

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: P1053646

Luminaire Tested: R6R8-50D-835-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: R6R8-50D-835-UNV-STD-W
Description: 8FT RIBBON LED LUMINAIRE WITH 3500K LEDS AT LO
Light Source: -
Ballast/Driver: -

Summary

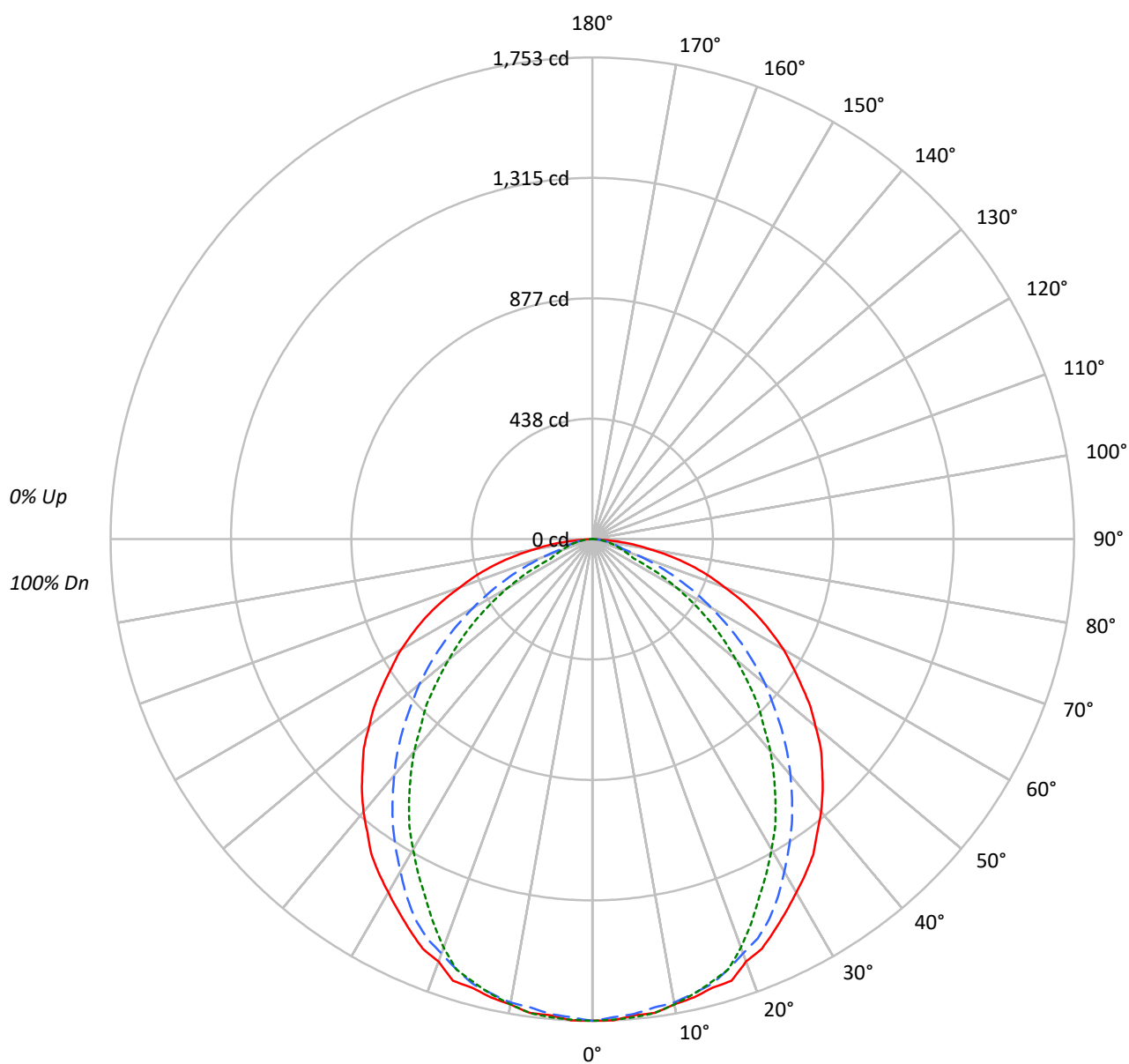
Lumens per Lamp: N/A
Luminaire Lumens: 4103.8 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 41.4
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	84	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	72	74
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63	61	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55	53	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48	46	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42	40	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	36	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	32	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	30	28	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	26	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4718	4718	4718
5°	4699	4687	4717
10°	4698	4679	4698
15°	4708	4670	4651
20°	4684	4594	4529
25°	4662	4529	4267
30°	4613	4340	4052
35°	4603	4158	3817
40°	4549	3939	3543
45°	4499	3701	3246
50°	4439	3438	2853
55°	4361	3112	2456
60°	4323	2696	1919
65°	4238	2198	1063
70°	4030	1509	941
75°	3871	962	868
80°	3357	874	804
85°	2439	766	698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4499 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	4.0
10°-20°	473.7	11.5
20°-30°	697.3	17.0
30°-40°	798.8	19.5
40°-50°	769.7	18.8
50°-60°	618.8	15.1
60°-70°	377.0	9.2
70°-80°	165.4	4.0
80°-90°	37.3	0.9
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°	1336.9	32.6
0°-40°	2135.7	52.0
0°-60°	3524.1	85.9
0°-90°	4103.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4103.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1740	1746	1735	1751	1746	166
15°	1690	1685	1676	1676	1670	478
25°	1570	1557	1525	1473	1437	724
35°	1401	1374	1266	1194	1162	874
45°	1182	1121	972	887	853	913
55°	930	821	663	562	523	833
65°	666	512	345	226	167	655
75°	372	210	92	86	84	389
85°	79	27	25	25	23	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.1	1753.1	1753.1	1753.1	1753.1
2.5°	1753.1	1750.8	1741.8	1773.4	1750.8
5°	1739.5	1746.3	1735.0	1750.8	1746.3
7.5°	1739.5	1739.5	1719.2	1744.1	1739.5
10°	1719.2	1726.0	1712.5	1728.3	1719.2
12.5°	1708.0	1710.2	1694.4	1701.2	1696.7
15°	1689.9	1685.4	1676.4	1676.4	1669.6
17.5°	1685.4	1665.1	1642.5	1653.8	1642.5
20°	1635.8	1633.5	1604.2	1606.4	1581.6
22.5°	1613.2	1599.7	1572.6	1541.0	1511.7
25°	1570.3	1556.8	1525.2	1473.3	1437.2
27.5°	1527.5	1523.0	1464.3	1407.9	1371.8
30°	1484.6	1473.3	1396.6	1333.4	1304.1
32.5°	1444.0	1428.2	1331.2	1263.5	1238.7
35°	1401.1	1374.0	1265.7	1193.5	1162.0
37.5°	1344.7	1324.4	1193.5	1123.6	1085.2
40°	1295.1	1265.7	1121.3	1040.1	1008.5
42.5°	1240.9	1198.1	1049.1	965.7	922.8
45°	1182.3	1121.3	972.4	886.7	852.9
47.5°	1128.1	1044.6	893.5	803.2	764.9
50°	1060.4	976.9	821.3	724.2	681.4
52.5°	999.5	898.0	742.3	640.8	602.4
55°	929.6	821.3	663.3	561.8	523.4
57.5°	864.1	749.1	582.1	478.3	437.7
60°	803.2	665.6	500.9	394.8	356.5
62.5°	733.3	588.9	424.2	315.9	273.0
65°	665.6	512.2	345.2	225.6	167.0
67.5°	591.1	433.2	268.5	144.4	139.9
70°	512.2	358.7	191.8	121.8	119.6
72.5°	444.5	286.5	115.1	103.8	101.5
75°	372.3	209.8	92.5	85.7	83.5
77.5°	295.6	142.1	74.5	69.9	67.7
80°	216.6	67.7	56.4	51.9	51.9
82.5°	151.2	42.9	40.6	38.4	38.4
85°	79.0	27.1	24.8	24.8	22.6
87.5°	18.0	11.3	11.3	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)