

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: P1438942

Luminaire Tested: CB2-B-085U-120D-935-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438942  
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-120D-935-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

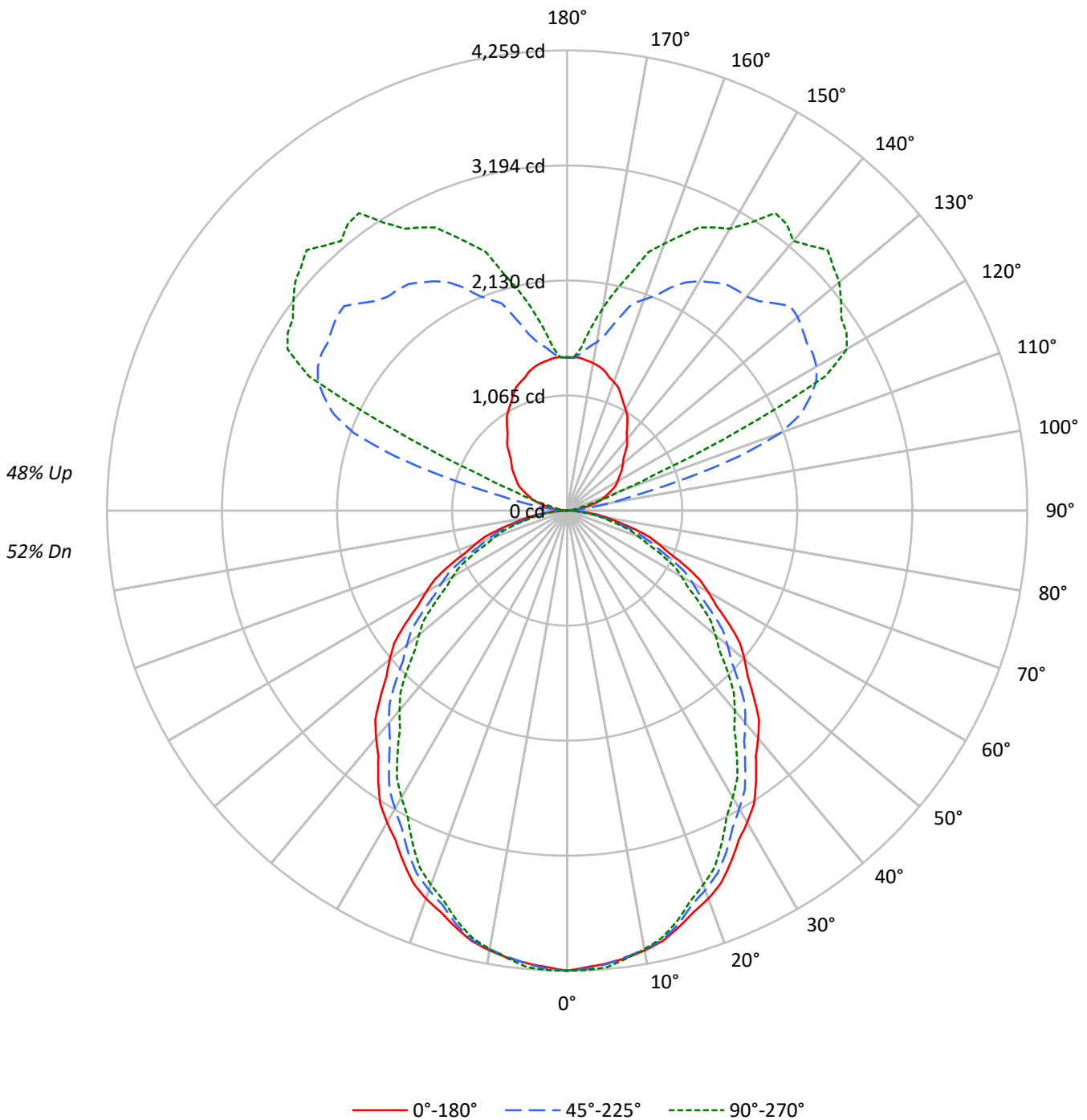
Lumens per Lamp: N/A  
Luminaire Lumens: 19245.3 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 146  
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	99	99	99	99	84	84	84	70	70	70	58	58	58	52																				
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44																				
2	90	82	76	71	83	76	71	67	65	61	58	55	52	50	45	43	42	37																				
3	82	73	65	60	75	67	61	56	58	53	49	49	45	42	40	38	36	32																				
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27																				
5	69	57	49	43	64	54	46	41	46	40	36	39	35	32	33	30	27	24																				
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21																				
7	59	47	39	33	54	44	37	31	38	32	28	32	28	25	27	24	21	19																				
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17																				
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15																				
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14																				

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

	0°	45°	90°
0°	37089	37089	37089
5°	36775	36832	37089
10°	36566	36479	36450
15°	35987	35752	35458
20°	35420	34634	34150
25°	34468	33497	32557
30°	33514	32038	30825
35°	32415	30544	29087
40°	31252	29139	27433
45°	30082	27671	25824
50°	29027	26243	24255
55°	27727	24756	22776
60°	26241	23344	21300
65°	24662	21773	19823
70°	22916	20011	17936
75°	20848	18106	16238
80°	18646	15863	14719
85°	14339	13030	10751

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.5	2.1
10°-20°	1116.4	5.8
20°-30°	1605.2	8.3
30°-40°	1804.2	9.4
40°-50°	1742.9	9.1
50°-60°	1472.6	7.7
60°-70°	1057.8	5.5
70°-80°	578.1	3.0
80°-90°	153.5	0.8
90°-100°	106.2	0.6
100°-110°	657.7	3.4
110°-120°	1658.6	8.6
120°-130°	1993.9	10.4
130°-140°	1807.8	9.4
140°-150°	1441.6	7.5
150°-160°	983.3	5.1
160°-170°	520.1	2.7
170°-180°	144.7	0.8
0°-30°	3122.1	16.2
0°-40°	4926.4	25.6
0°-60°	8141.9	42.3
0°-90°	9931.3	51.6
90°-120°	2422.6	12.6
90°-150°	7665.8	39.8
90°-180°	9314.0	48.4
0°-180°	19245.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4259	4259	4259	4259	4259	
5°	4207	4264	4213	4214	4243	399
15°	3992	4027	3965	3926	3933	1125
25°	3587	3590	3486	3407	3388	1651
35°	3049	3014	2873	2762	2736	1905
45°	2442	2392	2247	2129	2097	1887
55°	1826	1759	1630	1529	1500	1633
65°	1197	1152	1057	981	962	1187
75°	620	581	538	495	483	663
85°	144	134	130	114	108	171
90°	0	0	0	0	0	8
95°	55	139	43	30	30	70
105°	269	753	1088	273	183	282
115°	464	1026	2481	2309	1760	455
125°	605	1244	2707	3080	3098	541
135°	758	1379	2713	3176	3409	589
145°	972	1449	2560	3086	3360	607
155°	1179	1478	2279	2747	2890	543
165°	1338	1464	1839	2165	2267	375
175°	1418	1435	1460	1485	1515	134
180°	1418	1418	1418	1418	1418	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4258.9	4258.9	4258.9	4258.9	4258.9
2.5°	4230.2	4281.2	4243.2	4248.6	4256.3
5°	4206.7	4264.1	4213.2	4213.9	4242.6
7.5°	4176.7	4230.9	4166.9	4155.1	4181.9
10°	4135.0	4189.2	4125.2	4102.8	4121.9
12.5°	4080.2	4131.8	4070.4	4034.9	4051.5
15°	3991.5	4026.6	3965.4	3926.4	3932.8
17.5°	3895.0	3916.6	3828.4	3795.7	3789.3
20°	3821.9	3841.0	3737.1	3691.3	3684.9
22.5°	3728.0	3744.6	3635.4	3579.1	3570.2
25°	3587.1	3590.3	3486.0	3407.3	3388.2
27.5°	3439.7	3429.5	3313.8	3220.7	3195.8
30°	3332.8	3320.0	3186.0	3087.7	3065.4
32.5°	3218.0	3195.0	3060.8	2954.6	2932.3
35°	3049.0	3014.0	2873.0	2761.5	2736.0
37.5°	2869.0	2829.5	2691.0	2569.7	2541.0
40°	2749.0	2704.4	2563.2	2441.8	2413.1
42.5°	2629.0	2579.3	2435.3	2314.0	2282.7
45°	2442.5	2391.5	2246.8	2128.7	2096.8
47.5°	2265.1	2200.1	2059.7	1942.2	1910.3
50°	2142.5	2072.3	1937.0	1822.2	1790.3
52.5°	2017.3	1944.6	1814.4	1704.8	1672.9
55°	1826.2	1759.2	1630.5	1528.8	1500.1
57.5°	1637.0	1572.6	1455.1	1357.9	1329.8
60°	1506.6	1452.4	1340.3	1248.4	1222.9
62.5°	1381.4	1332.3	1225.5	1141.4	1115.9
65°	1196.8	1152.2	1056.6	981.1	962.0
67.5°	1017.4	972.8	895.5	827.8	806.1
70°	900.0	855.4	785.9	723.5	704.4
72.5°	787.9	740.7	684.2	627.1	613.1
75°	619.6	581.3	538.1	495.4	482.6
77.5°	470.9	433.9	402.4	372.3	369.1
80°	371.8	339.9	316.3	296.7	293.5
82.5°	277.8	253.6	238.1	223.7	223.1
85°	143.5	133.9	130.4	114.0	107.6
87.5°	41.7	41.7	36.5	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.7	24.2	9.8	9.8	9.8
95°	55.0	138.6	42.8	30.5	30.5
97.5°	114.9	332.3	231.0	62.1	53.8
100°	158.9	481.5	397.1	91.2	73.3
102.5°	202.8	611.5	626.9	144.7	112.4
105°	268.8	752.7	1087.6	272.9	183.3
107.5°	333.6	845.0	1666.8	563.1	339.7
110°	372.7	898.4	2101.8	877.9	525.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	411.8	951.9	2341.3	1407.3	906.7
115°	464.3	1025.9	2480.6	2309.2	1759.6
117.5°	508.3	1093.8	2600.3	2855.7	2694.4
120°	537.7	1147.0	2663.9	2933.9	2987.7
122.5°	567.0	1185.9	2698.1	2964.4	3065.9
125°	604.9	1244.1	2706.7	3079.8	3097.7
127.5°	642.8	1288.0	2747.0	3185.9	3194.2
130°	672.1	1317.3	2786.1	3221.4	3287.1
132.5°	706.3	1341.9	2800.8	3241.7	3340.9
135°	757.6	1378.9	2712.8	3176.3	3409.3
137.5°	822.4	1405.5	2628.5	3174.4	3325.0
140°	861.5	1411.1	2584.5	3244.6	3256.5
142.5°	905.5	1426.4	2574.7	3236.9	3339.6
145°	971.5	1449.4	2560.0	3085.6	3360.4
147.5°	1037.5	1464.0	2503.8	2918.6	3158.8
150°	1081.4	1469.8	2450.0	2862.8	3012.2
152.5°	1125.4	1475.5	2381.6	2828.0	2953.5
155°	1179.2	1477.9	2279.0	2746.6	2890.0
157.5°	1235.4	1470.8	2155.6	2597.8	2754.3
160°	1264.7	1461.9	2077.3	2489.8	2627.2
162.5°	1294.1	1457.8	2008.9	2348.6	2509.9
165°	1338.1	1463.5	1839.1	2165.2	2266.8
167.5°	1367.4	1458.2	1680.2	1947.4	2090.8
170°	1386.9	1458.6	1582.4	1780.7	1900.2
172.5°	1401.6	1435.1	1523.8	1628.3	1709.5
175°	1417.5	1435.4	1460.3	1485.4	1515.2
177.5°	1422.4	1431.9	1412.6	1407.9	1417.5
180°	1417.5	1417.5	1417.5	1417.5	1417.5



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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	19.70	20.57	20.65	21.53	22.78	18.60	19.47	19.55	20.43	21.68
	3H	21.35	22.12	22.30	23.09	24.36	20.13	20.90	21.09	21.87	23.15
	4H	21.98	22.71	22.95	23.68	24.96	20.70	21.44	21.68	22.41	23.69
	6H	22.38	23.05	23.36	24.03	25.33	21.08	21.75	22.06	22.73	24.02
	8H	22.53	23.17	23.52	24.17	25.46	21.22	21.86	22.20	22.85	24.14
	12H	22.60	23.21	23.60	24.20	25.52	21.28	21.89	22.27	22.88	24.19
4H	2H	20.11	20.84	21.09	21.82	23.10	19.24	19.97	20.21	20.94	22.22
	3H	21.98	22.59	22.97	23.60	24.89	20.97	21.58	21.96	22.59	23.88
	4H	22.73	23.29	23.72	24.28	25.60	21.65	22.20	22.64	23.20	24.52
	6H	23.25	23.73	24.25	24.75	26.06	22.12	22.60	23.13	23.62	24.94
	8H	23.45	23.90	24.46	24.91	26.24	22.31	22.76	23.32	23.77	25.10
	12H	23.56	23.96	24.59	24.99	26.33	22.40	22.80	23.43	23.83	25.17
8H	4H	22.88	23.33	23.89	24.35	25.68	21.92	22.37	22.93	23.38	24.71
	6H	23.53	23.90	24.56	24.95	26.28	22.53	22.90	23.56	23.95	25.28
	8H	23.82	24.14	24.86	25.18	26.53	22.80	23.13	23.84	24.17	25.51
	12H	23.99	24.28	25.04	25.31	26.70	22.95	23.24	23.99	24.27	25.66
12H	4H	22.86	23.27	23.89	24.30	25.63	21.92	22.33	22.95	23.36	24.69
	6H	23.56	23.88	24.60	24.92	26.27	22.59	22.91	23.63	23.96	25.30
	8H	23.87	24.16	24.92	25.19	26.59	22.89	23.18	23.94	24.22	25.61