

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: P1438742

Luminaire Tested: CB2-085U-120D-835-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438742
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-120D-835-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

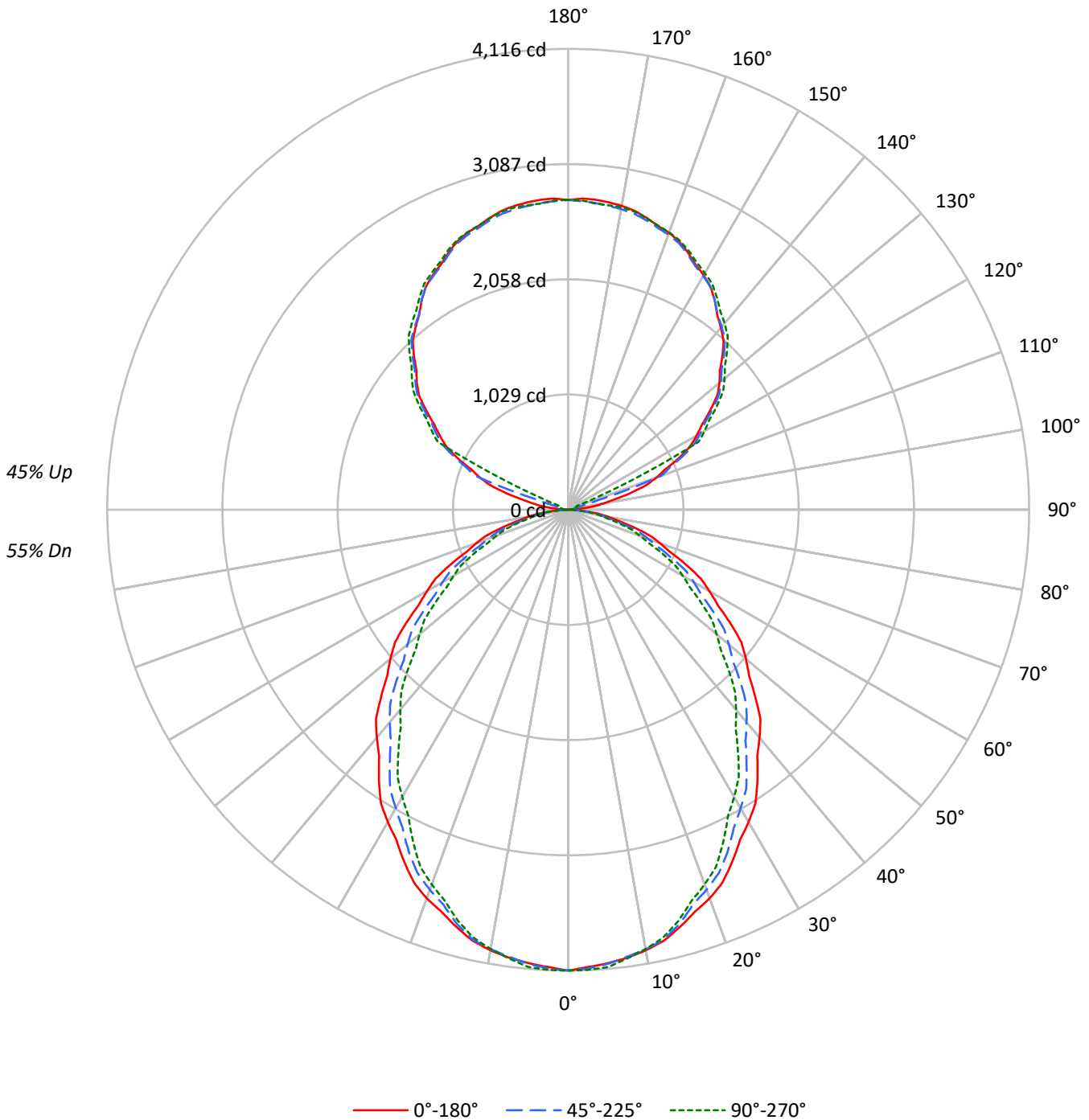
Lumens per Lamp: N/A
Luminaire Lumens: 17485.1 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 146
Input Voltage (V): 120
Input Current (A_{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

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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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	41	36	33	34	31	28	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35845	35845	35845
5°	35541	35596	35845
10°	35339	35255	35228
15°	34780	34552	34268
20°	34232	33473	33005
25°	33312	32374	31465
30°	32390	30963	29791
35°	31328	29519	28111
40°	30203	28162	26513
45°	29073	26744	24958
50°	28053	25364	23441
55°	26797	23926	22012
60°	25361	22561	20586
65°	23833	21041	19158
70°	22150	19339	17335
75°	20148	17497	15693
80°	18019	15331	14223
85°	13859	12600	10392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29073 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	2.2
10°-20°	1079.0	6.2
20°-30°	1551.4	8.9
30°-40°	1743.7	10.0
40°-50°	1684.4	9.6
50°-60°	1423.2	8.1
60°-70°	1022.3	5.8
70°-80°	558.7	3.2
80°-90°	148.5	0.8
90°-100°	48.2	0.3
100°-110°	306.8	1.8
110°-120°	974.8	5.6
120°-130°	1414.5	8.1
130°-140°	1521.3	8.7
140°-150°	1432.4	8.2
150°-160°	1166.9	6.7
160°-170°	759.5	4.3
170°-180°	262.5	1.5
0°-30°	3017.4	17.3
0°-40°	4761.1	27.2
0°-60°	7868.8	45.0
0°-90°	9598.3	54.9
90°-120°	1329.8	7.6
90°-150°	5698.0	32.6
90°-180°	7887.0	45.1
0°-180°	17485.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4116	4116	4116	4116	4116	
5°	4066	4121	4072	4072	4100	386
15°	3858	3892	3832	3795	3801	1087
25°	3467	3470	3369	3293	3274	1596
35°	2947	2913	2777	2669	2644	1841
45°	2361	2311	2172	2057	2026	1824
55°	1765	1700	1576	1478	1450	1578
65°	1157	1114	1021	948	930	1147
75°	599	562	520	479	466	641
85°	139	129	126	110	104	165
90°	0	0	0	2	2	10
95°	110	32	34	22	20	139
105°	576	598	60	70	74	607
115°	1090	1114	1124	1137	652	1072
125°	1548	1575	1576	1602	1624	1384
135°	1948	1972	1968	1981	2006	1502
145°	2280	2298	2282	2285	2314	1425
155°	2532	2548	2520	2515	2550	1167
165°	2700	2708	2680	2669	2696	763
175°	2780	2786	2750	2732	2746	264
180°	2766	2766	2766	2766	2766	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4116.0	4116.0	4116.0	4116.0	4116.0
2.5°	4088.3	4137.6	4100.9	4106.1	4113.5
5°	4065.6	4121.1	4071.9	4072.5	4100.3
7.5°	4036.6	4089.0	4027.2	4015.8	4041.7
10°	3996.3	4048.7	3986.8	3965.2	3983.7
12.5°	3943.3	3993.2	3933.9	3899.6	3915.6
15°	3857.6	3891.5	3832.4	3794.7	3800.9
17.5°	3764.3	3785.3	3700.0	3668.4	3662.2
20°	3693.7	3712.2	3611.8	3567.5	3561.3
22.5°	3602.9	3619.0	3513.4	3459.0	3450.4
25°	3466.8	3469.9	3369.1	3293.0	3274.5
27.5°	3324.3	3314.5	3202.7	3112.6	3088.6
30°	3221.0	3208.6	3079.1	2984.1	2962.5
32.5°	3110.0	3087.8	2958.1	2855.5	2833.9
35°	2946.8	2912.9	2776.6	2668.9	2644.2
37.5°	2772.8	2734.6	2600.7	2483.5	2455.8
40°	2656.8	2613.7	2477.2	2359.9	2332.2
42.5°	2540.8	2492.8	2353.6	2236.3	2206.1
45°	2360.6	2311.3	2171.5	2057.3	2026.5
47.5°	2189.1	2126.3	1990.6	1877.0	1846.2
50°	2070.6	2002.8	1872.1	1761.1	1730.2
52.5°	1949.6	1879.3	1753.6	1647.6	1616.8
55°	1764.9	1700.2	1575.8	1477.5	1449.8
57.5°	1582.1	1519.9	1406.3	1312.4	1285.2
60°	1456.1	1403.7	1295.3	1206.5	1181.9
62.5°	1335.0	1287.6	1184.4	1103.1	1078.5
65°	1156.6	1113.5	1021.1	948.2	929.7
67.5°	983.3	940.2	865.4	800.0	779.1
70°	869.9	826.7	759.5	699.2	680.8
72.5°	761.4	715.8	661.2	606.1	592.5
75°	598.8	561.8	520.0	478.8	466.4
77.5°	455.1	419.3	388.9	359.8	356.8
80°	359.3	328.5	305.7	286.7	283.6
82.5°	268.5	245.1	230.1	216.2	215.6
85°	138.7	129.4	126.1	110.2	104.0
87.5°	40.3	40.3	35.3	30.7	30.7
90°	0.0	0.0	0.0	2.0	2.0
92.5°	30.4	11.6	8.0	11.6	11.6
95°	110.0	31.8	34.0	22.0	20.0
97.5°	228.4	51.2	49.2	54.0	56.0
100°	318.0	104.8	54.0	62.0	64.0
102.5°	417.2	394.9	55.6	66.9	70.4
105°	576.0	597.5	60.0	70.1	74.0
107.5°	732.0	753.5	279.2	72.5	76.4
110°	836.0	857.5	884.0	74.1	78.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	933.6	959.8	980.0	164.9	81.2
115°	1090.0	1113.5	1124.0	1137.0	652.0
117.5°	1228.0	1256.9	1268.8	1291.3	1313.2
120°	1324.0	1351.4	1360.0	1382.5	1406.0
122.5°	1418.4	1442.6	1448.0	1473.7	1495.6
125°	1548.0	1575.4	1576.0	1602.5	1624.0
127.5°	1677.6	1701.1	1700.0	1719.7	1743.6
130°	1764.0	1779.6	1780.0	1796.6	1822.0
132.5°	1836.0	1857.9	1858.4	1871.8	1897.2
135°	1948.0	1971.5	1968.0	1980.6	2006.0
137.5°	2053.2	2075.9	2069.6	2080.2	2106.4
140°	2122.0	2141.6	2132.0	2142.7	2172.0
142.5°	2186.0	2205.6	2191.2	2200.3	2231.2
145°	2280.0	2297.6	2282.0	2284.7	2314.0
147.5°	2363.6	2380.8	2362.0	2364.6	2392.0
150°	2418.0	2433.6	2410.0	2412.6	2440.0
152.5°	2466.0	2480.1	2454.8	2454.3	2486.4
155°	2532.0	2547.6	2520.0	2514.8	2550.0
157.5°	2592.0	2606.5	2578.8	2575.0	2602.4
160°	2632.0	2641.8	2614.0	2608.6	2636.0
162.5°	2659.2	2670.5	2642.8	2634.2	2661.6
165°	2700.0	2707.8	2680.0	2668.6	2696.0
167.5°	2735.2	2744.2	2708.4	2698.3	2727.6
170°	2756.0	2761.9	2726.0	2712.7	2742.0
172.5°	2768.8	2773.1	2737.2	2722.1	2742.0
175°	2780.0	2785.9	2750.0	2732.3	2746.0
177.5°	2782.0	2785.1	2758.0	2742.5	2766.0
180°	2766.0	2766.0	2766.0	2766.0	2766.0

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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	19.88	20.77	20.79	21.71	22.91	18.78	19.67	19.70	20.61	21.81
	3H	21.53	22.33	22.45	23.27	24.49	20.31	21.11	21.24	22.05	23.28
	4H	22.16	22.91	23.10	23.86	25.09	20.88	21.64	21.83	22.59	23.82
	6H	22.56	23.26	23.51	24.21	25.46	21.26	21.95	22.21	22.91	24.15
	8H	22.71	23.37	23.67	24.34	25.59	21.40	22.06	22.36	23.03	24.28
	12H	22.78	23.42	23.75	24.38	25.65	21.46	22.09	22.43	23.06	24.33
4H	2H	20.29	21.05	21.24	22.00	23.23	19.42	20.17	20.37	21.12	22.36
	3H	22.16	22.80	23.12	23.77	25.02	21.16	21.79	22.11	22.76	24.01
	4H	22.91	23.49	23.88	24.46	25.73	21.83	22.41	22.80	23.38	24.65
	6H	23.43	23.93	24.41	24.92	26.20	22.31	22.80	23.29	23.80	25.07
	8H	23.64	24.10	24.62	25.09	26.38	22.50	22.96	23.48	23.95	25.24
	12H	23.75	24.16	24.75	25.17	26.46	22.59	23.01	23.59	24.01	25.30
8H	4H	23.07	23.53	24.05	24.52	25.81	22.11	22.57	23.09	23.56	24.84
	6H	23.71	24.10	24.72	25.13	26.41	22.71	23.10	23.72	24.13	25.41
	8H	24.00	24.34	25.02	25.36	26.66	22.99	23.33	24.00	24.34	25.65
	12H	24.18	24.48	25.20	25.49	26.84	23.14	23.44	24.16	24.45	25.80
12H	4H	23.05	23.47	24.05	24.48	25.77	22.11	22.53	23.11	23.53	24.83
	6H	23.74	24.08	24.76	25.10	26.40	22.77	23.11	23.79	24.13	25.43
	8H	24.06	24.36	25.08	25.37	26.72	23.08	23.38	24.10	24.39	25.74