

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: P1438711

Luminaire Tested: CB2-085U-055D-830-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438711
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-055D-830-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

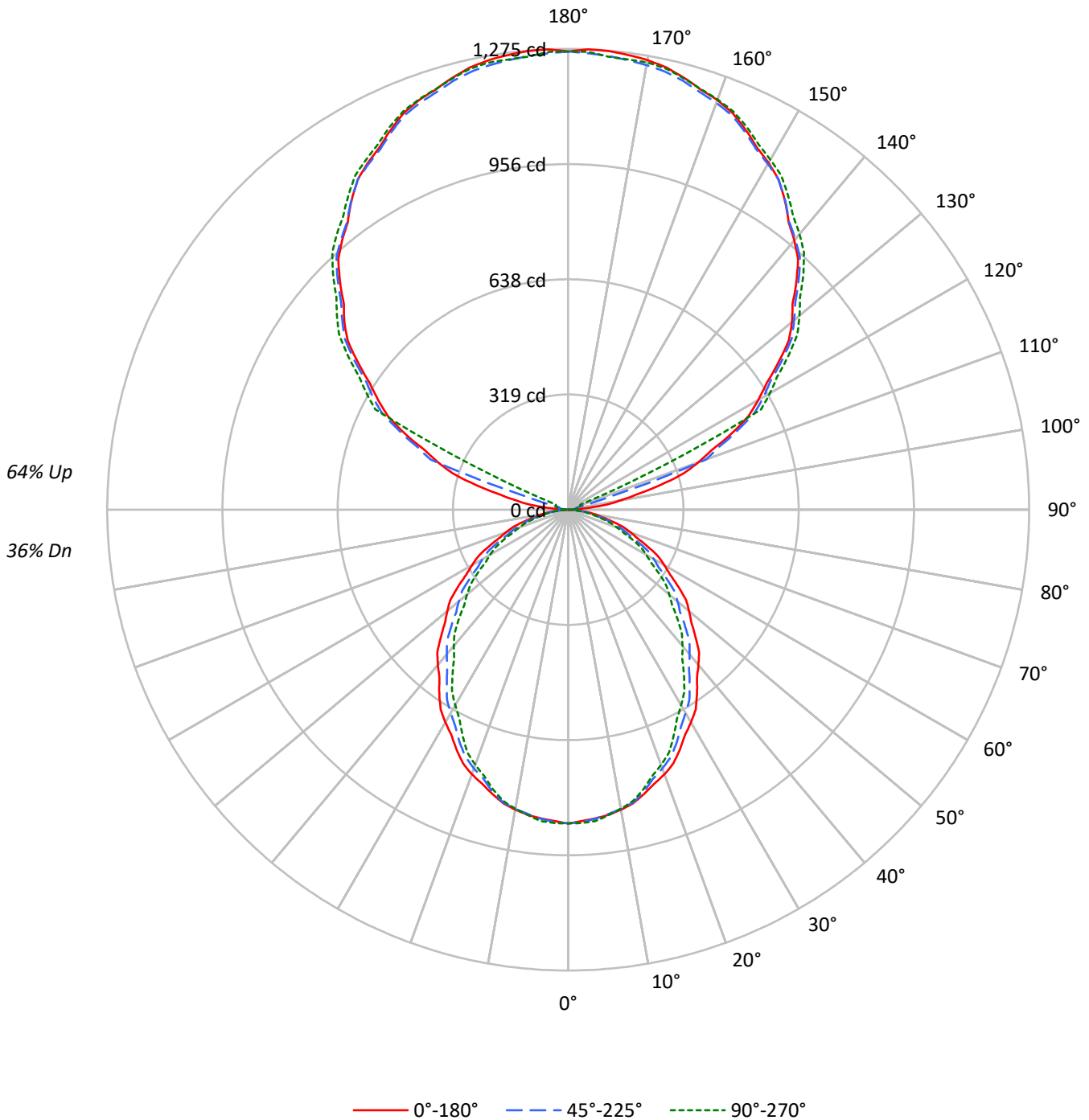
Lumens per Lamp: N/A
Luminaire Lumens: 5638.9 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 43
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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	37	37	30
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31	26
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15120	15120	15120
5°	14992	15015	15120
10°	14908	14872	14860
15°	14671	14575	14454
20°	14439	14120	13922
25°	14052	13656	13272
30°	13662	13061	12566
35°	13215	12451	11858
40°	12742	11880	11184
45°	12264	11281	10528
50°	11833	10698	9888
55°	11302	10094	9286
60°	10698	9517	8684
65°	10056	8877	8082
70°	9345	8158	7313
75°	8499	7382	6622
80°	7603	6470	5998
85°	5835	5316	4377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.4
10°-20°	227.6	4.0
20°-30°	327.2	5.8
30°-40°	367.8	6.5
40°-50°	355.3	6.3
50°-60°	300.2	5.3
60°-70°	215.6	3.8
70°-80°	117.8	2.1
80°-90°	31.4	0.6
90°-100°	22.1	0.4
100°-110°	140.6	2.5
110°-120°	446.7	7.9
120°-130°	648.3	11.5
130°-140°	697.2	12.4
140°-150°	656.4	11.6
150°-160°	534.8	9.5
160°-170°	348.1	6.2
170°-180°	120.3	2.1
0°-30°	636.4	11.3
0°-40°	1004.2	17.8
0°-60°	1659.6	29.4
0°-90°	2024.5	35.9
90°-120°	609.4	10.8
90°-150°	2611.3	46.3
90°-180°	3614.0	64.1
0°-180°	5638.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	858	869	859	859	865	81
15°	814	821	808	800	802	229
25°	731	732	711	694	691	337
35°	622	614	586	563	558	388
45°	498	488	458	434	427	385
55°	372	359	332	312	306	333
65°	244	235	215	200	196	242
75°	126	118	110	101	98	135
85°	29	27	27	23	22	35
90°	0	0	0	1	1	3
95°	50	15	16	10	9	64
105°	264	274	28	32	34	278
115°	500	510	515	521	299	491
125°	709	722	722	734	744	634
135°	893	904	902	908	919	688
145°	1045	1053	1046	1047	1060	653
155°	1160	1168	1155	1152	1169	535
165°	1237	1241	1228	1223	1236	349
175°	1274	1277	1260	1252	1258	121
180°	1268	1268	1268	1268	1268	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.1	868.1	868.1	868.1	868.1
2.5°	862.3	872.7	864.9	866.0	867.6
5°	857.5	869.2	858.8	858.9	864.8
7.5°	851.4	862.4	849.4	847.0	852.4
10°	842.9	853.9	840.9	836.3	840.2
12.5°	831.7	842.2	829.7	822.5	825.8
15°	813.6	820.8	808.3	800.3	801.6
17.5°	793.9	798.4	780.4	773.7	772.4
20°	779.0	782.9	761.8	752.4	751.1
22.5°	759.9	763.3	741.0	729.6	727.7
25°	731.2	731.8	710.6	694.5	690.6
27.5°	701.1	699.1	675.5	656.5	651.4
30°	679.3	676.7	649.4	629.4	624.8
32.5°	655.9	651.3	623.9	602.3	597.7
35°	621.5	614.4	585.6	562.9	557.7
37.5°	584.8	576.8	548.5	523.8	517.9
40°	560.4	551.3	522.5	497.7	491.9
42.5°	535.9	525.8	496.4	471.7	465.3
45°	497.9	487.5	458.0	433.9	427.4
47.5°	461.7	448.5	419.8	395.9	389.4
50°	436.7	422.4	394.8	371.4	364.9
52.5°	411.2	396.4	369.8	347.5	341.0
55°	372.2	358.6	332.4	311.6	305.8
57.5°	333.7	320.6	296.6	276.8	271.1
60°	307.1	296.0	273.2	254.5	249.3
62.5°	281.6	271.6	249.8	232.7	227.5
65°	244.0	234.9	215.4	200.0	196.1
67.5°	207.4	198.3	182.5	168.7	164.3
70°	183.5	174.4	160.2	147.5	143.6
72.5°	160.6	151.0	139.5	127.8	125.0
75°	126.3	118.5	109.7	101.0	98.4
77.5°	96.0	88.4	82.0	75.9	75.2
80°	75.8	69.3	64.5	60.5	59.8
82.5°	56.6	51.7	48.5	45.6	45.5
85°	29.2	27.3	26.6	23.2	21.9
87.5°	8.5	8.5	7.4	6.6	6.6
90°	0.0	0.0	0.0	0.9	0.9
92.5°	13.9	5.3	3.7	5.3	5.3
95°	50.4	14.6	15.6	10.1	9.2
97.5°	104.7	23.5	22.5	24.8	25.7
100°	145.7	48.0	24.7	28.4	29.3
102.5°	191.2	181.0	25.5	30.7	32.3
105°	264.0	273.8	27.5	32.1	33.9
107.5°	335.5	345.3	128.0	33.2	35.0
110°	383.1	393.0	405.1	34.0	35.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	427.9	439.9	449.1	75.6	37.2
115°	499.5	510.3	515.1	521.1	298.8
117.5°	562.8	576.0	581.5	591.8	601.8
120°	606.8	619.3	623.3	633.6	644.3
122.5°	650.0	661.1	663.6	675.4	685.4
125°	709.4	722.0	722.3	734.4	744.3
127.5°	768.8	779.6	779.1	788.1	799.1
130°	808.4	815.6	815.7	823.3	835.0
132.5°	841.4	851.4	851.7	857.8	869.5
135°	892.7	903.5	901.9	907.7	919.3
137.5°	941.0	951.3	948.5	953.3	965.3
140°	972.5	981.4	977.1	982.0	995.4
142.5°	1001.8	1010.8	1004.2	1008.4	1022.5
145°	1044.9	1053.0	1045.8	1047.0	1060.5
147.5°	1083.2	1091.1	1082.5	1083.7	1096.2
150°	1108.1	1115.3	1104.5	1105.7	1118.2
152.5°	1130.1	1136.6	1125.0	1124.8	1139.5
155°	1160.4	1167.5	1154.9	1152.5	1168.6
157.5°	1187.9	1194.5	1181.8	1180.1	1192.6
160°	1206.2	1210.7	1198.0	1195.5	1208.0
162.5°	1218.7	1223.9	1211.2	1207.2	1219.8
165°	1237.4	1241.0	1228.2	1223.0	1235.5
167.5°	1253.5	1257.6	1241.2	1236.6	1250.0
170°	1263.0	1265.7	1249.3	1243.2	1256.6
172.5°	1268.9	1270.9	1254.4	1247.5	1256.6
175°	1274.0	1276.7	1260.3	1252.2	1258.5
177.5°	1274.9	1276.4	1263.9	1256.9	1267.6
180°	1267.6	1267.6	1267.6	1267.6	1267.6



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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	14.97	15.71	16.04	16.78	18.24	13.87	14.61	14.94	15.68	17.14
	3H	16.61	17.27	17.69	18.35	19.83	15.39	16.05	16.47	17.13	18.61
	4H	17.23	17.86	18.32	18.94	20.42	15.96	16.58	17.05	17.67	19.15
	6H	17.62	18.20	18.72	19.29	20.78	16.32	16.90	17.42	17.98	19.48
	8H	17.77	18.32	18.87	19.42	20.91	16.46	17.01	17.56	18.11	19.60
	12H	17.84	18.36	18.95	19.46	20.97	16.52	17.04	17.62	18.13	19.65
4H	2H	15.36	15.99	16.46	17.07	18.56	14.49	15.12	15.59	16.20	17.68
	3H	17.22	17.75	18.33	18.85	20.35	16.21	16.74	17.32	17.84	19.34
	4H	17.96	18.44	19.07	19.54	21.06	16.88	17.36	17.99	18.46	19.98
	6H	18.48	18.89	19.59	20.01	21.52	17.35	17.76	18.47	18.88	20.39
	8H	18.68	19.06	19.79	20.18	21.70	17.54	17.92	18.65	19.04	20.56
	12H	18.78	19.13	19.91	20.25	21.78	17.62	17.97	18.75	19.09	20.62
8H	4H	18.11	18.49	19.23	19.61	21.13	17.15	17.53	18.26	18.64	20.17
	6H	18.75	19.06	19.88	20.22	21.74	17.74	18.06	18.88	19.22	20.74
	8H	19.04	19.31	20.18	20.45	21.99	18.02	18.30	19.16	19.43	20.98
	12H	19.20	19.45	20.35	20.58	22.16	18.16	18.41	19.31	19.54	21.12
12H	4H	18.08	18.43	19.22	19.56	21.09	17.14	17.49	18.28	18.62	20.15
	6H	18.77	19.05	19.92	20.19	21.73	17.81	18.08	18.95	19.22	20.76
	8H	19.09	19.33	20.23	20.46	22.04	18.11	18.35	19.26	19.48	21.06