

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: P1056988

Luminaire Tested: CB2-B-085U-030D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056988
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11163.0 lumens
Efficiency: N/A
Efficacy: 146.9 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

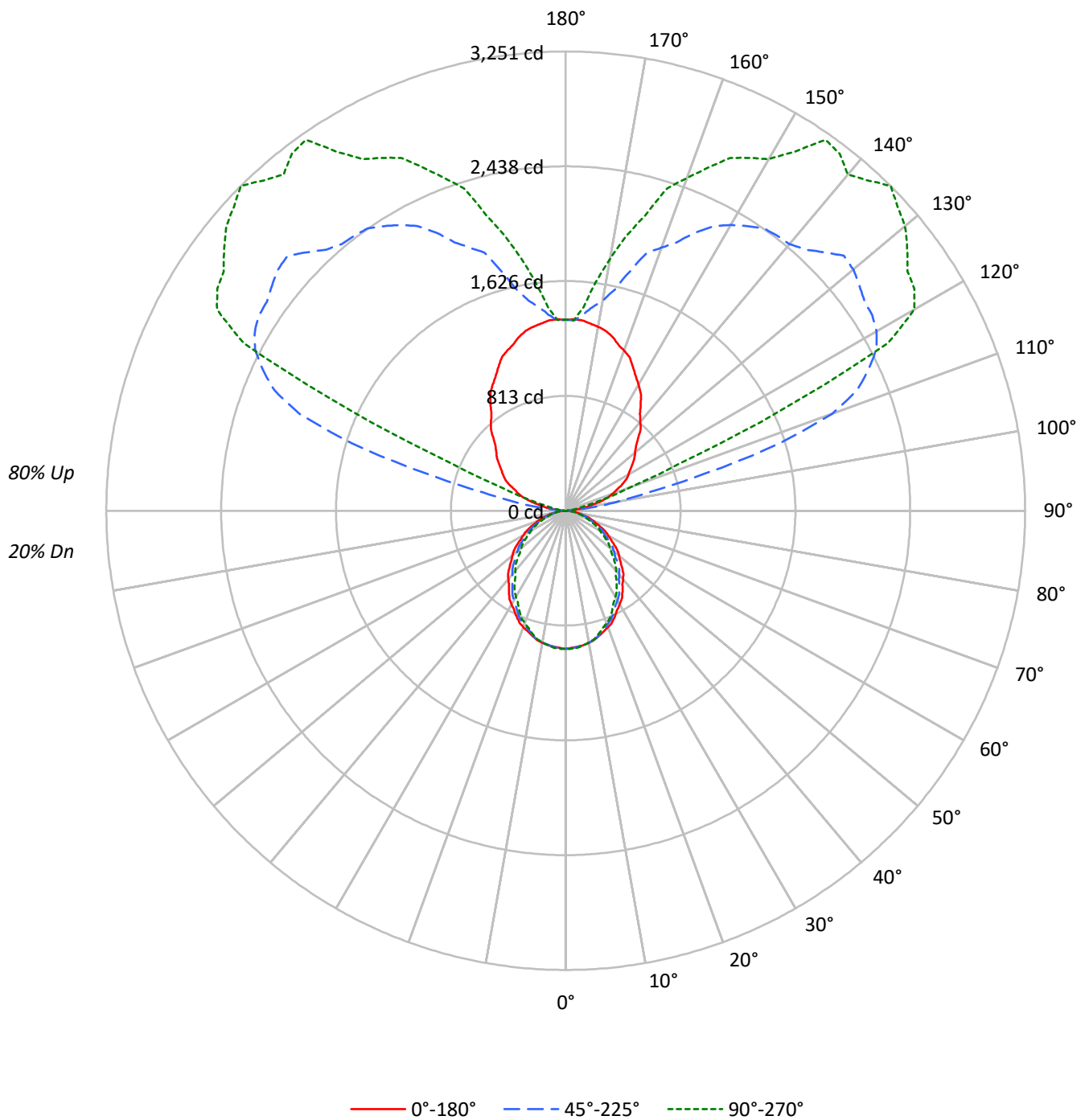
Input Watts (W): 76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8521	8521	8521
5°	8448	8461	8520
10°	8400	8380	8373
15°	8267	8213	8145
20°	8137	7956	7845
25°	7918	7695	7479
30°	7699	7360	7081
35°	7446	7017	6682
40°	7179	6694	6303
45°	6910	6356	5933
50°	6668	6029	5572
55°	6369	5688	5232
60°	6028	5363	4893
65°	5665	5001	4554
70°	5266	4596	4120
75°	4788	4159	3732
80°	4283	3646	3380
85°	3297	2998	2468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	0.8
10°-20°	256.5	2.3
20°-30°	368.8	3.3
30°-40°	414.5	3.7
40°-50°	400.4	3.6
50°-60°	338.3	3.0
60°-70°	243.0	2.2
70°-80°	132.8	1.2
80°-90°	35.3	0.3
90°-100°	101.3	0.9
100°-110°	627.2	5.6
110°-120°	1581.7	14.2
120°-130°	1901.3	17.0
130°-140°	1723.9	15.4
140°-150°	1374.6	12.3
150°-160°	937.7	8.4
160°-170°	495.9	4.4
170°-180°	138.0	1.2
0°-30°	717.2	6.4
0°-40°	1131.7	10.1
0°-60°	1870.4	16.8
0°-90°	2281.4	20.4
90°-120°	2310.1	20.7
90°-150°	7309.9	65.5
90°-180°	8882.0	79.6
0°-180°	11163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	966	980	968	968	975	92
15°	917	925	911	902	903	258
25°	824	825	801	783	778	379
35°	700	692	660	634	628	438
45°	561	549	516	489	482	433
55°	420	404	375	351	345	375
65°	275	265	243	225	221	273
75°	142	134	124	114	111	152
85°	33	31	30	26	25	39
90°	0	0	0	0	0	3
95°	52	132	41	29	29	66
105°	256	718	1037	260	175	269
115°	443	978	2365	2202	1678	434
125°	577	1186	2581	2937	2954	516
135°	722	1315	2587	3029	3251	562
145°	926	1382	2441	2942	3204	579
155°	1124	1409	2173	2619	2756	518
165°	1276	1396	1754	2065	2162	358
175°	1352	1369	1392	1416	1445	128
180°	1352	1352	1352	1352	1352	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.4	978.4	978.4	978.4	978.4
2.5°	971.8	983.5	974.8	976.0	977.8
5°	966.4	979.6	967.9	968.0	974.6
7.5°	959.5	971.9	957.2	954.5	960.7
10°	949.9	962.3	947.6	942.5	946.9
12.5°	937.3	949.2	935.1	926.9	930.7
15°	916.9	925.0	910.9	902.0	903.4
17.5°	894.8	899.7	879.5	872.0	870.5
20°	878.0	882.4	858.5	848.0	846.5
22.5°	856.4	860.2	835.1	822.2	820.1
25°	824.0	824.8	800.8	782.7	778.3
27.5°	790.2	787.8	761.3	739.9	734.1
30°	765.6	762.7	731.9	709.3	704.2
32.5°	739.2	734.0	703.1	678.7	673.6
35°	700.4	692.4	660.0	634.4	628.5
37.5°	659.1	650.0	618.2	590.3	583.7
40°	631.5	621.3	588.8	560.9	554.4
42.5°	603.9	592.5	559.4	531.6	524.4
45°	561.1	549.4	516.1	489.0	481.7
47.5°	520.3	505.4	473.1	446.2	438.8
50°	492.2	476.1	445.0	418.6	411.3
52.5°	463.4	446.7	416.8	391.6	384.3
55°	419.5	404.1	374.6	351.2	344.6
57.5°	376.1	361.3	334.3	311.9	305.5
60°	346.1	333.6	307.9	286.8	280.9
62.5°	317.3	306.1	281.5	262.2	256.4
65°	274.9	264.7	242.7	225.4	221.0
67.5°	233.7	223.5	205.7	190.2	185.2
70°	206.8	196.5	180.5	166.2	161.8
72.5°	181.0	170.1	157.2	144.1	140.8
75°	142.3	133.5	123.6	113.8	110.9
77.5°	108.2	99.7	92.4	85.5	84.8
80°	85.4	78.1	72.7	68.2	67.4
82.5°	63.8	58.3	54.7	51.4	51.2
85°	33.0	30.8	30.0	26.2	24.7
87.5°	9.6	9.6	8.4	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.0	23.1	9.3	9.3	9.3
95°	52.4	132.2	40.8	29.1	29.1
97.5°	109.5	316.9	220.2	59.2	51.3
100°	151.5	459.1	378.7	87.0	69.9
102.5°	193.4	583.1	597.8	138.0	107.2
105°	256.4	717.8	1037.1	260.2	174.8
107.5°	318.1	805.7	1589.4	537.0	323.9
110°	355.4	856.7	2004.2	837.2	501.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	392.7	907.7	2232.6	1342.0	864.6
115°	442.8	978.3	2365.4	2202.0	1677.9
117.5°	484.7	1043.0	2479.6	2723.2	2569.4
120°	512.7	1093.8	2540.2	2797.7	2849.0
122.5°	540.7	1130.9	2572.8	2826.7	2923.6
125°	576.8	1186.3	2581.0	2936.8	2953.9
127.5°	612.9	1228.2	2619.5	3038.0	3045.9
130°	640.9	1256.1	2656.7	3071.8	3134.5
132.5°	673.5	1279.6	2670.7	3091.2	3185.8
135°	722.4	1314.9	2586.8	3028.8	3251.0
137.5°	784.2	1340.2	2506.4	3027.1	3170.6
140°	821.5	1345.6	2464.5	3094.0	3105.4
142.5°	863.4	1360.2	2455.2	3086.6	3184.6
145°	926.4	1382.1	2441.2	2942.4	3204.4
147.5°	989.3	1396.0	2387.6	2783.1	3012.1
150°	1031.2	1401.5	2336.3	2729.9	2872.3
152.5°	1073.2	1407.0	2271.1	2696.8	2816.4
155°	1124.5	1409.3	2173.2	2619.1	2755.8
157.5°	1178.1	1402.5	2055.5	2477.2	2626.4
160°	1206.0	1394.0	1980.9	2374.2	2505.3
162.5°	1234.0	1390.1	1915.7	2239.6	2393.4
165°	1275.9	1395.6	1753.7	2064.7	2161.5
167.5°	1303.9	1390.5	1602.2	1857.0	1993.7
170°	1322.5	1390.9	1509.0	1698.0	1811.9
172.5°	1336.5	1368.4	1453.1	1552.7	1630.2
175°	1351.7	1368.8	1392.5	1416.4	1444.9
177.5°	1356.3	1365.5	1347.0	1342.6	1351.7
180°	1351.7	1351.7	1351.7	1351.7	1351.7

(END OF REPORT)