

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: P1053645

Luminaire Tested: R6R8-50D-830-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053645
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-830-UNV-STD-W
Description: 8FT RIBBON LED LUMINAIRE WITH 3000K LEDS AT LO
Light Source: -
Ballast/Driver: -

Summary

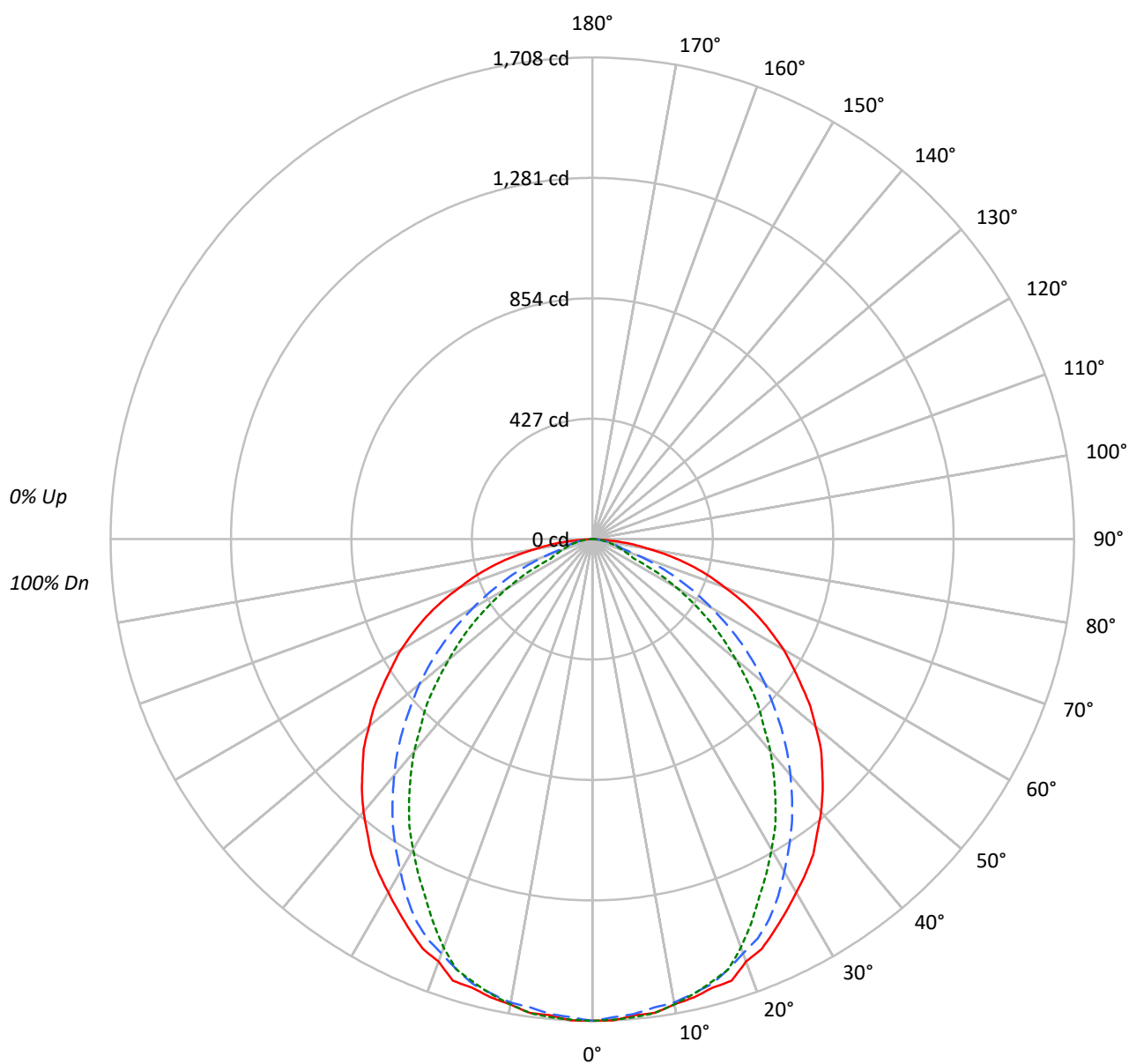
Lumens per Lamp: N/A
Luminaire Lumens: 3998.4 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 41.7
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	86	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63	63	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55	55	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48	48	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42	42	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	38	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31	31	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4596	4596	4596
5°	4578	4566	4596
10°	4577	4559	4577
15°	4587	4550	4532
20°	4564	4476	4413
25°	4543	4412	4158
30°	4495	4228	3948
35°	4484	4051	3719
40°	4432	3838	3452
45°	4384	3606	3162
50°	4325	3350	2779
55°	4249	3032	2393
60°	4212	2626	1869
65°	4129	2141	1036
70°	3926	1471	917
75°	3771	937	845
80°	3270	852	784
85°	2374	747	679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	4.0
10°-20°	461.5	11.5
20°-30°	679.4	17.0
30°-40°	778.3	19.5
40°-50°	749.9	18.8
50°-60°	602.9	15.1
60°-70°	367.3	9.2
70°-80°	161.2	4.0
80°-90°	36.3	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°	1302.5	32.6
0°-40°	2080.8	52.0
0°-60°	3433.6	85.9
0°-90°	3998.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1695	1702	1690	1706	1702	162
15°	1646	1642	1633	1633	1627	466
25°	1530	1517	1486	1436	1400	705
35°	1365	1339	1233	1163	1132	851
45°	1152	1092	948	864	831	890
55°	906	800	646	547	510	812
65°	648	499	336	220	163	638
75°	363	204	90	84	81	379
85°	77	26	24	24	22	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.1	1708.1	1708.1	1708.1	1708.1
2.5°	1708.1	1705.9	1697.1	1727.8	1705.9
5°	1694.9	1701.5	1690.5	1705.9	1701.5
7.5°	1694.9	1694.9	1675.1	1699.3	1694.9
10°	1675.1	1681.7	1668.5	1683.9	1675.1
12.5°	1664.1	1666.3	1650.9	1657.5	1653.1
15°	1646.5	1642.1	1633.3	1633.3	1626.7
17.5°	1642.1	1622.3	1600.3	1611.3	1600.3
20°	1593.8	1591.6	1563.0	1565.2	1541.0
22.5°	1571.8	1558.6	1532.2	1501.4	1472.8
25°	1530.0	1516.8	1486.0	1435.5	1400.3
27.5°	1488.2	1483.8	1426.7	1371.7	1336.6
30°	1446.5	1435.5	1360.7	1299.2	1270.6
32.5°	1406.9	1391.5	1297.0	1231.0	1206.9
35°	1365.1	1338.8	1233.2	1162.9	1132.1
37.5°	1310.2	1290.4	1162.9	1094.7	1057.4
40°	1261.8	1233.2	1092.5	1013.4	982.6
42.5°	1209.1	1167.3	1022.2	940.9	899.1
45°	1151.9	1092.5	947.5	863.9	830.9
47.5°	1099.1	1017.8	870.5	782.6	745.2
50°	1033.2	951.9	800.2	705.6	663.9
52.5°	973.8	874.9	723.2	624.3	586.9
55°	905.7	800.2	646.3	547.4	510.0
57.5°	841.9	729.8	567.2	466.0	426.5
60°	782.6	648.5	488.0	384.7	347.3
62.5°	714.4	573.8	413.3	307.8	266.0
65°	648.5	499.0	336.3	219.8	162.7
67.5°	575.9	422.1	261.6	140.7	136.3
70°	499.0	349.5	186.9	118.7	116.5
72.5°	433.1	279.2	112.1	101.1	98.9
75°	362.7	204.4	90.1	83.5	81.3
77.5°	288.0	138.5	72.5	68.1	65.9
80°	211.0	65.9	55.0	50.6	50.6
82.5°	147.3	41.8	39.6	37.4	37.4
85°	76.9	26.4	24.2	24.2	22.0
87.5°	17.6	11.0	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)