

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: P1438738

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

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438738
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

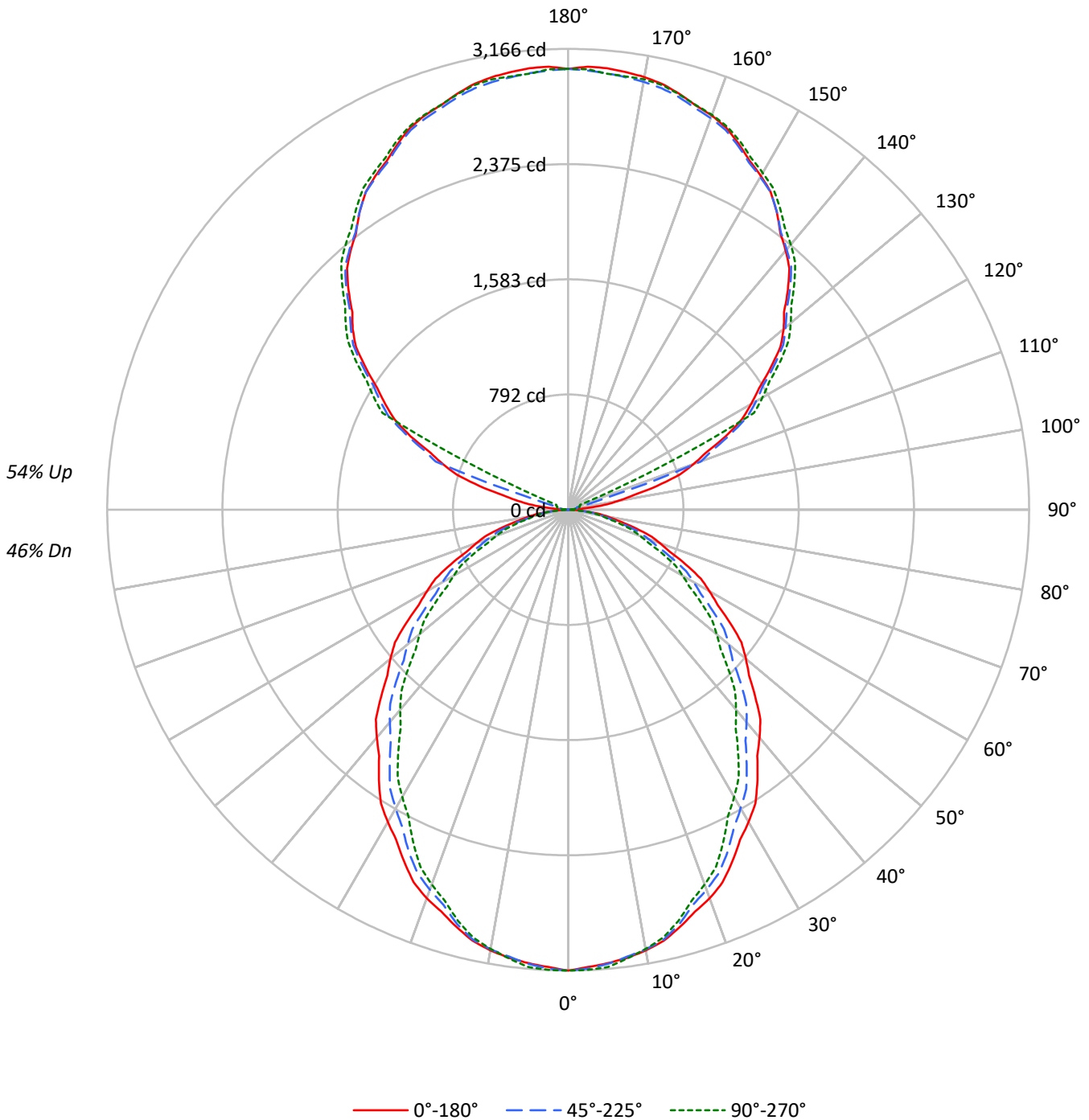
Lumens per Lamp: N/A
Luminaire Lumens: 16020.1 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

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°	27573	27573	27573
5°	27340	27382	27573
10°	27184	27120	27099
15°	26754	26579	26361
20°	26333	25748	25389
25°	25625	24904	24204
30°	24916	23818	22916
35°	24099	22707	21625
40°	23235	21664	20395
45°	22364	20573	19199
50°	21580	19511	18033
55°	20614	18405	16932
60°	19509	17355	15834
65°	18334	16186	14738
70°	17037	14878	13335
75°	15498	13459	12073
80°	13862	11796	10943
85°	10662	9692	7994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22364 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	1.9
10°-20°	830.0	5.2
20°-30°	1193.4	7.4
30°-40°	1341.4	8.4
40°-50°	1295.7	8.1
50°-60°	1094.8	6.8
60°-70°	786.4	4.9
70°-80°	429.8	2.7
80°-90°	114.3	0.7
90°-100°	52.8	0.3
100°-110°	336.0	2.1
110°-120°	1067.4	6.7
120°-130°	1549.0	9.7
130°-140°	1665.9	10.4
140°-150°	1568.5	9.8
150°-160°	1277.8	8.0
160°-170°	831.7	5.2
170°-180°	287.5	1.8
0°-30°	2321.1	14.5
0°-40°	3662.5	22.9
0°-60°	6053.0	37.8
0°-90°	7383.5	46.1
90°-120°	1456.2	9.1
90°-150°	6239.6	38.9
90°-180°	8637.0	53.9
0°-180°	16020.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3166	3166	3166	3166	3166	
5°	3127	3170	3132	3133	3154	297
15°	2967	2994	2948	2919	2924	836
25°	2667	2669	2592	2533	2519	1228
35°	2267	2241	2136	2053	2034	1416
45°	1816	1778	1670	1583	1559	1403
55°	1358	1308	1212	1136	1115	1214
65°	890	857	786	729	715	882
75°	461	432	400	368	359	493
85°	107	100	97	85	80	127
90°	0	0	0	2	2	9
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°	3166.2	3166.2	3166.2	3166.2	3166.2
2.5°	3144.9	3182.8	3154.6	3158.6	3164.3
5°	3127.4	3170.1	3132.3	3132.8	3154.1
7.5°	3105.1	3145.4	3097.9	3089.1	3109.0
10°	3074.1	3114.4	3066.8	3050.2	3064.4
12.5°	3033.4	3071.8	3026.1	2999.7	3012.0
15°	2967.4	2993.5	2948.0	2919.1	2923.8
17.5°	2895.7	2911.8	2846.2	2821.9	2817.1
20°	2841.4	2855.6	2778.3	2744.3	2739.5
22.5°	2771.5	2783.9	2702.7	2660.8	2654.2
25°	2666.8	2669.2	2591.7	2533.2	2518.9
27.5°	2557.2	2549.6	2463.7	2394.4	2375.9
30°	2477.7	2468.2	2368.6	2295.5	2278.9
32.5°	2392.4	2375.3	2275.5	2196.6	2180.0
35°	2266.8	2240.7	2135.9	2053.0	2034.1
37.5°	2133.0	2103.6	2000.6	1910.4	1889.1
40°	2043.8	2010.6	1905.6	1815.4	1794.0
42.5°	1954.5	1917.6	1810.5	1720.3	1697.1
45°	1815.9	1777.9	1670.4	1582.6	1558.9
47.5°	1684.0	1635.6	1531.2	1443.9	1420.2
50°	1592.8	1540.7	1440.1	1354.7	1331.0
52.5°	1499.7	1445.7	1348.9	1267.4	1243.7
55°	1357.7	1307.9	1212.2	1136.5	1115.2
57.5°	1217.0	1169.2	1081.8	1009.5	988.7
60°	1120.1	1079.8	996.4	928.1	909.1
62.5°	1027.0	990.5	911.1	848.6	829.6
65°	889.7	856.6	785.5	729.4	715.2
67.5°	756.4	723.2	665.7	615.4	599.3
70°	669.1	635.9	584.3	537.9	523.7
72.5°	585.7	550.6	508.6	466.2	455.8
75°	460.6	432.2	400.0	368.3	358.8
77.5°	350.1	322.6	299.2	276.8	274.4
80°	276.4	252.7	235.2	220.6	218.2
82.5°	206.6	188.5	177.0	166.3	165.8
85°	106.7	99.6	97.0	84.7	80.0
87.5°	31.0	31.0	27.2	23.7	23.7
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	18.15	18.97	19.14	19.97	21.30	17.05	17.87	18.04	18.87	20.20
	3H	19.79	20.52	20.80	21.54	22.88	18.58	19.31	19.58	20.32	21.67
	4H	20.42	21.11	21.43	22.13	23.48	19.15	19.84	20.16	20.85	22.21
	6H	20.82	21.46	21.85	22.48	23.84	19.52	20.15	20.54	21.17	22.54
	8H	20.97	21.57	22.00	22.61	23.97	19.65	20.26	20.69	21.30	22.66
	12H	21.04	21.62	22.08	22.65	24.03	19.72	20.29	20.75	21.32	22.71
4H	2H	18.55	19.25	19.58	20.26	21.62	17.68	18.37	18.70	19.39	20.74
	3H	20.42	21.00	21.45	22.04	23.41	19.41	19.99	20.44	21.03	22.40
	4H	21.16	21.69	22.20	22.73	24.12	20.08	20.61	21.12	21.65	23.04
	6H	21.68	22.14	22.73	23.19	24.58	20.56	21.01	21.60	22.07	23.46
	8H	21.89	22.31	22.93	23.36	24.76	20.74	21.17	21.79	22.22	23.62
	12H	21.99	22.37	23.06	23.44	24.85	20.83	21.21	21.90	22.28	23.69
8H	4H	21.32	21.74	22.37	22.79	24.19	20.35	20.78	21.40	21.83	23.23
	6H	21.96	22.31	23.03	23.40	24.80	20.96	21.31	22.03	22.40	23.80
	8H	22.25	22.55	23.33	23.63	25.05	21.23	21.54	22.31	22.61	24.03
	12H	22.42	22.69	23.50	23.76	25.22	21.38	21.65	22.46	22.72	24.18
12H	4H	21.29	21.68	22.36	22.74	24.15	20.35	20.74	21.42	21.80	23.21
	6H	21.99	22.29	23.06	23.37	24.79	21.02	21.33	22.10	22.40	23.82
	8H	22.30	22.57	23.38	23.64	25.10	21.32	21.59	22.41	22.67	24.13