

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: P1438934

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

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438934
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

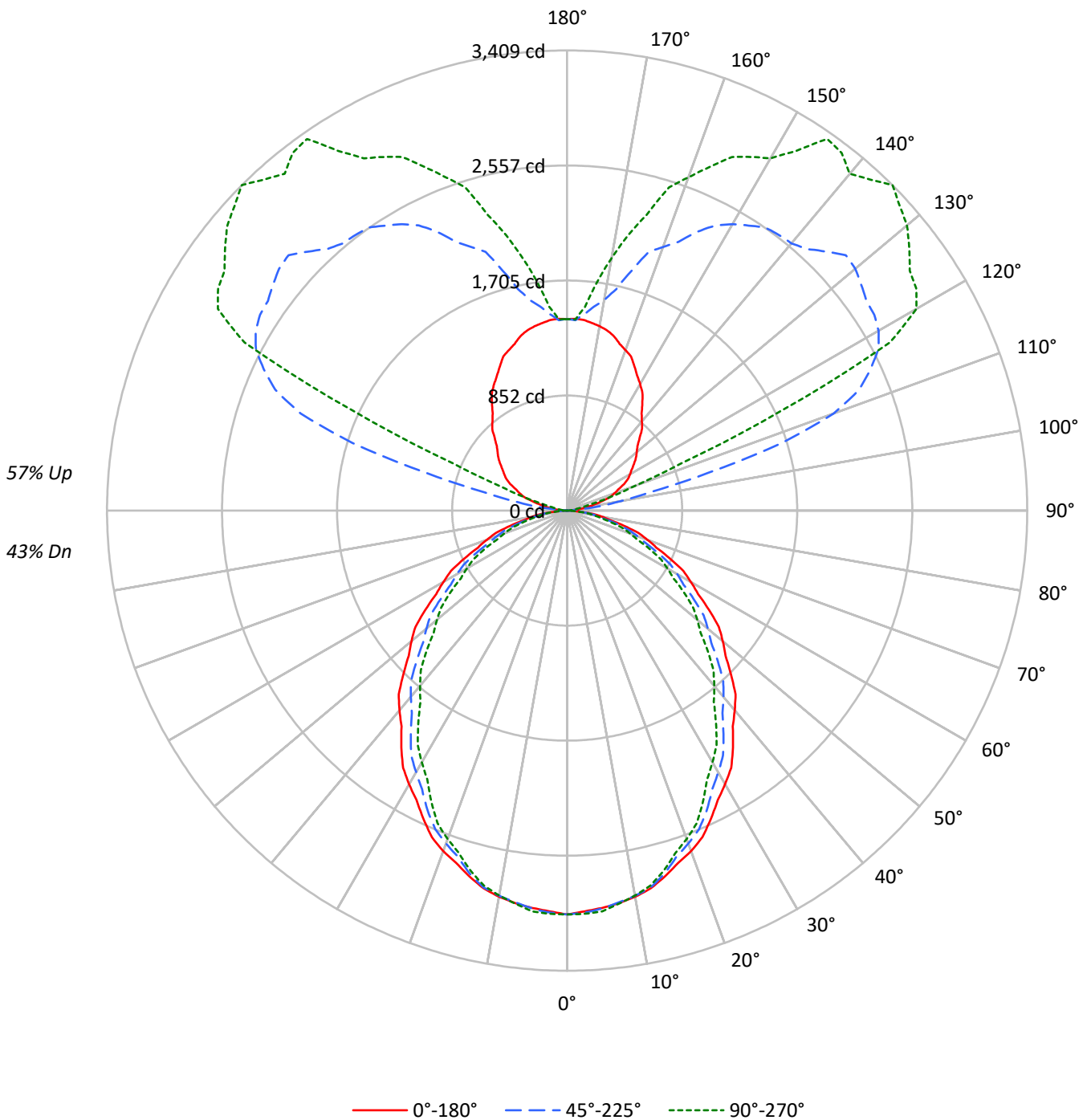
Lumens per Lamp: N/A
Luminaire Lumens: 16290.4 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 113.4
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P1438934

CATALOG NUMBER: CB2-B-085U-085D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	26054	26054	26054
5°	25833	25874	26054
10°	25686	25625	25605
15°	25280	25115	24908
20°	24882	24329	23990
25°	24213	23530	22870
30°	23543	22506	21653
35°	22771	21456	20432
40°	21953	20469	19272
45°	21132	19438	18141
50°	20390	18435	17038
55°	19477	17391	15998
60°	18433	16398	14961
65°	17324	15294	13926
70°	16097	14058	12599
75°	14643	12719	11407
80°	13094	11144	10341
85°	10072	9153	7554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21132 cd/sqm



TEST NUMBER: P1438934

CATALOG NUMBER: CB2-B-085U-085D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.7
10°-20°	784.2	4.8
20°-30°	1127.6	6.9
30°-40°	1267.4	7.8
40°-50°	1224.3	7.5
50°-60°	1034.5	6.4
60°-70°	743.0	4.6
70°-80°	406.1	2.5
80°-90°	107.9	0.7
90°-100°	106.2	0.7
100°-110°	657.7	4.0
110°-120°	1658.6	10.2
120°-130°	1993.9	12.2
130°-140°	1807.8	11.1
140°-150°	1441.6	8.8
150°-160°	983.3	6.0
160°-170°	520.1	3.2
170°-180°	144.7	0.9
0°-30°	2193.2	13.5
0°-40°	3460.6	21.2
0°-60°	5719.4	35.1
0°-90°	6976.4	42.8
90°-120°	2422.6	14.9
90°-150°	7665.8	47.1
90°-180°	9314.0	57.2
0°-180°	16290.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2992	2992	2992	2992	2992	
5°	2955	2995	2960	2960	2980	281
15°	2804	2828	2786	2758	2763	790
25°	2520	2522	2449	2394	2380	1160
35°	2142	2117	2018	1940	1922	1338
45°	1716	1680	1578	1495	1473	1326
55°	1283	1236	1145	1074	1054	1147
65°	841	809	742	689	676	834
75°	435	408	378	348	339	466
85°	101	94	92	80	76	120
90°	0	0	0	0	0	6
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	

TEST NUMBER: P1438934

CATALOG NUMBER: CB2-B-085U-085D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2991.7	2991.7	2991.7	2991.7	2991.7
2.5°	2971.6	3007.4	2980.7	2984.5	2989.9
5°	2955.1	2995.4	2959.7	2960.1	2980.3
7.5°	2934.0	2972.1	2927.1	2918.9	2937.7
10°	2904.7	2942.8	2897.8	2882.1	2895.5
12.5°	2866.2	2902.5	2859.3	2834.4	2846.0
15°	2803.9	2828.5	2785.6	2758.2	2762.7
17.5°	2736.1	2751.3	2689.4	2666.3	2661.9
20°	2684.8	2698.2	2625.2	2593.0	2588.6
22.5°	2618.8	2630.4	2553.7	2514.2	2507.9
25°	2519.8	2522.1	2448.8	2393.5	2380.1
27.5°	2416.3	2409.1	2327.9	2262.4	2244.9
30°	2341.2	2332.2	2238.1	2169.0	2153.3
32.5°	2260.5	2244.4	2150.1	2075.5	2059.8
35°	2141.9	2117.2	2018.2	1939.9	1921.9
37.5°	2015.4	1987.6	1890.3	1805.1	1785.0
40°	1931.1	1899.8	1800.5	1715.3	1695.2
42.5°	1846.8	1811.9	1710.7	1625.5	1603.5
45°	1715.8	1679.9	1578.3	1495.4	1473.0
47.5°	1591.2	1545.5	1446.8	1364.3	1341.9
50°	1505.0	1455.8	1360.7	1280.0	1257.6
52.5°	1417.1	1366.0	1274.6	1197.6	1175.2
55°	1282.8	1235.8	1145.4	1073.9	1053.7
57.5°	1150.0	1104.7	1022.1	953.9	934.2
60°	1058.3	1020.3	941.5	877.0	859.0
62.5°	970.4	935.9	860.9	801.8	783.9
65°	840.7	809.4	742.2	689.2	675.8
67.5°	714.7	683.4	629.0	581.5	566.3
70°	632.2	600.9	552.1	508.2	494.8
72.5°	553.4	520.3	480.6	440.5	430.7
75°	435.2	408.4	378.0	348.0	339.0
77.5°	330.8	304.8	282.7	261.6	259.3
80°	261.1	238.7	222.2	208.4	206.2
82.5°	195.2	178.1	167.2	157.1	156.7
85°	100.8	94.1	91.6	80.1	75.6
87.5°	29.3	29.3	25.7	22.0	22.0
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



TEST NUMBER: P1438934

CATALOG NUMBER: CB2-B-085U-085D-935-1D-UNV-STD-W-8

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



TEST NUMBER: P1438934

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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	17.62	18.42	18.64	19.44	20.81	16.52	17.32	17.54	18.34	19.71
	3H	19.26	19.97	20.29	21.01	22.40	18.05	18.76	19.08	19.79	21.18
	4H	19.89	20.56	20.93	21.60	23.00	18.62	19.29	19.66	20.33	21.72
	6H	20.29	20.91	21.34	21.95	23.36	18.99	19.60	20.04	20.64	22.05
	8H	20.43	21.02	21.49	22.08	23.49	19.12	19.71	20.18	20.77	22.17
	12H	20.51	21.06	21.57	22.12	23.55	19.18	19.74	20.24	20.79	22.22
4H	2H	18.02	18.70	19.07	19.73	21.13	17.15	17.82	18.20	18.86	20.26
	3H	19.89	20.45	20.94	21.51	22.92	18.88	19.44	19.93	20.50	21.92
	4H	20.63	21.14	21.69	22.20	23.63	19.55	20.06	20.61	21.12	22.55
	6H	21.15	21.59	22.22	22.67	24.09	20.02	20.46	21.09	21.54	22.97
	8H	21.35	21.76	22.42	22.83	24.28	20.21	20.62	21.28	21.69	23.14
	12H	21.45	21.82	22.54	22.91	24.36	20.29	20.67	21.38	21.75	23.20
8H	4H	20.78	21.19	21.85	22.26	23.71	19.82	20.23	20.89	21.30	22.74
	6H	21.42	21.76	22.52	22.87	24.31	20.42	20.76	21.51	21.87	23.31
	8H	21.71	22.01	22.81	23.11	24.57	20.69	20.99	21.80	22.09	23.55
	12H	21.88	22.14	22.99	23.24	24.74	20.84	21.10	21.95	22.19	23.69
12H	4H	20.76	21.13	21.85	22.22	23.66	19.82	20.19	20.91	21.28	22.72
	6H	21.45	21.75	22.55	22.84	24.30	20.48	20.78	21.58	21.88	23.34
	8H	21.76	22.02	22.87	23.12	24.62	20.78	21.05	21.89	22.14	23.64