

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: P1053642

Luminaire Tested: R6R8-100D-830-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053642
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: R6R8-100D-830-UNV-STD-W
Description: 8FT RIBBON LED LUMINAIRE WITH 3000K LEDS AT HI
Light Source: -
Ballast/Driver: -

Summary

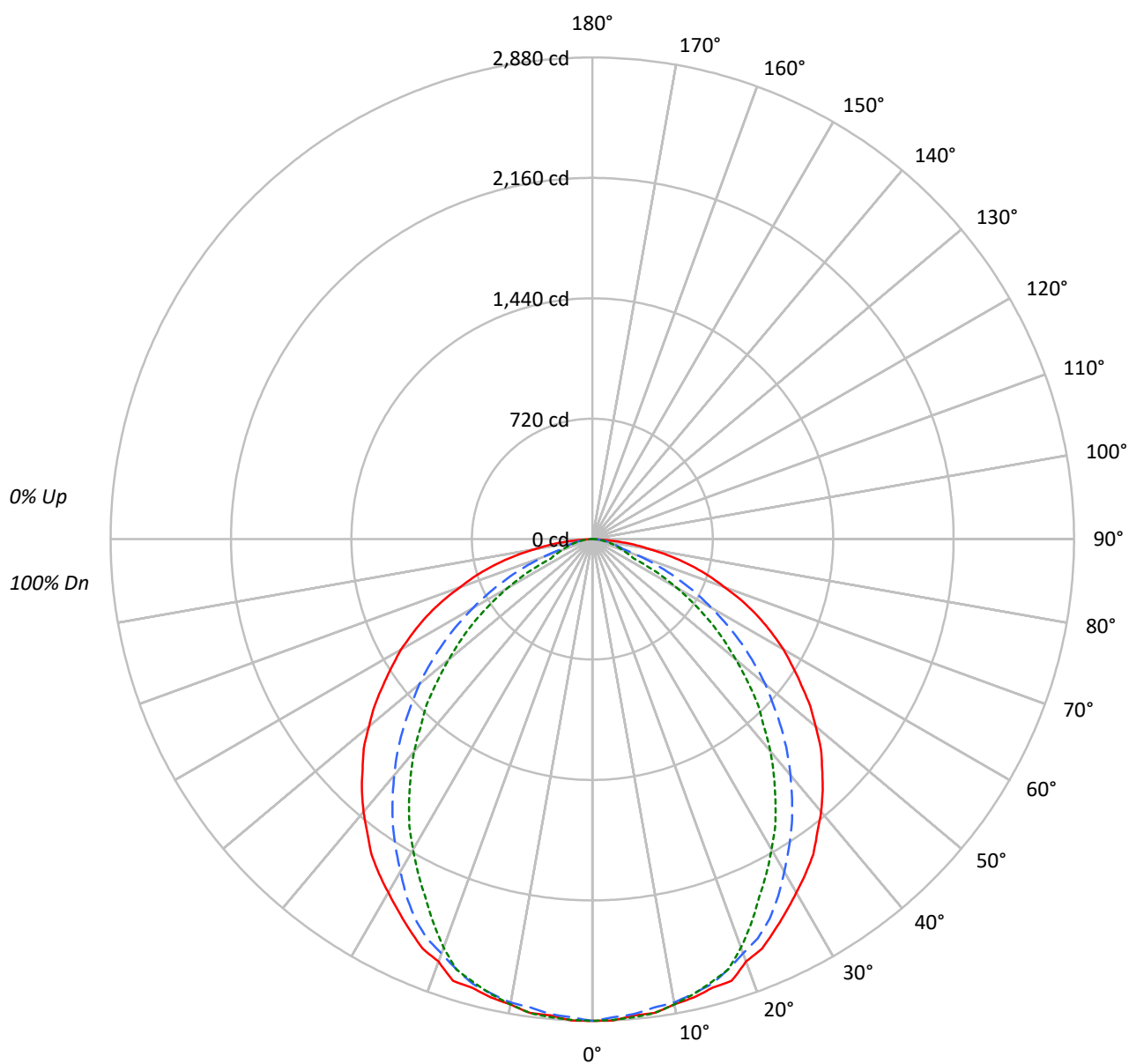
Lumens per Lamp: N/A
Luminaire Lumens: 6742.9 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 74.8
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

TEST NUMBER: P1053642

CATALOG NUMBER: R6R8-100D-830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1053642

CATALOG NUMBER: R6R8-100D-830-UNV-STD-W

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°	7751	7751	7751
5°	7721	7701	7751
10°	7719	7689	7719
15°	7736	7674	7643
20°	7697	7548	7442
25°	7661	7441	7012
30°	7580	7130	6658
35°	7563	6832	6272
40°	7475	6472	5821
45°	7393	6081	5333
50°	7294	5649	4687
55°	7166	5113	4035
60°	7103	4429	3152
65°	6963	3612	1747
70°	6621	2479	1546
75°	6360	1580	1426
80°	5515	1437	1322
85°	4008	1260	1145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7393 cd/sqm

TEST NUMBER: P1053642

CATALOG NUMBER: R6R8-100D-830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	4.0
10°-20°	778.4	11.5
20°-30°	1145.8	17.0
30°-40°	1312.5	19.5
40°-50°	1264.6	18.8
50°-60°	1016.7	15.1
60°-70°	619.5	9.2
70°-80°	271.8	4.0
80°-90°	61.2	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°	2196.6	32.6
0°-40°	3509.1	52.0
0°-60°	5790.4	85.9
0°-90°	6742.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6742.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2880	2880	2880	2880	2880	
5°	2858	2869	2851	2877	2869	272
15°	2777	2769	2754	2754	2743	786
25°	2580	2558	2506	2421	2362	1189
35°	2302	2258	2080	1961	1909	1436
45°	1943	1842	1598	1457	1401	1500
55°	1527	1349	1090	923	860	1369
65°	1094	842	567	371	274	1077
75°	612	345	152	141	137	640
85°	130	44	41	41	37	159
90°	0	0	0	0	0	

TEST NUMBER: P1053642

CATALOG NUMBER: R6R8-100D-830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2880.5	2880.5	2880.5	2880.5	2880.5
2.5°	2880.5	2876.8	2861.9	2913.8	2876.8
5°	2858.2	2869.4	2850.8	2876.8	2869.4
7.5°	2858.2	2858.2	2824.9	2865.7	2858.2
10°	2824.9	2836.0	2813.8	2839.7	2824.9
12.5°	2806.3	2810.0	2784.1	2795.2	2787.8
15°	2776.7	2769.3	2754.4	2754.4	2743.3
17.5°	2769.3	2735.9	2698.8	2717.4	2698.8
20°	2687.7	2684.0	2635.8	2639.5	2598.7
22.5°	2650.6	2628.4	2583.9	2532.0	2483.8
25°	2580.2	2558.0	2506.1	2420.8	2361.5
27.5°	2509.8	2502.3	2406.0	2313.3	2254.0
30°	2439.3	2420.8	2294.7	2190.9	2142.8
32.5°	2372.6	2346.6	2187.2	2076.0	2035.2
35°	2302.2	2257.7	2079.7	1961.1	1909.2
37.5°	2209.5	2176.1	1961.1	1846.2	1783.2
40°	2127.9	2079.7	1842.5	1709.0	1657.1
42.5°	2039.0	1968.5	1723.8	1586.7	1516.2
45°	1942.6	1842.5	1597.8	1456.9	1401.3
47.5°	1853.6	1716.4	1468.0	1319.8	1256.7
50°	1742.4	1605.2	1349.4	1190.0	1119.6
52.5°	1642.3	1475.5	1219.7	1052.8	989.8
55°	1527.4	1349.4	1089.9	923.1	860.1
57.5°	1419.9	1230.8	956.5	785.9	719.2
60°	1319.8	1093.6	823.0	648.8	585.7
62.5°	1204.8	967.6	697.0	519.0	448.6
65°	1093.6	841.5	567.2	370.7	274.3
67.5°	971.3	711.8	441.2	237.3	229.8
70°	841.5	589.4	315.1	200.2	196.5
72.5°	730.3	470.8	189.1	170.5	166.8
75°	611.7	344.8	152.0	140.9	137.2
77.5°	485.6	233.6	122.3	114.9	111.2
80°	355.9	111.2	92.7	85.3	85.3
82.5°	248.4	70.4	66.7	63.0	63.0
85°	129.8	44.5	40.8	40.8	37.1
87.5°	29.7	18.5	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)