

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: P1438921

Luminaire Tested: CB2-B-085U-055D-927-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438921
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-055D-927-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

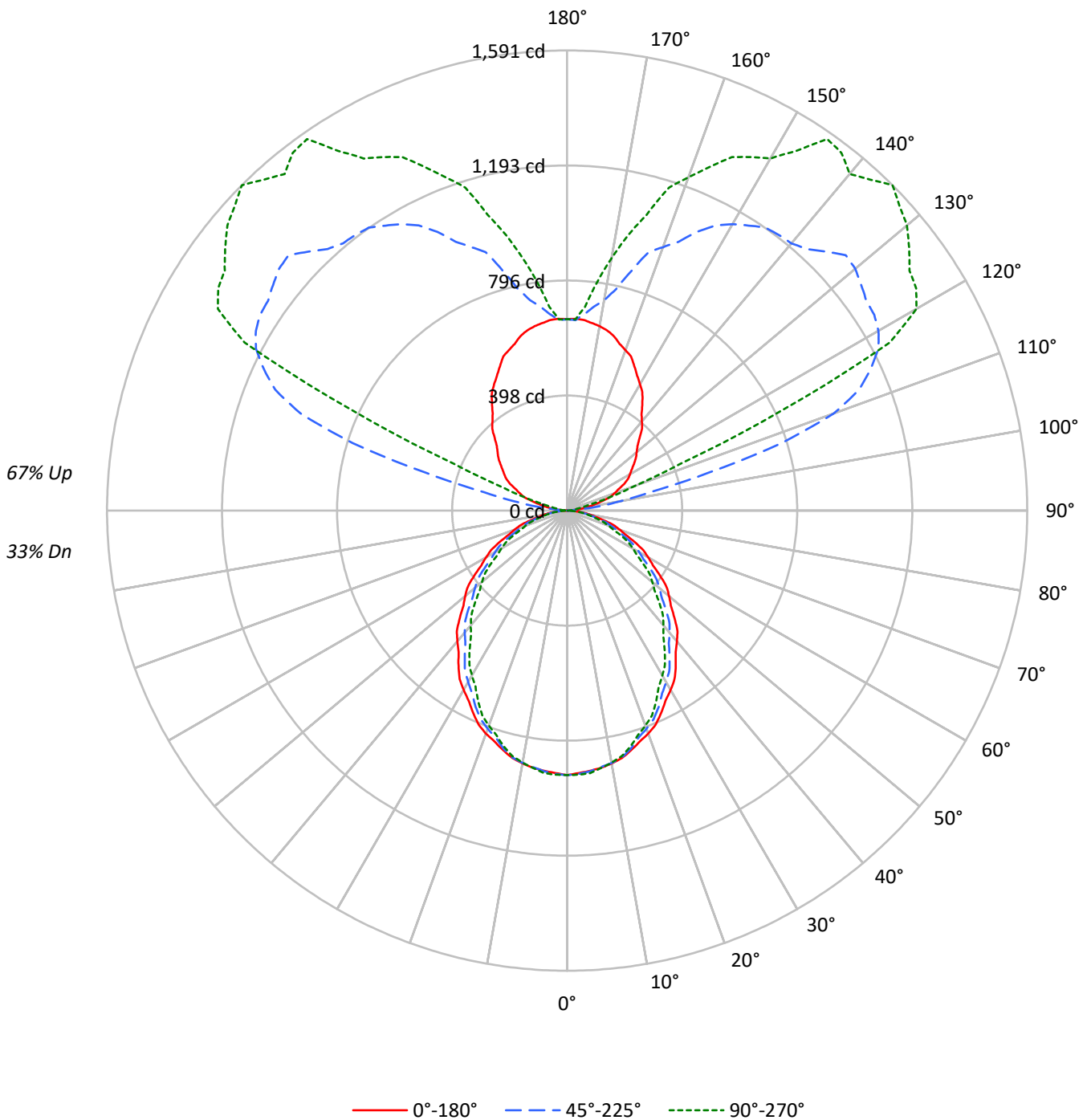
Lumens per Lamp: N/A
Luminaire Lumens: 6478.9 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	39	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	42	39	36	34	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	35	31	29	25	23	22	17
5	66	54	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15930	15930	15930
5°	15795	15819	15930
10°	15705	15668	15656
15°	15457	15356	15230
20°	15214	14874	14667
25°	14804	14387	13983
30°	14394	13761	13240
35°	13923	13119	12494
40°	13424	12514	11782
45°	12919	11885	11092
50°	12467	11272	10419
55°	11910	10634	9781
60°	11269	10025	9148
65°	10592	9351	8515
70°	9844	8596	7705
75°	8957	7779	6972
80°	8004	6811	6319
85°	6155	5596	4616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.3
10°-20°	239.8	3.7
20°-30°	344.7	5.3
30°-40°	387.5	6.0
40°-50°	374.3	5.8
50°-60°	316.2	4.9
60°-70°	227.1	3.5
70°-80°	124.2	1.9
80°-90°	33.0	0.5
90°-100°	49.6	0.8
100°-110°	306.9	4.7
110°-120°	774.0	11.9
120°-130°	930.4	14.4
130°-140°	843.6	13.0
140°-150°	672.7	10.4
150°-160°	458.8	7.1
160°-170°	242.7	3.7
170°-180°	67.5	1.0
0°-30°	670.5	10.3
0°-40°	1057.9	16.3
0°-60°	1748.5	27.0
0°-90°	2132.7	32.9
90°-120°	1130.5	17.4
90°-150°	3577.1	55.2
90°-180°	4346.0	67.1
0°-180°	6478.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	903	916	905	905	911	86
15°	857	865	852	843	845	242
25°	770	771	749	732	728	355
35°	655	647	617	593	588	409
45°	524	514	482	457	450	405
55°	392	378	350	328	322	351
65°	257	247	227	211	207	255
75°	133	125	116	106	104	142
85°	31	29	28	24	23	37
90°	0	0	0	0	0	2
95°	26	65	20	14	14	33
105°	125	351	508	127	86	132
115°	217	479	1158	1078	821	213
125°	282	580	1263	1437	1446	253
135°	354	643	1266	1482	1591	275
145°	453	676	1195	1440	1568	283
155°	550	690	1063	1282	1348	253
165°	624	683	858	1010	1058	175
175°	661	670	681	693	707	63
180°	661	661	661	661	661	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.6	914.6	914.6	914.6	914.6
2.5°	908.4	919.4	911.2	912.4	914.0
5°	903.4	915.7	904.8	904.9	911.1
7.5°	896.9	908.6	894.8	892.3	898.1
10°	888.0	899.6	885.9	881.1	885.2
12.5°	876.2	887.3	874.1	866.5	870.1
15°	857.2	864.7	851.6	843.2	844.6
17.5°	836.4	841.1	822.2	815.1	813.8
20°	820.8	824.9	802.5	792.7	791.3
22.5°	800.6	804.1	780.7	768.6	766.7
25°	770.3	771.0	748.6	731.7	727.6
27.5°	738.7	736.5	711.6	691.6	686.3
30°	715.7	713.0	684.2	663.1	658.3
32.5°	691.1	686.1	657.3	634.5	629.7
35°	654.8	647.3	617.0	593.0	587.6
37.5°	616.1	607.6	577.9	551.8	545.7
40°	590.4	580.8	550.4	524.4	518.2
42.5°	564.6	553.9	523.0	496.9	490.2
45°	524.5	513.6	482.5	457.1	450.3
47.5°	486.4	472.5	442.3	417.1	410.2
50°	460.1	445.0	416.0	391.3	384.5
52.5°	433.2	417.6	389.6	366.1	359.3
55°	392.2	377.8	350.2	328.3	322.1
57.5°	351.6	337.7	312.5	291.6	285.6
60°	323.5	311.9	287.8	268.1	262.6
62.5°	296.6	286.1	263.2	245.1	239.6
65°	257.0	247.4	226.9	210.7	206.6
67.5°	218.5	208.9	192.3	177.8	173.1
70°	193.3	183.7	168.8	155.4	151.3
72.5°	169.2	159.1	146.9	134.7	131.7
75°	133.1	124.8	115.6	106.4	103.6
77.5°	101.1	93.2	86.4	80.0	79.3
80°	79.8	73.0	67.9	63.7	63.0
82.5°	59.7	54.5	51.1	48.0	47.9
85°	30.8	28.8	28.0	24.5	23.1
87.5°	9.0	9.0	7.8	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	6.8	11.3	4.6	4.6	4.6
95°	25.7	64.7	20.0	14.3	14.3
97.5°	53.6	155.1	107.8	29.0	25.1
100°	74.1	224.7	185.3	42.6	34.2
102.5°	94.7	285.3	292.5	67.5	52.5
105°	125.4	351.2	507.5	127.3	85.5
107.5°	155.7	394.3	777.8	262.8	158.5
110°	173.9	419.2	980.7	409.7	245.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	444.2	1092.5	656.7	423.1
115°	216.7	478.7	1157.5	1077.6	821.1
117.5°	237.2	510.4	1213.4	1332.6	1257.3
120°	250.9	535.2	1243.0	1369.1	1394.1
122.5°	264.6	553.4	1259.0	1383.2	1430.6
125°	282.3	580.5	1263.0	1437.1	1445.5
127.5°	299.9	601.0	1281.8	1486.6	1490.5
130°	313.6	614.7	1300.1	1503.2	1533.8
132.5°	329.6	626.2	1306.9	1512.7	1558.9
135°	353.5	643.4	1265.8	1482.1	1590.9
137.5°	383.7	655.8	1226.5	1481.3	1551.5
140°	402.0	658.5	1206.0	1514.0	1519.6
142.5°	422.5	665.6	1201.4	1510.4	1558.4
145°	453.3	676.3	1194.6	1439.8	1568.1
147.5°	484.1	683.1	1168.3	1361.9	1474.0
150°	504.6	685.8	1143.3	1335.9	1405.5
152.5°	525.2	688.5	1111.3	1319.6	1378.2
155°	550.2	689.6	1063.4	1281.6	1348.5
157.5°	576.5	686.3	1005.8	1212.2	1285.2
160°	590.2	682.2	969.3	1161.8	1225.9
162.5°	603.8	680.2	937.4	1095.9	1171.2
165°	624.4	682.9	858.2	1010.3	1057.7
167.5°	638.1	680.4	784.0	908.7	975.6
170°	647.2	680.6	738.4	830.9	886.7
172.5°	654.0	669.6	711.0	759.8	797.7
175°	661.4	669.8	681.4	693.1	707.1
177.5°	663.7	668.2	659.2	657.0	661.4
180°	661.4	661.4	661.4	661.4	661.4



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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	14.78	15.50	15.88	16.59	18.09	13.69	14.40	14.78	15.49	16.99
	3H	16.42	17.06	17.52	18.16	19.68	15.20	15.85	16.30	16.94	18.46
	4H	17.04	17.65	18.15	18.75	20.27	15.77	16.38	16.88	17.48	19.00
	6H	17.44	18.00	18.56	19.10	20.63	16.13	16.70	17.25	17.80	19.33
	8H	17.58	18.12	18.70	19.23	20.76	16.27	16.80	17.39	17.92	19.45
	12H	17.65	18.16	18.78	19.27	20.82	16.33	16.83	17.46	17.95	19.49
4H	2H	15.18	15.79	16.30	16.89	18.41	14.30	14.91	15.42	16.01	17.53
	3H	17.03	17.54	18.16	18.67	20.20	16.02	16.53	17.15	17.66	19.19
	4H	17.77	18.24	18.90	19.36	20.91	16.69	17.16	17.82	18.28	19.83
	6H	18.28	18.69	19.42	19.82	21.37	17.16	17.56	18.30	18.70	20.24
	8H	18.49	18.86	19.62	19.99	21.55	17.35	17.72	18.48	18.85	20.41
	12H	18.59	18.92	19.74	20.07	21.63	17.43	17.77	18.58	18.91	20.47
8H	4H	17.92	18.29	19.05	19.42	20.98	16.95	17.33	18.09	18.46	20.02
	6H	18.55	18.86	19.71	20.04	21.59	17.55	17.86	18.71	19.03	20.59
	8H	18.84	19.11	20.01	20.27	21.84	17.83	18.10	18.99	19.25	20.83
	12H	19.01	19.25	20.18	20.40	22.01	17.97	18.21	19.14	19.36	20.97
12H	4H	17.89	18.23	19.04	19.37	20.94	16.95	17.29	18.10	18.43	20.00
	6H	18.58	18.85	19.74	20.00	21.58	17.62	17.88	18.78	19.04	20.61
	8H	18.89	19.13	20.06	20.28	21.89	17.91	18.15	19.08	19.30	20.91