

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: P1057066

Luminaire Tested: CB3R-085D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057066
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3R-085D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6652.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')
CIE Type: Direct

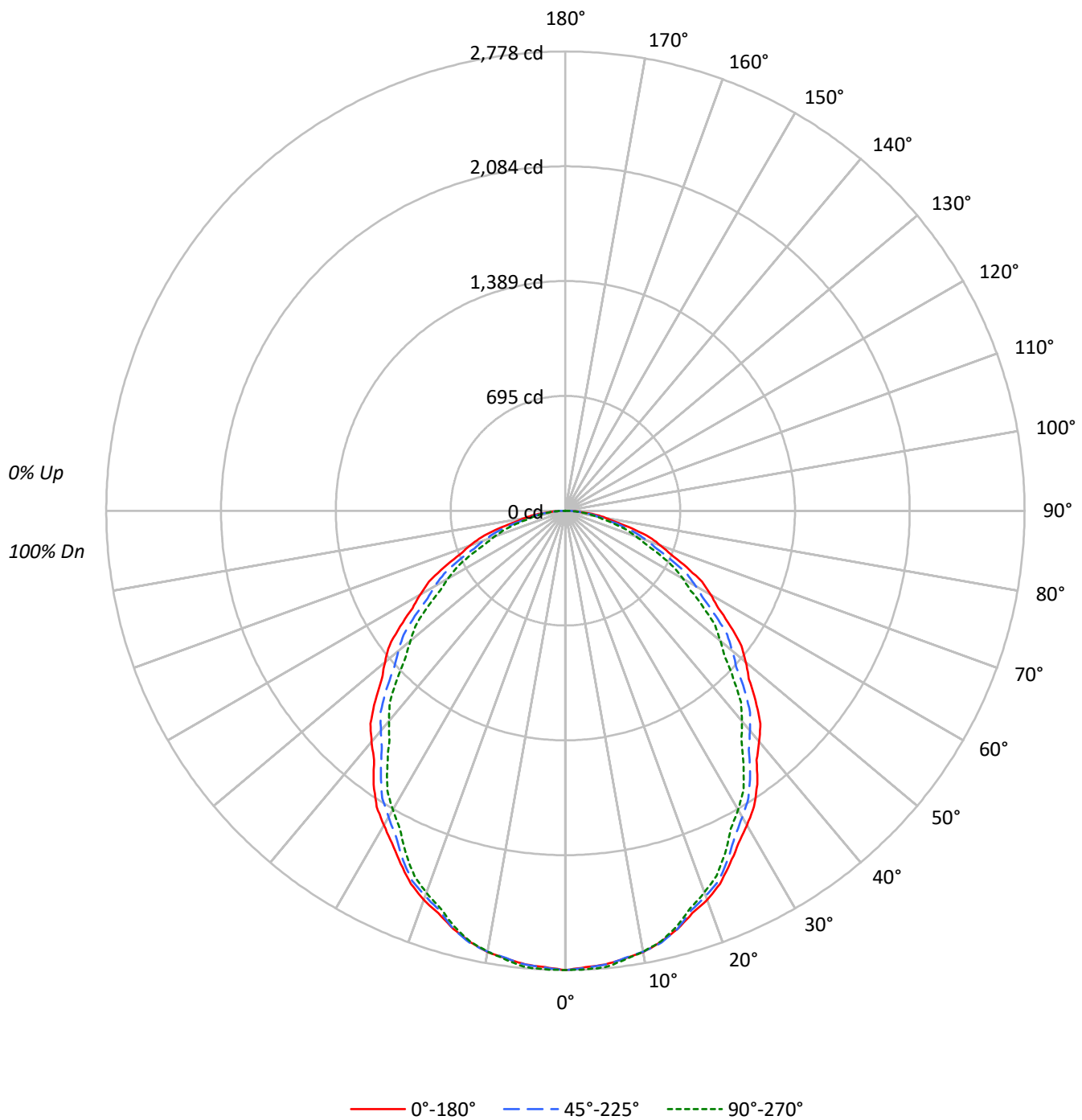
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15719	15719	15719
5°	15644	15656	15745
10°	15576	15553	15553
15°	15337	15337	15244
20°	15088	14933	14803
25°	14708	14523	14264
30°	14347	13974	13638
35°	13969	13451	12974
40°	13466	12824	12271
45°	13009	12267	11510
50°	12539	11602	10768
55°	12028	10958	10062
60°	11476	10293	9266
65°	10831	9536	8427
70°	10087	8649	7508
75°	9143	7591	6686
80°	7972	6366	5913
85°	6147	5381	5381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13009 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	3.9
10°-20°	736.5	11.1
20°-30°	1070.0	16.1
30°-40°	1216.6	18.3
40°-50°	1181.0	17.8
50°-60°	997.1	15.0
60°-70°	709.4	10.7
70°-80°	379.0	5.7
80°-90°	100.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2068.7	31.1
0°-40°	3285.3	49.4
0°-60°	5463.4	82.1
0°-90°	6652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2778	2778	2778	2778	2778	
5°	2755	2790	2757	2753	2772	261
15°	2619	2642	2619	2603	2603	738
25°	2356	2364	2327	2295	2285	1086
35°	2023	2003	1948	1890	1879	1260
45°	1626	1601	1533	1460	1439	1254
55°	1220	1187	1111	1040	1020	1090
65°	809	780	712	649	630	801
75°	418	395	347	312	306	446
85°	95	87	83	83	83	116
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2778.5	2778.5	2778.5	2778.5	2778.5
2.5°	2764.3	2792.0	2767.4	2770.7	2776.9
5°	2754.8	2789.5	2756.8	2753.2	2772.5
7.5°	2733.5	2765.1	2731.1	2723.2	2740.6
10°	2711.4	2746.1	2707.4	2697.8	2707.4
12.5°	2671.9	2708.2	2677.4	2661.4	2669.5
15°	2618.6	2641.8	2618.6	2602.8	2602.8
17.5°	2553.5	2577.8	2534.2	2523.0	2518.8
20°	2506.1	2527.4	2480.5	2464.6	2458.8
22.5°	2443.0	2462.7	2423.7	2396.6	2389.3
25°	2356.2	2363.9	2326.6	2294.8	2285.1
27.5°	2268.9	2270.9	2219.6	2181.0	2168.3
30°	2196.3	2198.3	2139.1	2097.4	2087.8
32.5°	2123.7	2117.9	2061.7	2012.3	2005.7
35°	2022.7	2003.4	1947.7	1890.2	1878.6
37.5°	1900.7	1889.1	1823.4	1765.7	1748.4
40°	1823.4	1804.1	1736.5	1678.9	1661.6
42.5°	1746.0	1723.6	1654.4	1590.5	1571.6
45°	1626.0	1600.9	1533.3	1459.8	1438.6
47.5°	1505.3	1477.9	1403.4	1332.3	1308.7
50°	1424.7	1395.8	1318.2	1248.6	1223.5
52.5°	1342.7	1312.2	1234.5	1163.4	1143.0
55°	1219.5	1186.7	1111.0	1039.5	1020.2
57.5°	1096.4	1064.0	988.6	921.0	897.9
60°	1014.3	983.4	909.7	842.1	818.9
62.5°	930.6	901.3	829.2	763.2	741.6
65°	809.1	780.1	712.4	648.8	629.5
67.5°	688.7	664.0	597.1	538.8	523.3
70°	609.8	586.6	522.9	469.3	453.9
72.5°	534.0	509.3	448.7	403.1	392.3
75°	418.3	395.2	347.3	311.7	305.9
77.5°	312.6	293.7	252.2	232.0	228.9
80°	244.7	227.3	195.4	181.5	181.5
82.5°	181.5	167.3	146.4	140.5	140.5
85°	94.7	87.0	82.9	82.9	82.9
87.5°	28.4	28.4	26.8	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)