

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: P1053644

Luminaire Tested: R6R8-100D-840-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053644
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-840-UNV-STD-W
Description: 8FT RIBBON LED LUMINAIRE WITH 4000K LEDS AT HI
Light Source: -
Ballast/Driver: -

Summary

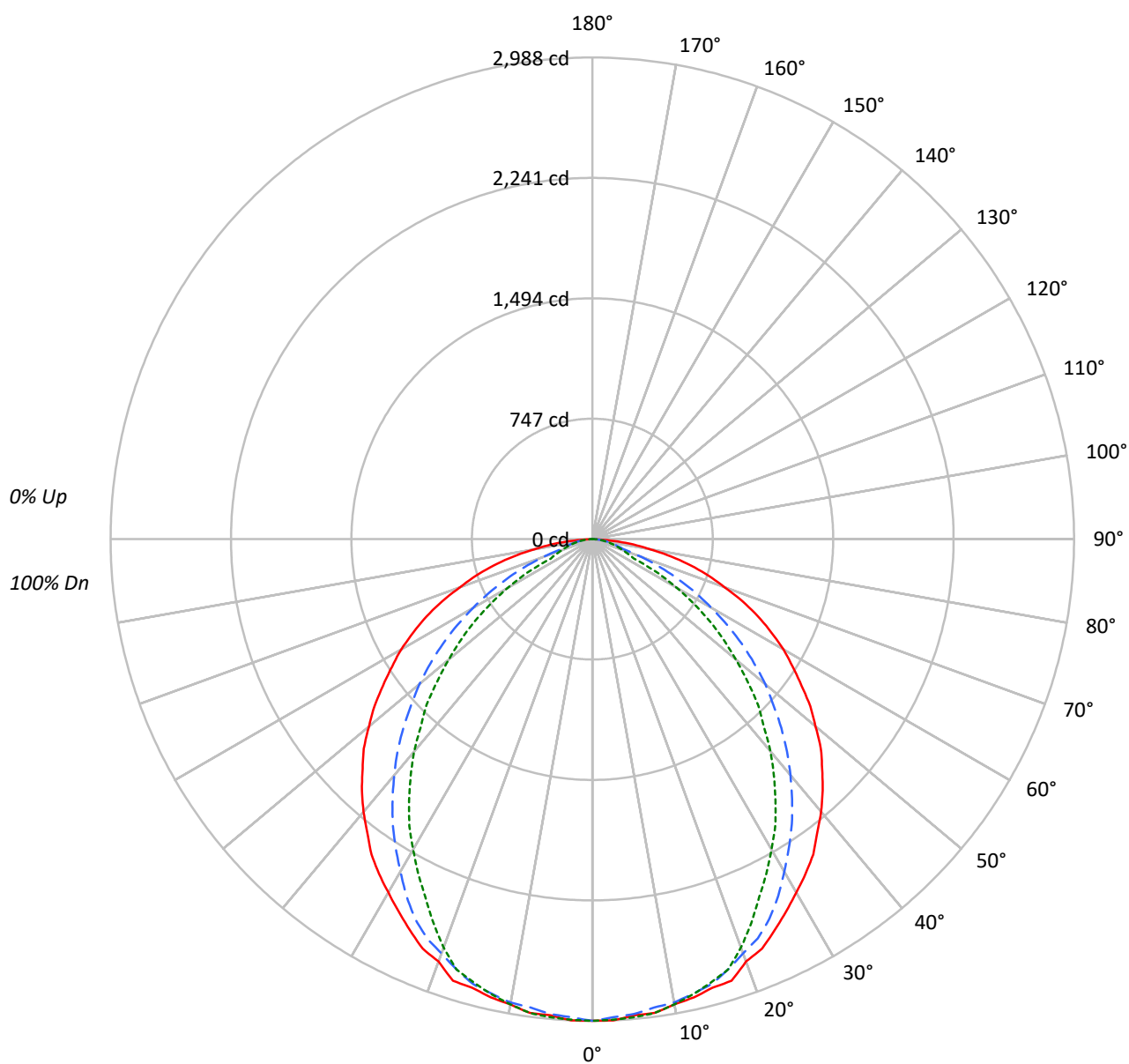
Lumens per Lamp: N/A
Luminaire Lumens: 6995.2 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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: P1053644

CATALOG NUMBER: R6R8-100D-840-UNV-STD-W

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°	8041	8041	8041
5°	8010	7989	8041
10°	8008	7976	8008
15°	8025	7961	7929
20°	7985	7830	7720
25°	7948	7719	7274
30°	7863	7397	6907
35°	7846	7088	6506
40°	7755	6714	6039
45°	7669	6308	5533
50°	7567	5861	4863
55°	7434	5305	4186
60°	7368	4595	3271
65°	7224	3747	1812
70°	6869	2572	1603
75°	6598	1640	1480
80°	5721	1489	1371
85°	4156	1306	1189

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7669 cd/sqm

TEST NUMBER: P1053644

CATALOG NUMBER: R6R8-100D-840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	4.0
10°-20°	807.5	11.5
20°-30°	1188.6	17.0
30°-40°	1361.6	19.5
40°-50°	1312.0	18.8
50°-60°	1054.7	15.1
60°-70°	642.7	9.2
70°-80°	282.0	4.0
80°-90°	63.5	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°	2278.8	32.6
0°-40°	3640.4	52.0
0°-60°	6007.1	85.9
0°-90°	6995.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6995.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2988	2988	2988	2988	2988	
5°	2965	2977	2958	2984	2977	283
15°	2881	2873	2858	2858	2846	815
25°	2677	2654	2600	2511	2450	1233
35°	2388	2342	2158	2034	1981	1490
45°	2015	1911	1658	1511	1454	1557
55°	1584	1400	1131	958	892	1420
65°	1134	873	588	385	285	1117
75°	635	358	158	146	142	664
85°	135	46	42	42	38	165
90°	0	0	0	0	0	

TEST NUMBER: P1053644

CATALOG NUMBER: R6R8-100D-840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2988.3	2988.3	2988.3	2988.3	2988.3
2.5°	2988.3	2984.4	2969.0	3022.9	2984.4
5°	2965.2	2976.7	2957.5	2984.4	2976.7
7.5°	2965.2	2965.2	2930.6	2972.9	2965.2
10°	2930.6	2942.1	2919.0	2946.0	2930.6
12.5°	2911.4	2915.2	2888.3	2899.8	2892.1
15°	2880.6	2872.9	2857.5	2857.5	2846.0
17.5°	2872.9	2838.3	2799.8	2819.0	2799.8
20°	2788.3	2784.4	2734.4	2738.3	2696.0
22.5°	2749.8	2726.7	2680.6	2626.8	2576.8
25°	2676.8	2653.7	2599.8	2511.4	2449.8
27.5°	2603.7	2596.0	2496.0	2399.8	2338.3
30°	2530.6	2511.4	2380.6	2272.9	2222.9
32.5°	2461.4	2434.5	2269.1	2153.7	2111.4
35°	2388.3	2342.2	2157.6	2034.5	1980.6
37.5°	2292.2	2257.5	2034.5	1915.3	1849.9
40°	2207.6	2157.6	1911.4	1773.0	1719.1
42.5°	2115.2	2042.2	1788.3	1646.0	1573.0
45°	2015.3	1911.4	1657.6	1511.4	1453.8
47.5°	1923.0	1780.7	1523.0	1369.1	1303.8
50°	1807.6	1665.3	1399.9	1234.5	1161.5
52.5°	1703.7	1530.7	1265.3	1092.2	1026.9
55°	1584.5	1399.9	1130.7	957.6	892.3
57.5°	1473.0	1276.8	992.2	815.3	746.1
60°	1369.1	1134.5	853.8	673.0	607.7
62.5°	1249.9	1003.8	723.0	538.4	465.4
65°	1134.5	873.0	588.4	384.6	284.6
67.5°	1007.6	738.4	457.7	246.1	238.4
70°	873.0	611.5	326.9	207.7	203.8
72.5°	757.6	488.4	196.1	176.9	173.1
75°	634.6	357.7	157.7	146.1	142.3
77.5°	503.8	242.3	126.9	119.2	115.4
80°	369.2	115.4	96.1	88.5	88.5
82.5°	257.7	73.1	69.2	65.4	65.4
85°	134.6	46.2	42.3	42.3	38.5
87.5°	30.8	19.2	19.2	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)