

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: P1438716

Luminaire Tested: CB2-085U-055D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438716
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-055D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

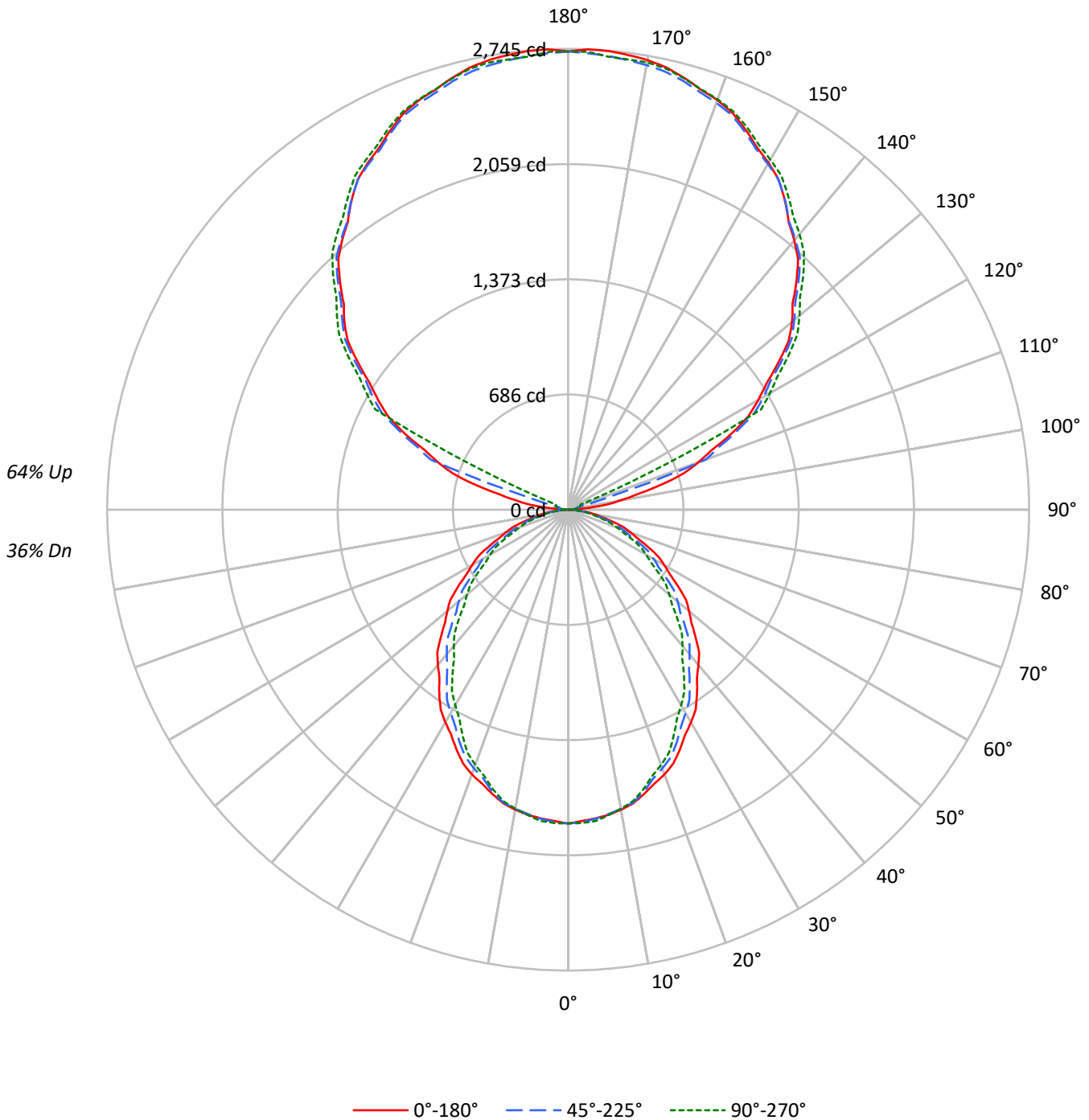
Lumens per Lamp: N/A
Luminaire Lumens: 12140.3 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 94.3
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	50	30	10	0		
RCR																										
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36								
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	37	37	30								
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31	26								
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22								
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19								
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17								
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15								
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13								
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12								
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11								
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16277	16277	16277
5°	16138	16164	16277
10°	16047	16009	15996
15°	15793	15689	15561
20°	15544	15199	14988
25°	15126	14701	14288
30°	14708	14060	13527
35°	14226	13404	12765
40°	13715	12788	12039
45°	13201	12143	11333
50°	12738	11517	10645
55°	12168	10865	9995
60°	11516	10245	9348
65°	10823	9555	8700
70°	10058	8782	7870
75°	9149	7944	7127
80°	8180	6961	6459
85°	6295	5715	4716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.4
10°-20°	489.9	4.0
20°-30°	704.5	5.8
30°-40°	791.8	6.5
40°-50°	764.9	6.3
50°-60°	646.3	5.3
60°-70°	464.2	3.8
70°-80°	253.7	2.1
80°-90°	67.5	0.6
90°-100°	47.6	0.4
100°-110°	302.7	2.5
110°-120°	961.8	7.9
120°-130°	1395.7	11.5
130°-140°	1501.0	12.4
140°-150°	1413.3	11.6
150°-160°	1151.3	9.5
160°-170°	749.4	6.2
170°-180°	259.0	2.1
0°-30°	1370.2	11.3
0°-40°	2162.0	17.8
0°-60°	3573.1	29.4
0°-90°	4358.5	35.9
90°-120°	1312.0	10.8
90°-150°	5622.0	46.3
90°-180°	7782.0	64.1
0°-180°	12140.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1846	1871	1849	1849	1862	175
15°	1752	1767	1740	1723	1726	494
25°	1574	1576	1530	1495	1487	725
35°	1338	1323	1261	1212	1201	836
45°	1072	1050	986	934	920	828
55°	801	772	716	671	658	716
65°	525	506	464	431	422	521
75°	272	255	236	217	212	291
85°	63	59	57	50	47	75
90°	0	0	0	2	2	7
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°	1869.0	1869.0	1869.0	1869.0	1869.0
2.5°	1856.4	1878.8	1862.2	1864.5	1867.9
5°	1846.1	1871.3	1849.0	1849.3	1861.9
7.5°	1833.0	1856.8	1828.7	1823.5	1835.3
10°	1814.6	1838.4	1810.4	1800.5	1808.9
12.5°	1790.6	1813.3	1786.3	1770.7	1778.0
15°	1751.7	1767.1	1740.2	1723.1	1725.9
17.5°	1709.3	1718.8	1680.1	1665.7	1662.9
20°	1677.3	1685.7	1640.0	1620.0	1617.2
22.5°	1636.0	1643.3	1595.4	1570.7	1566.8
25°	1574.2	1575.6	1529.9	1495.3	1486.9
27.5°	1509.5	1505.1	1454.3	1413.4	1402.5
30°	1462.6	1457.0	1398.2	1355.0	1345.2
32.5°	1412.2	1402.1	1343.2	1296.6	1286.9
35°	1338.1	1322.7	1260.8	1211.9	1200.7
37.5°	1259.1	1241.7	1181.0	1127.7	1115.1
40°	1206.4	1186.8	1124.9	1071.6	1059.0
42.5°	1153.8	1131.9	1068.8	1015.5	1001.8
45°	1071.9	1049.5	986.0	934.2	920.2
47.5°	994.0	965.5	903.9	852.3	838.3
50°	940.2	909.5	850.1	799.7	785.7
52.5°	885.3	853.4	796.3	748.2	734.2
55°	801.4	772.0	715.6	670.9	658.3
57.5°	718.4	690.2	638.6	595.9	583.6
60°	661.2	637.4	588.2	547.9	536.7
62.5°	606.2	584.7	537.8	500.9	489.7
65°	525.2	505.6	463.7	430.6	422.2
67.5°	446.5	426.9	393.0	363.3	353.8
70°	395.0	375.4	344.9	317.5	309.1
72.5°	345.8	325.0	300.2	275.2	269.0
75°	271.9	255.1	236.1	217.4	211.8
77.5°	206.7	190.4	176.6	163.4	162.0
80°	163.1	149.2	138.8	130.2	128.8
82.5°	121.9	111.3	104.5	98.2	97.9
85°	63.0	58.8	57.2	50.0	47.2
87.5°	18.3	18.3	16.0	14.1	14.1
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	15.22	15.96	16.30	17.04	18.50	14.12	14.86	15.20	15.94	17.40
	3H	16.86	17.52	17.94	18.60	20.08	15.64	16.31	16.72	17.39	18.86
	4H	17.48	18.11	18.58	19.19	20.68	16.21	16.84	17.30	17.92	19.41
	6H	17.88	18.46	18.98	19.54	21.04	16.58	17.15	17.68	18.24	19.74
	8H	18.02	18.57	19.13	19.68	21.17	16.71	17.26	17.82	18.36	19.85
	12H	18.09	18.62	19.20	19.71	21.22	16.77	17.29	17.88	18.39	19.90
4H	2H	15.62	16.25	16.72	17.33	18.81	14.74	15.37	15.84	16.45	17.94
	3H	17.48	18.00	18.58	19.11	20.61	16.47	16.99	17.57	18.10	19.60
	4H	18.22	18.70	19.33	19.80	21.32	17.14	17.62	18.25	18.72	20.23
	6H	18.73	19.14	19.85	20.26	21.78	17.61	18.02	18.72	19.14	20.65
	8H	18.93	19.32	20.05	20.43	21.96	17.79	18.18	18.91	19.29	20.82
	12H	19.03	19.38	20.17	20.51	22.04	17.87	18.22	19.01	19.35	20.88
8H	4H	18.36	18.75	19.48	19.86	21.39	17.40	17.79	18.52	18.90	20.43
	6H	19.00	19.32	20.14	20.48	22.00	18.00	18.32	19.14	19.47	21.00
	8H	19.29	19.57	20.44	20.71	22.25	18.27	18.55	19.42	19.69	21.23
	12H	19.46	19.70	20.61	20.84	22.42	18.42	18.66	19.57	19.80	21.37
12H	4H	18.34	18.69	19.47	19.81	21.34	17.40	17.75	18.53	18.87	20.40
	6H	19.03	19.31	20.17	20.44	21.99	18.06	18.34	19.21	19.48	21.02
	8H	19.34	19.59	20.49	20.72	22.30	18.36	18.61	19.51	19.74	21.32