

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: P1438750

Luminaire Tested: CB2-085U-120D-935-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438750  
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-935-1D-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, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

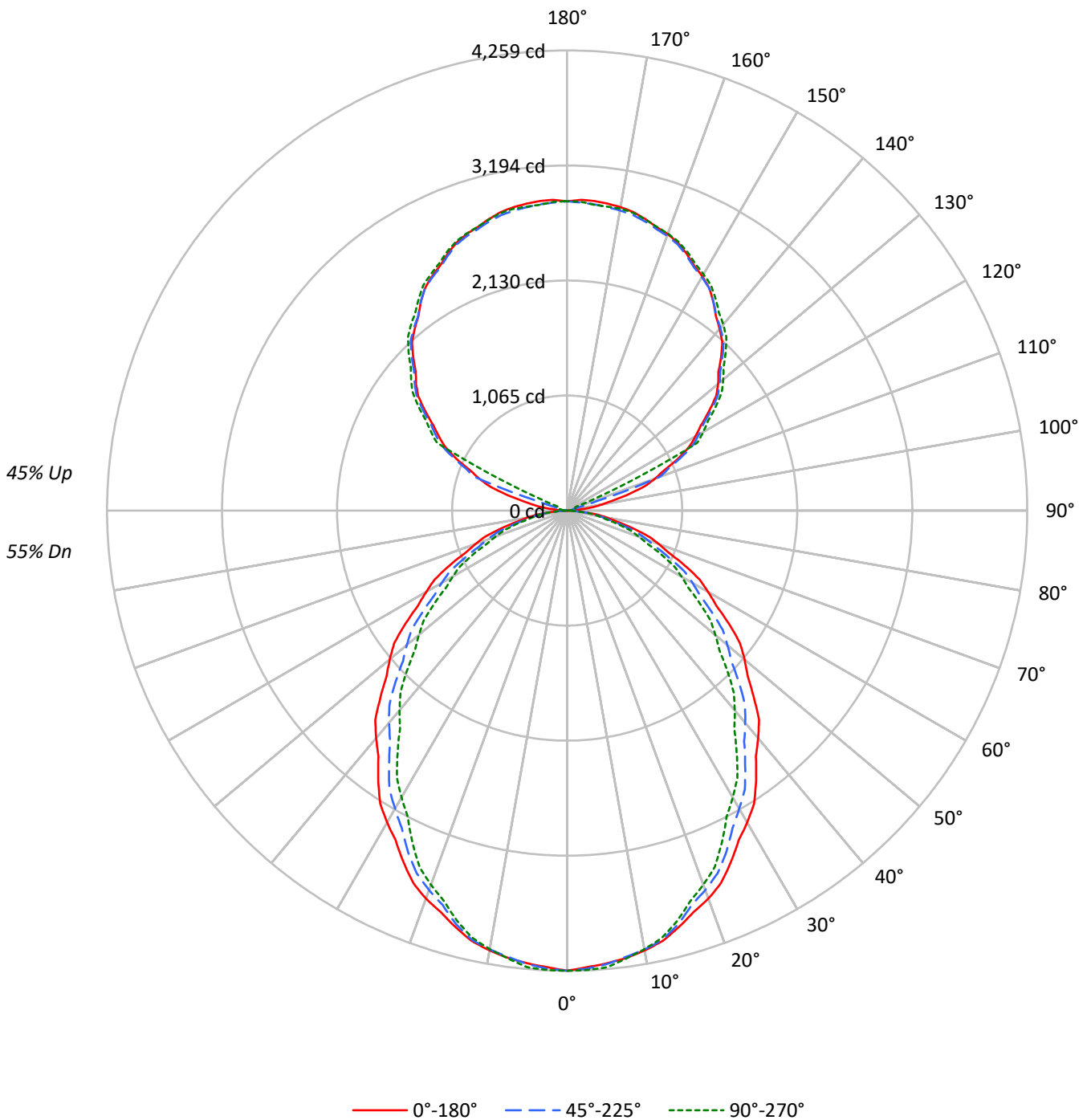
Lumens per Lamp: N/A  
Luminaire Lumens: 18092.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 146  
Input Voltage (V): 120  
Input Current (A<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	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°	37089	37089	37089
5°	36775	36832	37089
10°	36566	36479	36450
15°	35987	35752	35458
20°	35420	34634	34150
25°	34468	33497	32557
30°	33514	32038	30825
35°	32415	30544	29087
40°	31252	29139	27433
45°	30082	27671	25824
50°	29027	26243	24255
55°	27727	24756	22776
60°	26241	23344	21300
65°	24662	21773	19823
70°	22916	20011	17936
75°	20848	18106	16238
80°	18646	15863	14719
85°	14339	13030	10751

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.5	2.2
10°-20°	1116.4	6.2
20°-30°	1605.2	8.9
30°-40°	1804.2	10.0
40°-50°	1742.9	9.6
50°-60°	1472.6	8.1
60°-70°	1057.8	5.8
70°-80°	578.1	3.2
80°-90°	153.7	0.8
90°-100°	49.9	0.3
100°-110°	317.4	1.8
110°-120°	1008.6	5.6
120°-130°	1463.6	8.1
130°-140°	1574.1	8.7
140°-150°	1482.1	8.2
150°-160°	1207.4	6.7
160°-170°	785.8	4.3
170°-180°	271.7	1.5
0°-30°	3122.1	17.3
0°-40°	4926.4	27.2
0°-60°	8141.9	45.0
0°-90°	9931.4	54.9
90°-120°	1375.9	7.6
90°-150°	5895.7	32.6
90°-180°	8161.0	45.1
0°-180°	18092.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4259	4259	4259	4259	4259	
5°	4207	4264	4213	4214	4243	399
15°	3992	4027	3965	3926	3933	1125
25°	3587	3590	3486	3407	3388	1651
35°	3049	3014	2873	2762	2736	1905
45°	2442	2392	2247	2129	2097	1887
55°	1826	1759	1630	1529	1500	1633
65°	1197	1152	1057	981	962	1187
75°	620	581	538	495	483	663
85°	144	134	130	114	108	171
90°	0	0	0	2	2	10
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4258.9	4258.9	4258.9	4258.9	4258.9
2.5°	4230.2	4281.2	4243.2	4248.6	4256.3
5°	4206.7	4264.1	4213.2	4213.9	4242.6
7.5°	4176.7	4230.9	4166.9	4155.1	4181.9
10°	4135.0	4189.2	4125.2	4102.8	4121.9
12.5°	4080.2	4131.8	4070.4	4034.9	4051.5
15°	3991.5	4026.6	3965.4	3926.4	3932.8
17.5°	3895.0	3916.6	3828.4	3795.7	3789.3
20°	3821.9	3841.0	3737.1	3691.3	3684.9
22.5°	3728.0	3744.6	3635.4	3579.1	3570.2
25°	3587.1	3590.3	3486.0	3407.3	3388.2
27.5°	3439.7	3429.5	3313.8	3220.7	3195.8
30°	3332.8	3320.0	3186.0	3087.7	3065.4
32.5°	3218.0	3195.0	3060.8	2954.6	2932.3
35°	3049.0	3014.0	2873.0	2761.5	2736.0
37.5°	2869.0	2829.5	2691.0	2569.7	2541.0
40°	2749.0	2704.4	2563.2	2441.8	2413.1
42.5°	2629.0	2579.3	2435.3	2314.0	2282.7
45°	2442.5	2391.5	2246.8	2128.7	2096.8
47.5°	2265.1	2200.1	2059.7	1942.2	1910.3
50°	2142.5	2072.3	1937.0	1822.2	1790.3
52.5°	2017.3	1944.6	1814.4	1704.8	1672.9
55°	1826.2	1759.2	1630.5	1528.8	1500.1
57.5°	1637.0	1572.6	1455.1	1357.9	1329.8
60°	1506.6	1452.4	1340.3	1248.4	1222.9
62.5°	1381.4	1332.3	1225.5	1141.4	1115.9
65°	1196.8	1152.2	1056.6	981.1	962.0
67.5°	1017.4	972.8	895.5	827.8	806.1
70°	900.0	855.4	785.9	723.5	704.4
72.5°	787.9	740.7	684.2	627.1	613.1
75°	619.6	581.3	538.1	495.4	482.6
77.5°	470.9	433.9	402.4	372.3	369.1
80°	371.8	339.9	316.3	296.7	293.5
82.5°	277.8	253.6	238.1	223.7	223.1
85°	143.5	133.9	130.4	114.0	107.6
87.5°	41.7	41.7	36.5	31.7	31.7
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



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**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	20.00	20.89	20.91	21.82	23.02	18.90	19.79	19.81	20.72	21.93
	3H	21.64	22.45	22.57	23.39	24.61	20.43	21.23	21.36	22.17	23.40
	4H	22.27	23.03	23.22	23.98	25.21	21.00	21.76	21.94	22.71	23.94
	6H	22.68	23.38	23.63	24.33	25.58	21.38	22.07	22.33	23.03	24.27
	8H	22.83	23.49	23.79	24.46	25.71	21.52	22.18	22.48	23.15	24.40
	12H	22.90	23.54	23.87	24.50	25.77	21.58	22.21	22.55	23.18	24.45
4H	2H	20.41	21.17	21.36	22.12	23.35	19.54	20.29	20.48	21.24	22.47
	3H	22.28	22.91	23.24	23.89	25.14	21.27	21.91	22.23	22.88	24.13
	4H	23.03	23.61	24.00	24.58	25.85	21.95	22.53	22.92	23.50	24.77
	6H	23.55	24.05	24.53	25.04	26.31	22.43	22.92	23.41	23.92	25.19
	8H	23.76	24.22	24.74	25.21	26.49	22.62	23.08	23.60	24.07	25.35
	12H	23.86	24.28	24.87	25.29	26.58	22.71	23.12	23.71	24.13	25.42
8H	4H	23.19	23.65	24.17	24.64	25.93	22.22	22.69	23.21	23.68	24.96
	6H	23.83	24.22	24.84	25.25	26.53	22.83	23.21	23.84	24.24	25.53
	8H	24.12	24.46	25.14	25.48	26.78	23.11	23.44	24.12	24.46	25.76
	12H	24.30	24.60	25.32	25.61	26.96	23.26	23.55	24.28	24.57	25.91
12H	4H	23.17	23.59	24.17	24.59	25.88	22.23	22.65	23.23	23.65	24.94
	6H	23.86	24.20	24.88	25.22	26.52	22.89	23.23	23.91	24.25	25.55
	8H	24.18	24.48	25.20	25.49	26.84	23.20	23.50	24.22	24.51	25.86