

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: P1438940

Luminaire Tested: CB2-B-085U-120D-930-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438940  
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-930-1D-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

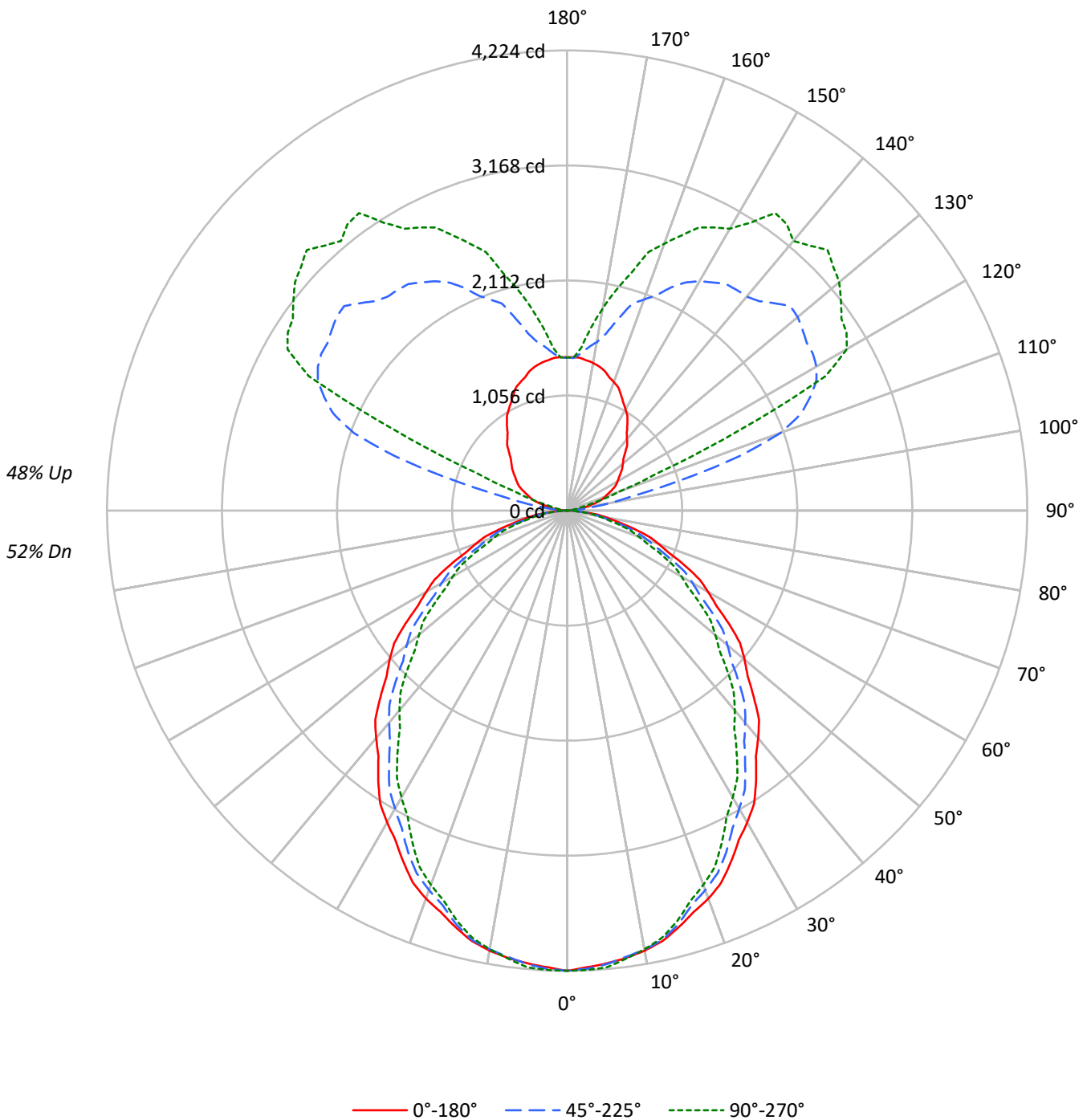
Lumens per Lamp: N/A  
Luminaire Lumens: 19088.2 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

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					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°	36786	36786	36786
5°	36475	36532	36786
10°	36267	36181	36153
15°	35693	35459	35168
20°	35131	34351	33872
25°	34187	33224	32291
30°	33241	31777	30573
35°	32151	30294	28850
40°	30997	28901	27210
45°	29837	27446	25613
50°	28790	26029	24058
55°	27501	24554	22589
60°	26027	23153	21125
65°	24460	21594	19661
70°	22730	19848	17788
75°	20677	17958	16107
80°	18491	15732	14599
85°	14219	12930	10662

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29837 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.2	2.1
10°-20°	1107.3	5.8
20°-30°	1592.1	8.3
30°-40°	1789.5	9.4
40°-50°	1728.7	9.1
50°-60°	1460.6	7.7
60°-70°	1049.1	5.5
70°-80°	573.4	3.0
80°-90°	152.3	0.8
90°-100°	105.3	0.6
100°-110°	652.4	3.4
110°-120°	1645.1	8.6
120°-130°	1977.6	10.4
130°-140°	1793.0	9.4
140°-150°	1429.8	7.5
150°-160°	975.3	5.1
160°-170°	515.8	2.7
170°-180°	143.6	0.8
0°-30°	3096.7	16.2
0°-40°	4886.2	25.6
0°-60°	8075.4	42.3
0°-90°	9850.2	51.6
90°-120°	2402.8	12.6
90°-150°	7603.3	39.8
90°-180°	9238.0	48.4
0°-180°	19088.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4172	4229	4179	4180	4208	396
15°	3959	3994	3933	3894	3901	1116
25°	3558	3561	3458	3380	3360	1638
35°	3024	2989	2850	2739	2714	1889
45°	2423	2372	2228	2111	2080	1872
55°	1811	1745	1617	1516	1488	1619
65°	1187	1143	1048	973	954	1177
75°	614	577	534	491	479	657
85°	142	133	129	113	107	169
90°	0	0	0	0	0	8
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°	4224.1	4224.1	4224.1	4224.1	4224.1
2.5°	4195.7	4246.3	4208.6	4214.0	4221.5
5°	4172.4	4229.3	4178.9	4179.5	4208.0
7.5°	4142.6	4196.4	4132.9	4121.2	4147.8
10°	4101.2	4155.0	4091.5	4069.3	4088.3
12.5°	4046.9	4098.1	4037.2	4002.0	4018.4
15°	3958.9	3993.7	3933.0	3894.4	3900.7
17.5°	3863.2	3884.7	3797.2	3764.7	3758.4
20°	3790.7	3809.7	3706.6	3661.2	3654.9
22.5°	3697.6	3714.0	3605.7	3549.9	3541.0
25°	3557.8	3561.0	3457.6	3379.5	3360.5
27.5°	3411.7	3401.5	3286.8	3194.4	3169.7
30°	3305.6	3292.9	3160.0	3062.5	3040.3
32.5°	3191.7	3168.9	3035.8	2930.5	2908.4
35°	3024.2	2989.4	2849.5	2739.0	2713.7
37.5°	2845.6	2806.4	2669.0	2548.7	2520.2
40°	2726.6	2682.3	2542.2	2421.9	2393.5
42.5°	2607.6	2558.2	2415.5	2295.1	2264.1
45°	2422.6	2372.0	2228.5	2111.3	2079.7
47.5°	2246.6	2182.1	2042.9	1926.3	1894.7
50°	2125.0	2055.4	1921.2	1807.3	1775.7
52.5°	2000.8	1928.7	1799.6	1690.9	1659.2
55°	1811.3	1744.9	1617.2	1516.3	1487.8
57.5°	1623.7	1559.8	1443.2	1346.8	1319.0
60°	1494.3	1440.5	1329.3	1238.2	1212.9
62.5°	1370.1	1321.4	1215.5	1132.1	1106.8
65°	1187.0	1142.8	1047.9	973.1	954.1
67.5°	1009.1	964.9	888.2	821.1	799.5
70°	892.7	848.4	779.5	717.6	698.6
72.5°	781.4	734.6	678.6	622.0	608.1
75°	614.5	576.6	533.7	491.3	478.7
77.5°	467.0	430.4	399.1	369.3	366.1
80°	368.7	337.1	313.7	294.3	291.1
82.5°	275.6	251.5	236.1	221.9	221.2
85°	142.3	132.8	129.4	113.1	106.7
87.5°	41.4	41.4	36.2	31.1	31.1
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	19.67	20.54	20.62	21.50	22.75	18.57	19.44	19.52	20.40	21.65
	3H	21.32	22.09	22.28	23.06	24.34	20.10	20.88	21.06	21.85	23.12
	4H	21.95	22.68	22.92	23.65	24.93	20.68	21.41	21.65	22.38	23.66
	6H	22.35	23.03	23.33	24.00	25.30	21.05	21.72	22.03	22.70	23.99
	8H	22.50	23.14	23.49	24.14	25.43	21.19	21.83	22.18	22.83	24.12
	12H	22.57	23.18	23.57	24.17	25.49	21.25	21.86	22.24	22.85	24.17
4H	2H	20.08	20.82	21.06	21.79	23.07	19.21	19.94	20.19	20.92	22.20
	3H	21.95	22.56	22.94	23.57	24.86	20.94	21.55	21.93	22.56	23.85
	4H	22.70	23.26	23.69	24.25	25.57	21.62	22.18	22.61	23.17	24.49
	6H	23.22	23.70	24.23	24.72	26.04	22.09	22.57	23.10	23.59	24.91
	8H	23.42	23.87	24.43	24.89	26.22	22.28	22.73	23.29	23.74	25.08
	12H	23.53	23.94	24.56	24.96	26.30	22.37	22.78	23.40	23.81	25.14
8H	4H	22.86	23.30	23.86	24.32	25.65	21.89	22.34	22.90	23.35	24.68
	6H	23.50	23.87	24.53	24.92	26.25	22.50	22.87	23.53	23.92	25.25
	8H	23.79	24.11	24.83	25.16	26.50	22.77	23.10	23.81	24.14	25.49
	12H	23.96	24.25	25.01	25.29	26.68	22.92	23.21	23.97	24.24	25.63
12H	4H	22.84	23.24	23.86	24.27	25.61	21.90	22.30	22.92	23.33	24.67
	6H	23.53	23.85	24.57	24.89	26.24	22.56	22.89	23.60	23.93	25.27
	8H	23.84	24.13	24.89	25.17	26.56	22.87	23.15	23.91	24.19	25.58