

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: P1438943

Luminaire Tested: CB2-B-085U-120D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438943
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-120D-940-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

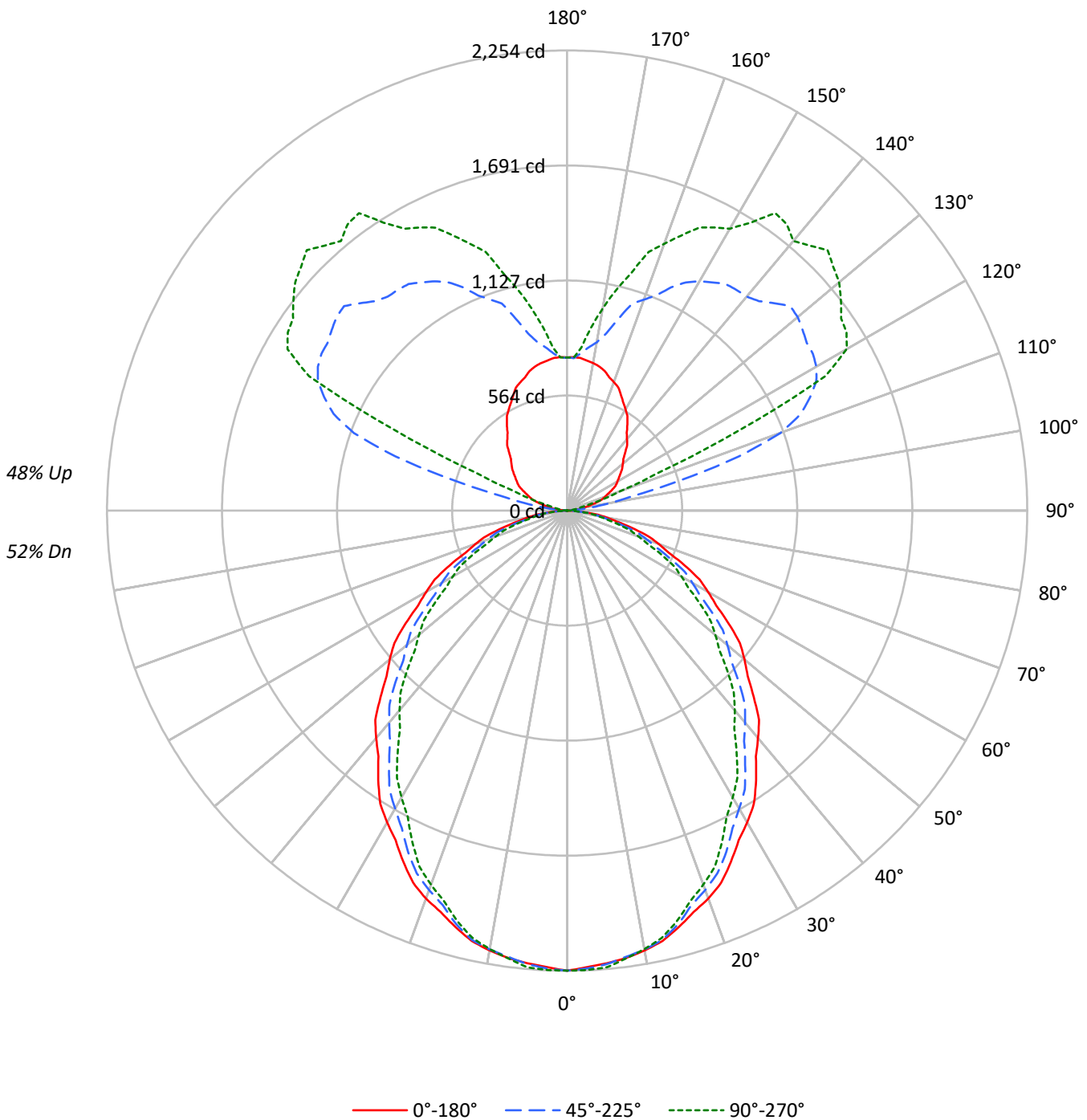
Lumens per Lamp: N/A
Luminaire Lumens: 10183.9 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.8
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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	82	76	71	83	76	71	67	65	61	58	55	52	50	45	43	42	37
3	82	73	65	60	75	67	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27
5	69	57	49	43	64	54	46	41	46	40	36	39	35	32	33	30	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	37	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39253	39253	39253
5°	38919	38980	39251
10°	38699	38607	38577
15°	38087	37836	37526
20°	37485	36655	36142
25°	36479	35451	34456
30°	35469	33907	32623
35°	34305	32326	30784
40°	33075	30838	29035
45°	31837	29285	27331
50°	30719	27774	25671
55°	29343	26200	24105
60°	27770	24705	22542
65°	26100	23042	20982
70°	24256	21180	18980
75°	22066	19159	17187
80°	19729	16791	15577
85°	15168	13789	11371

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	2.1
10°-20°	590.8	5.8
20°-30°	849.4	8.3
30°-40°	954.7	9.4
40°-50°	922.3	9.1
50°-60°	779.3	7.7
60°-70°	559.7	5.5
70°-80°	305.9	3.0
80°-90°	81.2	0.8
90°-100°	56.2	0.6
100°-110°	348.0	3.4
110°-120°	877.7	8.6
120°-130°	1055.1	10.4
130°-140°	956.6	9.4
140°-150°	762.8	7.5
150°-160°	520.4	5.1
160°-170°	275.2	2.7
170°-180°	76.6	0.8
0°-30°	1652.1	16.2
0°-40°	2606.9	25.6
0°-60°	4308.4	42.3
0°-90°	5255.3	51.6
90°-120°	1282.0	12.6
90°-150°	4056.5	39.8
90°-180°	4929.0	48.4
0°-180°	10183.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2226	2256	2230	2230	2245	211
15°	2112	2131	2098	2078	2081	595
25°	1898	1900	1845	1803	1793	874
35°	1613	1595	1520	1461	1448	1008
45°	1292	1266	1189	1126	1110	999
55°	966	931	863	809	794	864
65°	633	610	559	519	509	628
75°	328	308	285	262	255	351
85°	76	71	69	60	57	90
90°	0	0	0	0	0	4
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°	2253.7	2253.7	2253.7	2253.7	2253.7
2.5°	2238.5	2265.5	2245.4	2248.2	2252.3
5°	2226.0	2256.4	2229.5	2229.8	2245.0
7.5°	2210.2	2238.8	2205.0	2198.8	2212.9
10°	2188.1	2216.8	2182.9	2171.1	2181.2
12.5°	2159.1	2186.4	2153.9	2135.1	2143.9
15°	2112.2	2130.7	2098.3	2077.7	2081.1
17.5°	2061.1	2072.5	2025.9	2008.5	2005.2
20°	2022.4	2032.5	1977.6	1953.3	1949.9
22.5°	1972.7	1981.5	1923.7	1893.9	1889.2
25°	1898.2	1899.9	1844.7	1803.0	1792.9
27.5°	1820.2	1814.8	1753.6	1704.3	1691.1
30°	1763.6	1756.8	1685.9	1633.9	1622.1
32.5°	1702.8	1690.7	1619.7	1563.5	1551.7
35°	1613.4	1594.9	1520.3	1461.3	1447.8
37.5°	1518.2	1497.3	1424.0	1359.8	1344.6
40°	1454.7	1431.1	1356.3	1292.1	1277.0
42.5°	1391.2	1364.9	1288.7	1224.5	1207.9
45°	1292.5	1265.5	1188.9	1126.4	1109.6
47.5°	1198.6	1164.2	1089.9	1027.7	1010.9
50°	1133.7	1096.6	1025.0	964.2	947.4
52.5°	1067.5	1029.0	960.1	902.1	885.2
55°	966.3	930.9	862.8	809.0	793.8
57.5°	866.3	832.2	770.0	718.6	703.7
60°	797.2	768.6	709.2	660.6	647.1
62.5°	731.0	705.0	648.5	604.0	590.5
65°	633.3	609.7	559.1	519.2	509.1
67.5°	538.4	514.8	473.9	438.0	426.6
70°	476.3	452.6	415.9	382.9	372.7
72.5°	416.9	391.9	362.0	331.8	324.4
75°	327.9	307.6	284.7	262.1	255.4
77.5°	249.2	229.6	212.9	197.0	195.3
80°	196.7	179.8	167.4	157.0	155.3
82.5°	147.0	134.2	126.0	118.4	118.0
85°	75.9	70.9	69.0	60.3	56.9
87.5°	22.1	22.1	19.3	16.6	16.6
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	19.90	20.76	20.85	21.72	22.97	18.80	19.66	19.75	20.62	21.87
	3H	21.55	22.32	22.50	23.29	24.56	20.33	21.10	21.28	22.07	23.34
	4H	22.17	22.91	23.14	23.88	25.16	20.90	21.63	21.87	22.61	23.89
	6H	22.58	23.25	23.56	24.23	25.52	21.27	21.95	22.25	22.93	24.22
	8H	22.72	23.37	23.71	24.36	25.65	21.41	22.06	22.40	23.05	24.34
	12H	22.80	23.41	23.79	24.40	25.71	21.48	22.09	22.47	23.08	24.39
4H	2H	20.31	21.04	21.29	22.02	23.30	19.43	20.17	20.41	21.14	22.42
	3H	22.18	22.79	23.17	23.79	25.09	21.17	21.78	22.16	22.78	24.08
	4H	22.92	23.48	23.92	24.48	25.80	21.84	22.40	22.84	23.40	24.72
	6H	23.44	23.92	24.45	24.94	26.26	22.32	22.80	23.33	23.82	25.14
	8H	23.65	24.10	24.66	25.11	26.44	22.51	22.96	23.52	23.97	25.30
	12H	23.76	24.16	24.78	25.19	26.53	22.60	23.00	23.62	24.03	25.37
8H	4H	23.08	23.53	24.09	24.54	25.87	22.12	22.57	23.13	23.58	24.91
	6H	23.72	24.09	24.76	25.15	26.48	22.72	23.09	23.75	24.15	25.48
	8H	24.01	24.34	25.05	25.38	26.73	23.00	23.32	24.04	24.36	25.71
	12H	24.19	24.48	25.23	25.51	26.90	23.15	23.43	24.19	24.47	25.86
12H	4H	23.06	23.47	24.09	24.49	25.83	22.12	22.53	23.15	23.55	24.89
	6H	23.75	24.08	24.79	25.12	26.47	22.78	23.11	23.83	24.15	25.50
	8H	24.07	24.36	25.11	25.39	26.78	23.09	23.38	24.14	24.41	25.80