

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: P1438919

Luminaire Tested: CB2-B-085U-030D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438919
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-1, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-B-085U-030D-940-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

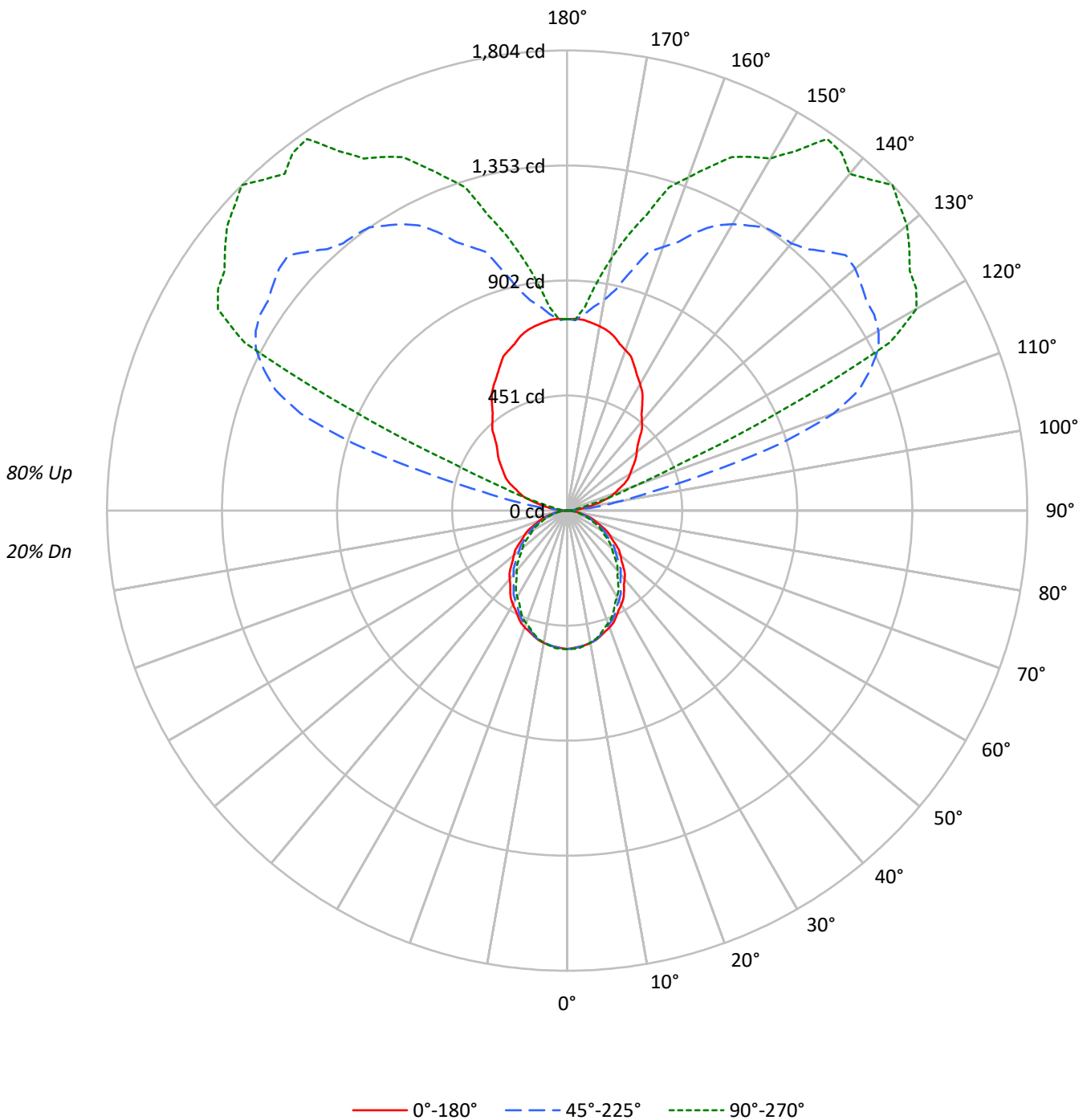
Lumens per Lamp: N/A
Luminaire Lumens: 6194.7 lumens
Efficiency: N/A
Efficacy: 181.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	20																				
1	91	87	83	80	81	77	74	71	59	57	55	41	40	39	26	25	25	17																				
2	83	76	70	65	73	68	63	59	51	48	45	36	34	33	23	22	21	15																				
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	13																				
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	11																				
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	9																				
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	8																				
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	7																				
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	7																				
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8	6																				
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9456	9456	9456
5°	9377	9391	9455
10°	9322	9301	9294
15°	9175	9115	9039
20°	9030	8830	8708
25°	8788	8540	8300
30°	8546	8169	7860
35°	8265	7786	7416
40°	7967	7428	6994
45°	7670	7055	6584
50°	7400	6690	6183
55°	7069	6313	5806
60°	6692	5953	5431
65°	6289	5551	5053
70°	5841	5103	4573
75°	5316	4616	4139
80°	4754	4042	3751
85°	3657	3317	2738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	0.8
10°-20°	142.3	2.3
20°-30°	204.6	3.3
30°-40°	230.0	3.7
40°-50°	222.2	3.6
50°-60°	187.7	3.0
60°-70°	134.8	2.2
70°-80°	73.7	1.2
80°-90°	19.6	0.3
90°-100°	56.2	0.9
100°-110°	348.0	5.6
110°-120°	877.7	14.2
120°-130°	1055.1	17.0
130°-140°	956.6	15.4
140°-150°	762.8	12.3
150°-160°	520.4	8.4
160°-170°	275.2	4.4
170°-180°	76.6	1.2
0°-30°	398.0	6.4
0°-40°	628.0	10.1
0°-60°	1037.9	16.8
0°-90°	1266.0	20.4
90°-120°	1282.0	20.7
90°-150°	4056.5	65.5
90°-180°	4929.0	79.6
0°-180°	6194.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	536	544	537	537	541	51
15°	509	513	506	500	501	143
25°	457	458	444	434	432	211
35°	389	384	366	352	349	243
45°	311	305	286	271	267	241
55°	233	224	208	195	191	208
65°	153	147	135	125	123	151
75°	79	74	69	63	62	84
85°	18	17	17	14	14	22
90°	0	0	0	0	0	2
95°	29	73	23	16	16	37
105°	142	398	576	144	97	149
115°	246	543	1313	1222	931	241
125°	320	658	1432	1630	1639	287
135°	401	730	1436	1681	1804	312
145°	514	767	1355	1633	1778	321
155°	624	782	1206	1453	1529	287
165°	708	774	973	1146	1200	199
175°	750	760	773	786	802	71
180°	750	750	750	750	750	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.9	542.9	542.9	542.9	542.9
2.5°	539.3	545.8	540.9	541.6	542.6
5°	536.3	543.6	537.1	537.2	540.8
7.5°	532.4	539.4	531.2	529.7	533.1
10°	527.1	534.0	525.9	523.0	525.5
12.5°	520.1	526.7	518.9	514.4	516.5
15°	508.8	513.3	505.5	500.5	501.3
17.5°	496.5	499.3	488.0	483.9	483.1
20°	487.2	489.7	476.4	470.6	469.8
22.5°	475.2	477.4	463.4	456.3	455.1
25°	457.3	457.7	444.4	434.4	431.9
27.5°	438.5	437.2	422.4	410.6	407.4
30°	424.9	423.2	406.2	393.6	390.8
32.5°	410.2	407.3	390.2	376.7	373.8
35°	388.7	384.2	366.2	352.0	348.8
37.5°	365.7	360.7	343.0	327.6	323.9
40°	350.4	344.8	326.7	311.3	307.6
42.5°	335.1	328.8	310.5	295.0	291.0
45°	311.4	304.9	286.4	271.4	267.3
47.5°	288.8	280.5	262.6	247.6	243.5
50°	273.1	264.2	246.9	232.3	228.2
52.5°	257.2	247.9	231.3	217.3	213.3
55°	232.8	224.3	207.9	194.9	191.2
57.5°	208.7	200.5	185.5	173.1	169.5
60°	192.1	185.1	170.9	159.1	155.9
62.5°	176.1	169.8	156.2	145.5	142.3
65°	152.6	146.9	134.7	125.1	122.6
67.5°	129.7	124.0	114.2	105.5	102.8
70°	114.7	109.0	100.2	92.2	89.8
72.5°	100.4	94.4	87.2	79.9	78.2
75°	79.0	74.1	68.6	63.2	61.5
77.5°	60.0	55.3	51.3	47.5	47.1
80°	47.4	43.3	40.3	37.8	37.4
82.5°	35.4	32.3	30.3	28.5	28.4
85°	18.3	17.1	16.6	14.5	13.7
87.5°	5.3	5.3	4.7	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	12.8	5.2	5.2	5.2
95°	29.1	73.4	22.6	16.2	16.2
97.5°	60.8	175.9	122.2	32.9	28.5
100°	84.1	254.8	210.2	48.3	38.8
102.5°	107.3	323.6	331.7	76.6	59.5
105°	142.3	398.3	575.5	144.4	97.0
107.5°	176.5	447.1	882.0	298.0	179.8
110°	197.2	475.4	1112.2	464.6	278.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.9	503.7	1238.9	744.7	479.8
115°	245.7	542.9	1312.6	1222.0	931.1
117.5°	269.0	578.8	1376.0	1511.2	1425.8
120°	284.5	607.0	1409.6	1552.5	1581.0
122.5°	300.0	627.5	1427.7	1568.6	1622.4
125°	320.1	658.3	1432.3	1629.7	1639.2
127.5°	340.1	681.5	1453.6	1685.8	1690.3
130°	355.6	697.1	1474.3	1704.6	1739.4
132.5°	373.7	710.1	1482.1	1715.4	1767.9
135°	400.9	729.7	1435.5	1680.8	1804.1
137.5°	435.2	743.7	1390.9	1679.8	1759.5
140°	455.9	746.7	1367.6	1716.9	1723.3
142.5°	479.1	754.8	1362.4	1712.8	1767.2
145°	514.1	767.0	1354.7	1632.8	1778.2
147.5°	549.0	774.7	1324.9	1544.4	1671.5
150°	572.3	777.7	1296.5	1514.9	1593.9
152.5°	595.5	780.8	1260.3	1496.5	1562.9
155°	624.0	782.1	1206.0	1453.4	1529.3
157.5°	653.7	778.3	1140.6	1374.7	1457.5
160°	669.3	773.6	1099.3	1317.5	1390.2
162.5°	684.8	771.4	1063.0	1242.8	1328.2
165°	708.1	774.4	973.2	1145.7	1199.5
167.5°	723.6	771.6	889.1	1030.5	1106.4
170°	733.9	771.9	837.4	942.3	1005.5
172.5°	741.7	759.4	806.3	861.6	904.6
175°	750.1	759.6	772.7	786.0	801.8
177.5°	752.7	757.7	747.5	745.0	750.1
180°	750.1	750.1	750.1	750.1	750.1



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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	11.06	11.71	12.24	12.86	14.50	9.96	10.60	11.14	11.76	13.40
	3H	12.69	13.26	13.87	14.43	16.09	11.47	12.05	12.66	13.21	14.87
	4H	13.31	13.86	14.50	15.02	16.68	12.04	12.58	13.23	13.75	15.41
	6H	13.70	14.20	14.90	15.37	17.04	12.40	12.90	13.60	14.07	15.74
	8H	13.84	14.32	15.04	15.50	17.16	12.53	13.01	13.73	14.19	15.85
	12H	13.91	14.36	15.11	15.54	17.22	12.59	13.04	13.79	14.22	15.90
4H	2H	11.44	11.99	12.64	13.16	14.82	10.57	11.12	11.77	12.28	13.94
	3H	13.29	13.75	14.50	14.94	16.61	12.28	12.74	13.49	13.93	15.60
	4H	14.03	14.45	15.23	15.63	17.32	12.95	13.37	14.15	14.55	16.24
	6H	14.54	14.90	15.74	16.10	17.77	13.41	13.77	14.62	14.97	16.65
	8H	14.74	15.07	15.94	16.26	17.96	13.60	13.93	14.80	15.12	16.82
	12H	14.83	15.14	16.05	16.34	18.04	13.67	13.98	14.90	15.18	16.88
8H	4H	14.17	14.50	15.38	15.70	17.39	13.21	13.54	14.41	14.73	16.43
	6H	14.80	15.08	16.03	16.31	18.00	13.80	14.08	15.03	15.31	17.00
	8H	15.09	15.33	16.32	16.54	18.25	14.07	14.31	15.30	15.52	17.24
	12H	15.25	15.46	16.49	16.67	18.41	14.21	14.42	15.45	15.63	17.37
12H	4H	14.14	14.44	15.36	15.65	17.34	13.20	13.50	14.42	14.71	16.40
	6H	14.83	15.07	16.06	16.28	17.99	13.86	14.10	15.09	15.31	17.02
	8H	15.14	15.35	16.37	16.55	18.30	14.16	14.37	15.39	15.58	17.32