

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: P1056986

Luminaire Tested: CB2-B-085U-030D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056986
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-030D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 300 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: 10369.9 lumens
Efficiency: N/A
Efficacy: 136.4 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

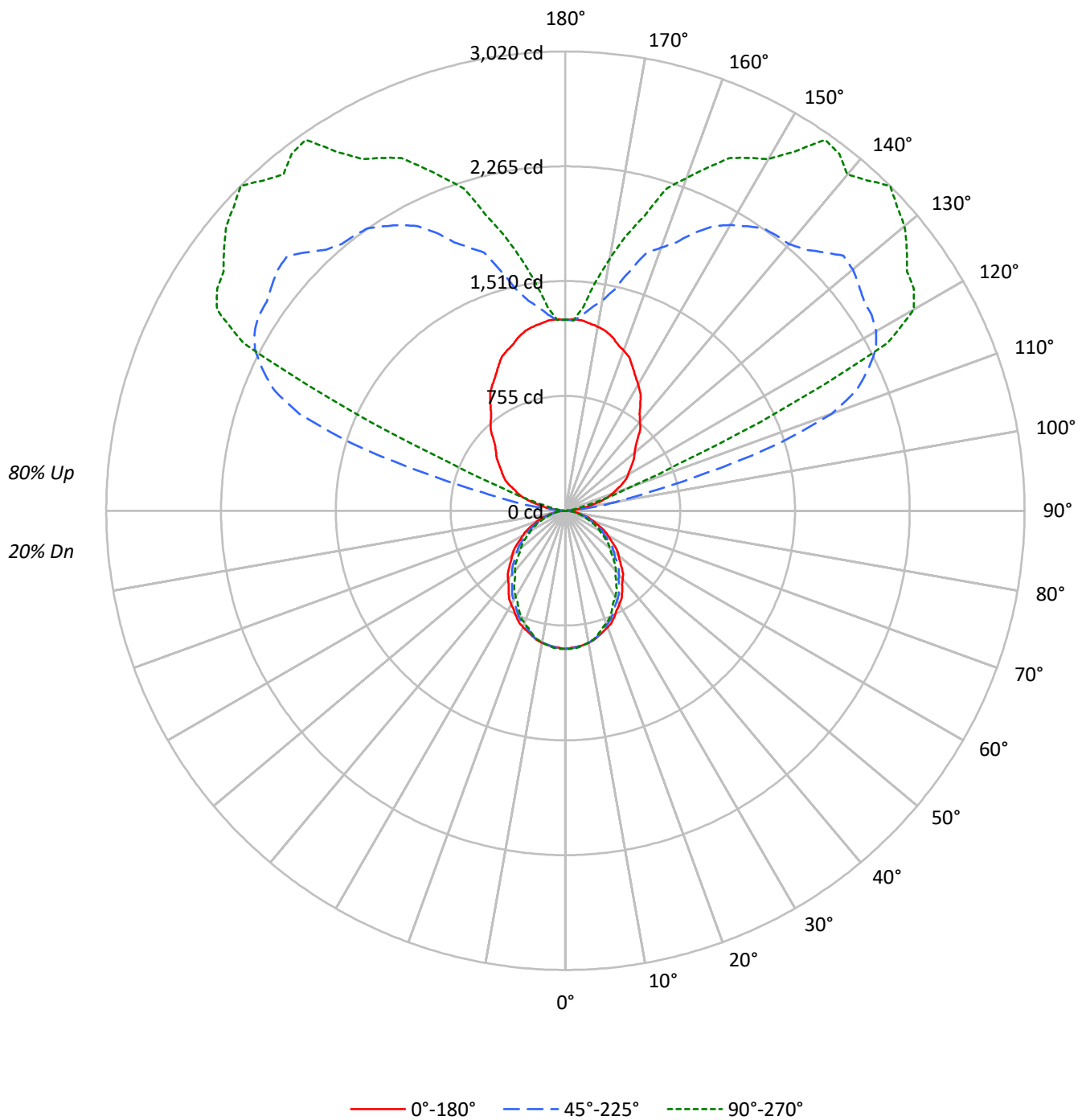
Input Watts (W): 76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P1056986

CATALOG NUMBER: CB2-B-085U-030D-830-1D-UNV-STD-W-8

Luminous Intensity Polar Plot



TEST NUMBER: P1056986

CATALOG NUMBER: CB2-B-085U-030D-830-1D-UNV-STD-W-8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20					20				20
RC	80				70				50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	20
1	91	87	83	80	81	77	74	71	59	57	55	41	40	39	26	25	25	17
2	83	76	70	65	73	68	63	59	51	48	45	36	34	33	23	22	21	15
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	13
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	9
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	8
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	7
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7915	7915	7915
5°	7848	7860	7915
10°	7803	7785	7778
15°	7680	7629	7567
20°	7559	7391	7288
25°	7356	7148	6947
30°	7152	6837	6579
35°	6918	6518	6208
40°	6669	6218	5855
45°	6419	5905	5511
50°	6194	5601	5177
55°	5917	5284	4860
60°	5600	4981	4546
65°	5263	4647	4231
70°	4891	4270	3827
75°	4448	3863	3466
80°	3977	3385	3139
85°	3058	2778	2298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6419 cd/sqm

TEST NUMBER: P1056986

CATALOG NUMBER: CB2-B-085U-030D-830-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	0.8
10°-20°	238.2	2.3
20°-30°	342.6	3.3
30°-40°	385.0	3.7
40°-50°	371.9	3.6
50°-60°	314.3	3.0
60°-70°	225.7	2.2
70°-80°	123.4	1.2
80°-90°	32.8	0.3
90°-100°	94.1	0.9
100°-110°	582.6	5.6
110°-120°	1469.3	14.2
120°-130°	1766.2	17.0
130°-140°	1601.4	15.4
140°-150°	1277.0	12.3
150°-160°	871.1	8.4
160°-170°	460.7	4.4
170°-180°	128.2	1.2
0°-30°	666.3	6.4
0°-40°	1051.3	10.1
0°-60°	1737.5	16.8
0°-90°	2119.3	20.4
90°-120°	2146.0	20.7
90°-150°	6790.6	65.5
90°-180°	8251.0	79.6
0°-180°	10369.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	898	910	899	899	905	85
15°	852	859	846	838	839	240
25°	766	766	744	727	723	352
35°	651	643	613	589	584	406
45°	521	510	480	454	448	403
55°	390	375	348	326	320	348
65°	255	246	226	209	205	253
75°	132	124	115	106	103	141
85°	31	29	28	24	23	36
90°	0	0	0	0	0	3
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	

TEST NUMBER: P1056986

CATALOG NUMBER: CB2-B-085U-030D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.9	908.9	908.9	908.9	908.9
2.5°	902.7	913.6	905.5	906.7	908.3
5°	897.7	910.0	899.1	899.2	905.4
7.5°	891.3	902.9	889.2	886.7	892.4
10°	882.4	894.0	880.3	875.5	879.6
12.5°	870.7	881.7	868.6	861.1	864.6
15°	851.8	859.3	846.2	837.9	839.3
17.5°	831.2	835.8	817.0	810.0	808.6
20°	815.6	819.7	797.5	787.7	786.4
22.5°	795.6	799.1	775.8	763.8	761.9
25°	765.5	766.2	743.9	727.1	723.0
27.5°	734.0	731.9	707.2	687.3	682.0
30°	711.2	708.5	679.9	658.9	654.2
32.5°	686.7	681.8	653.2	630.5	625.8
35°	650.7	643.2	613.1	589.3	583.9
37.5°	612.3	603.8	574.3	548.4	542.2
40°	586.6	577.1	547.0	521.1	515.0
42.5°	561.0	550.4	519.7	493.8	487.1
45°	521.2	510.3	479.5	454.3	447.5
47.5°	483.4	469.5	439.5	414.5	407.7
50°	457.2	442.2	413.4	388.9	382.1
52.5°	430.5	415.0	387.2	363.8	357.0
55°	389.7	375.4	348.0	326.2	320.1
57.5°	349.3	335.6	310.5	289.8	283.8
60°	321.5	309.9	286.0	266.4	261.0
62.5°	294.8	284.3	261.5	243.6	238.1
65°	255.4	245.9	225.5	209.4	205.3
67.5°	217.1	207.6	191.1	176.7	172.0
70°	192.1	182.5	167.7	154.4	150.3
72.5°	168.1	158.1	146.0	133.8	130.8
75°	132.2	124.1	114.8	105.7	103.0
77.5°	100.5	92.6	85.9	79.5	78.8
80°	79.3	72.5	67.5	63.3	62.6
82.5°	59.3	54.1	50.8	47.7	47.6
85°	30.6	28.6	27.8	24.3	23.0
87.5°	8.9	8.9	7.8	6.7	6.7
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

TEST NUMBER: P1056986

CATALOG NUMBER: CB2-B-085U-030D-830-1D-UNV-STD-W-8

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)