

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: P1438698

Luminaire Tested: CB2-085U-030D-830-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438698
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-030D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

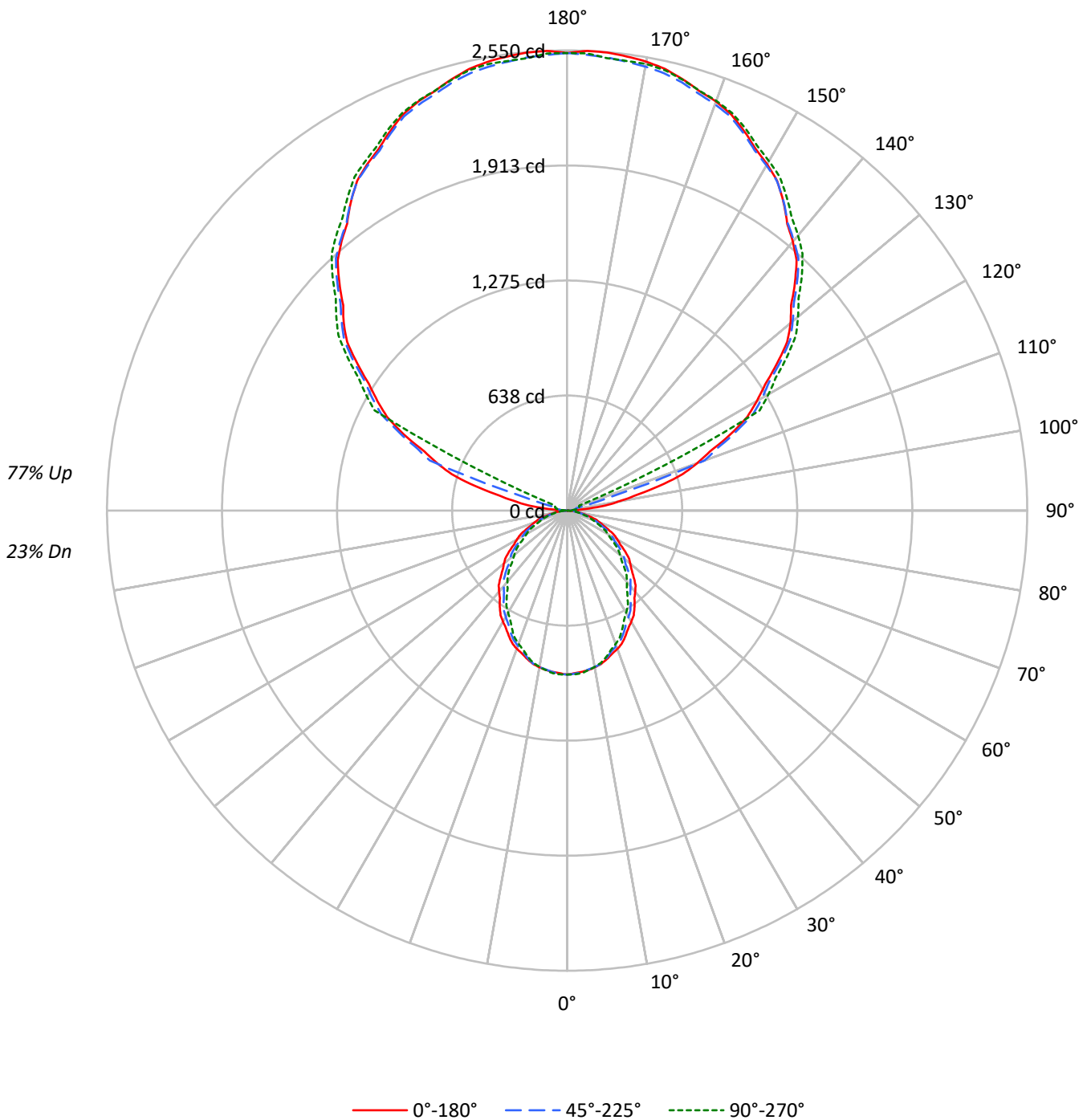
Lumens per Lamp: N/A
Luminaire Lumens: 9348.3 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 76
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	27	27	26	19
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14	10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7915	7915	7915
5°	7848	7860	7915
10°	7803	7785	7778
15°	7680	7629	7567
20°	7559	7391	7288
25°	7356	7148	6947
30°	7152	6837	6579
35°	6918	6518	6208
40°	6669	6218	5855
45°	6419	5905	5511
50°	6194	5601	5177
55°	5917	5284	4860
60°	5600	4981	4546
65°	5263	4647	4231
70°	4891	4270	3827
75°	4448	3863	3466
80°	3977	3385	3139
85°	3058	2778	2298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	0.9
10°-20°	238.2	2.5
20°-30°	342.6	3.7
30°-40°	385.0	4.1
40°-50°	371.9	4.0
50°-60°	314.3	3.4
60°-70°	225.7	2.4
70°-80°	123.4	1.3
80°-90°	32.9	0.4
90°-100°	44.2	0.5
100°-110°	281.2	3.0
110°-120°	893.4	9.6
120°-130°	1296.5	13.9
130°-140°	1394.4	14.9
140°-150°	1312.8	14.0
150°-160°	1069.5	11.4
160°-170°	696.1	7.4
170°-180°	240.6	2.6
0°-30°	666.3	7.1
0°-40°	1051.3	11.2
0°-60°	1737.5	18.6
0°-90°	2119.5	22.7
90°-120°	1218.8	13.0
90°-150°	5222.6	55.9
90°-180°	7229.0	77.3
0°-180°	9348.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	898	910	899	899	905	85
15°	852	859	846	838	839	240
25°	766	766	744	727	723	352
35°	651	643	613	589	584	406
45°	521	510	480	454	448	403
55°	390	375	348	326	320	348
65°	255	246	226	209	205	253
75°	132	124	115	106	103	141
85°	31	29	28	24	23	36
90°	0	0	0	2	2	5
95°	101	29	31	20	18	128
105°	528	548	55	64	68	556
115°	999	1021	1030	1042	598	982
125°	1419	1444	1444	1469	1488	1268
135°	1786	1807	1804	1815	1839	1377
145°	2090	2106	2092	2094	2121	1306
155°	2321	2335	2310	2305	2337	1070
165°	2475	2482	2456	2446	2471	699
175°	2548	2553	2521	2504	2517	242
180°	2535	2535	2535	2535	2535	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.9	908.9	908.9	908.9	908.9
2.5°	902.7	913.6	905.5	906.7	908.3
5°	897.7	910.0	899.1	899.2	905.4
7.5°	891.3	902.9	889.2	886.7	892.4
10°	882.4	894.0	880.3	875.5	879.6
12.5°	870.7	881.7	868.6	861.1	864.6
15°	851.8	859.3	846.2	837.9	839.3
17.5°	831.2	835.8	817.0	810.0	808.6
20°	815.6	819.7	797.5	787.7	786.4
22.5°	795.6	799.1	775.8	763.8	761.9
25°	765.5	766.2	743.9	727.1	723.0
27.5°	734.0	731.9	707.2	687.3	682.0
30°	711.2	708.5	679.9	658.9	654.2
32.5°	686.7	681.8	653.2	630.5	625.8
35°	650.7	643.2	613.1	589.3	583.9
37.5°	612.3	603.8	574.3	548.4	542.2
40°	586.6	577.1	547.0	521.1	515.0
42.5°	561.0	550.4	519.7	493.8	487.1
45°	521.2	510.3	479.5	454.3	447.5
47.5°	483.4	469.5	439.5	414.5	407.7
50°	457.2	442.2	413.4	388.9	382.1
52.5°	430.5	415.0	387.2	363.8	357.0
55°	389.7	375.4	348.0	326.2	320.1
57.5°	349.3	335.6	310.5	289.8	283.8
60°	321.5	309.9	286.0	266.4	261.0
62.5°	294.8	284.3	261.5	243.6	238.1
65°	255.4	245.9	225.5	209.4	205.3
67.5°	217.1	207.6	191.1	176.7	172.0
70°	192.1	182.5	167.7	154.4	150.3
72.5°	168.1	158.1	146.0	133.8	130.8
75°	132.2	124.1	114.8	105.7	103.0
77.5°	100.5	92.6	85.9	79.5	78.8
80°	79.3	72.5	67.5	63.3	62.6
82.5°	59.3	54.1	50.8	47.7	47.6
85°	30.6	28.6	27.8	24.3	23.0
87.5°	8.9	8.9	7.8	7.0	7.0
90°	0.0	0.0	0.0	1.8	1.8
92.5°	27.9	10.7	7.3	10.6	10.6
95°	100.8	29.1	31.2	20.1	18.3
97.5°	209.3	47.0	45.1	49.5	51.3
100°	291.5	96.1	49.5	56.9	58.7
102.5°	382.4	362.0	51.0	61.3	64.5
105°	527.9	547.7	55.0	64.2	67.8
107.5°	670.9	690.6	255.9	66.4	70.0
110°	766.3	786.0	810.2	67.9	71.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	855.7	879.7	898.2	151.1	74.4
115°	999.1	1020.6	1030.2	1042.1	597.6
117.5°	1125.5	1152.1	1162.9	1183.6	1203.6
120°	1213.5	1238.6	1246.5	1267.2	1288.7
122.5°	1300.1	1322.3	1327.2	1350.7	1370.8
125°	1418.8	1443.9	1444.5	1468.8	1488.5
127.5°	1537.6	1559.1	1558.2	1576.3	1598.1
130°	1616.8	1631.2	1631.5	1646.7	1670.0
132.5°	1682.8	1702.9	1703.4	1715.6	1738.9
135°	1785.5	1807.0	1803.8	1815.3	1838.6
137.5°	1881.9	1902.7	1896.9	1906.6	1930.7
140°	1945.0	1962.9	1954.1	1963.9	1990.8
142.5°	2003.6	2021.5	2008.4	2016.7	2045.1
145°	2089.8	2105.9	2091.6	2094.1	2120.9
147.5°	2166.4	2182.2	2164.9	2167.3	2192.4
150°	2216.3	2230.6	2208.9	2211.3	2236.4
152.5°	2260.3	2273.2	2250.0	2249.6	2279.0
155°	2320.8	2335.1	2309.8	2305.0	2337.3
157.5°	2375.7	2389.0	2363.7	2360.2	2385.3
160°	2412.4	2421.4	2395.9	2391.0	2416.1
162.5°	2437.3	2447.7	2422.3	2414.4	2439.5
165°	2474.7	2481.9	2456.4	2446.0	2471.1
167.5°	2507.0	2515.2	2482.4	2473.1	2500.0
170°	2526.1	2531.4	2498.6	2486.3	2513.2
172.5°	2537.8	2541.7	2508.8	2495.0	2513.2
175°	2548.1	2553.4	2520.6	2504.4	2516.9
177.5°	2549.9	2552.8	2527.9	2513.7	2535.2
180°	2535.2	2535.2	2535.2	2535.2	2535.2

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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	10.85	11.50	12.01	12.65	14.27	9.75	10.40	10.91	11.55	13.17
	3H	12.48	13.06	13.65	14.22	15.85	11.26	11.85	12.43	13.00	14.63
	4H	13.10	13.65	14.27	14.81	16.44	11.82	12.38	13.00	13.54	15.17
	6H	13.49	14.00	14.67	15.16	16.80	12.19	12.70	13.37	13.86	15.50
	8H	13.63	14.12	14.82	15.29	16.93	12.32	12.81	13.51	13.98	15.62
	12H	13.70	14.16	14.89	15.33	16.98	12.38	12.84	13.57	14.00	15.66
4H	2H	11.23	11.79	12.42	12.94	14.58	10.36	10.92	11.54	12.07	13.71
	3H	13.08	13.55	14.27	14.73	16.37	12.07	12.54	13.26	13.72	15.37
	4H	13.82	14.25	15.01	15.42	17.08	12.74	13.17	13.93	14.34	16.00
	6H	14.33	14.69	15.52	15.89	17.54	13.20	13.57	14.40	14.76	16.41
	8H	14.53	14.87	15.72	16.05	17.72	13.39	13.73	14.58	14.91	16.58
	12H	14.62	14.93	15.83	16.13	17.80	13.47	13.78	14.68	14.97	16.64
8H	4H	13.96	14.30	15.15	15.48	17.15	13.00	13.34	14.19	14.52	16.19
	6H	14.59	14.88	15.81	16.10	17.77	13.59	13.87	14.81	15.10	16.77
	8H	14.88	15.13	16.10	16.33	18.02	13.87	14.11	15.08	15.31	17.00
	12H	15.05	15.26	16.27	16.46	18.18	14.01	14.22	15.23	15.42	17.14
12H	4H	13.93	14.24	15.14	15.43	17.11	12.99	13.30	14.20	14.49	16.17
	6H	14.62	14.87	15.84	16.07	17.75	13.65	13.90	14.87	15.10	16.79
	8H	14.93	15.14	16.15	16.34	18.06	13.95	14.16	15.17	15.36	17.08