

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: P1438730

Luminaire Tested: CB2-085U-085D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438730
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

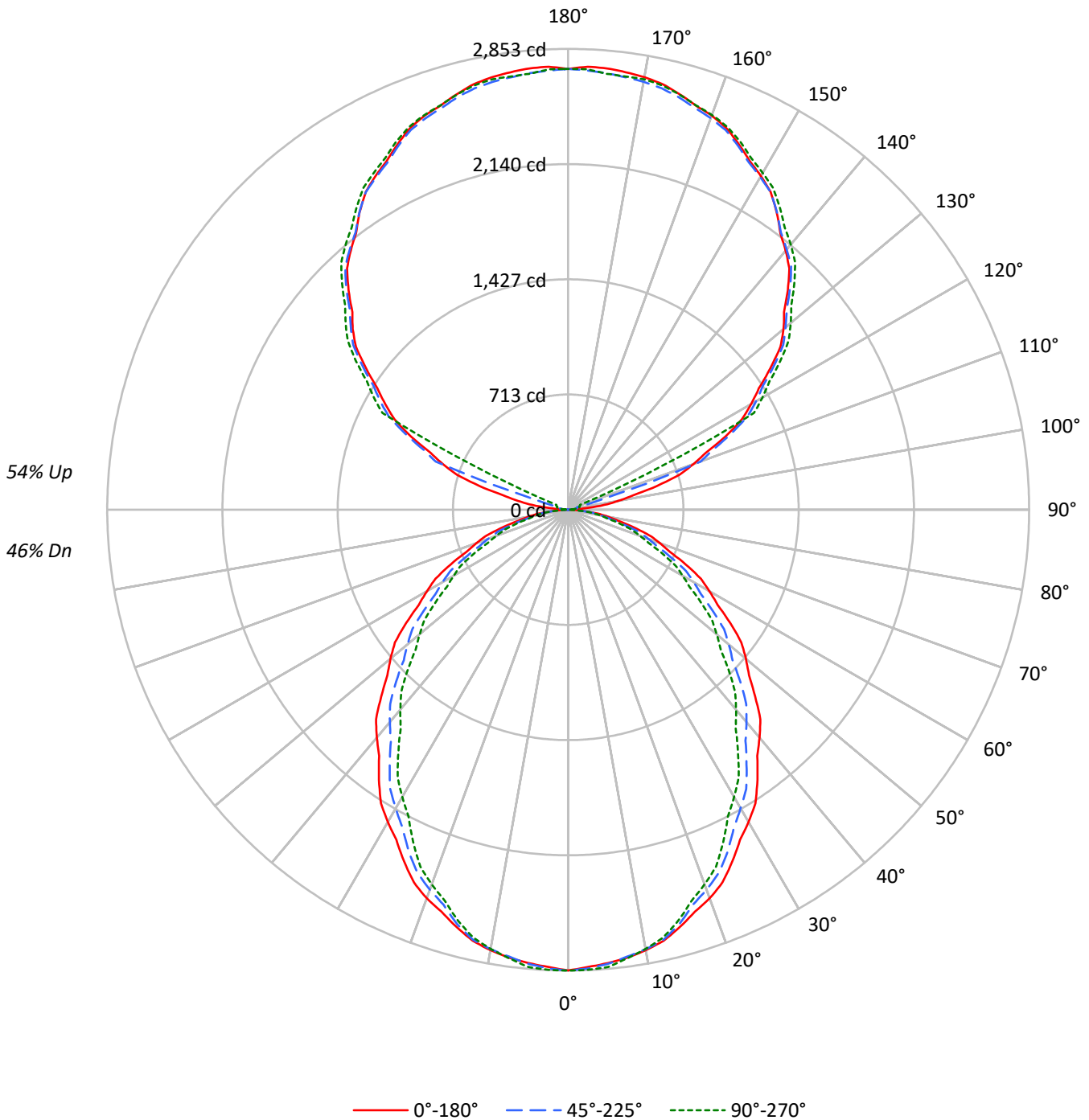
Lumens per Lamp: N/A
Luminaire Lumens: 14434.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

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: P1438730

CATALOG NUMBER: CB2-085U-085D-840-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P1438730

CATALOG NUMBER: CB2-085U-085D-840-1D-UNV-STD-W-8

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	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°	24844	24844	24844
5°	24634	24672	24844
10°	24493	24436	24416
15°	24106	23948	23751
20°	23726	23200	22876
25°	23089	22438	21808
30°	22450	21461	20648
35°	21713	20460	19484
40°	20935	19518	18377
45°	20150	18537	17299
50°	19444	17579	16247
55°	18573	16583	15256
60°	17578	15637	14268
65°	16520	14583	13279
70°	15351	13403	12013
75°	13964	12127	10878
80°	12488	10627	9860
85°	9602	8733	7204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20150 cd/sqm



TEST NUMBER: P1438730

CATALOG NUMBER: CB2-085U-085D-840-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.9
10°-20°	747.8	5.2
20°-30°	1075.3	7.4
30°-40°	1208.6	8.4
40°-50°	1167.5	8.1
50°-60°	986.4	6.8
60°-70°	708.5	4.9
70°-80°	387.3	2.7
80°-90°	103.0	0.7
90°-100°	47.6	0.3
100°-110°	302.7	2.1
110°-120°	961.8	6.7
120°-130°	1395.7	9.7
130°-140°	1501.0	10.4
140°-150°	1413.3	9.8
150°-160°	1151.3	8.0
160°-170°	749.4	5.2
170°-180°	259.0	1.8
0°-30°	2091.4	14.5
0°-40°	3300.0	22.9
0°-60°	5453.9	37.8
0°-90°	6652.7	46.1
90°-120°	1312.0	9.1
90°-150°	5622.0	38.9
90°-180°	7782.0	53.9
0°-180°	14434.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2818	2856	2822	2823	2842	268
15°	2674	2697	2656	2630	2634	754
25°	2403	2405	2335	2282	2270	1106
35°	2042	2019	1924	1850	1833	1276
45°	1636	1602	1505	1426	1405	1264
55°	1223	1178	1092	1024	1005	1094
65°	802	772	708	657	644	795
75°	415	389	360	332	323	444
85°	96	90	87	76	72	114
90°	0	0	0	2	2	8
95°	108	31	34	22	20	137
105°	568	590	59	69	73	599
115°	1076	1099	1109	1122	643	1057
125°	1527	1554	1555	1581	1602	1365
135°	1922	1945	1942	1954	1979	1482
145°	2250	2267	2252	2254	2283	1406
155°	2498	2514	2486	2481	2516	1152
165°	2664	2672	2644	2633	2660	752
175°	2743	2749	2713	2696	2709	261
180°	2729	2729	2729	2729	2729	



TEST NUMBER: P1438730

CATALOG NUMBER: CB2-085U-085D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.8	2852.8	2852.8	2852.8	2852.8
2.5°	2833.6	2867.8	2842.4	2846.0	2851.1
5°	2817.9	2856.3	2822.3	2822.7	2841.9
7.5°	2797.8	2834.1	2791.2	2783.3	2801.3
10°	2769.8	2806.1	2763.3	2748.3	2761.1
12.5°	2733.1	2767.7	2726.6	2702.8	2713.9
15°	2673.7	2697.2	2656.2	2630.1	2634.4
17.5°	2609.1	2623.6	2564.5	2542.6	2538.3
20°	2560.1	2572.9	2503.3	2472.7	2468.4
22.5°	2497.2	2508.3	2435.2	2397.5	2391.5
25°	2402.9	2405.0	2335.1	2282.4	2269.6
27.5°	2304.1	2297.3	2219.8	2157.4	2140.7
30°	2232.5	2223.9	2134.2	2068.3	2053.3
32.5°	2155.6	2140.2	2050.3	1979.2	1964.2
35°	2042.4	2018.9	1924.5	1849.8	1832.7
37.5°	1921.8	1895.4	1802.6	1721.3	1702.1
40°	1841.5	1811.6	1716.9	1635.7	1616.5
42.5°	1761.1	1727.8	1631.3	1550.0	1529.1
45°	1636.1	1601.9	1505.1	1425.9	1404.6
47.5°	1517.3	1473.7	1379.7	1301.0	1279.6
50°	1435.2	1388.2	1297.5	1220.6	1199.2
52.5°	1351.3	1302.6	1215.4	1142.0	1120.6
55°	1223.3	1178.4	1092.2	1024.1	1004.8
57.5°	1096.6	1053.4	974.7	909.6	890.8
60°	1009.2	972.9	897.8	836.2	819.2
62.5°	925.3	892.4	820.9	764.6	747.5
65°	801.7	771.8	707.7	657.2	644.4
67.5°	681.5	651.6	599.8	554.5	540.0
70°	602.9	573.0	526.4	484.6	471.8
72.5°	527.8	496.1	458.3	420.1	410.7
75°	415.0	389.4	360.4	331.8	323.3
77.5°	315.4	290.7	269.6	249.4	247.3
80°	249.0	227.7	211.9	198.7	196.6
82.5°	186.1	169.9	159.5	149.8	149.4
85°	96.1	89.7	87.4	76.4	72.1
87.5°	28.0	28.0	24.5	21.4	21.4
90°	0.0	0.0	0.0	2.0	2.0
92.5°	30.0	11.5	7.9	11.4	11.4
95°	108.5	31.4	33.5	21.7	19.7
97.5°	225.4	50.5	48.5	53.3	55.3
100°	313.8	103.4	53.3	61.2	63.1
102.5°	411.6	389.6	54.9	66.0	69.5
105°	568.3	589.5	59.2	69.2	73.0
107.5°	722.2	743.5	275.5	71.5	75.4
110°	824.9	846.1	872.2	73.1	77.0



TEST NUMBER: P1438730

CATALOG NUMBER: CB2-085U-085D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	921.2	947.0	966.9	162.7	80.1
115°	1075.5	1098.6	1109.0	1121.8	643.3
117.5°	1211.6	1240.2	1251.9	1274.1	1295.7
120°	1306.4	1333.4	1341.9	1364.1	1387.3
122.5°	1399.5	1423.4	1428.7	1454.1	1475.7
125°	1527.4	1554.4	1555.0	1581.1	1602.4
127.5°	1655.2	1678.4	1677.3	1696.8	1720.4
130°	1740.5	1755.9	1756.3	1772.6	1797.7
132.5°	1811.5	1833.1	1833.6	1846.8	1871.9
135°	1922.0	1945.2	1941.8	1954.2	1979.3
137.5°	2025.8	2048.2	2042.0	2052.5	2078.3
140°	2093.7	2113.0	2103.6	2114.1	2143.0
142.5°	2156.9	2176.2	2162.0	2171.0	2201.5
145°	2249.6	2267.0	2251.6	2254.2	2283.2
147.5°	2332.1	2349.1	2330.5	2333.1	2360.1
150°	2385.8	2401.2	2377.9	2380.5	2407.5
152.5°	2433.1	2447.0	2422.1	2421.6	2453.3
155°	2498.2	2513.7	2486.4	2481.3	2516.0
157.5°	2557.4	2571.7	2544.4	2540.7	2567.7
160°	2596.9	2606.6	2579.2	2573.8	2600.9
162.5°	2623.8	2634.9	2607.6	2599.1	2626.1
165°	2664.0	2671.7	2644.3	2633.0	2660.1
167.5°	2698.7	2707.6	2672.3	2662.3	2691.2
170°	2719.3	2725.1	2689.7	2676.5	2705.4
172.5°	2731.9	2736.1	2700.7	2685.8	2705.4
175°	2742.9	2748.7	2713.3	2695.9	2709.4
177.5°	2744.9	2748.0	2721.2	2706.0	2729.1
180°	2729.1	2729.1	2729.1	2729.1	2729.1



TEST NUMBER: P1438730
 CATALOG NUMBER: CB2-085U-085D-840-1D-UNV-STD-W-8

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	17.79	18.61	18.78	19.61	20.93	16.69	17.51	17.68	18.51	19.84
	3H	19.43	20.16	20.43	21.17	22.52	18.21	18.94	19.22	19.96	21.30
	4H	20.06	20.75	21.07	21.76	23.12	18.78	19.48	19.80	20.49	21.85
	6H	20.46	21.09	21.48	22.11	23.48	19.15	19.79	20.18	20.81	22.18
	8H	20.60	21.21	21.64	22.25	23.61	19.29	19.90	20.32	20.94	22.30
	12H	20.68	21.25	21.71	22.28	23.67	19.35	19.93	20.39	20.96	22.35
4H	2H	18.19	18.89	19.21	19.90	21.26	17.32	18.01	18.34	19.03	20.38
	3H	20.06	20.63	21.09	21.68	23.05	19.05	19.63	20.08	20.67	22.04
	4H	20.80	21.33	21.84	22.37	23.76	19.72	20.25	20.76	21.28	22.68
	6H	21.32	21.77	22.37	22.83	24.22	20.19	20.65	21.24	21.71	23.09
	8H	21.52	21.95	22.57	23.00	24.40	20.38	20.81	21.43	21.86	23.26
	12H	21.63	22.01	22.69	23.08	24.48	20.47	20.85	21.53	21.92	23.32
8H	4H	20.95	21.38	22.00	22.43	23.83	19.99	20.41	21.04	21.47	22.87
	6H	21.59	21.95	22.67	23.04	24.44	20.59	20.94	21.67	22.04	23.44
	8H	21.88	22.19	22.96	23.27	24.69	20.87	21.18	21.95	22.25	23.67
	12H	22.06	22.33	23.14	23.40	24.86	21.02	21.29	22.10	22.36	23.82
12H	4H	20.93	21.32	22.00	22.38	23.79	19.99	20.38	21.06	21.44	22.85
	6H	21.62	21.93	22.70	23.01	24.43	20.66	20.96	21.74	22.04	23.46
	8H	21.94	22.21	23.02	23.28	24.74	20.96	21.23	22.04	22.30	23.76