

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: P1438939

Luminaire Tested: CB2-B-085U-120D-930-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438939  
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-4  
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**

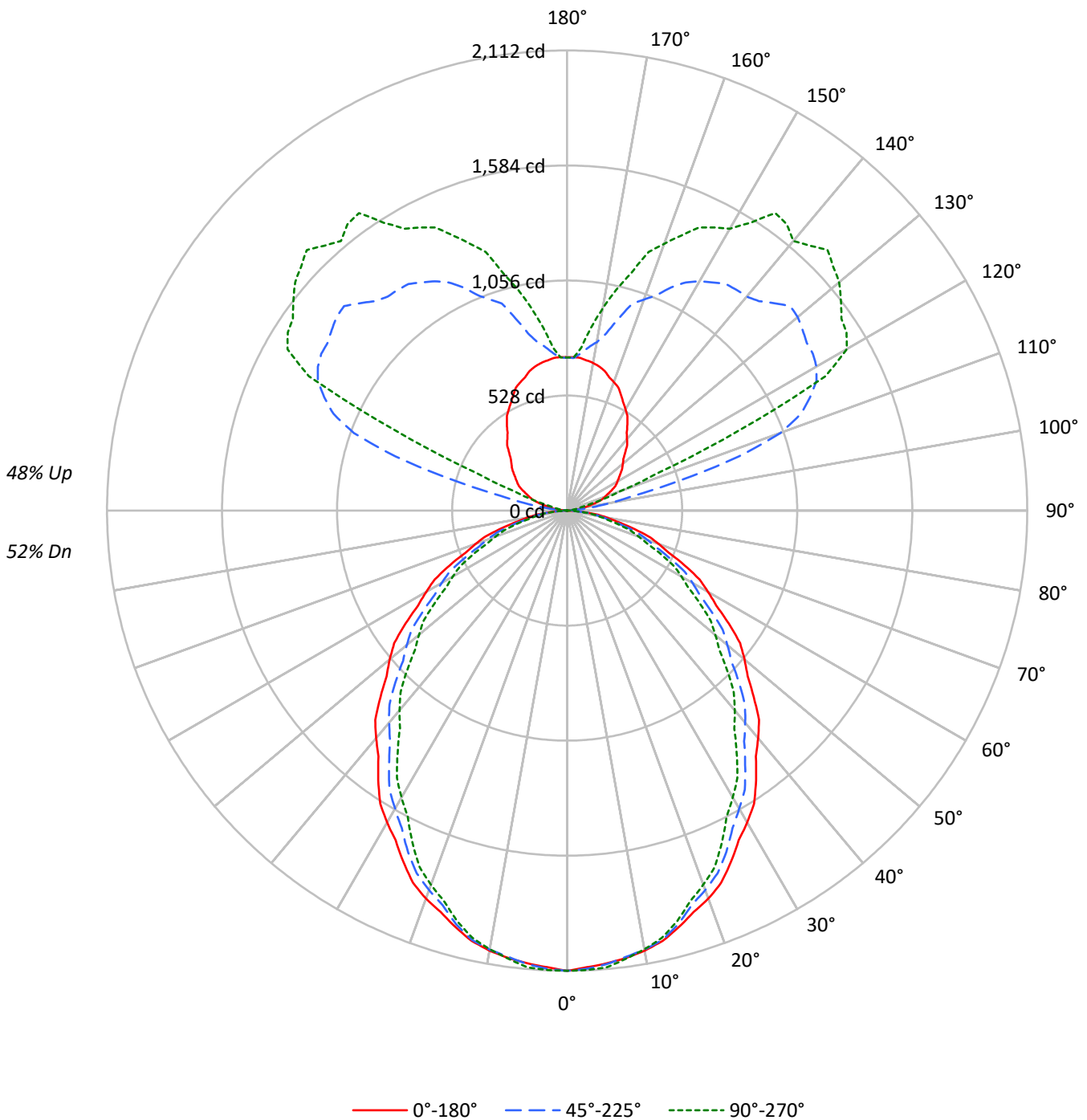
Lumens per Lamp: N/A  
Luminaire Lumens: 9544.1 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 67.8  
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	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°	36787	36787	36787
5°	36475	36531	36786
10°	36267	36182	36152
15°	35694	35459	35167
20°	35132	34351	33871
25°	34187	33224	32292
30°	33241	31777	30574
35°	32151	30295	28849
40°	30997	28901	27209
45°	29837	27447	25615
50°	28790	26029	24056
55°	27500	24554	22589
60°	26025	23155	21127
65°	24460	21596	19663
70°	22728	19845	17788
75°	20680	17954	16104
80°	18496	15737	14594
85°	14229	12930	10672

**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°	198.6	2.1
10°-20°	553.7	5.8
20°-30°	796.1	8.3
30°-40°	894.8	9.4
40°-50°	864.3	9.1
50°-60°	730.3	7.7
60°-70°	524.6	5.5
70°-80°	286.7	3.0
80°-90°	76.1	0.8
90°-100°	52.7	0.6
100°-110°	326.2	3.4
110°-120°	822.6	8.6
120°-130°	988.8	10.4
130°-140°	896.5	9.4
140°-150°	714.9	7.5
150°-160°	487.7	5.1
160°-170°	257.9	2.7
170°-180°	71.8	0.8
0°-30°	1548.3	16.2
0°-40°	2443.1	25.6
0°-60°	4037.7	42.3
0°-90°	4925.1	51.6
90°-120°	1201.4	12.6
90°-150°	3801.6	39.8
90°-180°	4619.0	48.4
0°-180°	9544.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2086	2115	2089	2090	2104	198
15°	1980	1997	1966	1947	1950	558
25°	1779	1780	1729	1690	1680	819
35°	1512	1495	1425	1370	1357	945
45°	1211	1186	1114	1056	1040	936
55°	906	872	809	758	744	810
65°	594	571	524	487	477	589
75°	307	288	267	246	239	329
85°	71	66	65	56	53	85
90°	0	0	0	0	0	4
95°	27	69	21	15	15	35
105°	133	373	539	135	91	140
115°	230	509	1230	1145	873	226
125°	300	617	1342	1527	1536	269
135°	376	684	1345	1575	1691	292
145°	482	719	1270	1530	1666	301
155°	585	733	1130	1362	1433	269
165°	664	726	912	1074	1124	186
175°	703	712	724	737	751	67
180°	703	703	703	703	703	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2112.1	2112.1	2112.1	2112.1	2112.1
2.5°	2097.8	2123.1	2104.3	2107.0	2110.8
5°	2086.2	2114.7	2089.4	2089.7	2104.0
7.5°	2071.3	2098.2	2066.5	2060.6	2073.9
10°	2050.6	2077.5	2045.8	2034.7	2044.1
12.5°	2023.4	2049.1	2018.6	2001.0	2009.2
15°	1979.5	1996.8	1966.5	1947.2	1950.3
17.5°	1931.6	1942.3	1898.6	1882.4	1879.2
20°	1895.4	1904.8	1853.3	1830.6	1827.4
22.5°	1848.8	1857.0	1802.9	1774.9	1770.5
25°	1778.9	1780.5	1728.8	1689.8	1680.3
27.5°	1705.8	1700.8	1643.4	1597.2	1584.9
30°	1652.8	1646.5	1580.0	1531.2	1520.2
32.5°	1595.9	1584.5	1517.9	1465.3	1454.2
35°	1512.1	1494.7	1424.8	1369.5	1356.8
37.5°	1422.8	1403.2	1334.5	1274.4	1260.1
40°	1363.3	1341.2	1271.1	1211.0	1196.7
42.5°	1303.8	1279.1	1207.7	1147.5	1132.0
45°	1211.3	1186.0	1114.3	1055.7	1039.9
47.5°	1123.3	1091.1	1021.4	963.2	947.4
50°	1062.5	1027.7	960.6	903.7	887.8
52.5°	1000.4	964.3	899.8	845.4	829.6
55°	905.6	872.4	808.6	758.1	743.9
57.5°	811.8	779.9	721.6	673.4	659.5
60°	747.1	720.3	664.7	619.1	606.5
62.5°	685.0	660.7	607.7	566.1	553.4
65°	593.5	571.4	524.0	486.6	477.1
67.5°	504.6	482.4	444.1	410.5	399.8
70°	446.3	424.2	389.7	358.8	349.3
72.5°	390.7	367.3	339.3	311.0	304.0
75°	307.3	288.3	266.8	245.7	239.3
77.5°	233.5	215.2	199.6	184.6	183.1
80°	184.4	168.5	156.9	147.1	145.5
82.5°	137.8	125.8	118.1	110.9	110.6
85°	71.2	66.4	64.7	56.5	53.4
87.5°	20.7	20.7	18.1	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.3	12.0	4.8	4.8	4.8
95°	27.3	68.7	21.2	15.1	15.1
97.5°	57.0	164.8	114.5	30.8	26.7
100°	78.8	238.8	196.9	45.2	36.4
102.5°	100.6	303.2	310.9	71.8	55.8
105°	133.3	373.3	539.3	135.3	90.9
107.5°	165.4	419.0	826.6	279.3	168.5
110°	184.8	445.5	1042.3	435.4	260.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	204.2	472.0	1161.1	697.9	449.7
115°	230.3	508.8	1230.2	1145.2	872.6
117.5°	252.1	542.4	1289.6	1416.2	1336.2
120°	266.6	568.8	1321.1	1455.0	1481.7
122.5°	281.2	588.1	1338.0	1470.1	1520.5
125°	300.0	617.0	1342.3	1527.3	1536.2
127.5°	318.8	638.7	1362.3	1579.9	1584.1
130°	333.3	653.3	1381.7	1597.5	1630.1
132.5°	350.3	665.5	1388.9	1607.6	1656.8
135°	375.7	683.8	1345.3	1575.2	1690.7
137.5°	407.8	697.0	1303.5	1574.3	1648.9
140°	427.2	699.8	1281.7	1609.1	1615.0
142.5°	449.0	707.4	1276.8	1605.2	1656.2
145°	481.8	718.8	1269.6	1530.2	1666.5
147.5°	514.5	726.0	1241.7	1447.4	1566.5
150°	536.3	728.9	1215.0	1419.7	1493.8
152.5°	558.1	731.7	1181.1	1402.5	1464.7
155°	584.8	732.9	1130.2	1362.1	1433.2
157.5°	612.7	729.4	1069.0	1288.3	1365.9
160°	627.2	725.0	1030.2	1234.8	1302.9
162.5°	641.8	722.9	996.3	1164.7	1244.7
165°	663.6	725.8	912.0	1073.8	1124.1
167.5°	678.1	723.1	833.2	965.8	1036.9
170°	687.8	723.4	784.8	883.1	942.3
172.5°	695.1	711.7	755.7	807.5	847.8
175°	703.0	711.8	724.2	736.6	751.4
177.5°	705.4	710.1	700.5	698.2	703.0
180°	703.0	703.0	703.0	703.0	703.0



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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	23.80	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