

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: P1056991

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

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056991
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13239.9 lumens
Efficiency: N/A
Efficacy: 140.4 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

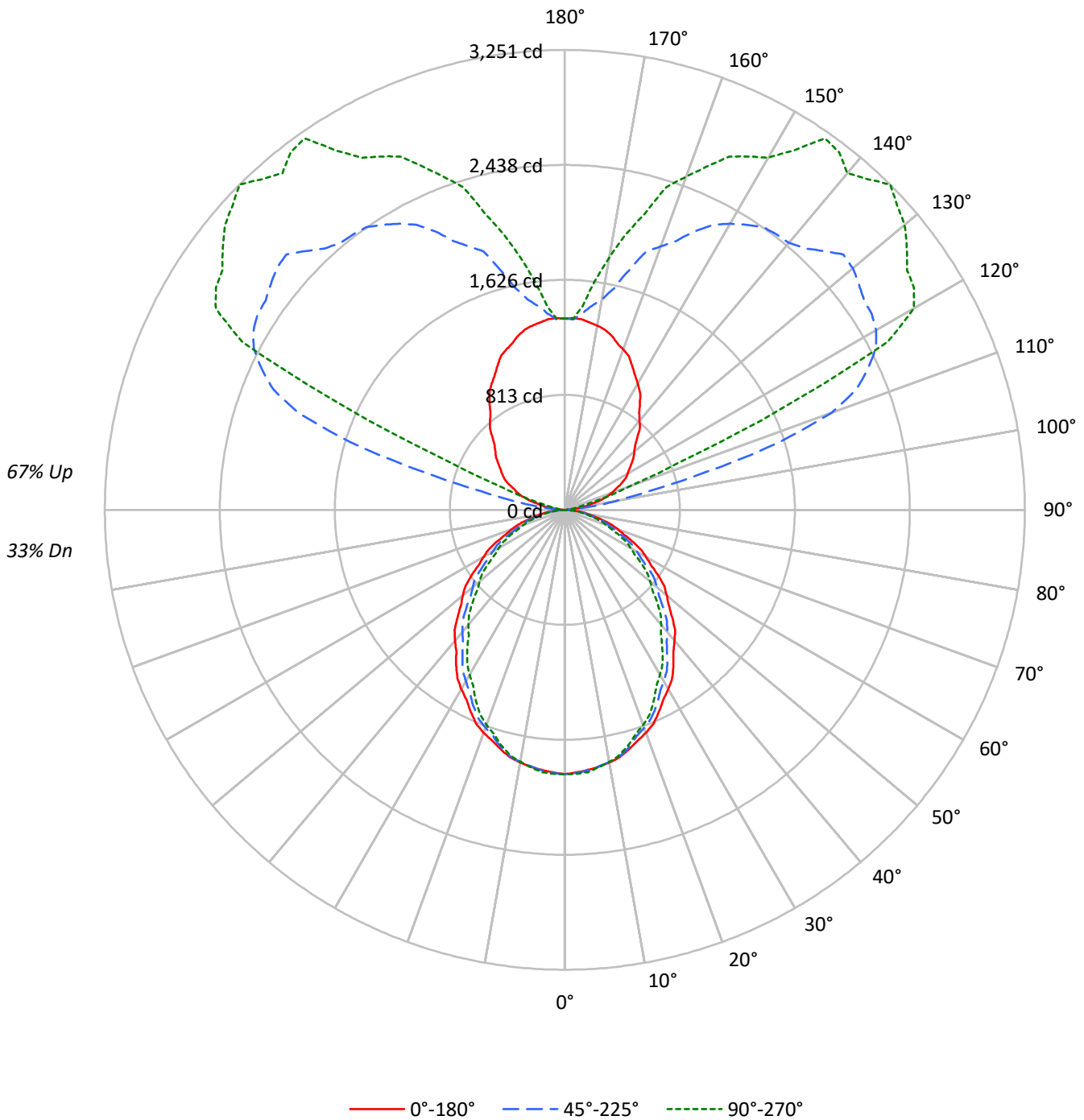
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	16277	16277	16277
5°	16138	16164	16277
10°	16047	16009	15996
15°	15793	15689	15561
20°	15544	15199	14988
25°	15126	14701	14288
30°	14708	14060	13527
35°	14226	13404	12765
40°	13715	12788	12039
45°	13201	12143	11333
50°	12738	11517	10645
55°	12168	10865	9995
60°	11516	10245	9348
65°	10823	9555	8700
70°	10058	8782	7870
75°	9149	7944	7127
80°	8180	6961	6459
85°	6295	5715	4716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.3
10°-20°	489.9	3.7
20°-30°	704.5	5.3
30°-40°	791.8	6.0
40°-50°	764.9	5.8
50°-60°	646.3	4.9
60°-70°	464.2	3.5
70°-80°	253.7	1.9
80°-90°	67.4	0.5
90°-100°	101.3	0.8
100°-110°	627.2	4.7
110°-120°	1581.7	11.9
120°-130°	1901.3	14.4
130°-140°	1723.9	13.0
140°-150°	1374.6	10.4
150°-160°	937.7	7.1
160°-170°	495.9	3.7
170°-180°	138.0	1.0
0°-30°	1370.2	10.3
0°-40°	2162.0	16.3
0°-60°	3573.1	27.0
0°-90°	4358.4	32.9
90°-120°	2310.1	17.4
90°-150°	7309.9	55.2
90°-180°	8882.0	67.1
0°-180°	13239.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1846	1871	1849	1849	1862	175
15°	1752	1767	1740	1723	1726	494
25°	1574	1576	1530	1495	1487	725
35°	1338	1323	1261	1212	1201	836
45°	1072	1050	986	934	920	828
55°	801	772	716	671	658	716
65°	525	506	464	431	422	521
75°	272	255	236	217	212	291
85°	63	59	57	50	47	75
90°	0	0	0	0	0	4
95°	52	132	41	29	29	66
105°	256	718	1037	260	175	269
115°	443	978	2365	2202	1678	434
125°	577	1186	2581	2937	2954	516
135°	722	1315	2587	3029	3251	562
145°	926	1382	2441	2942	3204	579
155°	1124	1409	2173	2619	2756	518
165°	1276	1396	1754	2065	2162	358
175°	1352	1369	1392	1416	1445	128
180°	1352	1352	1352	1352	1352	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.0	1869.0	1869.0	1869.0	1869.0
2.5°	1856.4	1878.8	1862.2	1864.5	1867.9
5°	1846.1	1871.3	1849.0	1849.3	1861.9
7.5°	1833.0	1856.8	1828.7	1823.5	1835.3
10°	1814.6	1838.4	1810.4	1800.5	1808.9
12.5°	1790.6	1813.3	1786.3	1770.7	1778.0
15°	1751.7	1767.1	1740.2	1723.1	1725.9
17.5°	1709.3	1718.8	1680.1	1665.7	1662.9
20°	1677.3	1685.7	1640.0	1620.0	1617.2
22.5°	1636.0	1643.3	1595.4	1570.7	1566.8
25°	1574.2	1575.6	1529.9	1495.3	1486.9
27.5°	1509.5	1505.1	1454.3	1413.4	1402.5
30°	1462.6	1457.0	1398.2	1355.0	1345.2
32.5°	1412.2	1402.1	1343.2	1296.6	1286.9
35°	1338.1	1322.7	1260.8	1211.9	1200.7
37.5°	1259.1	1241.7	1181.0	1127.7	1115.1
40°	1206.4	1186.8	1124.9	1071.6	1059.0
42.5°	1153.8	1131.9	1068.8	1015.5	1001.8
45°	1071.9	1049.5	986.0	934.2	920.2
47.5°	994.0	965.5	903.9	852.3	838.3
50°	940.2	909.5	850.1	799.7	785.7
52.5°	885.3	853.4	796.3	748.2	734.2
55°	801.4	772.0	715.6	670.9	658.3
57.5°	718.4	690.2	638.6	595.9	583.6
60°	661.2	637.4	588.2	547.9	536.7
62.5°	606.2	584.7	537.8	500.9	489.7
65°	525.2	505.6	463.7	430.6	422.2
67.5°	446.5	426.9	393.0	363.3	353.8
70°	395.0	375.4	344.9	317.5	309.1
72.5°	345.8	325.0	300.2	275.2	269.0
75°	271.9	255.1	236.1	217.4	211.8
77.5°	206.7	190.4	176.6	163.4	162.0
80°	163.1	149.2	138.8	130.2	128.8
82.5°	121.9	111.3	104.5	98.2	97.9
85°	63.0	58.8	57.2	50.0	47.2
87.5°	18.3	18.3	16.0	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.0	23.1	9.3	9.3	9.3
95°	52.4	132.2	40.8	29.1	29.1
97.5°	109.5	316.9	220.2	59.2	51.3
100°	151.5	459.1	378.7	87.0	69.9
102.5°	193.4	583.1	597.8	138.0	107.2
105°	256.4	717.8	1037.1	260.2	174.8
107.5°	318.1	805.7	1589.4	537.0	323.9
110°	355.4	856.7	2004.2	837.2	501.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	392.7	907.7	2232.6	1342.0	864.6
115°	442.8	978.3	2365.4	2202.0	1677.9
117.5°	484.7	1043.0	2479.6	2723.2	2569.4
120°	512.7	1093.8	2540.2	2797.7	2849.0
122.5°	540.7	1130.9	2572.8	2826.7	2923.6
125°	576.8	1186.3	2581.0	2936.8	2953.9
127.5°	612.9	1228.2	2619.5	3038.0	3045.9
130°	640.9	1256.1	2656.7	3071.8	3134.5
132.5°	673.5	1279.6	2670.7	3091.2	3185.8
135°	722.4	1314.9	2586.8	3028.8	3251.0
137.5°	784.2	1340.2	2506.4	3027.1	3170.6
140°	821.5	1345.6	2464.5	3094.0	3105.4
142.5°	863.4	1360.2	2455.2	3086.6	3184.6
145°	926.4	1382.1	2441.2	2942.4	3204.4
147.5°	989.3	1396.0	2387.6	2783.1	3012.1
150°	1031.2	1401.5	2336.3	2729.9	2872.3
152.5°	1073.2	1407.0	2271.1	2696.8	2816.4
155°	1124.5	1409.3	2173.2	2619.1	2755.8
157.5°	1178.1	1402.5	2055.5	2477.2	2626.4
160°	1206.0	1394.0	1980.9	2374.2	2505.3
162.5°	1234.0	1390.1	1915.7	2239.6	2393.4
165°	1275.9	1395.6	1753.7	2064.7	2161.5
167.5°	1303.9	1390.5	1602.2	1857.0	1993.7
170°	1322.5	1390.9	1509.0	1698.0	1811.9
172.5°	1336.5	1368.4	1453.1	1552.7	1630.2
175°	1351.7	1368.8	1392.5	1416.4	1444.9
177.5°	1356.3	1365.5	1347.0	1342.6	1351.7
180°	1351.7	1351.7	1351.7	1351.7	1351.7

(END OF REPORT)