

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: P1438752

Luminaire Tested: CB2-085U-120D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438752
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

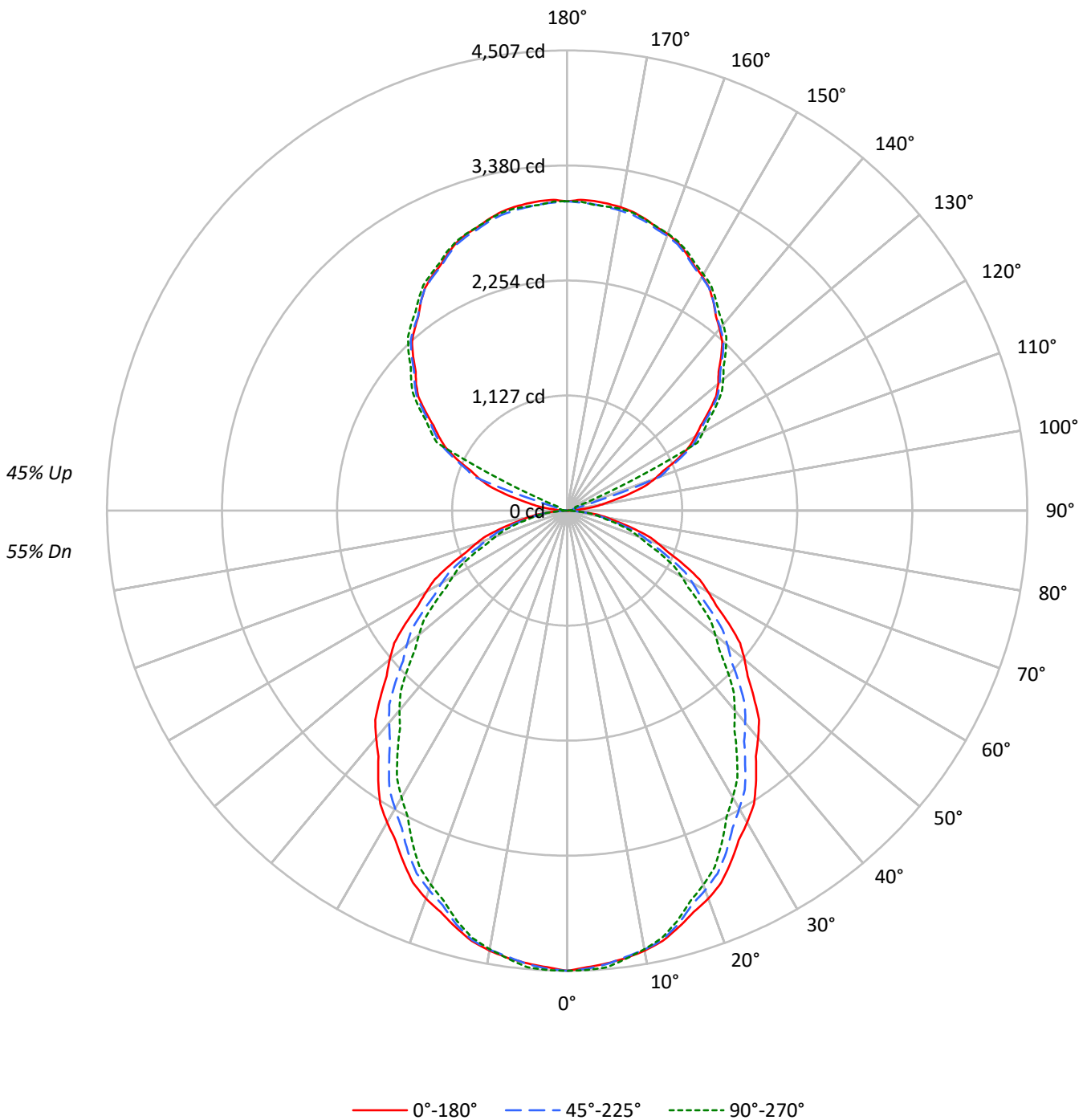
Lumens per Lamp: N/A
Luminaire Lumens: 19147.3 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

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

TEST NUMBER: P1438752

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P1438752

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	39253	39253	39253
5°	38920	38980	39251
10°	38699	38607	38577
15°	38086	37837	37526
20°	37485	36654	36143
25°	36479	35451	34456
30°	35469	33907	32623
35°	34306	32325	30784
40°	33075	30839	29034
45°	31837	29286	27330
50°	30721	27774	25670
55°	29344	26200	24105
60°	27772	24706	22542
65°	26100	23042	20979
70°	24253	21177	18982
75°	22063	19162	17187
80°	19729	16791	15577
85°	15178	13789	11381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31837 cd/sqm



TEST NUMBER: P1438752

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	2.2
10°-20°	1181.5	6.2
20°-30°	1698.9	8.9
30°-40°	1909.5	10.0
40°-50°	1844.6	9.6
50°-60°	1558.5	8.1
60°-70°	1119.4	5.8
70°-80°	611.8	3.2
80°-90°	162.7	0.8
90°-100°	52.8	0.3
100°-110°	336.0	1.8
110°-120°	1067.4	5.6
120°-130°	1549.0	8.1
130°-140°	1665.9	8.7
140°-150°	1568.5	8.2
150°-160°	1277.8	6.7
160°-170°	831.7	4.3
170°-180°	287.5	1.5
0°-30°	3304.2	17.3
0°-40°	5213.7	27.2
0°-60°	8616.8	45.0
0°-90°	10510.7	54.9
90°-120°	1456.2	7.6
90°-150°	6239.6	32.6
90°-180°	8637.0	45.1
0°-180°	19147.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4507	4507	4507	4507	4507	
5°	4452	4513	4459	4460	4490	423
15°	4224	4261	4197	4155	4162	1191
25°	3796	3800	3689	3606	3586	1748
35°	3227	3190	3040	2923	2896	2016
45°	2585	2531	2378	2253	2219	1997
55°	1933	1862	1726	1618	1588	1728
65°	1267	1219	1118	1038	1018	1256
75°	656	615	570	524	511	701
85°	152	142	138	121	114	181
90°	0	0	0	2	2	11
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	

TEST NUMBER: P1438752

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4507.3	4507.3	4507.3	4507.3	4507.3
2.5°	4476.9	4530.9	4490.7	4496.4	4504.5
5°	4452.1	4512.8	4459.0	4459.7	4490.0
7.5°	4420.3	4477.7	4410.0	4397.5	4425.9
10°	4376.2	4433.5	4365.8	4342.1	4362.4
12.5°	4318.2	4372.8	4307.8	4270.3	4287.8
15°	4224.3	4261.4	4196.7	4155.4	4162.2
17.5°	4122.1	4145.1	4051.7	4017.1	4010.3
20°	4044.8	4065.1	3955.1	3906.6	3899.9
22.5°	3945.4	3963.0	3847.4	3787.9	3778.4
25°	3796.4	3799.7	3689.4	3606.1	3585.8
27.5°	3640.4	3629.6	3507.1	3408.5	3382.2
30°	3527.2	3513.7	3371.8	3267.8	3244.2
32.5°	3405.7	3381.4	3239.3	3127.0	3103.3
35°	3226.9	3189.8	3040.5	2922.6	2895.6
37.5°	3036.4	2994.5	2848.0	2719.6	2689.2
40°	2909.4	2862.1	2712.7	2584.3	2553.9
42.5°	2782.4	2729.7	2577.4	2448.9	2415.9
45°	2585.0	2531.0	2377.9	2252.9	2219.1
47.5°	2397.2	2328.4	2179.8	2055.5	2021.7
50°	2267.5	2193.2	2050.0	1928.5	1894.7
52.5°	2134.9	2058.0	1920.3	1804.2	1770.5
55°	1932.7	1861.8	1725.6	1617.9	1587.6
57.5°	1732.5	1664.4	1539.9	1437.1	1407.4
60°	1594.5	1537.1	1418.5	1321.2	1294.2
62.5°	1461.9	1410.0	1297.0	1208.0	1181.0
65°	1266.6	1219.4	1118.2	1038.4	1018.1
67.5°	1076.8	1029.5	947.7	876.1	853.1
70°	952.5	905.3	831.7	765.7	745.5
72.5°	833.8	783.9	724.1	663.7	648.8
75°	655.7	615.2	569.5	524.3	510.8
77.5°	498.4	459.2	425.9	394.1	390.7
80°	393.4	359.7	334.8	314.0	310.6
82.5°	294.0	268.4	251.9	236.7	236.1
85°	151.9	141.7	138.0	120.6	113.9
87.5°	44.2	44.2	38.7	33.6	33.6
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



TEST NUMBER: P1438752

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-8

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



TEST NUMBER: P1438752

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-8

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	20.19	21.09	21.11	22.02	23.22	19.09	19.99	20.01	20.92	22.12
	3H	21.84	22.64	22.77	23.59	24.81	20.62	21.43	21.55	22.37	23.59
	4H	22.47	23.23	23.41	24.18	25.41	21.20	21.96	22.14	22.90	24.14
	6H	22.88	23.57	23.83	24.53	25.77	21.57	22.27	22.53	23.22	24.47
	8H	23.02	23.69	23.99	24.66	25.90	21.71	22.38	22.67	23.35	24.59
	12H	23.10	23.73	24.07	24.70	25.97	21.78	22.41	22.74	23.37	24.64
4H	2H	20.61	21.36	21.56	22.31	23.55	19.73	20.49	20.68	21.44	22.67
	3H	22.48	23.11	23.44	24.09	25.34	21.47	22.10	22.43	23.08	24.33
	4H	23.23	23.80	24.19	24.77	26.05	22.15	22.72	23.11	23.69	24.97
	6H	23.75	24.24	24.73	25.24	26.51	22.62	23.12	23.60	24.11	25.39
	8H	23.95	24.42	24.94	25.41	26.69	22.81	23.28	23.80	24.27	25.55
	12H	24.06	24.48	25.06	25.48	26.78	22.90	23.32	23.90	24.33	25.62
8H	4H	23.39	23.85	24.37	24.84	26.12	22.42	22.89	23.40	23.87	25.16
	6H	24.03	24.41	25.04	25.44	26.73	23.03	23.41	24.03	24.44	25.73
	8H	24.32	24.66	25.34	25.68	26.98	23.30	23.64	24.32	24.66	25.96
	12H	24.50	24.79	25.51	25.80	27.15	23.45	23.75	24.47	24.76	26.11
12H	4H	23.37	23.79	24.37	24.79	26.08	22.43	22.85	23.43	23.85	25.14
	6H	24.06	24.40	25.07	25.41	26.72	23.09	23.43	24.11	24.45	25.75
	8H	24.38	24.67	25.40	25.69	27.03	23.40	23.70	24.42	24.71	26.06