

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: P1438927

Luminaire Tested: CB2-B-085U-055D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438927
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

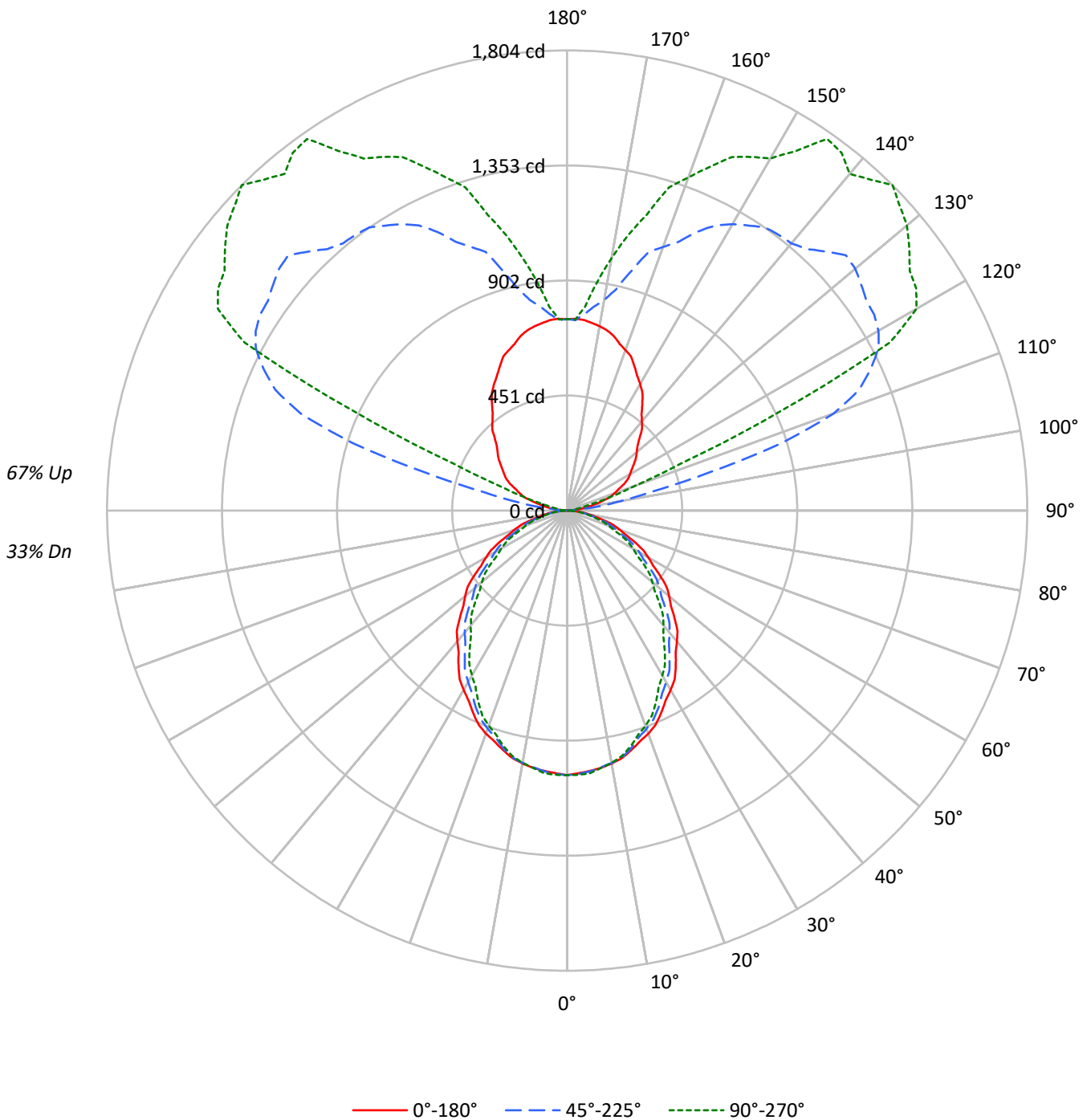
Lumens per Lamp: N/A
Luminaire Lumens: 7347.2 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 43
Input Voltage (V): 120
Input Current (Ain): 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°	18065	18065	18065
5°	17912	17940	18064
10°	17810	17767	17753
15°	17529	17413	17271
20°	17253	16869	16633
25°	16789	16316	15857
30°	16323	15605	15013
35°	15788	14877	14167
40°	15222	14192	13362
45°	14651	13479	12577
50°	14139	12781	11814
55°	13504	12058	11093
60°	12781	11370	10374
65°	12014	10604	9656
70°	11163	9747	8734
75°	10155	8816	7907
80°	9077	7723	7172
85°	6974	6355	5236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.3
10°-20°	271.9	3.7
20°-30°	390.9	5.3
30°-40°	439.4	6.0
40°-50°	424.5	5.8
50°-60°	358.6	4.9
60°-70°	257.6	3.5
70°-80°	140.8	1.9
80°-90°	37.4	0.5
90°-100°	56.2	0.8
100°-110°	348.0	4.7
110°-120°	877.7	11.9
120°-130°	1055.1	14.4
130°-140°	956.6	13.0
140°-150°	762.8	10.4
150°-160°	520.4	7.1
160°-170°	275.2	3.7
170°-180°	76.6	1.0
0°-30°	760.3	10.3
0°-40°	1199.7	16.3
0°-60°	1982.8	27.0
0°-90°	2418.6	32.9
90°-120°	1282.0	17.4
90°-150°	4056.5	55.2
90°-180°	4929.0	67.1
0°-180°	7347.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1024	1038	1026	1026	1033	97
15°	972	981	966	956	958	274
25°	874	874	849	830	825	402
35°	742	734	700	672	666	464
45°	595	582	547	518	511	460
55°	445	428	397	372	365	398
65°	292	281	257	239	234	289
75°	151	142	131	121	118	161
85°	35	33	32	28	26	42
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°	1037.2	1037.2	1037.2	1037.2	1037.2
2.5°	1030.2	1042.6	1033.4	1034.7	1036.5
5°	1024.5	1038.4	1026.1	1026.2	1033.2
7.5°	1017.2	1030.4	1014.8	1011.9	1018.4
10°	1007.0	1020.2	1004.6	999.2	1003.8
12.5°	993.7	1006.2	991.3	982.6	986.7
15°	972.1	980.6	965.7	956.2	957.8
17.5°	948.5	953.8	932.3	924.4	922.8
20°	930.8	935.4	910.1	899.0	897.4
22.5°	907.9	911.9	885.3	871.6	869.4
25°	873.6	874.4	849.0	829.8	825.1
27.5°	837.7	835.2	807.0	784.3	778.3
30°	811.6	808.5	775.9	751.9	746.5
32.5°	783.7	778.1	745.4	719.5	714.1
35°	742.5	734.0	699.7	672.5	666.3
37.5°	698.7	689.1	655.3	625.8	618.8
40°	669.5	658.6	624.2	594.7	587.7
42.5°	640.3	628.1	593.1	563.5	555.9
45°	594.8	582.4	547.2	518.4	510.6
47.5°	551.6	535.8	501.6	473.0	465.2
50°	521.8	504.7	471.7	443.8	436.0
52.5°	491.3	473.6	441.9	415.2	407.4
55°	444.7	428.4	397.1	372.3	365.3
57.5°	398.7	383.0	354.4	330.7	323.9
60°	366.9	353.7	326.4	304.0	297.8
62.5°	336.4	324.4	298.4	278.0	271.8
65°	291.5	280.6	257.3	238.9	234.3
67.5°	247.8	236.9	218.1	201.6	196.3
70°	219.2	208.3	191.4	176.2	171.5
72.5°	191.9	180.4	166.6	152.7	149.3
75°	150.9	141.6	131.0	120.6	117.5
77.5°	114.7	105.7	98.0	90.7	89.9
80°	90.5	82.8	77.0	72.3	71.5
82.5°	67.7	61.8	58.0	54.5	54.3
85°	34.9	32.6	31.8	27.8	26.2
87.5°	10.2	10.2	8.9	7.6	7.6
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	15.22	15.94	16.32	17.03	18.53	14.12	14.84	15.22	15.93	17.43
	3H	16.86	17.50	17.96	18.60	20.11	15.64	16.28	16.74	17.38	18.90
	4H	17.48	18.09	18.59	19.19	20.71	16.21	16.82	17.32	17.92	19.44
	6H	17.87	18.44	18.99	19.54	21.07	16.57	17.13	17.69	18.23	19.77
	8H	18.02	18.55	19.14	19.67	21.20	16.71	17.24	17.83	18.36	19.88
	12H	18.09	18.59	19.22	19.71	21.25	16.76	17.27	17.89	18.38	19.93
4H	2H	15.61	16.22	16.73	17.32	18.84	14.74	15.35	15.86	16.45	17.97
	3H	17.47	17.98	18.60	19.11	20.64	16.46	16.97	17.59	18.10	19.63
	4H	18.21	18.68	19.34	19.79	21.35	17.13	17.60	18.26	18.71	20.26
	6H	18.72	19.12	19.86	20.26	21.81	17.60	18.00	18.73	19.14	20.68
	8H	18.92	19.30	20.06	20.43	21.99	17.78	18.16	18.92	19.29	20.85
	12H	19.02	19.36	20.18	20.50	22.07	17.86	18.20	19.02	19.35	20.91
8H	4H	18.36	18.73	19.49	19.86	21.42	17.39	17.77	18.53	18.90	20.46
	6H	18.99	19.30	20.15	20.47	22.03	17.99	18.30	19.15	19.47	21.03
	8H	19.28	19.55	20.44	20.70	22.28	18.26	18.53	19.43	19.69	21.26
	12H	19.45	19.69	20.61	20.83	22.45	18.41	18.64	19.57	19.79	21.41
12H	4H	18.33	18.67	19.48	19.81	21.38	17.39	17.73	18.54	18.87	20.43
	6H	19.02	19.29	20.18	20.44	22.02	18.05	18.32	19.21	19.47	21.05
	8H	19.33	19.57	20.50	20.72	22.33	18.35	18.59	19.52	19.74	21.35