

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: P1439058

Luminaire Tested: CB2-D-085U-085D-927-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439058  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2312-242-13, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-D-085U-085D-927-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

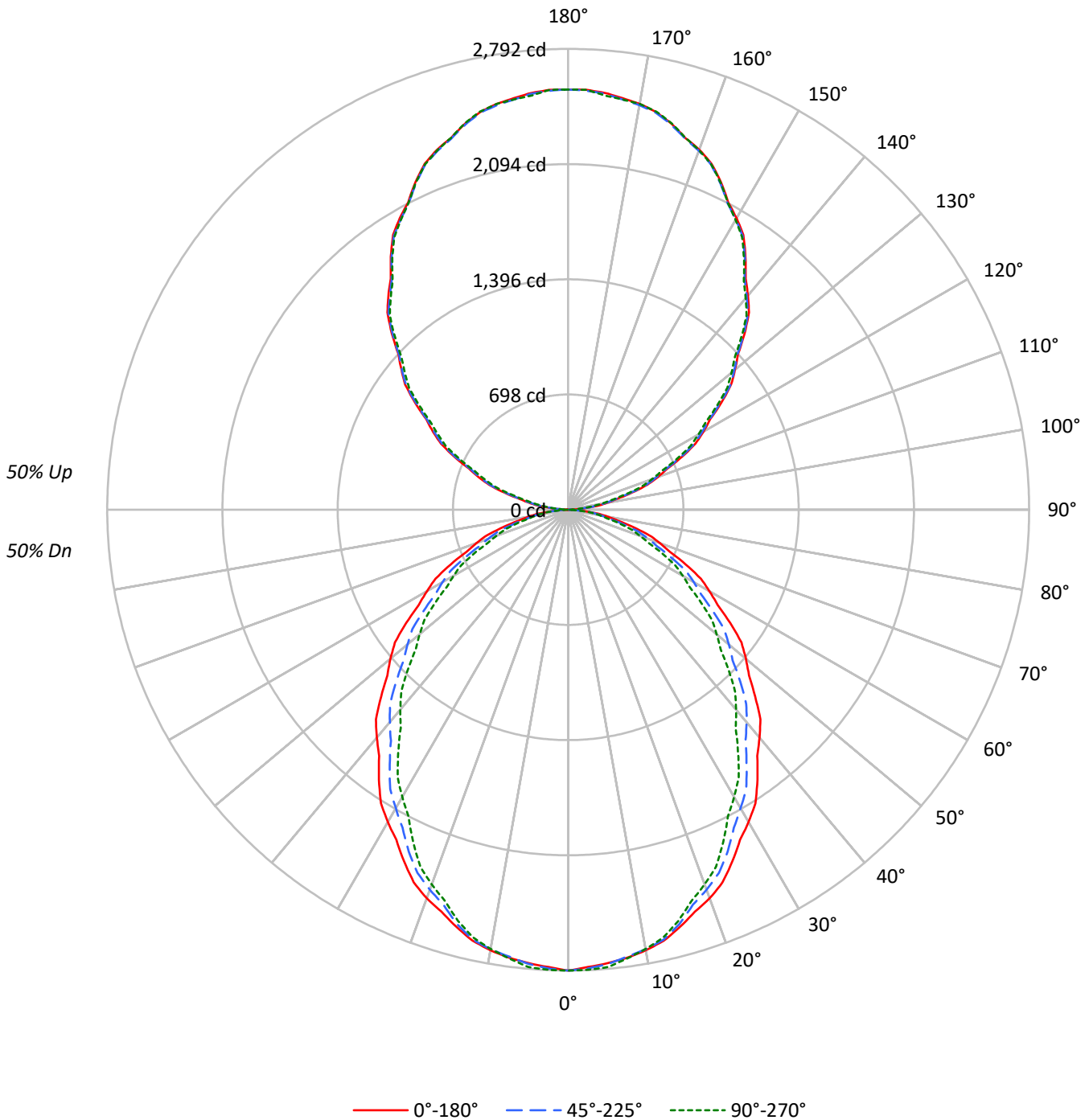
Lumens per Lamp: N/A  
Luminaire Lumens: 13003.2 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 113.4  
Input Voltage (V): 120  
Input Current (A<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

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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	35	41	36	31	35	31	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24315	24315	24315
5°	24109	24146	24314
10°	23972	23915	23896
15°	23592	23438	23246
20°	23221	22706	22389
25°	22596	21960	21343
30°	21971	21004	20208
35°	21251	20023	19069
40°	20488	19103	17985
45°	19721	18141	16929
50°	19030	17205	15902
55°	18177	16229	14931
60°	17203	15305	13963
65°	16168	14274	12996
70°	15023	13118	11759
75°	13668	11868	10646
80°	12222	10401	9649
85°	9403	8543	7044

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19721 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.6	2.0
10°-20°	731.9	5.6
20°-30°	1052.4	8.1
30°-40°	1182.8	9.1
40°-50°	1142.6	8.8
50°-60°	965.4	7.4
60°-70°	693.4	5.3
70°-80°	379.0	2.9
80°-90°	100.8	0.8
90°-100°	98.4	0.8
100°-110°	405.6	3.1
110°-120°	736.3	5.7
120°-130°	1001.9	7.7
130°-140°	1156.6	8.9
140°-150°	1165.5	9.0
150°-160°	1005.8	7.7
160°-170°	681.7	5.2
170°-180°	240.5	1.8
0°-30°	2046.8	15.7
0°-40°	3229.6	24.8
0°-60°	5337.6	41.0
0°-90°	6510.9	50.1
90°-120°	1240.2	9.5
90°-150°	4564.3	35.1
90°-180°	6492.0	49.9
0°-180°	13003.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2792	2792	2792	2792	2792	
5°	2758	2796	2762	2762	2781	262
15°	2617	2640	2600	2574	2578	738
25°	2352	2354	2285	2234	2221	1083
35°	1999	1976	1883	1810	1794	1249
45°	1601	1568	1473	1396	1375	1237
55°	1197	1153	1069	1002	983	1070
65°	785	755	693	643	631	778
75°	406	381	353	325	316	434
85°	94	88	86	75	70	112
90°	0	0	2	0	2	7
95°	95	84	79	62	62	111
105°	401	395	385	363	359	426
115°	762	761	747	725	723	752
125°	1134	1146	1122	1098	1100	1012
135°	1511	1529	1503	1476	1485	1164
145°	1872	1894	1865	1843	1857	1170
155°	2190	2212	2180	2167	2184	1007
165°	2421	2446	2415	2401	2423	682
175°	2536	2563	2530	2514	2520	241
180°	2546	2546	2546	2546	2546	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2792.0	2792.0	2792.0	2792.0	2792.0
2.5°	2773.2	2806.7	2781.8	2785.3	2790.3
5°	2757.8	2795.5	2762.1	2762.5	2781.3
7.5°	2738.2	2773.7	2731.7	2724.0	2741.6
10°	2710.8	2746.3	2704.4	2689.7	2702.2
12.5°	2674.9	2708.7	2668.5	2645.2	2656.1
15°	2616.7	2639.7	2599.6	2574.1	2578.3
17.5°	2553.5	2567.7	2509.8	2488.4	2484.2
20°	2505.6	2518.1	2450.0	2420.0	2415.8
22.5°	2444.0	2454.9	2383.3	2346.4	2340.5
25°	2351.6	2353.7	2285.4	2233.8	2221.2
27.5°	2255.0	2248.3	2172.5	2111.4	2095.1
30°	2184.9	2176.5	2088.7	2024.2	2009.6
32.5°	2109.6	2094.6	2006.6	1937.0	1922.4
35°	1998.9	1975.9	1883.4	1810.4	1793.7
37.5°	1880.9	1855.0	1764.2	1684.6	1665.8
40°	1802.2	1772.9	1680.4	1600.8	1582.0
42.5°	1723.5	1690.9	1596.5	1517.0	1496.5
45°	1601.3	1567.8	1473.0	1395.5	1374.6
47.5°	1485.0	1442.3	1350.3	1273.3	1252.4
50°	1404.6	1358.6	1269.9	1194.6	1173.7
52.5°	1322.5	1274.8	1189.5	1117.6	1096.7
55°	1197.2	1153.3	1068.9	1002.2	983.4
57.5°	1073.2	1031.0	953.9	890.2	871.8
60°	987.7	952.2	878.7	818.4	801.7
62.5°	905.6	873.4	803.4	748.3	731.6
65°	784.6	755.3	692.7	643.2	630.7
67.5°	667.0	637.7	587.1	542.7	528.5
70°	590.0	560.8	515.2	474.3	461.8
72.5°	516.5	485.6	448.5	411.1	401.9
75°	406.2	381.1	352.7	324.8	316.4
77.5°	308.7	284.5	263.8	244.1	242.0
80°	243.7	222.8	207.4	194.5	192.4
82.5°	182.1	166.3	156.1	146.6	146.2
85°	94.1	87.8	85.5	74.7	70.5
87.5°	27.4	27.4	24.3	20.5	20.9
90°	0.0	0.0	2.0	0.0	2.0
92.5°	23.8	20.7	19.5	12.8	14.7
95°	95.3	83.7	79.4	61.6	61.6
97.5°	179.9	168.3	162.0	143.7	139.8
100°	240.3	228.6	222.4	202.5	198.6
102.5°	302.2	296.8	285.9	264.4	260.5
105°	401.1	395.3	385.2	363.3	359.4
107.5°	502.8	503.9	488.9	470.9	465.4
110°	575.9	573.9	562.0	544.0	540.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	650.5	647.0	635.0	617.1	613.2
115°	762.5	760.6	746.6	724.7	722.8
117.5°	868.9	875.2	858.6	835.6	834.8
120°	945.2	953.0	933.3	913.3	909.5
122.5°	1019.9	1029.2	1009.5	986.5	987.3
125°	1133.8	1145.5	1121.9	1098.1	1100.1
127.5°	1243.8	1258.2	1236.3	1212.1	1214.5
130°	1318.5	1336.0	1312.6	1286.8	1290.7
132.5°	1394.8	1412.2	1388.8	1361.6	1368.5
135°	1511.1	1528.6	1503.2	1475.6	1485.3
137.5°	1620.7	1638.2	1610.4	1587.2	1598.9
140°	1693.8	1711.3	1681.9	1660.3	1672.0
142.5°	1765.3	1785.9	1755.0	1731.9	1746.6
145°	1872.5	1893.9	1864.6	1843.0	1856.6
147.5°	1974.2	1995.5	1965.8	1945.1	1959.1
150°	2039.3	2060.7	2029.4	2011.9	2027.4
152.5°	2099.7	2124.1	2091.3	2073.9	2094.1
155°	2190.2	2211.6	2180.3	2166.8	2184.3
157.5°	2268.9	2293.7	2262.5	2250.9	2264.9
160°	2321.3	2344.6	2313.3	2301.8	2317.3
162.5°	2361.0	2385.9	2356.2	2343.2	2361.8
165°	2420.6	2445.8	2414.6	2401.2	2422.6
167.5°	2467.4	2494.2	2462.7	2448.9	2470.6
170°	2496.0	2521.3	2488.1	2472.7	2496.0
172.5°	2515.1	2541.9	2507.2	2491.6	2507.2
175°	2535.7	2562.9	2529.8	2514.0	2519.9
177.5°	2545.7	2567.4	2540.9	2527.0	2545.7
180°	2545.7	2545.7	2545.7	2545.7	2545.7



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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	18.09	18.94	19.05	19.92	21.19	16.99	17.85	17.95	18.82	20.09
	3H	19.74	20.50	20.71	21.48	22.78	18.52	19.28	19.49	20.27	21.56
	4H	20.37	21.09	21.35	22.07	23.38	19.09	19.82	20.08	20.80	22.10
	6H	20.77	21.43	21.76	22.42	23.74	19.47	20.13	20.46	21.12	22.43
	8H	20.92	21.55	21.92	22.56	23.87	19.61	20.24	20.61	21.24	22.56
	12H	20.99	21.59	22.00	22.59	23.93	19.67	20.27	20.67	21.27	22.61
4H	2H	18.50	19.22	19.49	20.21	21.51	17.63	18.35	18.62	19.33	20.64
	3H	20.37	20.97	21.37	21.99	23.30	19.36	19.96	20.36	20.98	22.29
	4H	21.12	21.67	22.12	22.67	24.01	20.04	20.58	21.04	21.59	22.93
	6H	21.64	22.11	22.65	23.14	24.48	20.51	20.98	21.53	22.01	23.35
	8H	21.84	22.28	22.86	23.31	24.66	20.70	21.14	21.72	22.16	23.52
	12H	21.95	22.34	22.98	23.38	24.74	20.79	21.19	21.82	22.22	23.58
8H	4H	21.27	21.71	22.29	22.74	24.09	20.31	20.75	21.33	21.77	23.12
	6H	21.91	22.28	22.96	23.34	24.69	20.91	21.28	21.96	22.34	23.69
	8H	22.20	22.52	23.26	23.58	24.94	21.19	21.51	22.24	22.56	23.93
	12H	22.38	22.66	23.43	23.71	25.12	21.34	21.62	22.39	22.66	24.07
12H	4H	21.25	21.65	22.29	22.69	24.05	20.31	20.71	21.35	21.75	23.11
	6H	21.94	22.26	22.99	23.31	24.68	20.97	21.30	22.03	22.35	23.71
	8H	22.26	22.54	23.31	23.59	25.00	21.28	21.56	22.34	22.61	24.02