

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: P1056985

Luminaire Tested: CB2-B-055U-120D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056985
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-055U-120D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15356.2 lumens
Efficiency: N/A
Efficacy: 121.6 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-Direct

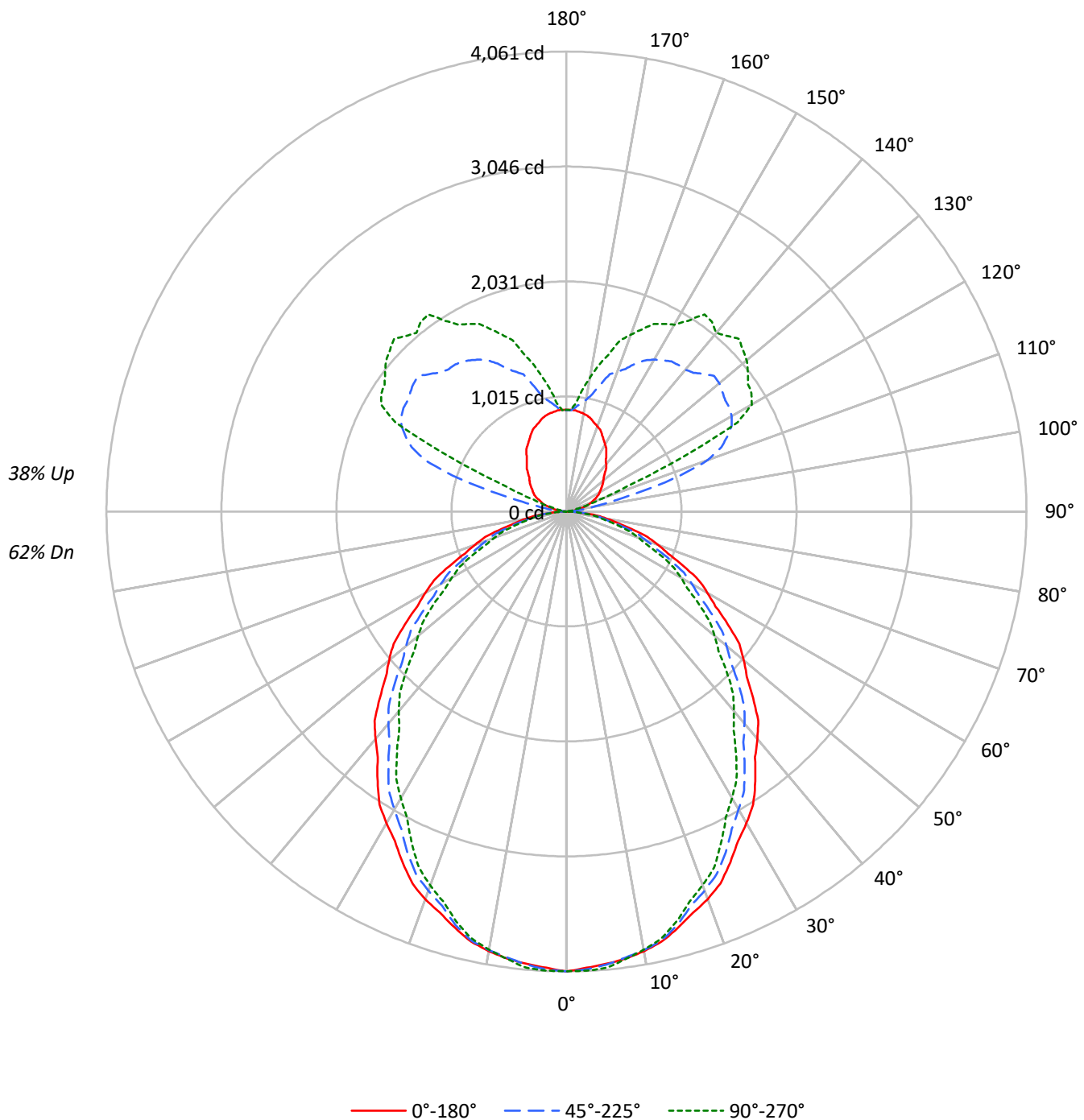
Input Watts (W): 126.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	70	65	62	61	58	55	53	50	48	44
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	41	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	45	39	34	39	35	31	35	31	28	25
7	61	48	40	34	57	46	38	33	41	35	30	36	31	28	32	28	25	22
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35368	35368	35368
5°	35067	35122	35366
10°	34868	34786	34758
15°	34316	34092	33811
20°	33776	33026	32565
25°	32868	31942	31046
30°	31958	30551	29393
35°	30911	29126	27737
40°	29801	27787	26160
45°	28685	26387	24626
50°	27679	25025	23130
55°	26440	23607	21718
60°	25022	22261	20310
65°	23516	20761	18902
70°	21854	19082	17103
75°	19879	17265	15485
80°	17779	15126	14037
85°	13669	12430	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	2.5
10°-20°	1064.6	6.9
20°-30°	1530.7	10.0
30°-40°	1720.5	11.2
40°-50°	1662.0	10.8
50°-60°	1404.2	9.1
60°-70°	1008.6	6.6
70°-80°	551.3	3.6
80°-90°	146.4	1.0
90°-100°	67.1	0.4
100°-110°	415.7	2.7
110°-120°	1048.2	6.8
120°-130°	1260.0	8.2
130°-140°	1142.4	7.4
140°-150°	911.0	5.9
150°-160°	621.4	4.0
160°-170°	328.7	2.1
170°-180°	91.5	0.6
0°-30°	2977.2	19.4
0°-40°	4697.7	30.6
0°-60°	7763.9	50.6
0°-90°	9470.2	61.7
90°-120°	1531.0	10.0
90°-150°	4844.5	31.5
90°-180°	5886.0	38.3
0°-180°	15356.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4061	4061	4061	4061	4061	
5°	4011	4066	4018	4018	4046	381
15°	3806	3840	3781	3744	3750	1073
25°	3421	3424	3324	3249	3231	1575
35°	2908	2874	2740	2633	2609	1816
45°	2329	2280	2142	2030	2000	1799
55°	1741	1678	1555	1458	1430	1557
65°	1141	1099	1008	936	917	1132
75°	591	554	513	472	460	632
85°	137	128	124	109	103	163
90°	0	0	0	0	0	7
95°	35	88	27	19	19	44
105°	170	476	687	172	116	178
115°	293	648	1568	1459	1112	288
125°	382	786	1710	1946	1958	342
135°	479	871	1714	2007	2154	372
145°	614	916	1618	1950	2124	384
155°	745	934	1440	1736	1826	343
165°	846	925	1162	1368	1432	237
175°	896	907	923	939	958	85
180°	896	896	896	896	896	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4061.2	4061.2	4061.2	4061.2	4061.2
2.5°	4033.8	4082.4	4046.2	4051.4	4058.7
5°	4011.4	4066.1	4017.6	4018.3	4045.6
7.5°	3982.8	4034.5	3973.5	3962.2	3987.8
10°	3943.0	3994.7	3933.7	3912.3	3930.6
12.5°	3890.8	3940.0	3881.4	3847.6	3863.4
15°	3806.2	3839.6	3781.3	3744.1	3750.2
17.5°	3714.1	3734.8	3650.7	3619.5	3613.4
20°	3644.5	3662.7	3563.6	3520.0	3513.9
22.5°	3554.9	3570.7	3466.6	3412.9	3404.4
25°	3420.6	3423.6	3324.2	3249.1	3230.9
27.5°	3280.0	3270.3	3160.0	3071.1	3047.4
30°	3178.0	3165.9	3038.1	2944.3	2923.0
32.5°	3068.6	3046.7	2918.7	2817.5	2796.2
35°	2907.5	2874.0	2739.6	2633.3	2609.0
37.5°	2735.8	2698.1	2566.1	2450.4	2423.0
40°	2621.4	2578.8	2444.2	2328.5	2301.1
42.5°	2507.0	2459.5	2322.3	2206.5	2176.7
45°	2329.1	2280.5	2142.5	2029.9	1999.5
47.5°	2159.9	2097.9	1964.0	1852.0	1821.6
50°	2043.0	1976.1	1847.1	1737.6	1707.2
52.5°	1923.6	1854.3	1730.2	1625.6	1595.2
55°	1741.4	1677.5	1554.8	1457.8	1430.4
57.5°	1561.0	1499.6	1387.5	1294.9	1268.1
60°	1436.6	1385.0	1278.1	1190.4	1166.1
62.5°	1317.2	1270.4	1168.6	1088.4	1064.1
65°	1141.2	1098.7	1007.5	935.6	917.3
67.5°	970.2	927.6	853.9	789.4	768.7
70°	858.3	815.7	749.4	689.9	671.7
72.5°	751.3	706.3	652.4	598.0	584.6
75°	590.8	554.3	513.1	472.4	460.2
77.5°	449.0	413.8	383.7	355.0	352.0
80°	354.5	324.1	301.6	282.9	279.9
82.5°	264.9	241.8	227.0	213.3	212.7
85°	136.8	127.7	124.4	108.7	102.6
87.5°	39.8	39.8	34.8	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	9.3	15.3	6.2	6.2	6.2
95°	34.8	87.6	27.0	19.3	19.3
97.5°	72.6	210.0	146.0	39.3	34.0
100°	100.4	304.3	251.0	57.7	46.3
102.5°	128.2	386.4	396.2	91.4	71.0
105°	169.9	475.7	687.3	172.5	115.8
107.5°	210.8	534.0	1053.3	355.9	214.7
110°	235.5	567.8	1328.2	554.8	332.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.2	601.5	1479.6	889.4	573.0
115°	293.4	648.3	1567.6	1459.3	1112.0
117.5°	321.2	691.2	1643.3	1804.7	1702.8
120°	339.8	724.9	1683.5	1854.1	1888.1
122.5°	358.3	749.4	1705.1	1873.3	1937.5
125°	382.3	786.2	1710.5	1946.3	1957.6
127.5°	406.2	813.9	1736.0	2013.3	2018.6
130°	424.7	832.5	1760.7	2035.8	2077.3
132.5°	446.3	848.0	1769.9	2048.6	2111.3
135°	478.8	871.4	1714.3	2007.3	2154.5
137.5°	519.7	888.2	1661.1	2006.1	2101.2
140°	544.4	891.8	1633.3	2050.4	2058.0
142.5°	572.2	901.4	1627.1	2045.6	2110.5
145°	613.9	915.9	1617.8	1950.0	2123.6
147.5°	655.6	925.2	1582.3	1844.4	1996.2
150°	683.4	928.8	1548.3	1809.2	1903.5
152.5°	711.2	932.5	1505.1	1787.2	1866.5
155°	745.2	934.0	1440.2	1735.7	1826.3
157.5°	780.7	929.5	1362.2	1641.7	1740.6
160°	799.3	923.8	1312.8	1573.5	1660.3
162.5°	817.8	921.2	1269.5	1484.2	1586.2
165°	845.6	924.9	1162.2	1368.3	1432.5
167.5°	864.1	921.5	1061.8	1230.7	1321.3
170°	876.5	921.8	1000.0	1125.3	1200.8
172.5°	885.7	906.9	963.0	1029.0	1080.3
175°	895.8	907.1	922.8	938.7	957.6
177.5°	898.9	904.9	892.7	889.7	895.8
180°	895.8	895.8	895.8	895.8	895.8

(END OF REPORT)