

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: P1056997

Luminaire Tested: CB2-B-085U-120D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056997
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-120D-840-1D-UNV-STD-W-8
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, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18351.7 lumens
Efficiency: N/A
Efficacy: 125.7 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

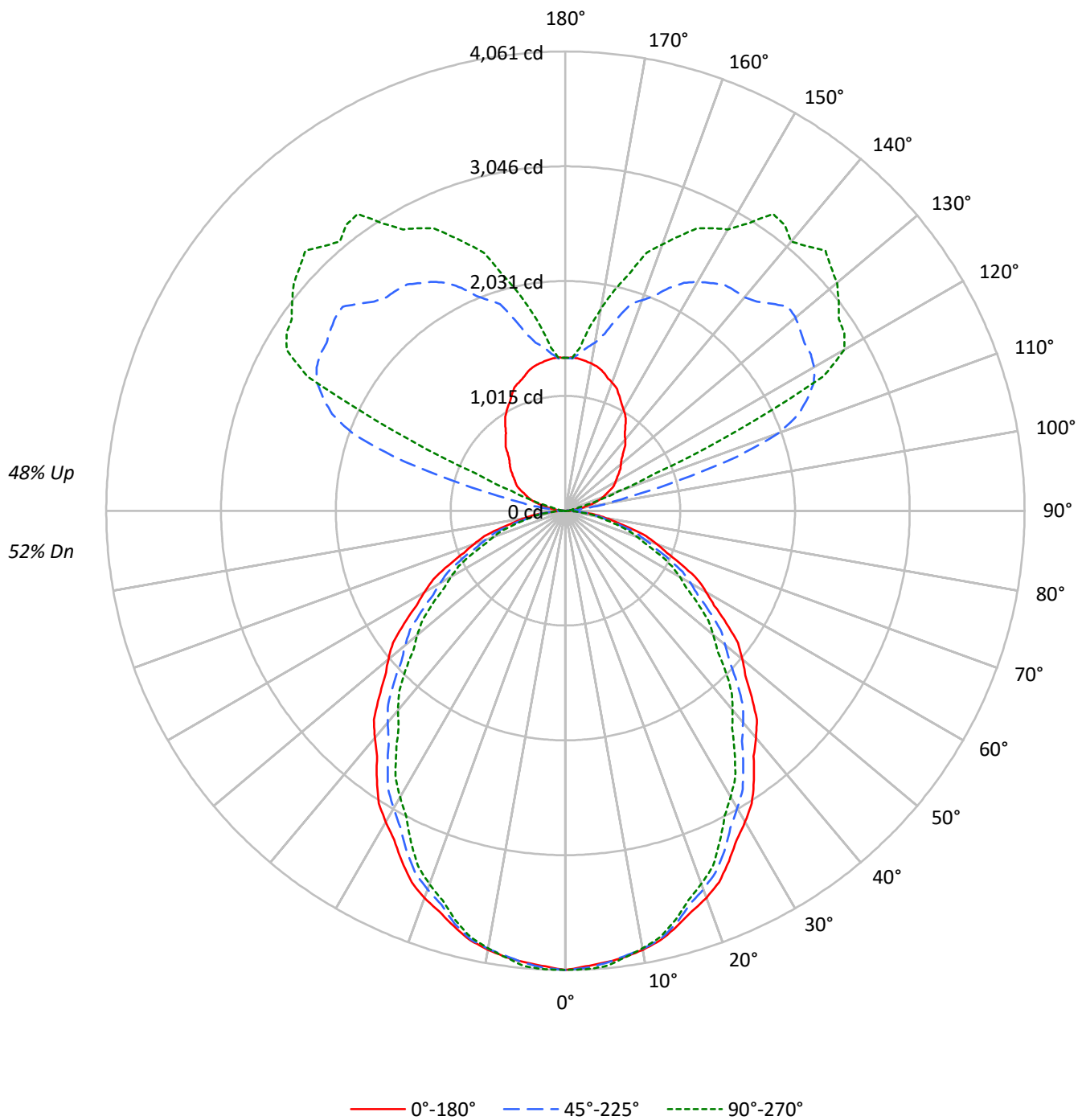
Input Watts (W): 146
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35368	35368	35368
5°	35067	35122	35366
10°	34868	34786	34758
15°	34316	34092	33811
20°	33776	33026	32565
25°	32868	31942	31046
30°	31958	30551	29393
35°	30911	29126	27737
40°	29801	27787	26160
45°	28685	26387	24626
50°	27679	25025	23130
55°	26440	23607	21718
60°	25022	22261	20310
65°	23516	20761	18902
70°	21854	19082	17103
75°	19879	17265	15485
80°	17779	15126	14037
85°	13669	12430	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	2.1
10°-20°	1064.6	5.8
20°-30°	1530.7	8.3
30°-40°	1720.5	9.4
40°-50°	1662.0	9.1
50°-60°	1404.2	7.7
60°-70°	1008.6	5.5
70°-80°	551.3	3.0
80°-90°	146.4	0.8
90°-100°	101.3	0.6
100°-110°	627.2	3.4
110°-120°	1581.7	8.6
120°-130°	1901.3	10.4
130°-140°	1723.9	9.4
140°-150°	1374.6	7.5
150°-160°	937.7	5.1
160°-170°	495.9	2.7
170°-180°	138.0	0.8
0°-30°	2977.2	16.2
0°-40°	4697.7	25.6
0°-60°	7763.9	42.3
0°-90°	9470.2	51.6
90°-120°	2310.1	12.6
90°-150°	7309.9	39.8
90°-180°	8882.0	48.4
0°-180°	18351.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4061	4061	4061	4061	4061	
5°	4011	4066	4018	4018	4046	381
15°	3806	3840	3781	3744	3750	1073
25°	3421	3424	3324	3249	3231	1575
35°	2908	2874	2740	2633	2609	1816
45°	2329	2280	2142	2030	2000	1799
55°	1741	1678	1555	1458	1430	1557
65°	1141	1099	1008	936	917	1132
75°	591	554	513	472	460	632
85°	137	128	124	109	103	163
90°	0	0	0	0	0	7
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°	4061.2	4061.2	4061.2	4061.2	4061.2
2.5°	4033.8	4082.4	4046.2	4051.4	4058.7
5°	4011.4	4066.1	4017.6	4018.3	4045.6
7.5°	3982.8	4034.5	3973.5	3962.2	3987.8
10°	3943.0	3994.7	3933.7	3912.3	3930.6
12.5°	3890.8	3940.0	3881.4	3847.6	3863.4
15°	3806.2	3839.6	3781.3	3744.1	3750.2
17.5°	3714.1	3734.8	3650.7	3619.5	3613.4
20°	3644.5	3662.7	3563.6	3520.0	3513.9
22.5°	3554.9	3570.7	3466.6	3412.9	3404.4
25°	3420.6	3423.6	3324.2	3249.1	3230.9
27.5°	3280.0	3270.3	3160.0	3071.1	3047.4
30°	3178.0	3165.9	3038.1	2944.3	2923.0
32.5°	3068.6	3046.7	2918.7	2817.5	2796.2
35°	2907.5	2874.0	2739.6	2633.3	2609.0
37.5°	2735.8	2698.1	2566.1	2450.4	2423.0
40°	2621.4	2578.8	2444.2	2328.5	2301.1
42.5°	2507.0	2459.5	2322.3	2206.5	2176.7
45°	2329.1	2280.5	2142.5	2029.9	1999.5
47.5°	2159.9	2097.9	1964.0	1852.0	1821.6
50°	2043.0	1976.1	1847.1	1737.6	1707.2
52.5°	1923.6	1854.3	1730.2	1625.6	1595.2
55°	1741.4	1677.5	1554.8	1457.8	1430.4
57.5°	1561.0	1499.6	1387.5	1294.9	1268.1
60°	1436.6	1385.0	1278.1	1190.4	1166.1
62.5°	1317.2	1270.4	1168.6	1088.4	1064.1
65°	1141.2	1098.7	1007.5	935.6	917.3
67.5°	970.2	927.6	853.9	789.4	768.7
70°	858.3	815.7	749.4	689.9	671.7
72.5°	751.3	706.3	652.4	598.0	584.6
75°	590.8	554.3	513.1	472.4	460.2
77.5°	449.0	413.8	383.7	355.0	352.0
80°	354.5	324.1	301.6	282.9	279.9
82.5°	264.9	241.8	227.0	213.3	212.7
85°	136.8	127.7	124.4	108.7	102.6
87.5°	39.8	39.8	34.8	29.9	29.9
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)