

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: P1056992

Luminaire Tested: CB2-B-085U-085D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056992
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14430.4 lumens
Efficiency: N/A
Efficacy: 127.3 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: General Diffuse

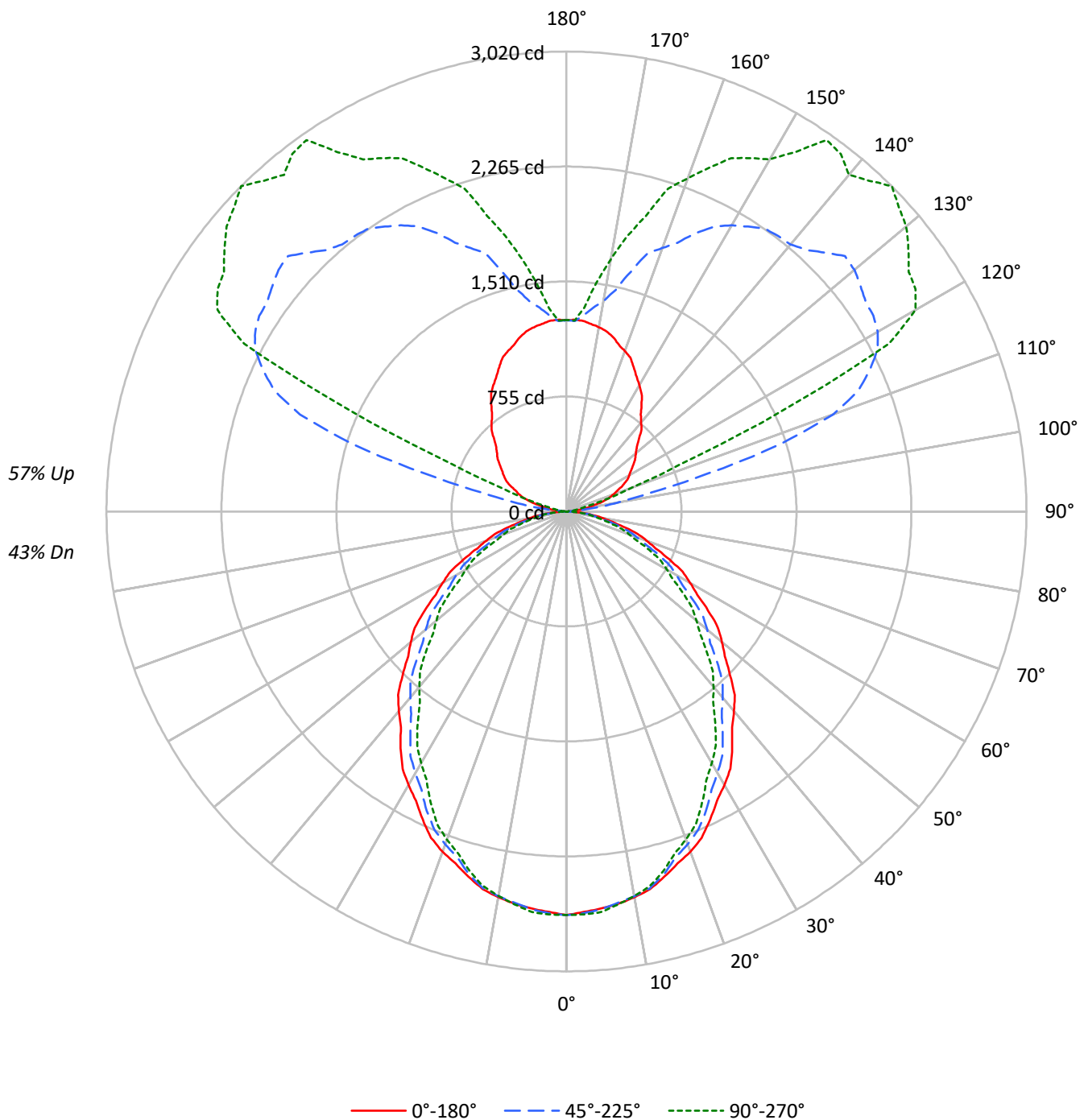
Input Watts (W): 113.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	23080	23080	23080
5°	22884	22919	23079
10°	22753	22700	22681
15°	22394	22247	22064
20°	22040	21552	21251
25°	21448	20844	20260
30°	20855	19936	19182
35°	20171	19006	18100
40°	19447	18133	17071
45°	18719	17219	16070
50°	18063	16331	15093
55°	17254	15405	14172
60°	16329	14526	13255
65°	15346	13549	12335
70°	14262	12451	11160
75°	12975	11265	10104
80°	11600	9870	9158
85°	8923	8114	6695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.7
10°-20°	694.7	4.8
20°-30°	998.9	6.9
30°-40°	1122.7	7.8
40°-50°	1084.5	7.5
50°-60°	916.4	6.4
60°-70°	658.2	4.6
70°-80°	359.7	2.5
80°-90°	95.5	0.7
90°-100°	94.1	0.7
100°-110°	582.6	4.0
110°-120°	1469.3	10.2
120°-130°	1766.2	12.2
130°-140°	1601.4	11.1
140°-150°	1277.0	8.8
150°-160°	871.1	6.0
160°-170°	460.7	3.2
170°-180°	128.2	0.9
0°-30°	1942.8	13.5
0°-40°	3065.5	21.2
0°-60°	5066.4	35.1
0°-90°	6179.9	42.8
90°-120°	2146.0	14.9
90°-150°	6790.6	47.1
90°-180°	8251.0	57.2
0°-180°	14430.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2618	2653	2622	2622	2640	249
15°	2484	2506	2468	2443	2447	700
25°	2232	2234	2169	2120	2108	1028
35°	1897	1876	1788	1718	1702	1185
45°	1520	1488	1398	1325	1305	1174
55°	1136	1095	1015	951	933	1016
65°	745	717	658	610	599	738
75°	386	362	335	308	300	412
85°	89	83	81	71	67	106
90°	0	0	0	0	0	5
95°	49	123	38	27	27	62
105°	238	667	963	242	162	250
115°	411	909	2197	2046	1559	403
125°	536	1102	2398	2728	2744	480
135°	671	1222	2403	2814	3020	522
145°	860	1284	2268	2733	2977	538
155°	1045	1309	2019	2433	2560	481
165°	1185	1296	1629	1918	2008	333
175°	1256	1272	1294	1316	1342	119
180°	1256	1256	1256	1256	1256	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2650.2	2650.2	2650.2	2650.2	2650.2
2.5°	2632.3	2664.0	2640.4	2643.8	2648.5
5°	2617.7	2653.4	2621.7	2622.2	2640.0
7.5°	2599.0	2632.7	2592.9	2585.6	2602.3
10°	2573.0	2606.8	2567.0	2553.0	2564.9
12.5°	2539.0	2571.1	2532.9	2510.8	2521.1
15°	2483.8	2505.6	2467.5	2443.3	2447.2
17.5°	2423.7	2437.2	2382.3	2361.9	2357.9
20°	2378.2	2390.1	2325.5	2297.0	2293.0
22.5°	2319.8	2330.1	2262.2	2227.1	2221.6
25°	2232.1	2234.1	2169.2	2120.3	2108.4
27.5°	2140.4	2134.1	2062.1	2004.1	1988.6
30°	2073.9	2065.9	1982.5	1921.3	1907.5
32.5°	2002.4	1988.1	1904.6	1838.6	1824.7
35°	1897.3	1875.5	1787.7	1718.4	1702.5
37.5°	1785.3	1760.7	1674.5	1599.0	1581.2
40°	1710.6	1682.8	1595.0	1519.5	1501.6
42.5°	1636.0	1605.0	1515.4	1439.9	1420.4
45°	1519.9	1488.1	1398.1	1324.6	1304.8
47.5°	1409.5	1369.0	1281.7	1208.6	1188.7
50°	1333.2	1289.5	1205.4	1133.9	1114.0
52.5°	1255.3	1210.0	1129.1	1060.8	1041.0
55°	1136.4	1094.7	1014.6	951.3	933.4
57.5°	1018.7	978.6	905.4	845.0	827.5
60°	937.5	903.8	834.0	776.8	761.0
62.5°	859.6	829.0	762.6	710.3	694.4
65°	744.7	716.9	657.5	610.5	598.6
67.5°	633.1	605.3	557.2	515.1	501.6
70°	560.1	532.3	489.0	450.2	438.3
72.5°	490.3	460.9	425.7	390.2	381.5
75°	385.6	361.7	334.8	308.3	300.3
77.5°	293.0	270.0	250.4	231.7	229.7
80°	231.3	211.5	196.8	184.6	182.6
82.5°	172.9	157.8	148.1	139.2	138.8
85°	89.3	83.3	81.2	70.9	67.0
87.5°	26.0	26.0	22.7	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.0	21.5	8.7	8.7	8.7
95°	48.7	122.8	37.9	27.1	27.1
97.5°	101.8	294.4	204.6	55.0	47.6
100°	140.7	426.5	351.8	80.8	64.9
102.5°	179.7	541.7	555.3	128.2	99.6
105°	238.1	666.8	963.4	241.7	162.4
107.5°	295.5	748.5	1476.5	498.8	300.9
110°	330.1	795.8	1861.8	777.7	465.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.8	843.2	2074.0	1246.6	803.2
115°	411.3	908.8	2197.4	2045.6	1558.7
117.5°	450.3	968.9	2303.5	2529.7	2386.8
120°	476.3	1016.1	2359.7	2599.0	2646.6
122.5°	502.3	1050.5	2390.1	2625.9	2715.9
125°	535.8	1102.1	2397.6	2728.1	2744.0
127.5°	569.4	1140.9	2433.4	2822.1	2829.5
130°	595.3	1166.9	2468.0	2853.6	2911.8
132.5°	625.7	1188.7	2481.0	2871.6	2959.4
135°	671.1	1221.5	2403.0	2813.7	3020.0
137.5°	728.5	1245.0	2328.4	2812.0	2945.4
140°	763.1	1250.0	2289.4	2874.2	2884.7
142.5°	802.1	1263.6	2280.7	2867.3	2958.3
145°	860.5	1283.9	2267.7	2733.3	2976.7
147.5°	919.0	1296.8	2217.9	2585.4	2798.1
150°	958.0	1301.9	2170.3	2535.9	2668.2
152.5°	996.9	1307.0	2109.7	2505.2	2616.3
155°	1044.6	1309.2	2018.8	2433.0	2560.0
157.5°	1094.4	1302.9	1909.4	2301.2	2439.8
160°	1120.3	1295.0	1840.2	2205.6	2327.3
162.5°	1146.3	1291.3	1779.6	2080.5	2223.4
165°	1185.3	1296.4	1629.1	1918.0	2007.9
167.5°	1211.3	1291.7	1488.4	1725.1	1852.1
170°	1228.6	1292.1	1401.8	1577.4	1683.2
172.5°	1241.6	1271.2	1349.8	1442.4	1514.4
175°	1255.6	1271.5	1293.5	1315.8	1342.2
177.5°	1260.0	1268.4	1251.3	1247.2	1255.6
180°	1255.6	1255.6	1255.6	1255.6	1255.6

(END OF REPORT)