

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: P1438746

Luminaire Tested: CB2-085U-120D-927-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438746
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-927-1D-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

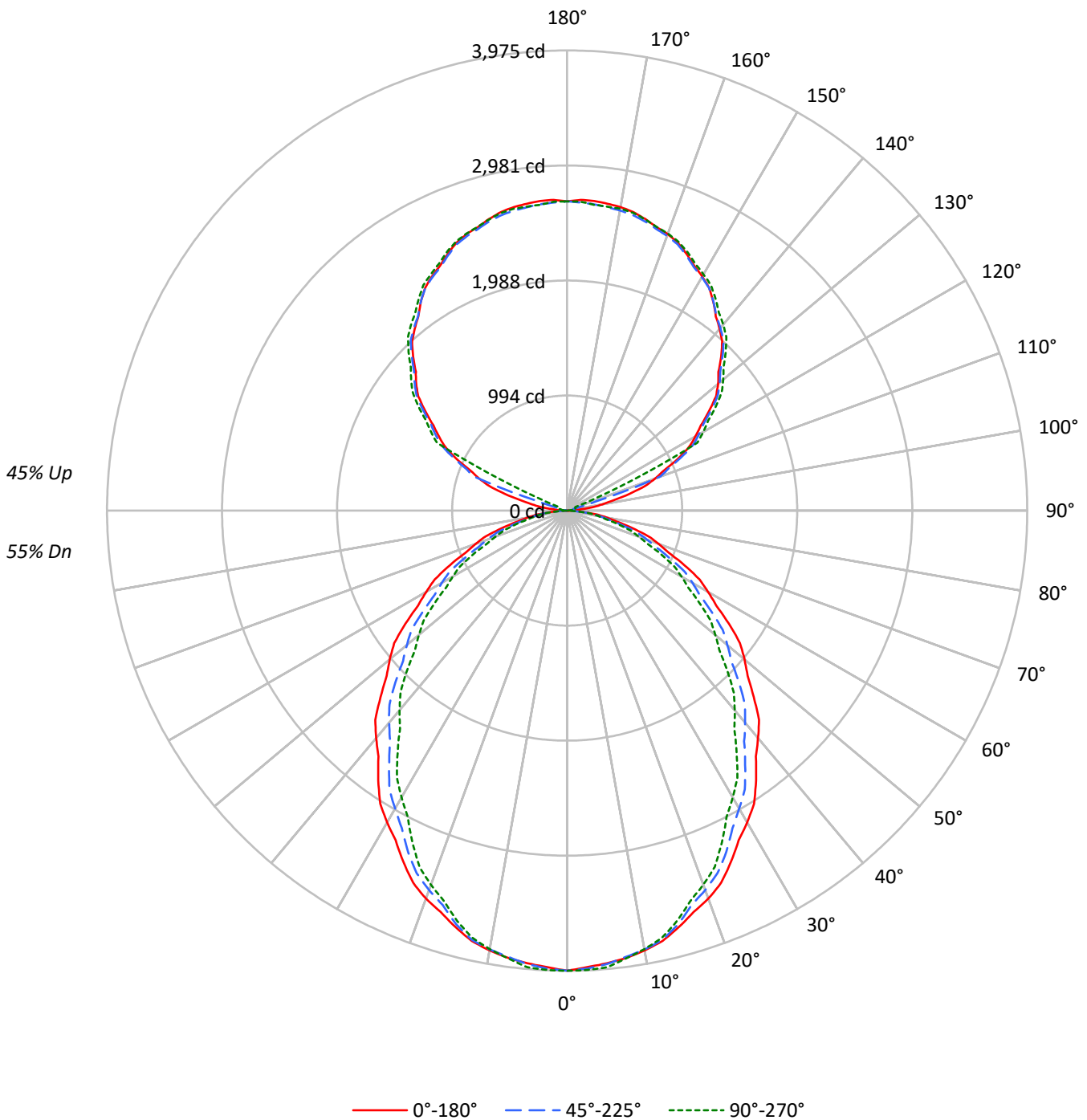
Lumens per Lamp: N/A
Luminaire Lumens: 16884.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 146
Input Voltage (V): 120
Input Current (A_{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										
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	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°	34613	34613	34613
5°	34320	34373	34613
10°	34125	34044	34017
15°	33585	33365	33091
20°	33056	32323	31871
25°	32168	31261	30384
30°	31277	29899	28767
35°	30251	28505	27146
40°	29166	27194	25603
45°	28074	25825	24101
50°	27090	24491	22636
55°	25877	23104	21255
60°	24489	21786	19878
65°	23015	20318	18500
70°	21388	18674	16739
75°	19455	16898	15155
80°	17397	14805	13736
85°	13379	12160	10032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28074 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	2.2
10°-20°	1041.9	6.2
20°-30°	1498.1	8.9
30°-40°	1683.8	10.0
40°-50°	1626.6	9.6
50°-60°	1374.3	8.1
60°-70°	987.1	5.8
70°-80°	539.5	3.2
80°-90°	143.4	0.8
90°-100°	46.5	0.3
100°-110°	296.3	1.8
110°-120°	941.3	5.6
120°-130°	1365.9	8.1
130°-140°	1469.0	8.7
140°-150°	1383.1	8.2
150°-160°	1126.8	6.7
160°-170°	733.4	4.3
170°-180°	253.5	1.5
0°-30°	2913.7	17.3
0°-40°	4597.5	27.2
0°-60°	7598.4	45.0
0°-90°	9268.5	54.9
90°-120°	1284.1	7.6
90°-150°	5502.2	32.6
90°-180°	7616.0	45.1
0°-180°	16884.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3975	3975	3975	3975	3975	
5°	3926	3980	3932	3933	3959	373
15°	3725	3758	3701	3664	3670	1050
25°	3348	3351	3253	3180	3162	1541
35°	2846	2813	2681	2577	2553	1778
45°	2280	2232	2097	1987	1957	1761
55°	1704	1642	1522	1427	1400	1524
65°	1117	1075	986	916	898	1108
75°	578	542	502	462	450	619
85°	134	125	122	106	100	159
90°	0	0	0	2	2	9
95°	106	31	33	21	19	135
105°	556	577	58	68	72	586
115°	1052	1075	1085	1098	630	1035
125°	1495	1521	1522	1547	1568	1336
135°	1881	1904	1900	1912	1937	1451
145°	2202	2219	2204	2206	2234	1376
155°	2445	2460	2433	2428	2462	1127
165°	2607	2615	2588	2577	2603	736
175°	2684	2690	2656	2638	2652	255
180°	2671	2671	2671	2671	2671	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3974.6	3974.6	3974.6	3974.6	3974.6
2.5°	3947.8	3995.4	3960.0	3965.0	3972.2
5°	3925.9	3979.5	3932.0	3932.6	3959.4
7.5°	3897.9	3948.5	3888.8	3877.8	3902.8
10°	3859.0	3909.5	3849.8	3828.9	3846.8
12.5°	3807.8	3856.0	3798.7	3765.6	3781.1
15°	3725.1	3757.8	3700.7	3664.3	3670.3
17.5°	3635.0	3655.2	3572.9	3542.3	3536.4
20°	3566.8	3584.7	3487.7	3444.9	3439.0
22.5°	3479.2	3494.6	3392.7	3340.2	3331.9
25°	3347.7	3350.7	3253.3	3179.9	3162.0
27.5°	3210.1	3200.6	3092.6	3005.7	2982.5
30°	3110.3	3098.4	2973.3	2881.6	2860.7
32.5°	3003.2	2981.7	2856.5	2757.4	2736.6
35°	2845.5	2812.8	2681.2	2577.2	2553.4
37.5°	2677.5	2640.6	2511.4	2398.2	2371.4
40°	2565.5	2523.9	2392.1	2278.9	2252.1
42.5°	2453.5	2407.1	2272.8	2159.5	2130.3
45°	2279.5	2231.9	2096.9	1986.6	1956.9
47.5°	2113.9	2053.2	1922.2	1812.5	1782.8
50°	1999.5	1934.0	1807.7	1700.6	1670.8
52.5°	1882.6	1814.8	1693.3	1591.0	1561.2
55°	1704.3	1641.8	1521.7	1426.7	1399.9
57.5°	1527.8	1467.6	1357.9	1267.3	1241.1
60°	1406.0	1355.4	1250.8	1165.1	1141.3
62.5°	1289.2	1243.3	1143.7	1065.2	1041.4
65°	1116.9	1075.2	986.0	915.6	897.8
67.5°	949.5	907.9	835.7	772.5	752.3
70°	840.0	798.3	733.4	675.2	657.4
72.5°	735.3	691.2	638.5	585.2	572.1
75°	578.2	542.5	502.2	462.3	450.4
77.5°	439.5	404.9	375.5	347.5	344.5
80°	346.9	317.2	295.2	276.9	273.9
82.5°	259.3	236.7	222.2	208.8	208.2
85°	133.9	125.0	121.7	106.4	100.4
87.5°	39.0	39.0	34.1	29.6	29.6
90°	0.0	0.0	0.0	1.9	1.9
92.5°	29.4	11.2	7.7	11.2	11.2
95°	106.2	30.7	32.8	21.2	19.3
97.5°	220.6	49.5	47.5	52.2	54.1
100°	307.1	101.2	52.1	59.9	61.8
102.5°	402.9	381.3	53.7	64.6	68.0
105°	556.2	577.0	57.9	67.7	71.5
107.5°	706.8	727.6	269.6	70.0	73.8
110°	807.3	828.0	853.6	71.5	75.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	901.5	926.8	946.3	159.2	78.4
115°	1052.5	1075.2	1085.4	1097.9	629.6
117.5°	1185.8	1213.8	1225.2	1246.9	1268.1
120°	1278.5	1304.9	1313.3	1335.0	1357.7
122.5°	1369.7	1393.1	1398.2	1423.1	1444.2
125°	1494.8	1521.2	1521.9	1547.4	1568.2
127.5°	1620.0	1642.6	1641.6	1660.7	1683.7
130°	1703.4	1718.5	1718.8	1734.8	1759.4
132.5°	1772.9	1794.1	1794.5	1807.5	1832.0
135°	1881.1	1903.7	1900.4	1912.5	1937.1
137.5°	1982.7	2004.6	1998.5	2008.7	2034.0
140°	2049.1	2068.0	2058.7	2069.0	2097.4
142.5°	2110.9	2129.8	2115.9	2124.7	2154.5
145°	2201.7	2218.7	2203.6	2206.2	2234.5
147.5°	2282.4	2299.0	2280.8	2283.4	2309.8
150°	2334.9	2350.0	2327.2	2329.7	2356.2
152.5°	2381.3	2394.9	2370.5	2370.0	2401.0
155°	2445.0	2460.1	2433.4	2428.4	2462.4
157.5°	2502.9	2516.9	2490.2	2486.5	2513.0
160°	2541.6	2551.0	2524.2	2519.0	2545.4
162.5°	2567.8	2578.8	2552.0	2543.7	2570.1
165°	2607.2	2614.8	2587.9	2576.9	2603.4
167.5°	2641.2	2649.9	2615.3	2605.6	2633.9
170°	2661.3	2667.0	2632.3	2619.5	2647.8
172.5°	2673.7	2677.8	2643.2	2628.5	2647.8
175°	2684.5	2690.1	2655.5	2638.4	2651.6
177.5°	2686.4	2689.4	2663.2	2648.3	2671.0
180°	2671.0	2671.0	2671.0	2671.0	2671.0



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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	19.76	20.65	20.67	21.58	22.78	18.66	19.55	19.57	20.48	21.69
	3H	21.40	22.21	22.33	23.15	24.37	20.19	20.99	21.12	21.93	23.16
	4H	22.03	22.79	22.98	23.74	24.97	20.76	21.52	21.70	22.47	23.70
	6H	22.44	23.14	23.39	24.09	25.34	21.14	21.83	22.09	22.79	24.03
	8H	22.59	23.25	23.55	24.22	25.47	21.28	21.94	22.24	22.91	24.16
	12H	22.66	23.30	23.63	24.26	25.53	21.34	21.97	22.31	22.94	24.21
4H	2H	20.17	20.93	21.12	21.87	23.11	19.30	20.05	20.24	21.00	22.23
	3H	22.04	22.67	23.00	23.65	24.90	21.03	21.67	21.99	22.64	23.89
	4H	22.79	23.37	23.76	24.34	25.61	21.71	22.28	22.68	23.26	24.53
	6H	23.31	23.81	24.29	24.80	26.07	22.19	22.68	23.17	23.68	24.95
	8H	23.52	23.98	24.50	24.97	26.25	22.38	22.84	23.36	23.83	25.11
	12H	23.62	24.04	24.63	25.05	26.34	22.47	22.88	23.47	23.89	25.18
8H	4H	22.95	23.41	23.93	24.40	25.69	21.98	22.45	22.97	23.44	24.72
	6H	23.59	23.97	24.60	25.01	26.29	22.59	22.97	23.60	24.00	25.29
	8H	23.88	24.22	24.90	25.24	26.54	22.87	23.20	23.88	24.22	25.52
	12H	24.06	24.36	25.08	25.37	26.72	23.02	23.31	24.04	24.33	25.67
12H	4H	22.93	23.35	23.93	24.35	25.64	21.99	22.41	22.99	23.41	24.70
	6H	23.62	23.96	24.64	24.98	26.28	22.65	22.99	23.67	24.01	25.31
	8H	23.94	24.24	24.96	25.25	26.60	22.96	23.26	23.98	24.27	25.62