

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: P1438736

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

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438736  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-085U-085D-935-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

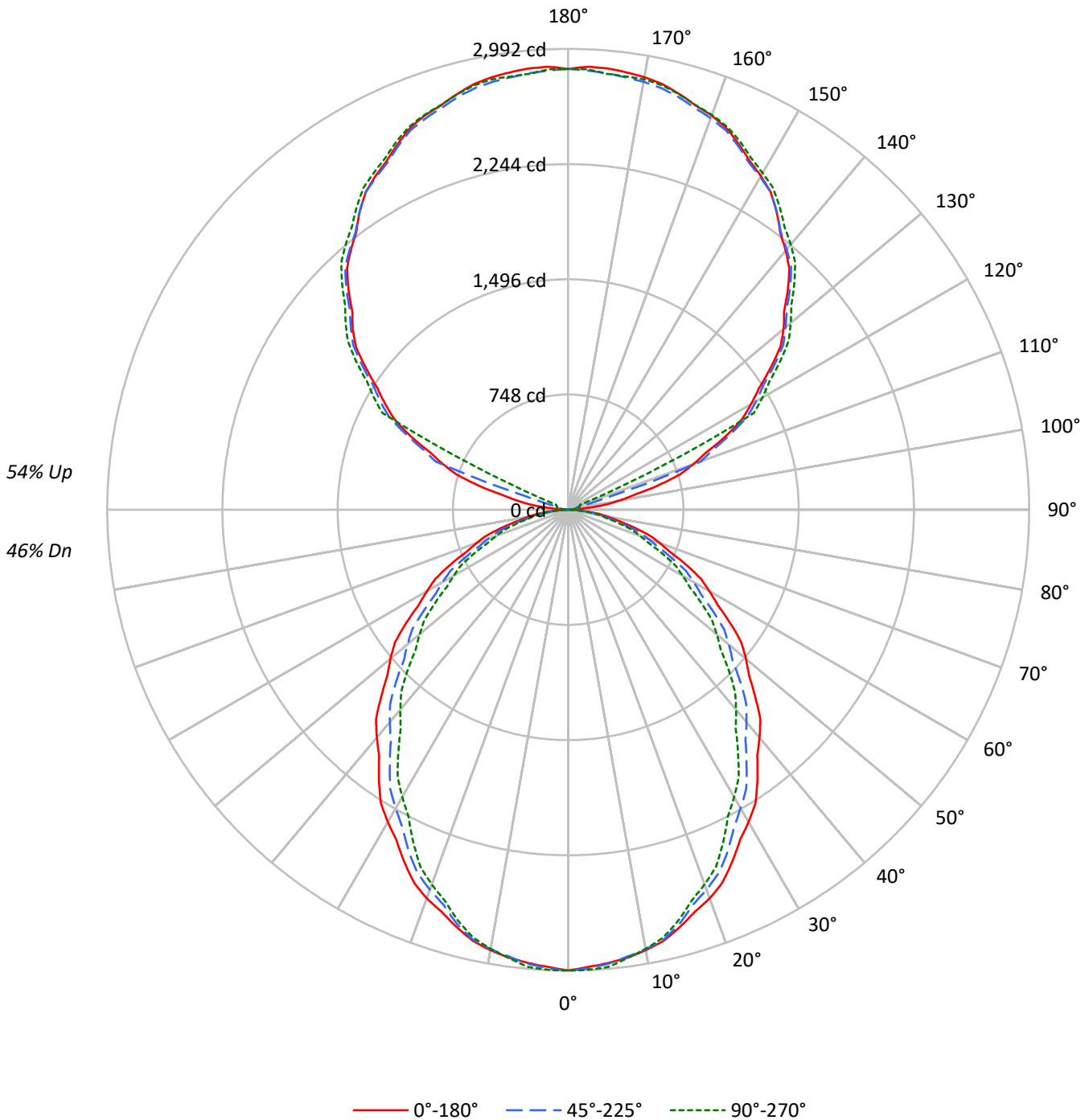
Lumens per Lamp: N/A  
Luminaire Lumens: 15137.1 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

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

TEST NUMBER: P1438736

CATALOG NUMBER: CB2-085U-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					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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46								
1	97	93	89	86	89	85	82	79	71	69	67	59	57	55	47	46	45	39								
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	39	38	33								
3	81	72	64	59	74	66	60	55	55	51	47	46	42	40	37	34	32	28								
4	74	63	56	50	68	59	52	46	49	44	40	41	37	34	33	30	28	24								
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21								
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19								
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17								
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15								
9	50	38	31	26	46	35	29	24	30	25	21	26	21	19	21	18	16	14								
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	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: P1438736

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.3	1.9
10°-20°	784.2	5.2
20°-30°	1127.6	7.4
30°-40°	1267.4	8.4
40°-50°	1224.3	8.1
50°-60°	1034.5	6.8
60°-70°	743.0	4.9
70°-80°	406.1	2.7
80°-90°	108.0	0.7
90°-100°	49.9	0.3
100°-110°	317.4	2.1
110°-120°	1008.6	6.7
120°-130°	1463.6	9.7
130°-140°	1574.1	10.4
140°-150°	1482.1	9.8
150°-160°	1207.4	8.0
160°-170°	785.8	5.2
170°-180°	271.7	1.8
0°-30°	2193.2	14.5
0°-40°	3460.6	22.9
0°-60°	5719.4	37.8
0°-90°	6976.6	46.1
90°-120°	1375.9	9.1
90°-150°	5895.7	38.9
90°-180°	8161.0	53.9
0°-180°	15137.1	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	2	2	8
95°	114	33	35	23	21	144
105°	596	618	62	72	77	628
115°	1128	1152	1163	1176	675	1109
125°	1602	1630	1631	1658	1680	1432
135°	2016	2040	2036	2049	2076	1554
145°	2359	2377	2361	2364	2394	1475
155°	2620	2636	2608	2602	2638	1208
165°	2794	2802	2773	2761	2790	789
175°	2876	2883	2845	2827	2841	274
180°	2862	2862	2862	2862	2862	



TEST NUMBER: P1438736

CATALOG NUMBER: CB2-085U-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	22.4	22.4
90°	0.0	0.0	0.0	2.1	2.1
92.5°	31.5	12.0	8.3	12.0	12.0
95°	113.8	32.9	35.2	22.7	20.7
97.5°	236.3	53.0	50.9	55.9	57.9
100°	329.0	108.5	55.9	64.2	66.2
102.5°	431.7	408.6	57.5	69.2	72.8
105°	596.0	618.2	62.1	72.5	76.6
107.5°	757.4	779.7	288.9	75.0	79.1
110°	865.0	887.3	914.7	76.7	80.7



TEST NUMBER: P1438736

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	966.0	993.1	1014.0	170.6	84.0
115°	1127.8	1152.1	1163.0	1176.4	674.6
117.5°	1270.6	1300.6	1312.8	1336.1	1358.8
120°	1370.0	1398.3	1407.2	1430.5	1454.8
122.5°	1467.6	1492.7	1498.3	1524.8	1547.5
125°	1601.7	1630.1	1630.7	1658.1	1680.4
127.5°	1735.8	1760.1	1759.0	1779.4	1804.1
130°	1825.2	1841.4	1841.8	1858.9	1885.2
132.5°	1899.7	1922.4	1922.9	1936.7	1963.0
135°	2015.6	2039.9	2036.3	2049.3	2075.6
137.5°	2124.5	2147.9	2141.4	2152.4	2179.5
140°	2195.6	2215.9	2206.0	2217.0	2247.4
142.5°	2261.9	2282.1	2267.2	2276.7	2308.6
145°	2359.1	2377.3	2361.2	2364.0	2394.3
147.5°	2445.6	2463.4	2444.0	2446.7	2475.0
150°	2501.9	2518.1	2493.6	2496.4	2524.7
152.5°	2551.6	2566.2	2540.0	2539.5	2572.7
155°	2619.9	2636.1	2607.5	2602.1	2638.5
157.5°	2682.0	2696.9	2668.3	2664.4	2692.7
160°	2723.3	2733.5	2704.7	2699.2	2727.5
162.5°	2751.5	2763.2	2734.5	2725.6	2754.0
165°	2793.7	2801.8	2773.0	2761.2	2789.6
167.5°	2830.1	2839.4	2802.4	2791.9	2822.3
170°	2851.6	2857.7	2820.6	2806.8	2837.2
172.5°	2864.9	2869.3	2832.2	2816.5	2837.2
175°	2876.5	2882.6	2845.4	2827.1	2841.3
177.5°	2878.6	2881.8	2853.7	2837.7	2862.0
180°	2862.0	2862.0	2862.0	2862.0	2862.0



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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	17.95	18.77	18.95	19.77	21.10	16.85	17.67	17.85	18.67	20.00
	3H	19.60	20.33	20.60	21.34	22.69	18.38	19.11	19.38	20.12	21.47
	4H	20.22	20.91	21.24	21.93	23.29	18.95	19.64	19.97	20.66	22.01
	6H	20.62	21.26	21.65	22.28	23.65	19.32	19.96	20.35	20.98	22.34
	8H	20.77	21.38	21.80	22.41	23.78	19.46	20.07	20.49	21.10	22.46
	12H	20.84	21.42	21.88	22.45	23.84	19.52	20.10	20.56	21.13	22.51
4H	2H	18.36	19.05	19.38	20.07	21.42	17.48	18.18	18.51	19.19	20.55
	3H	20.22	20.80	21.25	21.84	23.21	19.21	19.79	20.24	20.83	22.20
	4H	20.97	21.50	22.00	22.53	23.92	19.89	20.41	20.92	21.45	22.84
	6H	21.48	21.94	22.53	23.00	24.38	20.36	20.81	21.41	21.87	23.26
	8H	21.69	22.11	22.74	23.16	24.57	20.55	20.97	21.60	22.02	23.43
	12H	21.79	22.18	22.86	23.24	24.65	20.63	21.02	21.70	22.08	23.49
8H	4H	21.12	21.54	22.17	22.60	24.00	20.16	20.58	21.20	21.63	23.03
	6H	21.76	22.11	22.83	23.20	24.60	20.76	21.11	21.83	22.20	23.60
	8H	22.05	22.36	23.13	23.43	24.85	21.03	21.34	22.11	22.42	23.84
	12H	22.22	22.49	23.31	23.57	25.03	21.18	21.45	22.26	22.52	23.98
12H	4H	21.10	21.48	22.16	22.55	23.95	20.16	20.54	21.22	21.61	23.01
	6H	21.79	22.10	22.87	23.17	24.59	20.82	21.13	21.90	22.21	23.63
	8H	22.10	22.37	23.19	23.45	24.91	21.13	21.40	22.21	22.47	23.93