

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: P1056990

Luminaire Tested: CB2-B-085U-055D-835-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056990
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-085U-055D-835-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13418.8 lumens
Efficiency: N/A
Efficacy: 142.3 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: Semi-Indirect

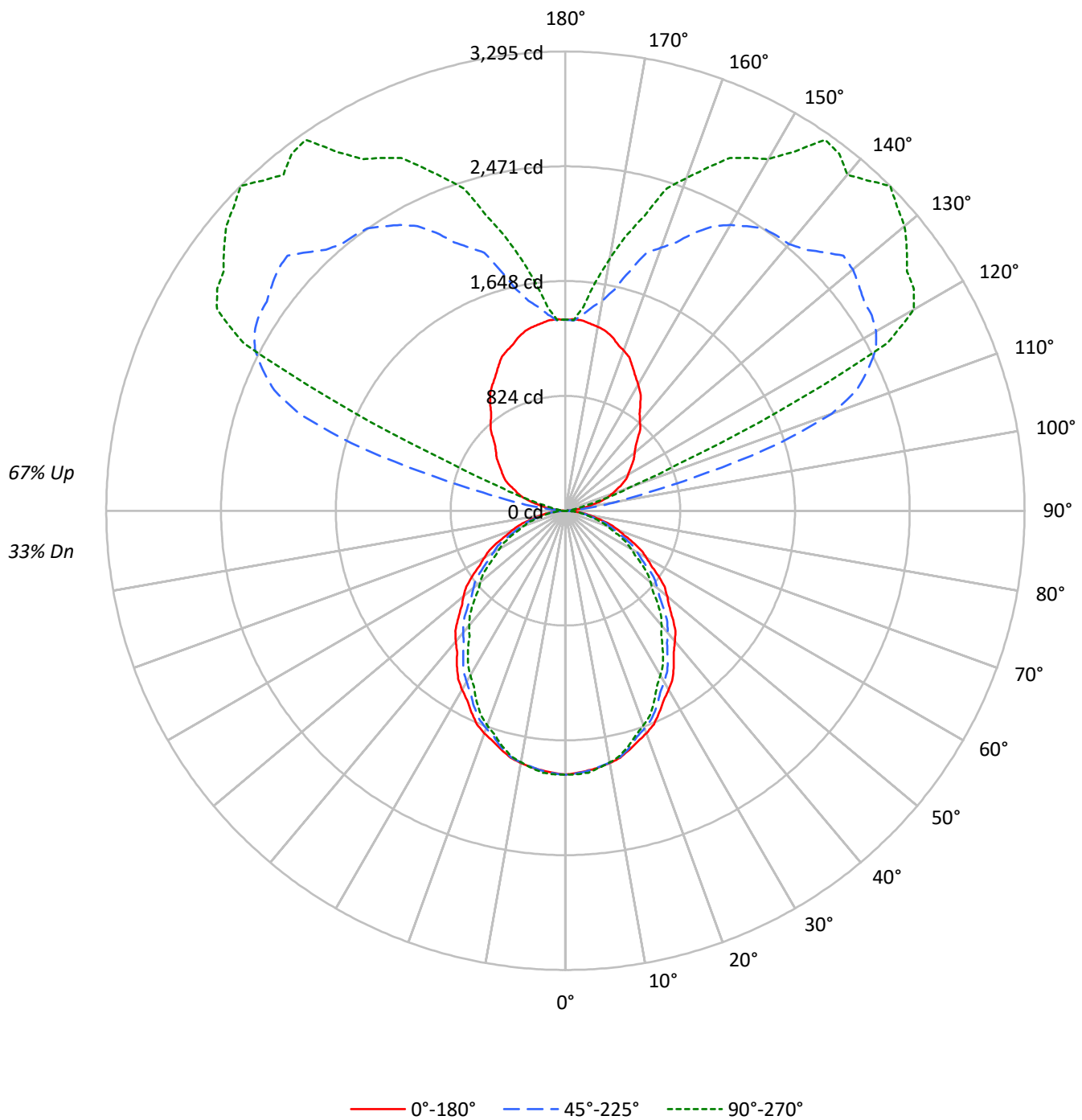
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	79	73	68	77	71	66	62	57	53	50	44	42	39	32	30	29
3	78	69	62	57	70	63	57	52	50	46	42	39	36	34	28	26	25
4	72	61	54	48	64	55	49	44	45	40	36	35	31	29	25	23	22
5	66	54	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16497	16497	16497
5°	16357	16382	16496
10°	16264	16225	16213
15°	16006	15901	15771
20°	15754	15405	15190
25°	15331	14899	14481
30°	14907	14250	13710
35°	14418	13585	12937
40°	13900	12960	12202
45°	13380	12309	11486
50°	12910	11673	10788
55°	12332	11011	10130
60°	11671	10382	9473
65°	10969	9683	8818
70°	10193	8902	7977
75°	9273	8052	7224
80°	8295	7056	6545
85°	6375	5795	4786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 13380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.3
10°-20°	496.6	3.7
20°-30°	714.0	5.3
30°-40°	802.5	6.0
40°-50°	775.2	5.8
50°-60°	655.0	4.9
60°-70°	470.5	3.5
70°-80°	257.1	1.9
80°-90°	68.3	0.5
90°-100°	102.6	0.8
100°-110°	635.7	4.7
110°-120°	1603.0	11.9
120°-130°	1927.0	14.4
130°-140°	1747.2	13.0
140°-150°	1393.2	10.4
150°-160°	950.4	7.1
160°-170°	502.6	3.7
170°-180°	139.9	1.0
0°-30°	1388.7	10.3
0°-40°	2191.2	16.3
0°-60°	3621.4	27.0
0°-90°	4417.3	32.9
90°-120°	2341.3	17.4
90°-150°	7408.7	55.2
90°-180°	9002.0	67.1
0°-180°	13418.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1871	1897	1874	1874	1887	178
15°	1775	1791	1764	1746	1749	500
25°	1596	1597	1550	1516	1507	734
35°	1356	1341	1278	1228	1217	847
45°	1086	1064	999	947	933	839
55°	812	782	725	680	667	726
65°	532	512	470	436	428	528
75°	276	259	239	220	215	295
85°	64	60	58	51	48	76
90°	0	0	0	0	0	4
95°	53	134	41	30	30	67
105°	260	728	1051	264	177	273
115°	449	992	2397	2232	1701	440
125°	585	1202	2616	2976	2994	523
135°	732	1333	2622	3070	3295	569
145°	939	1401	2474	2982	3248	587
155°	1140	1428	2202	2654	2793	525
165°	1293	1414	1777	2093	2191	363
175°	1370	1387	1411	1436	1464	130
180°	1370	1370	1370	1370	1370	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1894.3	1894.3	1894.3	1894.3	1894.3
2.5°	1881.5	1904.2	1887.3	1889.7	1893.1
5°	1871.1	1896.6	1874.0	1874.3	1887.0
7.5°	1857.7	1881.8	1853.4	1848.1	1860.0
10°	1839.2	1863.3	1834.8	1824.9	1833.4
12.5°	1814.8	1837.8	1810.4	1794.7	1802.0
15°	1775.3	1790.9	1763.7	1746.4	1749.2
17.5°	1732.4	1742.1	1702.8	1688.3	1685.4
20°	1699.9	1708.4	1662.2	1641.8	1639.0
22.5°	1658.1	1665.5	1617.0	1591.9	1587.9
25°	1595.5	1596.9	1550.5	1515.5	1507.0
27.5°	1529.9	1525.4	1473.9	1432.5	1421.4
30°	1482.4	1476.7	1417.1	1373.3	1363.4
32.5°	1431.3	1421.1	1361.4	1314.2	1304.2
35°	1356.2	1340.6	1277.8	1228.3	1216.9
37.5°	1276.1	1258.5	1196.9	1142.9	1130.2
40°	1222.7	1202.9	1140.0	1086.1	1073.3
42.5°	1169.3	1147.2	1083.2	1029.2	1015.3
45°	1086.4	1063.7	999.4	946.8	932.6
47.5°	1007.5	978.5	916.1	863.9	849.7
50°	952.9	921.7	861.6	810.5	796.3
52.5°	897.2	864.9	807.0	758.3	744.1
55°	812.2	782.5	725.2	680.0	667.2
57.5°	728.1	699.5	647.2	604.0	591.5
60°	670.1	646.0	596.1	555.3	543.9
62.5°	614.4	592.6	545.1	507.7	496.3
65°	532.3	512.5	469.9	436.4	427.9
67.5°	452.5	432.7	398.3	368.2	358.5
70°	400.3	380.5	349.6	321.8	313.3
72.5°	350.4	329.4	304.3	278.9	272.7
75°	275.6	258.6	239.3	220.3	214.7
77.5°	209.4	193.0	179.0	165.6	164.2
80°	165.4	151.2	140.7	132.0	130.5
82.5°	123.6	112.8	105.9	99.5	99.2
85°	63.8	59.6	58.0	50.7	47.9
87.5°	18.6	18.6	16.2	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.2	23.4	9.4	9.4	9.4
95°	53.1	134.0	41.3	29.5	29.5
97.5°	111.0	321.2	223.2	60.0	52.0
100°	153.5	465.3	383.8	88.2	70.9
102.5°	196.0	591.0	605.8	139.8	108.7
105°	259.8	727.5	1051.1	263.8	177.1
107.5°	322.4	816.6	1610.9	544.2	328.3
110°	360.2	868.3	2031.3	848.5	507.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	398.0	919.9	2262.8	1360.1	876.3
115°	448.8	991.5	2397.4	2231.8	1700.6
117.5°	491.3	1057.1	2513.1	2760.0	2604.1
120°	519.6	1108.5	2574.5	2835.5	2887.5
122.5°	548.0	1146.1	2607.6	2864.9	2963.1
125°	584.6	1202.4	2615.9	2976.5	2993.8
127.5°	621.2	1244.8	2654.8	3079.0	3087.1
130°	649.5	1273.1	2692.6	3113.3	3176.8
132.5°	682.6	1296.9	2706.8	3133.0	3228.8
135°	732.2	1332.7	2621.8	3069.8	3294.9
137.5°	794.8	1358.3	2540.3	3068.0	3213.5
140°	832.6	1363.8	2497.8	3135.8	3147.3
142.5°	875.1	1378.6	2488.3	3128.3	3227.6
145°	938.9	1400.8	2474.2	2982.1	3247.7
147.5°	1002.7	1414.9	2419.8	2820.7	3052.8
150°	1045.2	1420.5	2367.9	2766.8	2911.1
152.5°	1087.7	1426.0	2301.7	2733.2	2854.4
155°	1139.6	1428.3	2202.5	2654.5	2793.0
157.5°	1194.0	1421.5	2083.3	2510.7	2661.9
160°	1222.3	1412.8	2007.7	2406.3	2539.1
162.5°	1250.7	1408.9	1941.5	2269.8	2425.7
165°	1293.2	1414.4	1777.4	2092.6	2190.7
167.5°	1321.5	1409.3	1623.9	1882.1	2020.7
170°	1340.4	1409.7	1529.4	1721.0	1836.4
172.5°	1354.6	1386.9	1472.7	1573.7	1652.2
175°	1369.9	1387.3	1411.3	1435.5	1464.4
177.5°	1374.7	1383.9	1365.2	1360.7	1369.9
180°	1369.9	1369.9	1369.9	1369.9	1369.9

(END OF REPORT)