

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: P1056993

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

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056993
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-085D-835-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 850 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: 15744.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

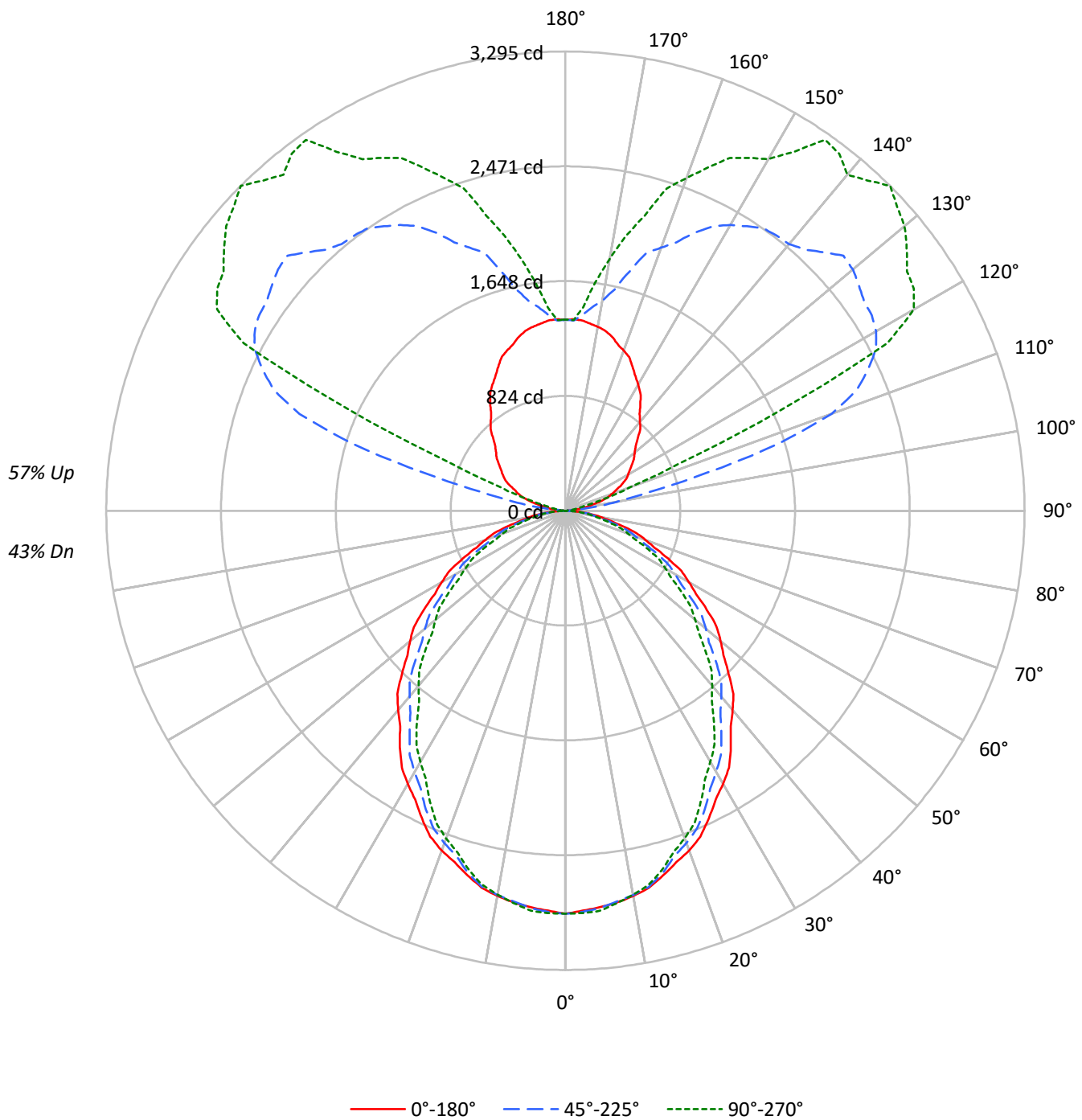
Input Watts (W): 113.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	26	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25180	25180	25180
5°	24967	25005	25179
10°	24825	24766	24746
15°	24431	24272	24072
20°	24047	23514	23185
25°	23401	22742	22103
30°	22752	21751	20927
35°	22007	20736	19748
40°	21217	19782	18625
45°	20422	18787	17533
50°	19706	17817	16467
55°	18824	16808	15462
60°	17814	15848	14460
65°	16743	14781	13458
70°	15558	13587	12176
75°	14152	12292	11026
80°	12658	10772	9995
85°	9732	8853	7304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	1.7
10°-20°	757.9	4.8
20°-30°	1089.8	6.9
30°-40°	1224.9	7.8
40°-50°	1183.3	7.5
50°-60°	999.8	6.4
60°-70°	718.1	4.6
70°-80°	392.5	2.5
80°-90°	104.2	0.7
90°-100°	102.6	0.7
100°-110°	635.7	4.0
110°-120°	1603.0	10.2
120°-130°	1927.0	12.2
130°-140°	1747.2	11.1
140°-150°	1393.2	8.8
150°-160°	950.4	6.0
160°-170°	502.6	3.2
170°-180°	139.9	0.9
0°-30°	2119.6	13.5
0°-40°	3344.5	21.2
0°-60°	5527.6	35.1
0°-90°	6742.4	42.8
90°-120°	2341.3	14.9
90°-150°	7408.7	47.1
90°-180°	9002.0	57.2
0°-180°	15744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2891	2891	2891	2891	2891	
5°	2856	2895	2860	2861	2880	271
15°	2710	2734	2692	2666	2670	764
25°	2435	2438	2367	2313	2300	1121
35°	2070	2046	1950	1875	1858	1293
45°	1658	1624	1525	1445	1424	1281
55°	1240	1194	1107	1038	1018	1108
65°	812	782	717	666	653	806
75°	421	395	365	336	328	450
85°	97	91	89	77	73	116
90°	0	0	0	0	0	6
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°	2891.4	2891.4	2891.4	2891.4	2891.4
2.5°	2871.9	2906.5	2880.8	2884.4	2889.6
5°	2856.0	2894.9	2860.4	2860.8	2880.3
7.5°	2835.6	2872.4	2829.0	2821.0	2839.1
10°	2807.3	2844.1	2800.6	2785.4	2798.4
12.5°	2770.1	2805.1	2763.4	2739.3	2750.6
15°	2709.8	2733.7	2692.1	2665.7	2670.0
17.5°	2644.3	2659.0	2599.1	2576.9	2572.6
20°	2594.7	2607.7	2537.2	2506.1	2501.7
22.5°	2531.0	2542.2	2468.1	2429.9	2423.8
25°	2435.3	2437.5	2366.7	2313.3	2300.3
27.5°	2335.2	2328.3	2249.8	2186.5	2169.6
30°	2262.6	2254.0	2163.0	2096.2	2081.1
32.5°	2184.7	2169.1	2078.0	2005.9	1990.8
35°	2070.0	2046.2	1950.5	1874.8	1857.5
37.5°	1947.8	1921.0	1826.9	1744.6	1725.1
40°	1866.3	1836.0	1740.1	1657.8	1638.3
42.5°	1784.9	1751.1	1653.4	1571.0	1549.7
45°	1658.2	1623.6	1525.4	1445.2	1423.6
47.5°	1537.8	1493.6	1398.3	1318.6	1296.9
50°	1454.5	1406.9	1315.1	1237.1	1215.4
52.5°	1369.5	1320.2	1231.8	1157.4	1135.7
55°	1239.8	1194.3	1107.0	1037.9	1018.4
57.5°	1111.4	1067.7	987.9	921.9	902.8
60°	1022.8	986.0	909.9	847.5	830.2
62.5°	937.8	904.5	832.0	774.9	757.6
65°	812.5	782.2	717.3	666.1	653.1
67.5°	690.7	660.4	607.9	562.0	547.3
70°	611.0	580.7	533.6	491.2	478.2
72.5°	534.9	502.8	464.5	425.7	416.2
75°	420.6	394.7	365.3	336.3	327.7
77.5°	319.7	294.6	273.2	252.8	250.6
80°	252.4	230.7	214.8	201.4	199.3
82.5°	188.6	172.2	161.6	151.9	151.4
85°	97.4	90.9	88.6	77.4	73.1
87.5°	28.3	28.3	24.8	21.3	21.3
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)