

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: P1056995

Luminaire Tested: CB2-B-085U-120D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056995
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17048.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

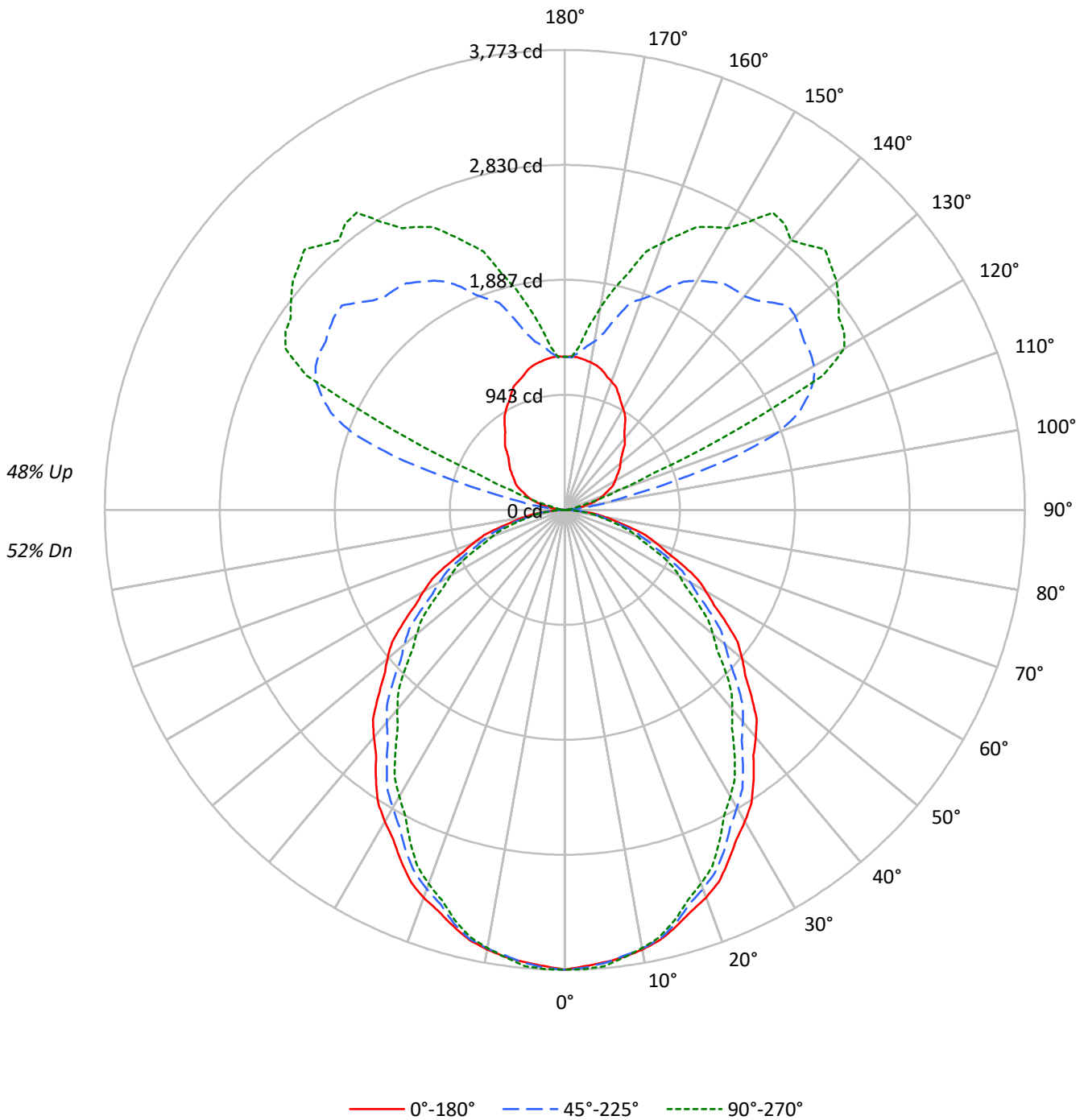
Input Watts (W): 146
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52				
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44				
2	90	82	76	71	83	76	71	67	65	61	58	55	52	50	45	43	42	37				
3	82	73	65	60	75	67	61	56	58	53	49	49	45	42	40	38	36	32				
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27				
5	69	57	49	43	64	54	46	41	46	40	36	39	35	32	33	30	27	24				
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21				
7	59	47	39	33	54	44	37	31	38	32	28	32	28	25	27	24	21	19				
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17				
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15				
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32854	32854	32854
5°	32576	32627	32854
10°	32391	32314	32288
15°	31878	31669	31410
20°	31375	30679	30251
25°	30533	29672	28840
30°	29687	28381	27306
35°	28714	27056	25766
40°	27684	25812	24301
45°	26647	24512	22876
50°	25713	23248	21486
55°	24562	21929	20175
60°	23245	20680	18868
65°	21845	19286	17561
70°	20301	17727	15889
75°	18469	16037	14384
80°	16515	14052	13039
85°	12700	11541	9522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26647 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	2.1
10°-20°	988.9	5.8
20°-30°	1421.9	8.3
30°-40°	1598.2	9.4
40°-50°	1543.9	9.1
50°-60°	1304.5	7.7
60°-70°	937.0	5.5
70°-80°	512.1	3.0
80°-90°	136.0	0.8
90°-100°	94.1	0.6
100°-110°	582.6	3.4
110°-120°	1469.3	8.6
120°-130°	1766.2	10.4
130°-140°	1601.4	9.4
140°-150°	1277.0	7.5
150°-160°	871.1	5.1
160°-170°	460.7	2.7
170°-180°	128.2	0.8
0°-30°	2765.7	16.2
0°-40°	4363.9	25.6
0°-60°	7212.3	42.3
0°-90°	8797.4	51.6
90°-120°	2146.0	12.6
90°-150°	6790.6	39.8
90°-180°	8251.0	48.4
0°-180°	17048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3773	3773	3773	3773	3773	
5°	3726	3777	3732	3733	3758	354
15°	3536	3567	3513	3478	3484	997
25°	3178	3180	3088	3018	3001	1463
35°	2701	2670	2545	2446	2424	1687
45°	2164	2118	1990	1886	1857	1672
55°	1618	1558	1444	1354	1329	1446
65°	1060	1021	936	869	852	1051
75°	549	515	477	439	428	587
85°	127	119	116	101	95	151
90°	0	0	0	0	0	7
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°	3772.6	3772.6	3772.6	3772.6	3772.6
2.5°	3747.2	3792.4	3758.8	3763.5	3770.3
5°	3726.4	3777.3	3732.2	3732.8	3758.2
7.5°	3699.8	3747.9	3691.2	3680.7	3704.5
10°	3662.9	3710.9	3654.2	3634.4	3651.3
12.5°	3614.3	3660.1	3605.7	3574.2	3588.9
15°	3535.8	3566.8	3512.6	3478.1	3483.8
17.5°	3450.3	3469.5	3391.3	3362.3	3356.7
20°	3385.5	3402.5	3310.4	3269.9	3264.2
22.5°	3302.4	3317.0	3220.3	3170.4	3162.5
25°	3177.6	3180.4	3088.0	3018.3	3001.4
27.5°	3047.0	3038.0	2935.5	2852.9	2830.9
30°	2952.2	2940.9	2822.3	2735.1	2715.4
32.5°	2850.6	2830.2	2711.3	2617.3	2597.5
35°	2700.9	2669.9	2544.9	2446.2	2423.6
37.5°	2541.5	2506.4	2383.7	2276.3	2250.9
40°	2435.2	2395.6	2270.5	2163.1	2137.6
42.5°	2328.9	2284.8	2157.3	2049.8	2022.1
45°	2163.6	2118.4	1990.3	1885.7	1857.4
47.5°	2006.5	1948.9	1824.5	1720.4	1692.2
50°	1897.9	1835.7	1715.9	1614.1	1585.9
52.5°	1786.9	1722.5	1607.3	1510.1	1481.9
55°	1617.7	1558.4	1444.3	1354.2	1328.8
57.5°	1450.1	1393.1	1288.9	1202.9	1178.0
60°	1334.6	1286.6	1187.3	1105.9	1083.3
62.5°	1223.6	1180.2	1085.6	1011.1	988.5
65°	1060.1	1020.6	935.9	869.1	852.2
67.5°	901.3	861.7	793.2	733.3	714.1
70°	797.3	757.7	696.2	640.9	624.0
72.5°	697.9	656.1	606.0	555.5	543.1
75°	548.9	515.0	476.6	438.8	427.5
77.5°	417.1	384.4	356.5	329.8	327.0
80°	329.3	301.1	280.2	262.8	260.0
82.5°	246.1	224.7	210.9	198.2	197.6
85°	127.1	118.6	115.5	101.0	95.3
87.5°	37.0	37.0	32.4	27.7	27.7
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



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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)