

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: P1438740

Luminaire Tested: CB2-085U-120D-830-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438740  
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-830-1D-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

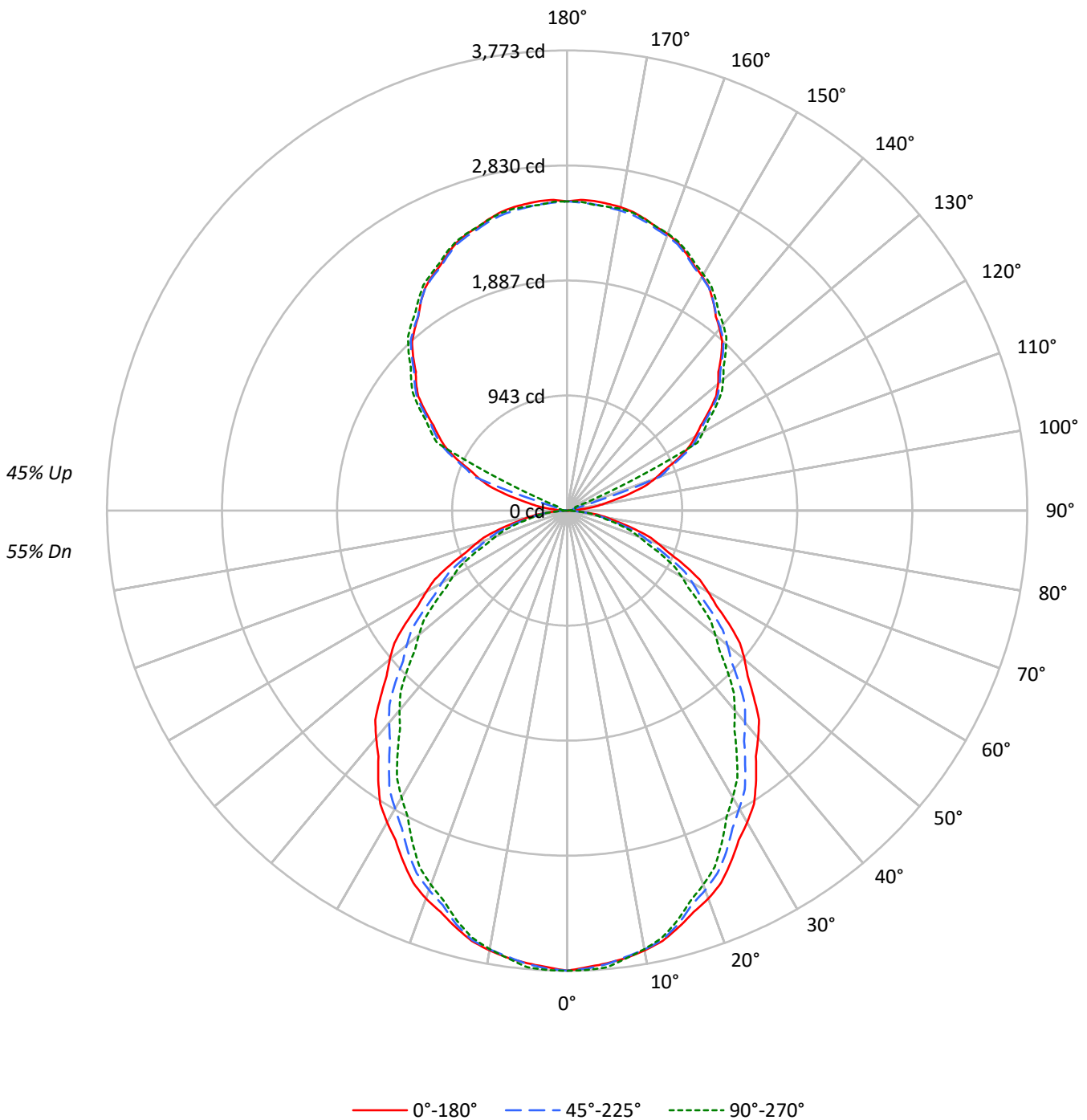
Lumens per Lamp: N/A  
Luminaire Lumens: 16026.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

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°	32854	32854	32854
5°	32576	32627	32854
10°	32391	32314	32288
15°	31878	31669	31410
20°	31375	30679	30251
25°	30533	29672	28840
30°	29687	28381	27306
35°	28714	27056	25766
40°	27684	25812	24301
45°	26647	24512	22876
50°	25713	23248	21486
55°	24562	21929	20175
60°	23245	20680	18868
65°	21845	19286	17561
70°	20301	17727	15889
75°	18469	16037	14384
80°	16515	14052	13039
85°	12700	11541	9522

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26647 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.8	2.2
10°-20°	988.9	6.2
20°-30°	1421.9	8.9
30°-40°	1598.2	10.0
40°-50°	1543.9	9.6
50°-60°	1304.5	8.1
60°-70°	937.0	5.8
70°-80°	512.1	3.2
80°-90°	136.1	0.8
90°-100°	44.2	0.3
100°-110°	281.2	1.8
110°-120°	893.4	5.6
120°-130°	1296.5	8.1
130°-140°	1394.4	8.7
140°-150°	1312.8	8.2
150°-160°	1069.5	6.7
160°-170°	696.1	4.3
170°-180°	240.6	1.5
0°-30°	2765.7	17.3
0°-40°	4363.9	27.2
0°-60°	7212.3	45.0
0°-90°	8797.5	54.9
90°-120°	1218.8	7.6
90°-150°	5222.6	32.6
90°-180°	7229.0	45.1
0°-180°	16026.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3773	3773	3773	3773	3773	
5°	3726	3777	3732	3733	3758	354
15°	3536	3567	3513	3478	3484	997
25°	3178	3180	3088	3018	3001	1463
35°	2701	2670	2545	2446	2424	1687
45°	2164	2118	1990	1886	1857	1672
55°	1618	1558	1444	1354	1329	1446
65°	1060	1021	936	869	852	1051
75°	549	515	477	439	428	587
85°	127	119	116	101	95	151
90°	0	0	0	2	2	9
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°	3772.6	3772.6	3772.6	3772.6	3772.6
2.5°	3747.2	3792.4	3758.8	3763.5	3770.3
5°	3726.4	3777.3	3732.2	3732.8	3758.2
7.5°	3699.8	3747.9	3691.2	3680.7	3704.5
10°	3662.9	3710.9	3654.2	3634.4	3651.3
12.5°	3614.3	3660.1	3605.7	3574.2	3588.9
15°	3535.8	3566.8	3512.6	3478.1	3483.8
17.5°	3450.3	3469.5	3391.3	3362.3	3356.7
20°	3385.5	3402.5	3310.4	3269.9	3264.2
22.5°	3302.4	3317.0	3220.3	3170.4	3162.5
25°	3177.6	3180.4	3088.0	3018.3	3001.4
27.5°	3047.0	3038.0	2935.5	2852.9	2830.9
30°	2952.2	2940.9	2822.3	2735.1	2715.4
32.5°	2850.6	2830.2	2711.3	2617.3	2597.5
35°	2700.9	2669.9	2544.9	2446.2	2423.6
37.5°	2541.5	2506.4	2383.7	2276.3	2250.9
40°	2435.2	2395.6	2270.5	2163.1	2137.6
42.5°	2328.9	2284.8	2157.3	2049.8	2022.1
45°	2163.6	2118.4	1990.3	1885.7	1857.4
47.5°	2006.5	1948.9	1824.5	1720.4	1692.2
50°	1897.9	1835.7	1715.9	1614.1	1585.9
52.5°	1786.9	1722.5	1607.3	1510.1	1481.9
55°	1617.7	1558.4	1444.3	1354.2	1328.8
57.5°	1450.1	1393.1	1288.9	1202.9	1178.0
60°	1334.6	1286.6	1187.3	1105.9	1083.3
62.5°	1223.6	1180.2	1085.6	1011.1	988.5
65°	1060.1	1020.6	935.9	869.1	852.2
67.5°	901.3	861.7	793.2	733.3	714.1
70°	797.3	757.7	696.2	640.9	624.0
72.5°	697.9	656.1	606.0	555.5	543.1
75°	548.9	515.0	476.6	438.8	427.5
77.5°	417.1	384.4	356.5	329.8	327.0
80°	329.3	301.1	280.2	262.8	260.0
82.5°	246.1	224.7	210.9	198.2	197.6
85°	127.1	118.6	115.5	101.0	95.3
87.5°	37.0	37.0	32.4	28.1	28.1
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	19.58	20.47	20.49	21.40	22.60	18.48	19.37	19.39	20.30	21.50
	3H	21.22	22.02	22.15	22.97	24.19	20.01	20.81	20.93	21.75	22.97
	4H	21.85	22.61	22.80	23.56	24.79	20.58	21.34	21.52	22.29	23.52
	6H	22.26	22.96	23.21	23.91	25.16	20.95	21.65	21.91	22.61	23.85
	8H	22.41	23.07	23.37	24.04	25.29	21.10	21.76	22.06	22.73	23.97
	12H	22.48	23.11	23.45	24.08	25.35	21.16	21.79	22.13	22.76	24.03
4H	2H	19.99	20.75	20.94	21.69	22.93	19.11	19.87	20.06	20.82	22.05
	3H	21.86	22.49	22.82	23.47	24.72	20.85	21.48	21.81	22.46	23.71
	4H	22.61	23.18	23.58	24.16	25.43	21.53	22.10	22.50	23.08	24.35
	6H	23.13	23.63	24.11	24.62	25.89	22.00	22.50	22.98	23.50	24.77
	8H	23.34	23.80	24.32	24.79	26.07	22.19	22.66	23.18	23.65	24.93
	12H	23.44	23.86	24.44	24.87	26.16	22.28	22.70	23.29	23.71	25.00
8H	4H	22.77	23.23	23.75	24.22	25.51	21.80	22.27	22.79	23.26	24.54
	6H	23.41	23.79	24.42	24.82	26.11	22.41	22.79	23.42	23.82	25.11
	8H	23.70	24.04	24.72	25.06	26.36	22.68	23.02	23.70	24.04	25.34
	12H	23.88	24.17	24.90	25.19	26.53	22.84	23.13	23.85	24.15	25.49
12H	4H	22.75	23.17	23.75	24.17	25.46	21.81	22.23	22.81	23.23	24.52
	6H	23.44	23.78	24.46	24.80	26.10	22.47	22.81	23.49	23.83	25.13
	8H	23.76	24.06	24.78	25.07	26.42	22.78	23.08	23.80	24.09	25.44