

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: P1438726

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

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438726
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-085D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

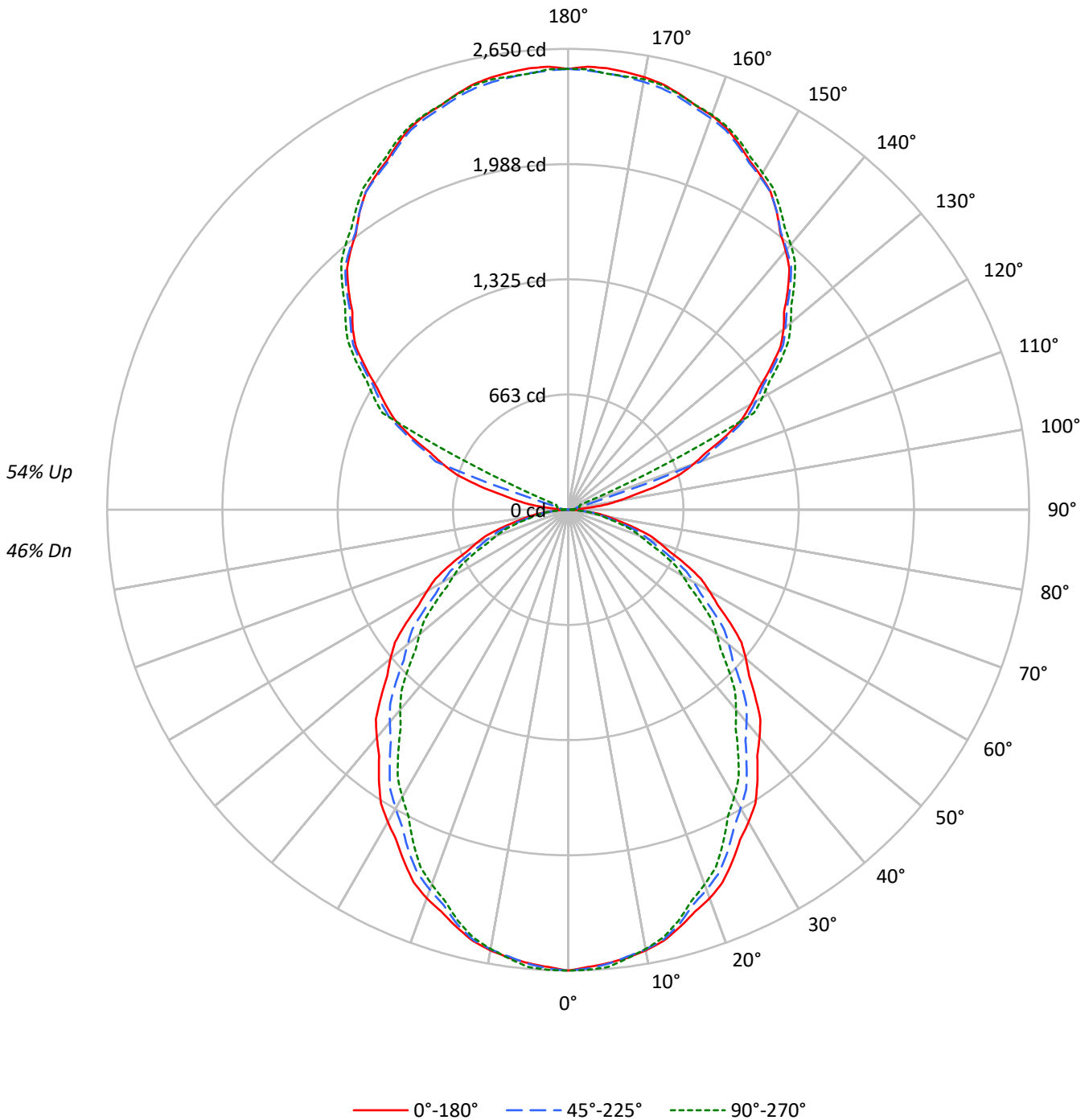
Lumens per Lamp: N/A
Luminaire Lumens: 13408.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 113.4
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	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46				
1	97	93	89	86	89	85	82	79	71	69	67	59	57	55	47	46	45	39				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	39	38	33				
3	81	72	64	59	74	66	60	55	55	51	47	46	42	40	37	34	32	28				
4	74	63	56	50	68	59	52	46	49	44	40	41	37	34	33	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	26	21	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23080	23080	23080
5°	22884	22919	23079
10°	22753	22700	22681
15°	22394	22247	22064
20°	22040	21552	21251
25°	21448	20844	20260
30°	20855	19936	19182
35°	20171	19006	18100
40°	19447	18133	17071
45°	18719	17219	16070
50°	18063	16331	15093
55°	17254	15405	14172
60°	16329	14526	13255
65°	15346	13549	12335
70°	14262	12451	11160
75°	12975	11265	10104
80°	11600	9870	9158
85°	8923	8114	6695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18719 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.9
10°-20°	694.7	5.2
20°-30°	998.9	7.4
30°-40°	1122.7	8.4
40°-50°	1084.5	8.1
50°-60°	916.4	6.8
60°-70°	658.2	4.9
70°-80°	359.7	2.7
80°-90°	95.7	0.7
90°-100°	44.2	0.3
100°-110°	281.2	2.1
110°-120°	893.4	6.7
120°-130°	1296.5	9.7
130°-140°	1394.4	10.4
140°-150°	1312.8	9.8
150°-160°	1069.5	8.0
160°-170°	696.1	5.2
170°-180°	240.6	1.8
0°-30°	1942.8	14.5
0°-40°	3065.5	22.9
0°-60°	5066.4	37.8
0°-90°	6180.0	46.1
90°-120°	1218.8	9.1
90°-150°	5222.6	38.9
90°-180°	7229.0	53.9
0°-180°	13408.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2618	2653	2622	2622	2640	249
15°	2484	2506	2468	2443	2447	700
25°	2232	2234	2169	2120	2108	1028
35°	1897	1876	1788	1718	1702	1185
45°	1520	1488	1398	1325	1305	1174
55°	1136	1095	1015	951	933	1016
65°	745	717	658	610	599	738
75°	386	362	335	308	300	412
85°	89	83	81	71	67	106
90°	0	0	0	2	2	7
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°	2650.2	2650.2	2650.2	2650.2	2650.2
2.5°	2632.3	2664.0	2640.4	2643.8	2648.5
5°	2617.7	2653.4	2621.7	2622.2	2640.0
7.5°	2599.0	2632.7	2592.9	2585.6	2602.3
10°	2573.0	2606.8	2567.0	2553.0	2564.9
12.5°	2539.0	2571.1	2532.9	2510.8	2521.1
15°	2483.8	2505.6	2467.5	2443.3	2447.2
17.5°	2423.7	2437.2	2382.3	2361.9	2357.9
20°	2378.2	2390.1	2325.5	2297.0	2293.0
22.5°	2319.8	2330.1	2262.2	2227.1	2221.6
25°	2232.1	2234.1	2169.2	2120.3	2108.4
27.5°	2140.4	2134.1	2062.1	2004.1	1988.6
30°	2073.9	2065.9	1982.5	1921.3	1907.5
32.5°	2002.4	1988.1	1904.6	1838.6	1824.7
35°	1897.3	1875.5	1787.7	1718.4	1702.5
37.5°	1785.3	1760.7	1674.5	1599.0	1581.2
40°	1710.6	1682.8	1595.0	1519.5	1501.6
42.5°	1636.0	1605.0	1515.4	1439.9	1420.4
45°	1519.9	1488.1	1398.1	1324.6	1304.8
47.5°	1409.5	1369.0	1281.7	1208.6	1188.7
50°	1333.2	1289.5	1205.4	1133.9	1114.0
52.5°	1255.3	1210.0	1129.1	1060.8	1041.0
55°	1136.4	1094.7	1014.6	951.3	933.4
57.5°	1018.7	978.6	905.4	845.0	827.5
60°	937.5	903.8	834.0	776.8	761.0
62.5°	859.6	829.0	762.6	710.3	694.4
65°	744.7	716.9	657.5	610.5	598.6
67.5°	633.1	605.3	557.2	515.1	501.6
70°	560.1	532.3	489.0	450.2	438.3
72.5°	490.3	460.9	425.7	390.2	381.5
75°	385.6	361.7	334.8	308.3	300.3
77.5°	293.0	270.0	250.4	231.7	229.7
80°	231.3	211.5	196.8	184.6	182.6
82.5°	172.9	157.8	148.1	139.2	138.8
85°	89.3	83.3	81.2	70.9	67.0
87.5°	26.0	26.0	22.7	19.8	19.8
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	17.53	18.35	18.52	19.35	20.68	16.43	17.25	17.43	18.25	19.58
	3H	19.17	19.91	20.18	20.92	22.27	17.96	18.69	18.96	19.70	21.05
	4H	19.80	20.49	20.82	21.51	22.86	18.53	19.22	19.54	20.24	21.59
	6H	20.20	20.84	21.23	21.86	23.23	18.90	19.54	19.92	20.55	21.92
	8H	20.35	20.96	21.38	21.99	23.35	19.04	19.64	20.07	20.68	22.04
	12H	20.42	21.00	21.46	22.03	23.42	19.10	19.68	20.13	20.70	22.09
4H	2H	17.94	18.63	18.96	19.64	21.00	17.06	17.75	18.08	18.77	20.13
	3H	19.80	20.38	20.83	21.42	22.79	18.79	19.37	19.82	20.41	21.78
	4H	20.55	21.07	21.58	22.11	23.50	19.46	19.99	20.50	21.03	22.42
	6H	21.06	21.52	22.11	22.58	23.96	19.94	20.39	20.99	21.45	22.84
	8H	21.27	21.69	22.32	22.74	24.14	20.13	20.55	21.18	21.60	23.00
	12H	21.37	21.75	22.44	22.82	24.23	20.21	20.60	21.28	21.66	23.07
8H	4H	20.70	21.12	21.75	22.17	23.58	19.73	20.16	20.78	21.21	22.61
	6H	21.34	21.69	22.41	22.78	24.18	20.34	20.69	21.41	21.78	23.18
	8H	21.63	21.94	22.71	23.01	24.43	20.61	20.92	21.69	22.00	23.42
	12H	21.80	22.07	22.88	23.14	24.60	20.76	21.03	21.84	22.10	23.56
12H	4H	20.68	21.06	21.74	22.13	23.53	19.74	20.12	20.80	21.19	22.59
	6H	21.37	21.68	22.45	22.75	24.17	20.40	20.71	21.48	21.78	23.20
	8H	21.68	21.95	22.77	23.02	24.49	20.70	20.97	21.79	22.05	23.51