

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: P1438724

Luminaire Tested: CB2-085U-055D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438724
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-940-1D-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, 90 CRI LEDS
Ballast/Driver: -

Summary

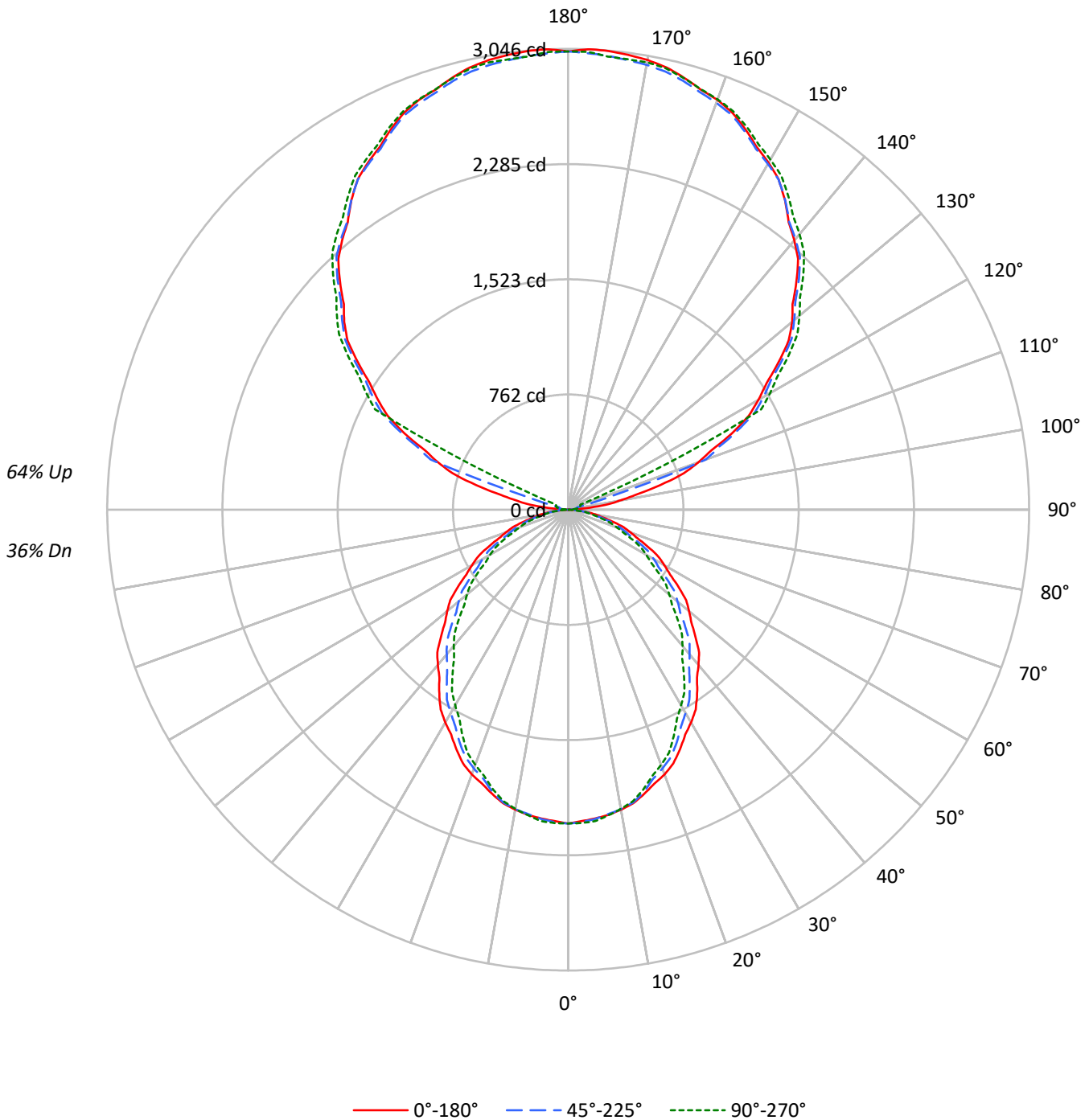
Lumens per Lamp: N/A
Luminaire Lumens: 13473.9 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	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°	18064	18064	18064
5°	17911	17939	18064
10°	17810	17767	17753
15°	17528	17413	17270
20°	17252	16869	16633
25°	16789	16315	15858
30°	16324	15605	15013
35°	15789	14876	14167
40°	15222	14192	13362
45°	14652	13479	12578
50°	14138	12783	11814
55°	13505	12058	11093
60°	12781	11370	10374
65°	12012	10604	9656
70°	11163	9747	8736
75°	10155	8819	7911
80°	9082	7728	7167
85°	6984	6345	5236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	1.4
10°-20°	543.8	4.0
20°-30°	781.9	5.8
30°-40°	878.8	6.5
40°-50°	848.9	6.3
50°-60°	717.2	5.3
60°-70°	515.2	3.8
70°-80°	281.6	2.1
80°-90°	74.9	0.6
90°-100°	52.8	0.4
100°-110°	336.0	2.5
110°-120°	1067.4	7.9
120°-130°	1549.0	11.5
130°-140°	1665.9	12.4
140°-150°	1568.5	11.6
150°-160°	1277.8	9.5
160°-170°	831.7	6.2
170°-180°	287.5	2.1
0°-30°	1520.7	11.3
0°-40°	2399.5	17.8
0°-60°	3965.6	29.4
0°-90°	4837.3	35.9
90°-120°	1456.2	10.8
90°-150°	6239.6	46.3
90°-180°	8637.0	64.1
0°-180°	13473.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2049	2077	2052	2052	2066	195
15°	1944	1961	1931	1912	1916	548
25°	1747	1749	1698	1660	1650	804
35°	1485	1468	1399	1345	1333	928
45°	1190	1165	1094	1037	1021	919
55°	890	857	794	745	731	795
65°	583	561	515	478	469	578
75°	302	283	262	241	235	323
85°	70	65	64	56	52	83
90°	0	0	0	2	2	7
95°	120	35	37	24	22	153
105°	631	654	66	77	81	664
115°	1194	1219	1231	1245	714	1173
125°	1695	1725	1726	1755	1778	1515
135°	2133	2159	2155	2169	2197	1645
145°	2497	2516	2499	2502	2534	1561
155°	2773	2790	2760	2754	2792	1278
165°	2957	2965	2935	2922	2952	835
175°	3044	3051	3011	2992	3007	290
180°	3029	3029	3029	3029	3029	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2074.3	2074.3	2074.3	2074.3	2074.3
2.5°	2060.4	2085.2	2066.7	2069.4	2073.1
5°	2048.9	2076.9	2052.1	2052.4	2066.4
7.5°	2034.3	2060.7	2029.6	2023.8	2036.9
10°	2014.0	2040.4	2009.2	1998.3	2007.6
12.5°	1987.3	2012.5	1982.5	1965.3	1973.3
15°	1944.1	1961.2	1931.4	1912.4	1915.5
17.5°	1897.1	1907.7	1864.7	1848.7	1845.6
20°	1861.5	1870.8	1820.2	1797.9	1794.8
22.5°	1815.8	1823.8	1770.7	1743.2	1738.9
25°	1747.2	1748.7	1697.9	1659.6	1650.3
27.5°	1675.4	1670.4	1614.1	1568.7	1556.6
30°	1623.3	1617.1	1551.8	1503.9	1493.0
32.5°	1567.4	1556.2	1490.8	1439.1	1428.2
35°	1485.1	1468.0	1399.3	1345.0	1332.6
37.5°	1397.4	1378.1	1310.7	1251.6	1237.6
40°	1339.0	1317.2	1248.4	1189.3	1175.4
42.5°	1280.5	1256.3	1186.2	1127.0	1111.8
45°	1189.7	1164.8	1094.4	1036.8	1021.3
47.5°	1103.2	1071.6	1003.2	946.0	930.4
50°	1043.5	1009.4	943.5	887.5	872.0
52.5°	982.5	947.1	883.7	830.3	814.8
55°	889.5	856.8	794.2	744.6	730.6
57.5°	797.3	766.0	708.7	661.4	647.7
60°	733.8	707.4	652.8	608.0	595.6
62.5°	672.8	648.9	596.9	555.9	543.5
65°	582.9	561.2	514.6	477.9	468.6
67.5°	495.6	473.8	436.2	403.2	392.6
70°	438.4	416.6	382.8	352.4	343.1
72.5°	383.7	360.8	333.2	305.4	298.6
75°	301.8	283.1	262.1	241.3	235.1
77.5°	229.4	211.3	196.0	181.4	179.8
80°	181.1	165.5	154.1	144.5	142.9
82.5°	135.3	123.5	115.9	109.0	108.6
85°	69.9	65.2	63.5	55.5	52.4
87.5°	20.3	20.3	17.8	15.7	15.7
90°	0.0	0.0	0.0	2.2	2.2
92.5°	33.3	12.7	8.8	12.7	12.7
95°	120.5	34.8	37.2	24.0	21.9
97.5°	250.1	56.1	53.9	59.2	61.3
100°	348.2	114.8	59.1	67.9	70.1
102.5°	456.9	432.4	60.9	73.2	77.1
105°	630.8	654.3	65.7	76.8	81.0
107.5°	801.6	825.1	305.7	79.4	83.7
110°	915.5	939.0	968.0	81.1	85.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1022.3	1051.0	1073.2	180.6	88.9
115°	1193.6	1219.3	1230.8	1245.1	714.0
117.5°	1344.7	1376.4	1389.4	1414.0	1438.0
120°	1449.9	1479.8	1489.3	1514.0	1539.7
122.5°	1553.2	1579.8	1585.6	1613.8	1637.8
125°	1695.2	1725.1	1725.8	1754.8	1778.4
127.5°	1837.1	1862.8	1861.6	1883.2	1909.3
130°	1931.7	1948.8	1949.2	1967.4	1995.2
132.5°	2010.5	2034.5	2035.1	2049.7	2077.5
135°	2133.2	2158.9	2155.1	2168.9	2196.7
137.5°	2248.4	2273.2	2266.3	2277.9	2306.6
140°	2323.7	2345.1	2334.7	2346.3	2378.5
142.5°	2393.8	2415.2	2399.5	2409.5	2443.3
145°	2496.7	2516.0	2498.9	2501.8	2534.0
147.5°	2588.3	2607.1	2586.5	2589.4	2619.4
150°	2647.9	2665.0	2639.1	2642.0	2671.9
152.5°	2700.4	2715.8	2688.2	2687.6	2722.8
155°	2772.7	2789.8	2759.6	2753.9	2792.4
157.5°	2838.4	2854.2	2823.9	2819.8	2849.8
160°	2882.2	2892.9	2862.5	2856.6	2886.6
162.5°	2912.0	2924.4	2894.0	2884.6	2914.6
165°	2956.7	2965.2	2934.8	2922.3	2952.3
167.5°	2995.2	3005.1	2965.9	2954.8	2986.9
170°	3018.0	3024.4	2985.1	2970.5	3002.7
172.5°	3032.0	3036.7	2997.4	2980.8	3002.7
175°	3044.3	3050.7	3011.4	2992.0	3007.0
177.5°	3046.5	3049.9	3020.2	3003.2	3028.9
180°	3028.9	3028.9	3028.9	3028.9	3028.9

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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	15.59	16.33	16.66	17.40	18.86	14.49	15.23	15.56	16.30	17.76
	3H	17.22	17.88	18.30	18.97	20.44	16.01	16.67	17.09	17.75	19.23
	4H	17.85	18.47	18.94	19.56	21.04	16.57	17.20	17.66	18.28	19.77
	6H	18.24	18.82	19.34	19.90	21.40	16.94	17.52	18.04	18.60	20.10
	8H	18.39	18.94	19.49	20.04	21.53	17.08	17.63	18.18	18.73	20.22
	12H	18.46	18.98	19.57	20.07	21.59	17.13	17.66	18.24	18.75	20.26
4H	2H	15.98	16.61	17.08	17.69	19.18	15.11	15.73	16.21	16.82	18.30
	3H	17.84	18.36	18.94	19.47	20.97	16.83	17.35	17.94	18.46	19.96
	4H	18.58	19.06	19.69	20.16	21.68	17.50	17.98	18.61	19.08	20.60
	6H	19.09	19.51	20.21	20.63	22.14	17.97	18.38	19.08	19.50	21.01
	8H	19.30	19.68	20.41	20.79	22.32	18.15	18.54	19.27	19.65	21.18
	12H	19.40	19.74	20.53	20.87	22.40	18.24	18.59	19.37	19.71	21.24
8H	4H	18.73	19.11	19.84	20.23	21.75	17.76	18.15	18.88	19.26	20.79
	6H	19.36	19.68	20.50	20.84	22.36	18.36	18.68	19.50	19.84	21.36
	8H	19.65	19.93	20.80	21.07	22.61	18.64	18.91	19.78	20.05	21.59
	12H	19.82	20.07	20.97	21.20	22.78	18.78	19.02	19.93	20.16	21.74
12H	4H	18.70	19.05	19.84	20.18	21.71	17.76	18.11	18.89	19.24	20.77
	6H	19.39	19.67	20.54	20.81	22.35	18.42	18.70	19.57	19.84	21.38
	8H	19.70	19.95	20.85	21.08	22.66	18.73	18.97	19.87	20.10	21.68