

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: P1053643

Luminaire Tested: R6R8-100D-835-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053643
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-835-UNV-STD-W
Description: 8FT RIBBON LED LUMINAIRE WITH 3500K LEDS AT HI
Light Source: -
Ballast/Driver: -

Summary

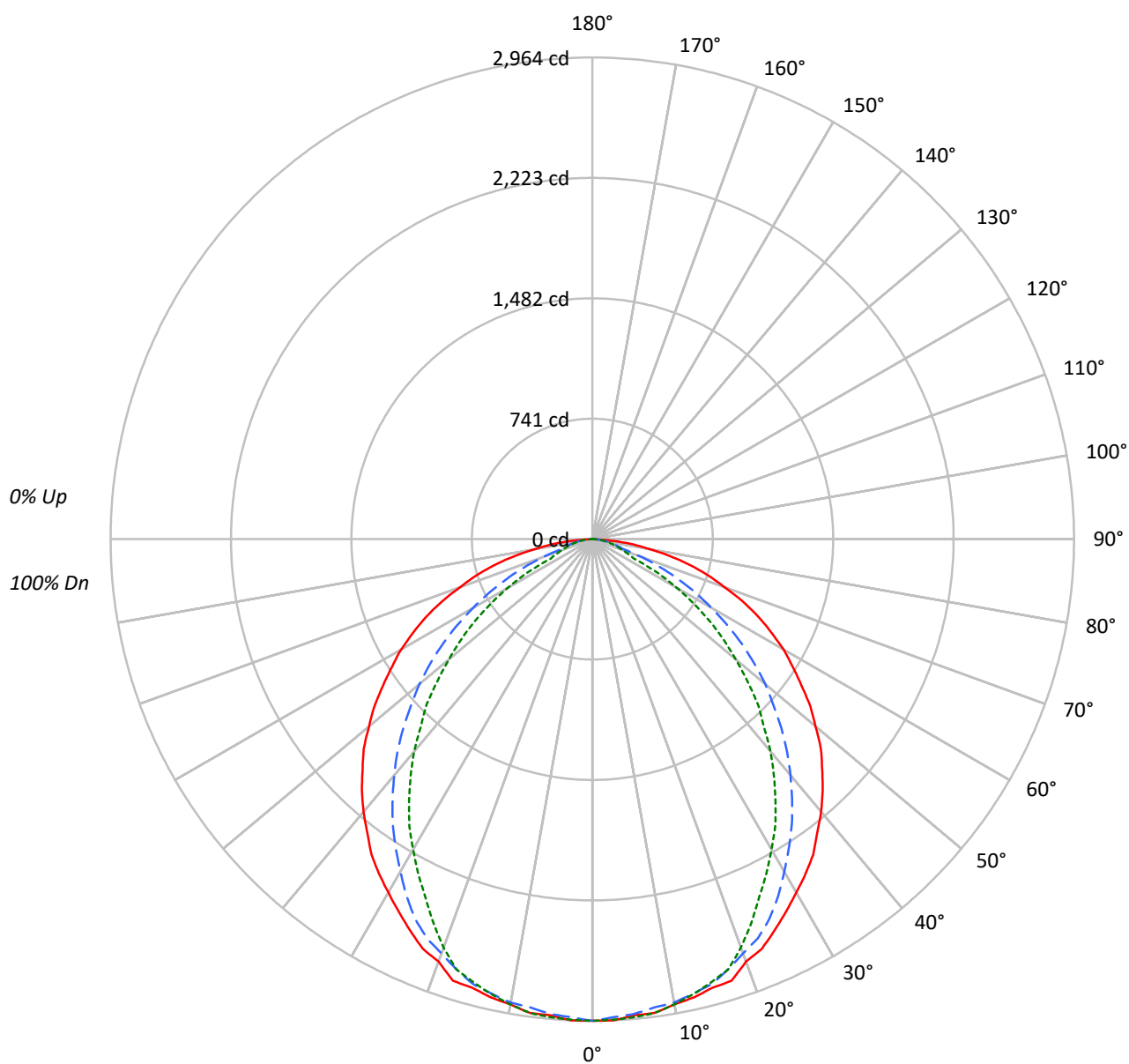
Lumens per Lamp: N/A
Luminaire Lumens: 6938.8 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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: P1053643

CATALOG NUMBER: R6R8-100D-835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1053643

CATALOG NUMBER: R6R8-100D-835-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	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°	7977	7977	7977
5°	7945	7924	7976
10°	7943	7912	7943
15°	7960	7897	7865
20°	7920	7767	7658
25°	7884	7657	7215
30°	7800	7338	6852
35°	7782	7030	6454
40°	7692	6660	5990
45°	7607	6257	5488
50°	7506	5813	4823
55°	7374	5262	4153
60°	7309	4558	3244
65°	7166	3717	1798
70°	6814	2552	1591
75°	6545	1626	1468
80°	5675	1478	1359
85°	4122	1297	1176

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7607 cd/sqm

TEST NUMBER: P1053643

CATALOG NUMBER: R6R8-100D-835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	4.0
10°-20°	801.0	11.5
20°-30°	1179.0	17.0
30°-40°	1350.6	19.5
40°-50°	1301.4	18.8
50°-60°	1046.2	15.1
60°-70°	637.5	9.2
70°-80°	279.7	4.0
80°-90°	63.0	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°	2260.4	32.6
0°-40°	3611.0	52.0
0°-60°	5958.6	85.9
0°-90°	6938.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6938.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2964	2964	2964	2964	2964	
5°	2941	2953	2934	2960	2953	280
15°	2857	2850	2834	2834	2823	808
25°	2655	2632	2579	2491	2430	1223
35°	2369	2323	2140	2018	1965	1478
45°	1999	1896	1644	1499	1442	1544
55°	1572	1389	1122	950	885	1409
65°	1125	866	584	382	282	1108
75°	630	355	156	145	141	658
85°	134	46	42	42	38	164
90°	0	0	0	0	0	

TEST NUMBER: P1053643

CATALOG NUMBER: R6R8-100D-835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2964.2	2964.2	2964.2	2964.2	2964.2
2.5°	2964.2	2960.3	2945.1	2998.5	2960.3
5°	2941.3	2952.7	2933.6	2960.3	2952.7
7.5°	2941.3	2941.3	2906.9	2948.9	2941.3
10°	2906.9	2918.4	2895.5	2922.2	2906.9
12.5°	2887.9	2891.7	2865.0	2876.4	2868.8
15°	2857.3	2849.7	2834.5	2834.5	2823.0
17.5°	2849.7	2815.4	2777.2	2796.3	2777.2
20°	2765.8	2762.0	2712.4	2716.2	2674.2
22.5°	2727.6	2704.7	2659.0	2605.6	2556.0
25°	2655.2	2632.3	2578.9	2491.1	2430.1
27.5°	2582.7	2575.0	2475.9	2380.5	2319.4
30°	2510.2	2491.1	2361.4	2254.6	2205.0
32.5°	2441.5	2414.8	2250.8	2136.3	2094.4
35°	2369.0	2323.3	2140.1	2018.1	1964.7
37.5°	2273.7	2239.3	2018.1	1899.8	1835.0
40°	2189.7	2140.1	1896.0	1758.7	1705.2
42.5°	2098.2	2025.7	1773.9	1632.8	1560.3
45°	1999.0	1896.0	1644.2	1499.2	1442.0
47.5°	1907.4	1766.3	1510.7	1358.1	1293.2
50°	1793.0	1651.8	1388.6	1224.6	1152.1
52.5°	1690.0	1518.3	1255.1	1083.4	1018.6
55°	1571.7	1388.6	1121.6	949.9	885.1
57.5°	1461.1	1266.5	984.2	808.8	740.1
60°	1358.1	1125.4	846.9	667.6	602.8
62.5°	1239.8	995.7	717.2	534.1	461.6
65°	1125.4	866.0	583.7	381.5	282.3
67.5°	999.5	732.5	454.0	244.2	236.5
70°	866.0	606.6	324.3	206.0	202.2
72.5°	751.5	484.5	194.6	175.5	171.7
75°	629.5	354.8	156.4	145.0	141.2
77.5°	499.7	240.3	125.9	118.3	114.4
80°	366.2	114.4	95.4	87.7	87.7
82.5°	255.6	72.5	68.7	64.9	64.9
85°	133.5	45.8	42.0	42.0	38.1
87.5°	30.5	19.1	19.1	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)