

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: P1053647

Luminaire Tested: R6R8-50D-840-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053647
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-840-UNV-STD-W
Description: 8FT RIBBON LED LUMINAIRE WITH 4000K LEDS AT LO
Light Source: -
Ballast/Driver: -

Summary

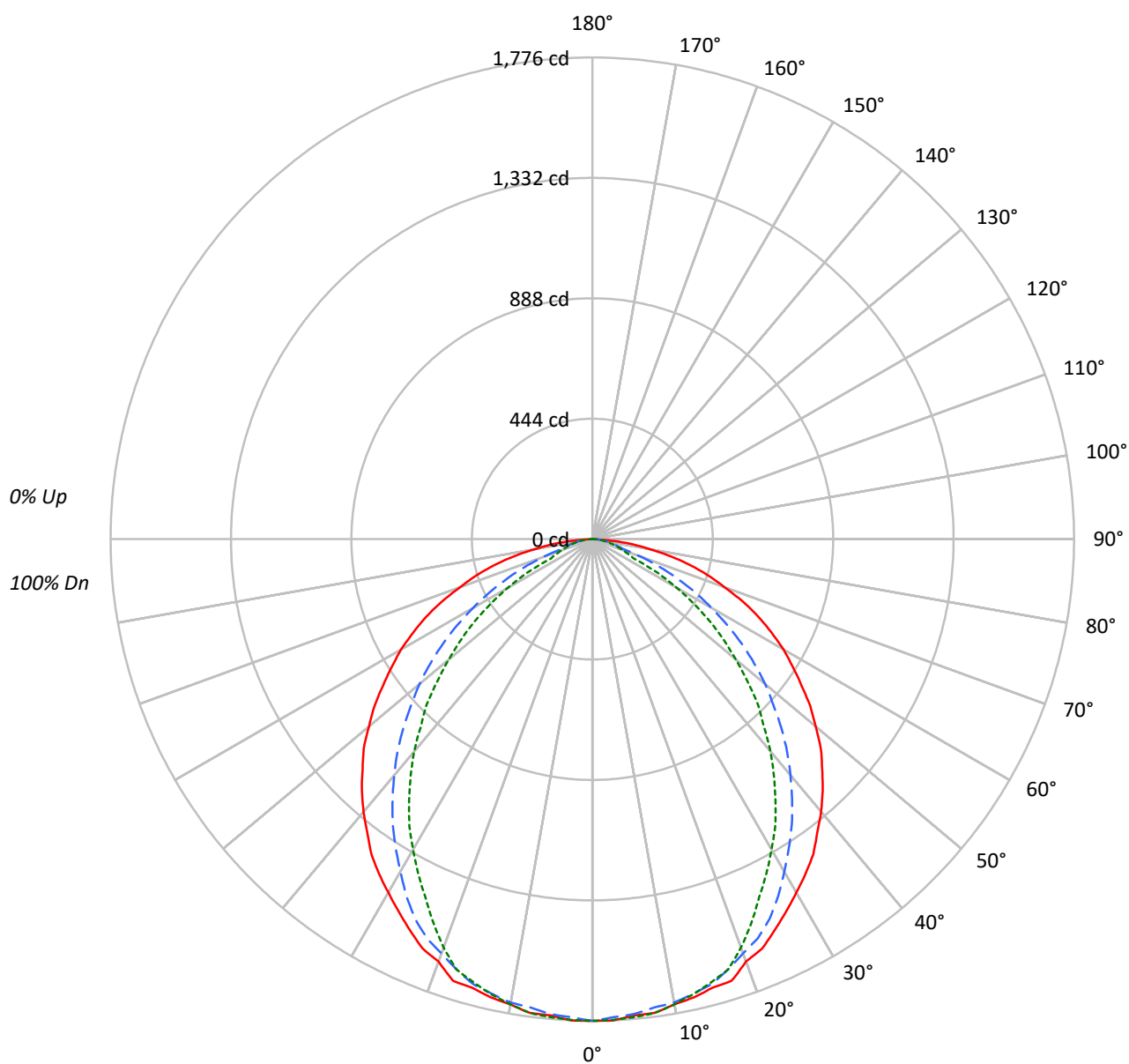
Lumens per Lamp: N/A
Luminaire Lumens: 4158.2 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	4780	4780	4780
5°	4761	4749	4780
10°	4760	4741	4760
15°	4770	4732	4713
20°	4746	4655	4589
25°	4724	4589	4324
30°	4674	4397	4106
35°	4664	4213	3868
40°	4610	3991	3590
45°	4559	3750	3289
50°	4498	3484	2890
55°	4419	3153	2488
60°	4380	2731	1944
65°	4294	2227	1077
70°	4083	1529	954
75°	3922	974	880
80°	3402	886	815
85°	2470	775	707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4559 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	4.0
10°-20°	480.0	11.5
20°-30°	706.6	17.0
30°-40°	809.4	19.5
40°-50°	779.9	18.8
50°-60°	627.0	15.1
60°-70°	382.0	9.2
70°-80°	167.6	4.0
80°-90°	37.7	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°	1354.6	32.6
0°-40°	2164.0	52.0
0°-60°	3570.8	85.9
0°-90°	4158.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1763	1770	1758	1774	1770	168
15°	1712	1708	1699	1699	1692	484
25°	1591	1577	1545	1493	1456	733
35°	1420	1392	1282	1209	1177	885
45°	1198	1136	985	898	864	925
55°	942	832	672	569	530	844
65°	674	519	350	229	169	664
75°	377	213	94	87	85	395
85°	80	27	25	25	23	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.3	1776.3	1776.3	1776.3	1776.3
2.5°	1776.3	1774.0	1764.9	1796.9	1774.0
5°	1762.6	1769.5	1758.0	1774.0	1769.5
7.5°	1762.6	1762.6	1742.0	1767.2	1762.6
10°	1742.0	1748.9	1735.2	1751.2	1742.0
12.5°	1730.6	1732.9	1716.9	1723.7	1719.2
15°	1712.3	1707.7	1698.6	1698.6	1691.7
17.5°	1707.7	1687.2	1664.3	1675.7	1664.3
20°	1657.4	1655.2	1625.4	1627.7	1602.6
22.5°	1634.6	1620.9	1593.4	1561.4	1531.7
25°	1591.1	1577.4	1545.4	1492.8	1456.3
27.5°	1547.7	1543.1	1483.7	1426.5	1390.0
30°	1504.3	1492.8	1415.1	1351.1	1321.4
32.5°	1463.1	1447.1	1348.8	1280.2	1255.1
35°	1419.7	1392.3	1282.5	1209.4	1177.4
37.5°	1362.5	1342.0	1209.4	1138.5	1099.6
40°	1312.2	1282.5	1136.2	1053.9	1021.9
42.5°	1257.4	1213.9	1063.1	978.5	935.0
45°	1197.9	1136.2	985.3	898.5	864.2
47.5°	1143.1	1058.5	905.3	813.9	775.0
50°	1074.5	989.9	832.2	733.8	690.4
52.5°	1012.8	909.9	752.1	649.3	610.4
55°	941.9	832.2	672.1	569.2	530.4
57.5°	875.6	759.0	589.8	484.7	443.5
60°	813.9	674.4	507.5	400.1	361.2
62.5°	743.0	596.7	429.8	320.1	276.6
65°	674.4	519.0	349.8	228.6	169.2
67.5°	599.0	438.9	272.0	146.3	141.7
70°	519.0	363.5	194.3	123.5	121.2
72.5°	450.4	290.3	116.6	105.2	102.9
75°	377.2	212.6	93.7	86.9	84.6
77.5°	299.5	144.0	75.4	70.9	68.6
80°	219.5	68.6	57.2	52.6	52.6
82.5°	153.2	43.4	41.2	38.9	38.9
85°	80.0	27.4	25.1	25.1	22.9
87.5°	18.3	11.4	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)