

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: P1056987

Luminaire Tested: CB2-B-085U-030D-835-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056987
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11313.8 lumens
Efficiency: N/A
Efficacy: 148.9 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

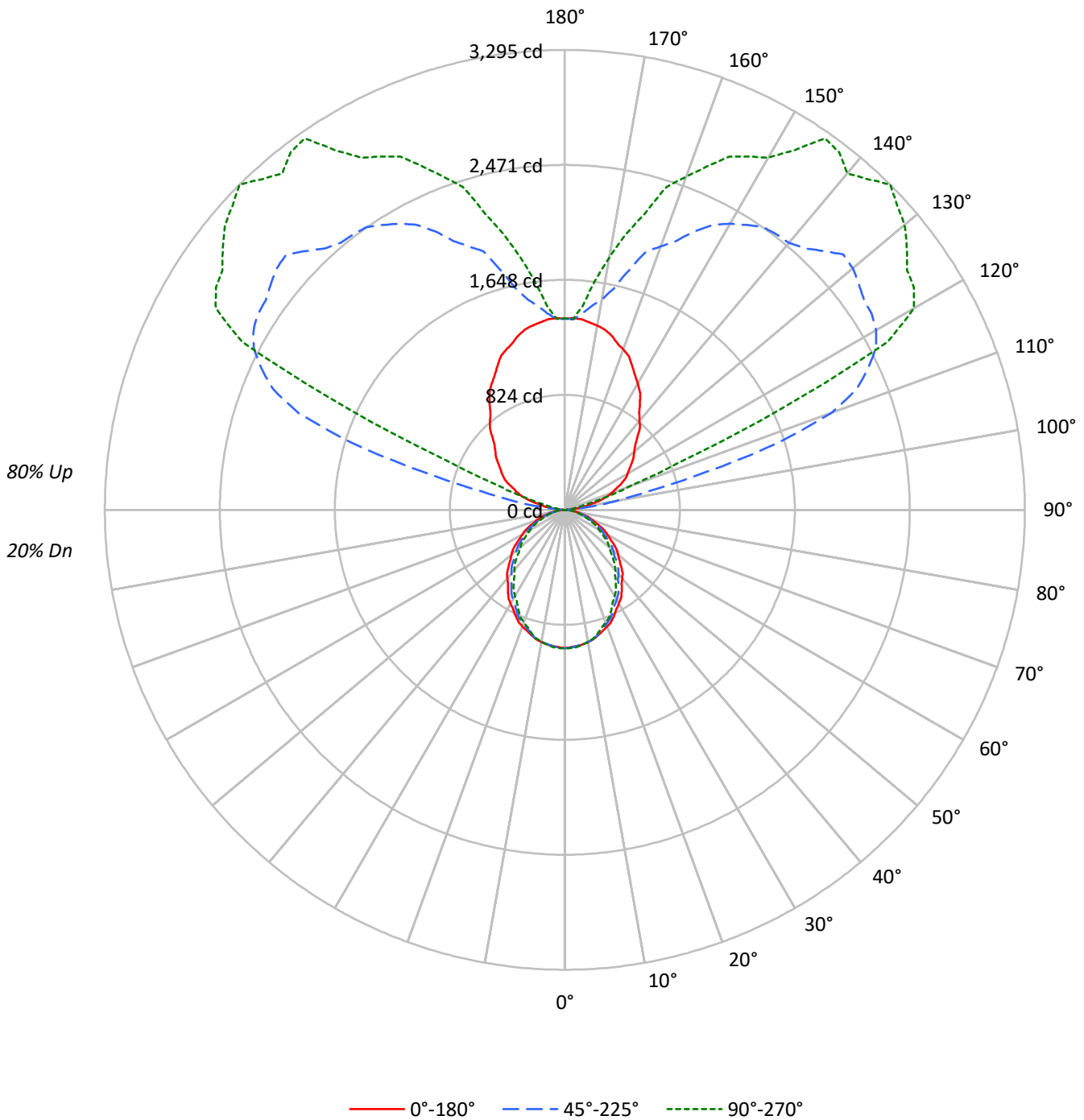
Input Watts (W): 76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	8636	8636	8636
5°	8562	8576	8635
10°	8513	8494	8487
15°	8378	8323	8256
20°	8246	8064	7952
25°	8025	7799	7581
30°	7803	7459	7177
35°	7547	7111	6772
40°	7276	6785	6387
45°	7004	6442	6013
50°	6758	6110	5647
55°	6456	5764	5303
60°	6110	5436	4959
65°	5741	5069	4616
70°	5337	4660	4176
75°	4855	4216	3782
80°	4343	3691	3425
85°	3337	3038	2508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7004 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	0.8
10°-20°	259.9	2.3
20°-30°	373.7	3.3
30°-40°	420.1	3.7
40°-50°	405.8	3.6
50°-60°	342.9	3.0
60°-70°	246.3	2.2
70°-80°	134.6	1.2
80°-90°	35.7	0.3
90°-100°	102.6	0.9
100°-110°	635.7	5.6
110°-120°	1603.0	14.2
120°-130°	1927.0	17.0
130°-140°	1747.2	15.4
140°-150°	1393.2	12.3
150°-160°	950.4	8.4
160°-170°	502.6	4.4
170°-180°	139.9	1.2
0°-30°	726.9	6.4
0°-40°	1147.0	10.1
0°-60°	1895.6	16.8
0°-90°	2312.3	20.4
90°-120°	2341.3	20.7
90°-150°	7408.7	65.5
90°-180°	9002.0	79.6
0°-180°	11313.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	979	993	981	981	988	93
15°	929	938	923	914	916	262
25°	835	836	812	793	789	384
35°	710	702	669	643	637	443
45°	569	557	523	496	488	439
55°	425	410	380	356	349	380
65°	279	268	246	228	224	276
75°	144	135	125	115	112	154
85°	33	31	30	26	25	40
90°	0	0	0	0	0	3
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°	991.6	991.6	991.6	991.6	991.6
2.5°	984.9	996.8	987.9	989.2	991.0
5°	979.4	992.8	981.0	981.1	987.8
7.5°	972.4	985.1	970.2	967.4	973.7
10°	962.7	975.3	960.5	955.2	959.7
12.5°	950.0	962.0	947.7	939.4	943.3
15°	929.3	937.5	923.2	914.2	915.7
17.5°	906.8	911.9	891.4	883.7	882.2
20°	889.8	894.3	870.1	859.4	858.0
22.5°	868.0	871.8	846.4	833.3	831.2
25°	835.2	835.9	811.6	793.3	788.9
27.5°	800.9	798.5	771.5	749.9	744.1
30°	776.0	773.0	741.8	718.9	713.7
32.5°	749.2	743.9	712.6	687.9	682.7
35°	709.9	701.7	668.9	642.9	637.0
37.5°	668.0	658.8	626.5	598.3	591.6
40°	640.0	629.7	596.8	568.5	561.8
42.5°	612.1	600.5	567.0	538.8	531.5
45°	568.7	556.8	523.1	495.6	488.2
47.5°	527.4	512.2	479.5	452.2	444.8
50°	498.8	482.5	451.0	424.3	416.8
52.5°	469.7	452.7	422.4	396.9	389.5
55°	425.2	409.6	379.6	355.9	349.3
57.5°	381.1	366.1	338.8	316.2	309.6
60°	350.8	338.2	312.1	290.7	284.7
62.5°	321.6	310.2	285.3	265.8	259.8
65°	278.6	268.3	246.0	228.4	224.0
67.5°	236.9	226.5	208.5	192.7	187.7
70°	209.6	199.2	183.0	168.5	164.0
72.5°	183.4	172.4	159.3	146.0	142.7
75°	144.3	135.3	125.3	115.3	112.4
77.5°	109.6	101.0	93.7	86.7	85.9
80°	86.6	79.1	73.6	69.1	68.3
82.5°	64.7	59.0	55.4	52.1	51.9
85°	33.4	31.2	30.4	26.5	25.1
87.5°	9.7	9.7	8.5	7.3	7.3
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)