2374	2361	1151
35°	2124	2100	2002	1924	1906	1327
45°	1702	1666	1566	1483	1461	1315
55°	1272	1226	1136	1065	1045	1137
65°	834	803	736	684	670	827
75°	432	405	375	345	336	462
85°	100	93	91	79	75	119
90°	0	0	0	0	0	6
95°	54	138	42	30	30	69
105°	267	747	1079	271	182	280
115°	461	1018	2460	2290	1745	452
125°	600	1234	2685	3055	3072	537
135°	751	1368	2691	3150	3382	584
145°	964	1438	2539	3060	3333	602
155°	1170	1466	2260	2724	2866	538
165°	1327	1452	1824	2148	2248	372
175°	1406	1424	1448	1473	1503	133
180°	1406	1406	1406	1406	1406	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2967.3	2967.3	2967.3	2967.3	2967.3
2.5°	2947.3	2982.9	2956.4	2960.2	2965.5
5°	2931.0	2971.0	2935.5	2936.0	2956.0
7.5°	2910.1	2947.8	2903.2	2895.0	2913.7
10°	2881.0	2918.7	2874.2	2858.6	2871.9
12.5°	2842.8	2878.8	2836.0	2811.3	2822.8
15°	2781.0	2805.4	2762.8	2735.7	2740.1
17.5°	2713.8	2728.9	2667.4	2644.6	2640.1
20°	2662.9	2676.2	2603.8	2571.9	2567.4
22.5°	2597.4	2609.0	2532.9	2493.7	2487.5
25°	2499.3	2501.5	2428.8	2374.0	2360.7
27.5°	2396.6	2389.5	2308.9	2244.0	2226.6
30°	2322.1	2313.2	2219.8	2151.3	2135.7
32.5°	2242.1	2226.1	2132.6	2058.6	2043.0
35°	2124.4	2099.9	2001.7	1924.0	1906.3
37.5°	1999.0	1971.4	1874.9	1790.4	1770.4
40°	1915.4	1884.3	1785.8	1701.3	1681.3
42.5°	1831.7	1797.1	1696.8	1612.2	1590.4
45°	1701.8	1666.2	1565.5	1483.2	1460.9
47.5°	1578.2	1532.9	1435.0	1353.2	1331.0
50°	1492.7	1443.9	1349.6	1269.6	1247.4
52.5°	1405.5	1354.8	1264.2	1187.8	1165.6
55°	1272.4	1225.7	1136.0	1065.1	1045.2
57.5°	1140.6	1095.7	1013.8	946.1	926.5
60°	1049.7	1011.9	933.8	869.8	852.0
62.5°	962.4	928.2	853.8	795.3	777.5
65°	833.8	802.7	736.1	683.6	670.3
67.5°	708.9	677.8	623.9	576.8	561.7
70°	627.1	596.0	547.6	504.1	490.8
72.5°	548.9	516.1	476.7	436.9	427.1
75°	431.7	405.0	374.9	345.2	336.3
77.5°	328.1	302.3	280.4	259.4	257.2
80°	259.0	236.8	220.4	206.7	204.5
82.5°	193.6	176.7	165.9	155.9	155.4
85°	100.0	93.3	90.9	79.4	75.0
87.5°	29.1	29.1	25.4	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.5	24.0	9.7	9.7	9.7
95°	54.5	137.5	42.4	30.3	30.3
97.5°	113.9	329.6	229.1	61.6	53.3
100°	157.6	477.5	393.9	90.5	72.7
102.5°	201.2	606.5	621.8	143.5	111.5
105°	266.6	746.6	1078.7	270.7	181.8
107.5°	330.9	838.1	1653.2	558.5	336.9
110°	369.7	891.1	2084.6	870.8	521.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	408.4	944.1	2322.2	1395.8	899.3
115°	460.6	1017.5	2460.4	2290.4	1745.3
117.5°	504.2	1084.9	2579.1	2832.4	2672.5
120°	533.3	1137.7	2642.2	2910.0	2963.3
122.5°	562.4	1176.2	2676.1	2940.2	3040.9
125°	599.9	1233.9	2684.6	3054.6	3072.4
127.5°	637.5	1277.4	2724.6	3159.9	3168.2
130°	666.6	1306.5	2763.4	3195.1	3260.3
132.5°	700.5	1331.0	2777.9	3215.2	3313.6
135°	751.4	1367.7	2690.6	3150.4	3381.5
137.5°	815.7	1394.0	2607.0	3148.5	3297.8
140°	854.5	1399.6	2563.4	3218.1	3230.0
142.5°	898.1	1414.8	2553.7	3210.5	3312.4
145°	963.5	1437.6	2539.1	3060.4	3333.0
147.5°	1029.0	1452.1	2483.4	2894.8	3133.0
150°	1072.6	1457.8	2430.1	2839.4	2987.6
152.5°	1116.3	1463.5	2362.2	2805.0	2929.4
155°	1169.6	1465.8	2260.4	2724.2	2866.4
157.5°	1225.3	1458.8	2138.0	2576.6	2731.8
160°	1254.4	1450.0	2060.4	2469.5	2605.8
162.5°	1283.5	1445.9	1992.5	2329.5	2489.4
165°	1327.1	1451.6	1824.1	2147.5	2248.3
167.5°	1356.2	1446.3	1666.5	1931.5	2073.7
170°	1375.6	1446.7	1569.5	1766.2	1884.7
172.5°	1390.2	1423.3	1511.4	1615.0	1695.6
175°	1405.9	1423.7	1448.3	1473.3	1502.9
177.5°	1410.8	1420.2	1401.1	1396.4	1405.9
180°	1405.9	1405.9	1405.9	1405.9	1405.9



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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	17.60	18.39	18.61	19.41	20.78	16.50	17.29	17.51	18.31	19.68
	3H	19.24	19.94	20.26	20.98	22.37	18.02	18.73	19.05	19.76	21.15
	4H	19.86	20.53	20.90	21.57	22.97	18.59	19.26	19.63	20.30	21.70
	6H	20.26	20.88	21.31	21.92	23.33	18.96	19.57	20.01	20.62	22.03
	8H	20.41	20.99	21.46	22.05	23.46	19.10	19.68	20.15	20.74	22.15
	12H	20.48	21.04	21.54	22.09	23.52	19.16	19.71	20.22	20.77	22.20
4H	2H	18.00	18.67	19.04	19.70	21.10	17.12	17.79	18.17	18.83	20.23
	3H	19.86	20.42	20.92	21.48	22.90	18.85	19.41	19.91	20.48	21.89
	4H	20.60	21.11	21.66	22.17	23.60	19.52	20.03	20.58	21.09	22.52
	6H	21.12	21.56	22.19	22.64	24.07	19.99	20.43	21.06	21.51	22.94
	8H	21.32	21.73	22.39	22.80	24.25	20.18	20.59	21.25	21.66	23.11
	12H	21.42	21.80	22.51	22.88	24.33	20.27	20.64	21.36	21.72	23.17
8H	4H	20.75	21.16	21.82	22.24	23.68	19.79	20.20	20.86	21.27	22.72
	6H	21.39	21.73	22.49	22.85	24.29	20.39	20.73	21.49	21.84	23.29
	8H	21.68	21.98	22.78	23.08	24.54	20.67	20.96	21.77	22.06	23.52
	12H	21.85	22.12	22.96	23.21	24.71	20.81	21.07	21.92	22.17	23.67
12H	4H	20.73	21.10	21.82	22.19	23.64	19.79	20.16	20.88	21.25	22.70
	6H	21.42	21.72	22.52	22.82	24.28	20.45	20.75	21.55	21.85	23.31
	8H	21.73	22.00	22.84	23.09	24.59	20.76	21.02	21.86	22.11	23.61