

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: P1438728

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

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438728
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: -

Summary

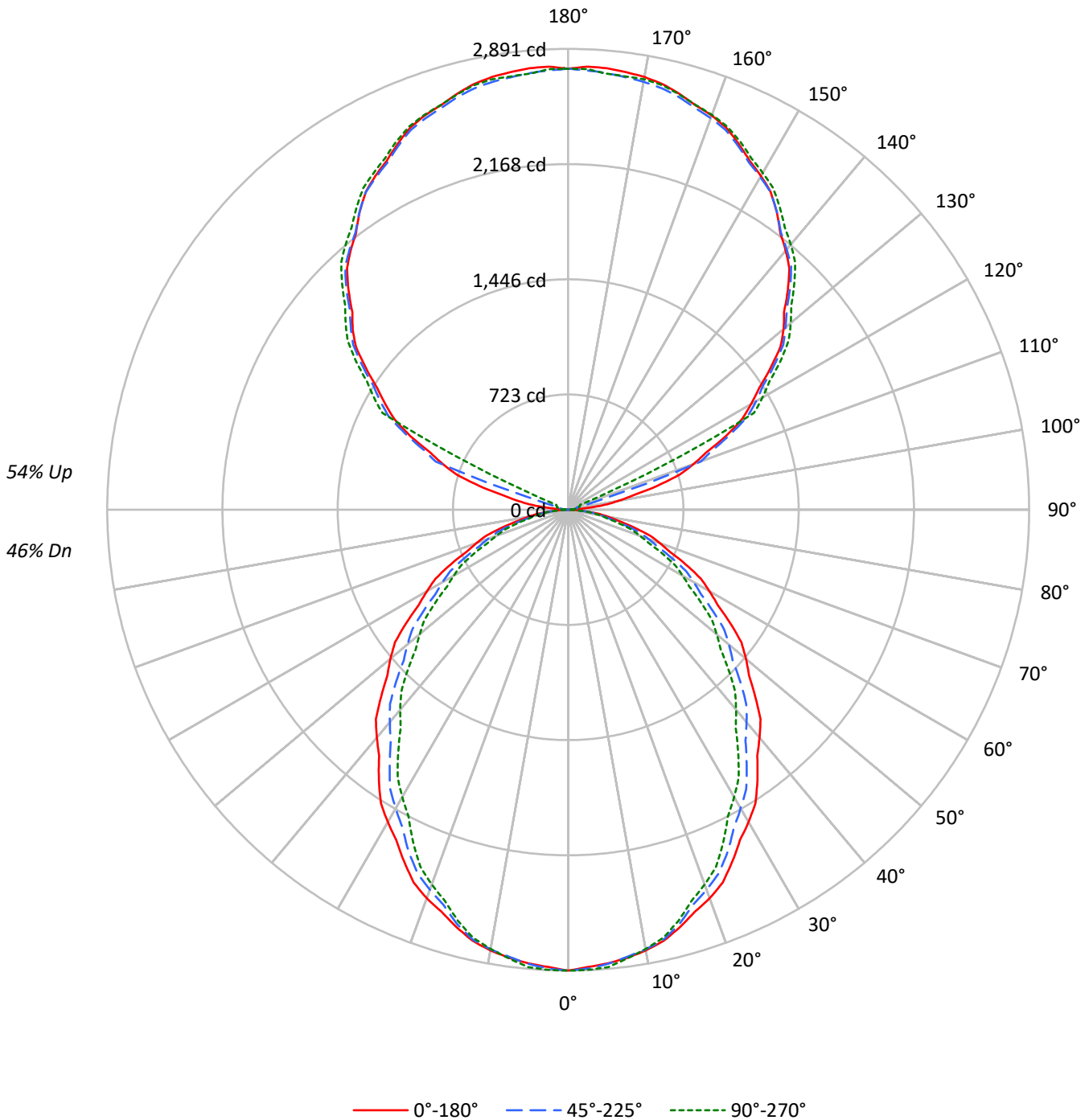
Lumens per Lamp: N/A
Luminaire Lumens: 14629.4 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

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

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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	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°	25180	25180	25180
5°	24967	25005	25179
10°	24825	24766	24746
15°	24431	24272	24072
20°	24047	23514	23185
25°	23401	22742	22103
30°	22752	21751	20927
35°	22007	20736	19748
40°	21217	19782	18625
45°	20422	18787	17533
50°	19706	17817	16467
55°	18824	16808	15462
60°	17814	15848	14460
65°	16743	14781	13458
70°	15558	13587	12176
75°	14152	12292	11026
80°	12658	10772	9995
85°	9732	8853	7304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20422 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	1.9
10°-20°	757.9	5.2
20°-30°	1089.8	7.4
30°-40°	1224.9	8.4
40°-50°	1183.3	8.1
50°-60°	999.8	6.8
60°-70°	718.1	4.9
70°-80°	392.5	2.7
80°-90°	104.4	0.7
90°-100°	48.2	0.3
100°-110°	306.8	2.1
110°-120°	974.8	6.7
120°-130°	1414.5	9.7
130°-140°	1521.3	10.4
140°-150°	1432.4	9.8
150°-160°	1166.9	8.0
160°-170°	759.5	5.2
170°-180°	262.5	1.8
0°-30°	2119.6	14.5
0°-40°	3344.5	22.9
0°-60°	5527.6	37.8
0°-90°	6742.5	46.1
90°-120°	1329.8	9.1
90°-150°	5698.0	38.9
90°-180°	7887.0	53.9
0°-180°	14629.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2891	2891	2891	2891	2891	
5°	2856	2895	2860	2861	2880	271
15°	2710	2734	2692	2666	2670	764
25°	2435	2438	2367	2313	2300	1121
35°	2070	2046	1950	1875	1858	1293
45°	1658	1624	1525	1445	1424	1281
55°	1240	1194	1107	1038	1018	1108
65°	812	782	717	666	653	806
75°	421	395	365	336	328	450
85°	97	91	89	77	73	116
90°	0	0	0	2	2	8
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°	2891.4	2891.4	2891.4	2891.4	2891.4
2.5°	2871.9	2906.5	2880.8	2884.4	2889.6
5°	2856.0	2894.9	2860.4	2860.8	2880.3
7.5°	2835.6	2872.4	2829.0	2821.0	2839.1
10°	2807.3	2844.1	2800.6	2785.4	2798.4
12.5°	2770.1	2805.1	2763.4	2739.3	2750.6
15°	2709.8	2733.7	2692.1	2665.7	2670.0
17.5°	2644.3	2659.0	2599.1	2576.9	2572.6
20°	2594.7	2607.7	2537.2	2506.1	2501.7
22.5°	2531.0	2542.2	2468.1	2429.9	2423.8
25°	2435.3	2437.5	2366.7	2313.3	2300.3
27.5°	2335.2	2328.3	2249.8	2186.5	2169.6
30°	2262.6	2254.0	2163.0	2096.2	2081.1
32.5°	2184.7	2169.1	2078.0	2005.9	1990.8
35°	2070.0	2046.2	1950.5	1874.8	1857.5
37.5°	1947.8	1921.0	1826.9	1744.6	1725.1
40°	1866.3	1836.0	1740.1	1657.8	1638.3
42.5°	1784.9	1751.1	1653.4	1571.0	1549.7
45°	1658.2	1623.6	1525.4	1445.2	1423.6
47.5°	1537.8	1493.6	1398.3	1318.6	1296.9
50°	1454.5	1406.9	1315.1	1237.1	1215.4
52.5°	1369.5	1320.2	1231.8	1157.4	1135.7
55°	1239.8	1194.3	1107.0	1037.9	1018.4
57.5°	1111.4	1067.7	987.9	921.9	902.8
60°	1022.8	986.0	909.9	847.5	830.2
62.5°	937.8	904.5	832.0	774.9	757.6
65°	812.5	782.2	717.3	666.1	653.1
67.5°	690.7	660.4	607.9	562.0	547.3
70°	611.0	580.7	533.6	491.2	478.2
72.5°	534.9	502.8	464.5	425.7	416.2
75°	420.6	394.7	365.3	336.3	327.7
77.5°	319.7	294.6	273.2	252.8	250.6
80°	252.4	230.7	214.8	201.4	199.3
82.5°	188.6	172.2	161.6	151.9	151.4
85°	97.4	90.9	88.6	77.4	73.1
87.5°	28.3	28.3	24.8	21.7	21.7
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	17.83	18.65	18.83	19.65	20.98	16.74	17.55	17.73	18.56	19.88
	3H	19.48	20.21	20.48	21.22	22.57	18.26	18.99	19.26	20.00	21.35
	4H	20.10	20.80	21.12	21.81	23.17	18.83	19.52	19.85	20.54	21.89
	6H	20.50	21.14	21.53	22.16	23.53	19.20	19.84	20.23	20.86	22.23
	8H	20.65	21.26	21.68	22.29	23.66	19.34	19.95	20.37	20.98	22.35
	12H	20.72	21.30	21.76	22.33	23.72	19.40	19.98	20.44	21.01	22.40
4H	2H	18.24	18.93	19.26	19.95	21.30	17.36	18.06	18.39	19.07	20.43
	3H	20.10	20.68	21.13	21.72	23.09	19.10	19.67	20.13	20.72	22.09
	4H	20.85	21.38	21.89	22.41	23.80	19.77	20.30	20.81	21.33	22.72
	6H	21.37	21.82	22.41	22.88	24.27	20.24	20.69	21.29	21.75	23.14
	8H	21.57	21.99	22.62	23.04	24.45	20.43	20.85	21.48	21.90	23.31
	12H	21.67	22.06	22.74	23.12	24.53	20.51	20.90	21.58	21.96	23.37
8H	4H	21.00	21.43	22.05	22.48	23.88	20.04	20.46	21.09	21.51	22.92
	6H	21.64	21.99	22.71	23.08	24.48	20.64	20.99	21.71	22.08	23.48
	8H	21.93	22.24	23.01	23.32	24.74	20.91	21.22	21.99	22.30	23.72
	12H	22.10	22.37	23.19	23.45	24.91	21.06	21.33	22.15	22.41	23.87
12H	4H	20.98	21.36	22.05	22.43	23.84	20.04	20.42	21.11	21.49	22.90
	6H	21.67	21.98	22.75	23.05	24.47	20.70	21.01	21.78	22.09	23.51
	8H	21.98	22.26	23.07	23.33	24.79	21.01	21.28	22.09	22.35	23.81