

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: P1438744

Luminaire Tested: CB2-085U-120D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438744
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

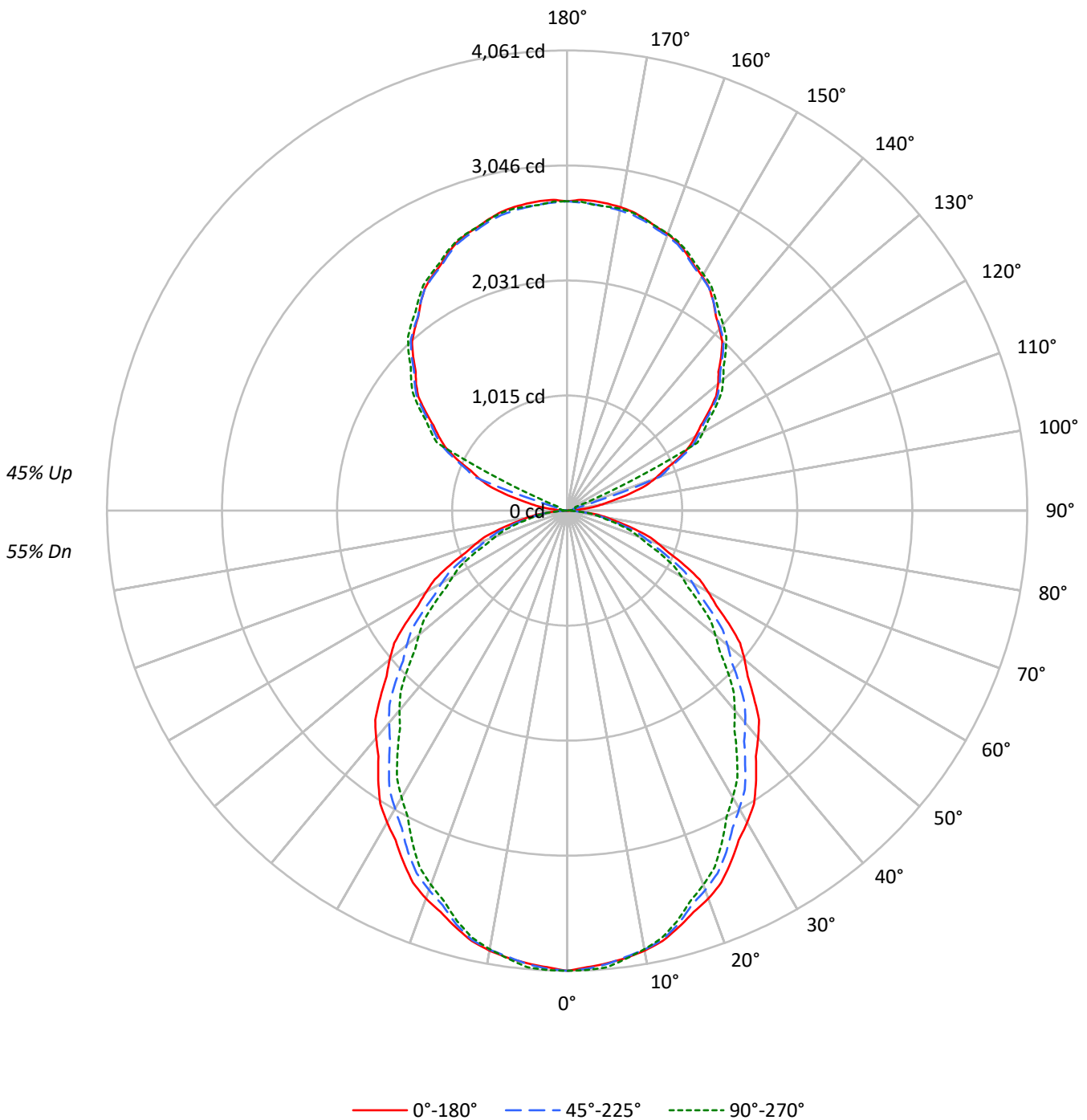
Lumens per Lamp: N/A
Luminaire Lumens: 17252.1 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 146
Input Voltage (V): 120
Input Current (Ain): 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°	35368	35368	35368
5°	35067	35122	35366
10°	34868	34786	34758
15°	34316	34092	33811
20°	33776	33026	32565
25°	32868	31942	31046
30°	31958	30551	29393
35°	30911	29126	27737
40°	29801	27787	26160
45°	28685	26387	24626
50°	27679	25025	23130
55°	26440	23607	21718
60°	25022	22261	20310
65°	23516	20761	18902
70°	21854	19082	17103
75°	19879	17265	15485
80°	17779	15126	14037
85°	13669	12430	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	2.2
10°-20°	1064.6	6.2
20°-30°	1530.7	8.9
30°-40°	1720.5	10.0
40°-50°	1662.0	9.6
50°-60°	1404.2	8.1
60°-70°	1008.6	5.8
70°-80°	551.3	3.2
80°-90°	146.5	0.8
90°-100°	47.6	0.3
100°-110°	302.7	1.8
110°-120°	961.8	5.6
120°-130°	1395.7	8.1
130°-140°	1501.0	8.7
140°-150°	1413.3	8.2
150°-160°	1151.3	6.7
160°-170°	749.4	4.3
170°-180°	259.0	1.5
0°-30°	2977.2	17.3
0°-40°	4697.7	27.2
0°-60°	7763.9	45.0
0°-90°	9470.3	54.9
90°-120°	1312.0	7.6
90°-150°	5622.0	32.6
90°-180°	7782.0	45.1
0°-180°	17252.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4061	4061	4061	4061	4061	
5°	4011	4066	4018	4018	4046	381
15°	3806	3840	3781	3744	3750	1073
25°	3421	3424	3324	3249	3231	1575
35°	2908	2874	2740	2633	2609	1816
45°	2329	2280	2142	2030	2000	1799
55°	1741	1678	1555	1458	1430	1557
65°	1141	1099	1008	936	917	1132
75°	591	554	513	472	460	632
85°	137	128	124	109	103	163
90°	0	0	0	2	2	10
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4061.2	4061.2	4061.2	4061.2	4061.2
2.5°	4033.8	4082.4	4046.2	4051.4	4058.7
5°	4011.4	4066.1	4017.6	4018.3	4045.6
7.5°	3982.8	4034.5	3973.5	3962.2	3987.8
10°	3943.0	3994.7	3933.7	3912.3	3930.6
12.5°	3890.8	3940.0	3881.4	3847.6	3863.4
15°	3806.2	3839.6	3781.3	3744.1	3750.2
17.5°	3714.1	3734.8	3650.7	3619.5	3613.4
20°	3644.5	3662.7	3563.6	3520.0	3513.9
22.5°	3554.9	3570.7	3466.6	3412.9	3404.4
25°	3420.6	3423.6	3324.2	3249.1	3230.9
27.5°	3280.0	3270.3	3160.0	3071.1	3047.4
30°	3178.0	3165.9	3038.1	2944.3	2923.0
32.5°	3068.6	3046.7	2918.7	2817.5	2796.2
35°	2907.5	2874.0	2739.6	2633.3	2609.0
37.5°	2735.8	2698.1	2566.1	2450.4	2423.0
40°	2621.4	2578.8	2444.2	2328.5	2301.1
42.5°	2507.0	2459.5	2322.3	2206.5	2176.7
45°	2329.1	2280.5	2142.5	2029.9	1999.5
47.5°	2159.9	2097.9	1964.0	1852.0	1821.6
50°	2043.0	1976.1	1847.1	1737.6	1707.2
52.5°	1923.6	1854.3	1730.2	1625.6	1595.2
55°	1741.4	1677.5	1554.8	1457.8	1430.4
57.5°	1561.0	1499.6	1387.5	1294.9	1268.1
60°	1436.6	1385.0	1278.1	1190.4	1166.1
62.5°	1317.2	1270.4	1168.6	1088.4	1064.1
65°	1141.2	1098.7	1007.5	935.6	917.3
67.5°	970.2	927.6	853.9	789.4	768.7
70°	858.3	815.7	749.4	689.9	671.7
72.5°	751.3	706.3	652.4	598.0	584.6
75°	590.8	554.3	513.1	472.4	460.2
77.5°	449.0	413.8	383.7	355.0	352.0
80°	354.5	324.1	301.6	282.9	279.9
82.5°	264.9	241.8	227.0	213.3	212.7
85°	136.8	127.7	124.4	108.7	102.6
87.5°	39.8	39.8	34.8	30.2	30.2
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



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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



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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	19.83	20.73	20.75	21.66	22.86	18.73	19.63	19.65	20.56	21.76
	3H	21.48	22.28	22.41	23.22	24.45	20.26	21.06	21.19	22.01	23.23
	4H	22.11	22.87	23.05	23.81	25.05	20.84	21.59	21.78	22.54	23.78
	6H	22.51	23.21	23.47	24.16	25.41	21.21	21.91	22.16	22.86	24.11
	8H	22.66	23.33	23.62	24.30	25.54	21.35	22.02	22.31	22.99	24.23
	12H	22.74	23.37	23.70	24.33	25.60	21.42	22.05	22.38	23.01	24.28
4H	2H	20.24	21.00	21.19	21.95	23.18	19.37	20.13	20.32	21.08	22.31
	3H	22.12	22.75	23.08	23.73	24.97	21.11	21.74	22.07	22.72	23.97
	4H	22.86	23.44	23.83	24.41	25.69	21.78	22.36	22.75	23.33	24.60
	6H	23.39	23.88	24.37	24.88	26.15	22.26	22.76	23.24	23.75	25.02
	8H	23.59	24.06	24.57	25.04	26.33	22.45	22.91	23.43	23.90	25.19
	12H	23.70	24.12	24.70	25.12	26.41	22.54	22.96	23.54	23.96	25.26
8H	4H	23.02	23.49	24.01	24.48	25.76	22.06	22.52	23.04	23.51	24.80
	6H	23.67	24.05	24.67	25.08	26.36	22.67	23.05	23.67	24.08	25.36
	8H	23.96	24.30	24.97	25.31	26.62	22.94	23.28	23.96	24.30	25.60
	12H	24.13	24.43	25.15	25.44	26.79	23.09	23.39	24.11	24.40	25.75
12H	4H	23.00	23.42	24.01	24.43	25.72	22.06	22.48	23.07	23.49	24.78
	6H	23.70	24.03	24.71	25.05	26.35	22.73	23.07	23.74	24.08	25.39
	8H	24.01	24.31	25.03	25.32	26.67	23.04	23.33	24.06	24.35	25.69