

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1056982

Luminaire Tested: CB2-B-055U-085D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056982
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-119-1, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-B-055U-085D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12538.5 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

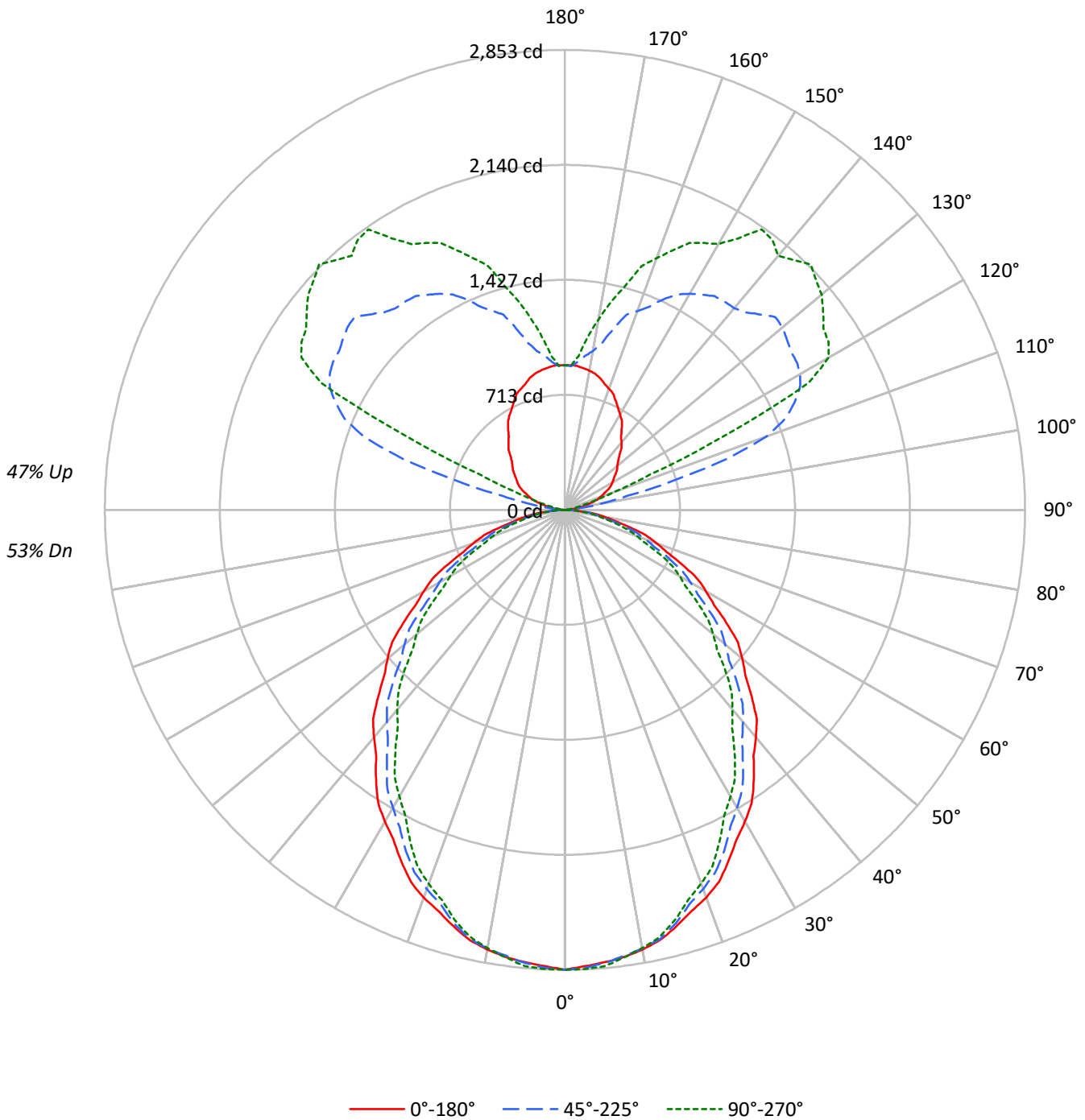
Input Watts (W): 93.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53				
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45				
2	90	83	77	71	83	77	72	67	66	62	58	56	53	50	46	44	43	38				
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	39	36	32				
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28				
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24				
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22				
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19				
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16				
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24844	24844	24844
5°	24634	24672	24844
10°	24493	24436	24416
15°	24106	23948	23751
20°	23726	23200	22876
25°	23089	22438	21808
30°	22450	21461	20648
35°	21713	20460	19484
40°	20935	19518	18377
45°	20150	18537	17299
50°	19444	17579	16247
55°	18573	16583	15256
60°	17578	15637	14268
65°	16520	14583	13279
70°	15351	13403	12013
75°	13964	12127	10878
80°	12488	10627	9860
85°	9602	8733	7204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20150 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	2.1
10°-20°	747.8	6.0
20°-30°	1075.3	8.6
30°-40°	1208.6	9.6
40°-50°	1167.5	9.3
50°-60°	986.4	7.9
60°-70°	708.5	5.7
70°-80°	387.3	3.1
80°-90°	102.9	0.8
90°-100°	67.1	0.5
100°-110°	415.7	3.3
110°-120°	1048.2	8.4
120°-130°	1260.0	10.0
130°-140°	1142.4	9.1
140°-150°	911.0	7.3
150°-160°	621.4	5.0
160°-170°	328.7	2.6
170°-180°	91.5	0.7
0°-30°	2091.4	16.7
0°-40°	3300.0	26.3
0°-60°	5453.9	43.5
0°-90°	6652.5	53.1
90°-120°	1531.0	12.2
90°-150°	4844.5	38.6
90°-180°	5886.0	46.9
0°-180°	12538.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2818	2856	2822	2823	2842	268
15°	2674	2697	2656	2630	2634	754
25°	2403	2405	2335	2282	2270	1106
35°	2042	2019	1924	1850	1833	1276
45°	1636	1602	1505	1426	1405	1264
55°	1223	1178	1092	1024	1005	1094
65°	802	772	708	657	644	795
75°	415	389	360	332	323	444
85°	96	90	87	76	72	114
90°	0	0	0	0	0	5
95°	35	88	27	19	19	44
105°	170	476	687	172	116	178
115°	293	648	1568	1459	1112	288
125°	382	786	1710	1946	1958	342
135°	479	871	1714	2007	2154	372
145°	614	916	1618	1950	2124	384
155°	745	934	1440	1736	1826	343
165°	846	925	1162	1368	1432	237
175°	896	907	923	939	958	85
180°	896	896	896	896	896	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.8	2852.8	2852.8	2852.8	2852.8
2.5°	2833.6	2867.8	2842.4	2846.0	2851.1
5°	2817.9	2856.3	2822.3	2822.7	2841.9
7.5°	2797.8	2834.1	2791.2	2783.3	2801.3
10°	2769.8	2806.1	2763.3	2748.3	2761.1
12.5°	2733.1	2767.7	2726.6	2702.8	2713.9
15°	2673.7	2697.2	2656.2	2630.1	2634.4
17.5°	2609.1	2623.6	2564.5	2542.6	2538.3
20°	2560.1	2572.9	2503.3	2472.7	2468.4
22.5°	2497.2	2508.3	2435.2	2397.5	2391.5
25°	2402.9	2405.0	2335.1	2282.4	2269.6
27.5°	2304.1	2297.3	2219.8	2157.4	2140.7
30°	2232.5	2223.9	2134.2	2068.3	2053.3
32.5°	2155.6	2140.2	2050.3	1979.2	1964.2
35°	2042.4	2018.9	1924.5	1849.8	1832.7
37.5°	1921.8	1895.4	1802.6	1721.3	1702.1
40°	1841.5	1811.6	1716.9	1635.7	1616.5
42.5°	1761.1	1727.8	1631.3	1550.0	1529.1
45°	1636.1	1601.9	1505.1	1425.9	1404.6
47.5°	1517.3	1473.7	1379.7	1301.0	1279.6
50°	1435.2	1388.2	1297.5	1220.6	1199.2
52.5°	1351.3	1302.6	1215.4	1142.0	1120.6
55°	1223.3	1178.4	1092.2	1024.1	1004.8
57.5°	1096.6	1053.4	974.7	909.6	890.8
60°	1009.2	972.9	897.8	836.2	819.2
62.5°	925.3	892.4	820.9	764.6	747.5
65°	801.7	771.8	707.7	657.2	644.4
67.5°	681.5	651.6	599.8	554.5	540.0
70°	602.9	573.0	526.4	484.6	471.8
72.5°	527.8	496.1	458.3	420.1	410.7
75°	415.0	389.4	360.4	331.8	323.3
77.5°	315.4	290.7	269.6	249.4	247.3
80°	249.0	227.7	211.9	198.7	196.6
82.5°	186.1	169.9	159.5	149.8	149.4
85°	96.1	89.7	87.4	76.4	72.1
87.5°	28.0	28.0	24.5	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	9.3	15.3	6.2	6.2	6.2
95°	34.8	87.6	27.0	19.3	19.3
97.5°	72.6	210.0	146.0	39.3	34.0
100°	100.4	304.3	251.0	57.7	46.3
102.5°	128.2	386.4	396.2	91.4	71.0
105°	169.9	475.7	687.3	172.5	115.8
107.5°	210.8	534.0	1053.3	355.9	214.7
110°	235.5	567.8	1328.2	554.8	332.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.2	601.5	1479.6	889.4	573.0
115°	293.4	648.3	1567.6	1459.3	1112.0
117.5°	321.2	691.2	1643.3	1804.7	1702.8
120°	339.8	724.9	1683.5	1854.1	1888.1
122.5°	358.3	749.4	1705.1	1873.3	1937.5
125°	382.3	786.2	1710.5	1946.3	1957.6
127.5°	406.2	813.9	1736.0	2013.3	2018.6
130°	424.7	832.5	1760.7	2035.8	2077.3
132.5°	446.3	848.0	1769.9	2048.6	2111.3
135°	478.8	871.4	1714.3	2007.3	2154.5
137.5°	519.7	888.2	1661.1	2006.1	2101.2
140°	544.4	891.8	1633.3	2050.4	2058.0
142.5°	572.2	901.4	1627.1	2045.6	2110.5
145°	613.9	915.9	1617.8	1950.0	2123.6
147.5°	655.6	925.2	1582.3	1844.4	1996.2
150°	683.4	928.8	1548.3	1809.2	1903.5
152.5°	711.2	932.5	1505.1	1787.2	1866.5
155°	745.2	934.0	1440.2	1735.7	1826.3
157.5°	780.7	929.5	1362.2	1641.7	1740.6
160°	799.3	923.8	1312.8	1573.5	1660.3
162.5°	817.8	921.2	1269.5	1484.2	1586.2
165°	845.6	924.9	1162.2	1368.3	1432.5
167.5°	864.1	921.5	1061.8	1230.7	1321.3
170°	876.5	921.8	1000.0	1125.3	1200.8
172.5°	885.7	906.9	963.0	1029.0	1080.3
175°	895.8	907.1	922.8	938.7	957.6
177.5°	898.9	904.9	892.7	889.7	895.8
180°	895.8	895.8	895.8	895.8	895.8

(END OF REPORT)