

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: P1053638

Luminaire Tested: R6R4-50D-835-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053638
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: R6R4-50D-835-UNV-STD-W
Description: 4FT RIBBON LED LUMINAIRE WITH 3500K LEDS AT LO
Light Source: -
Ballast/Driver: -

Summary

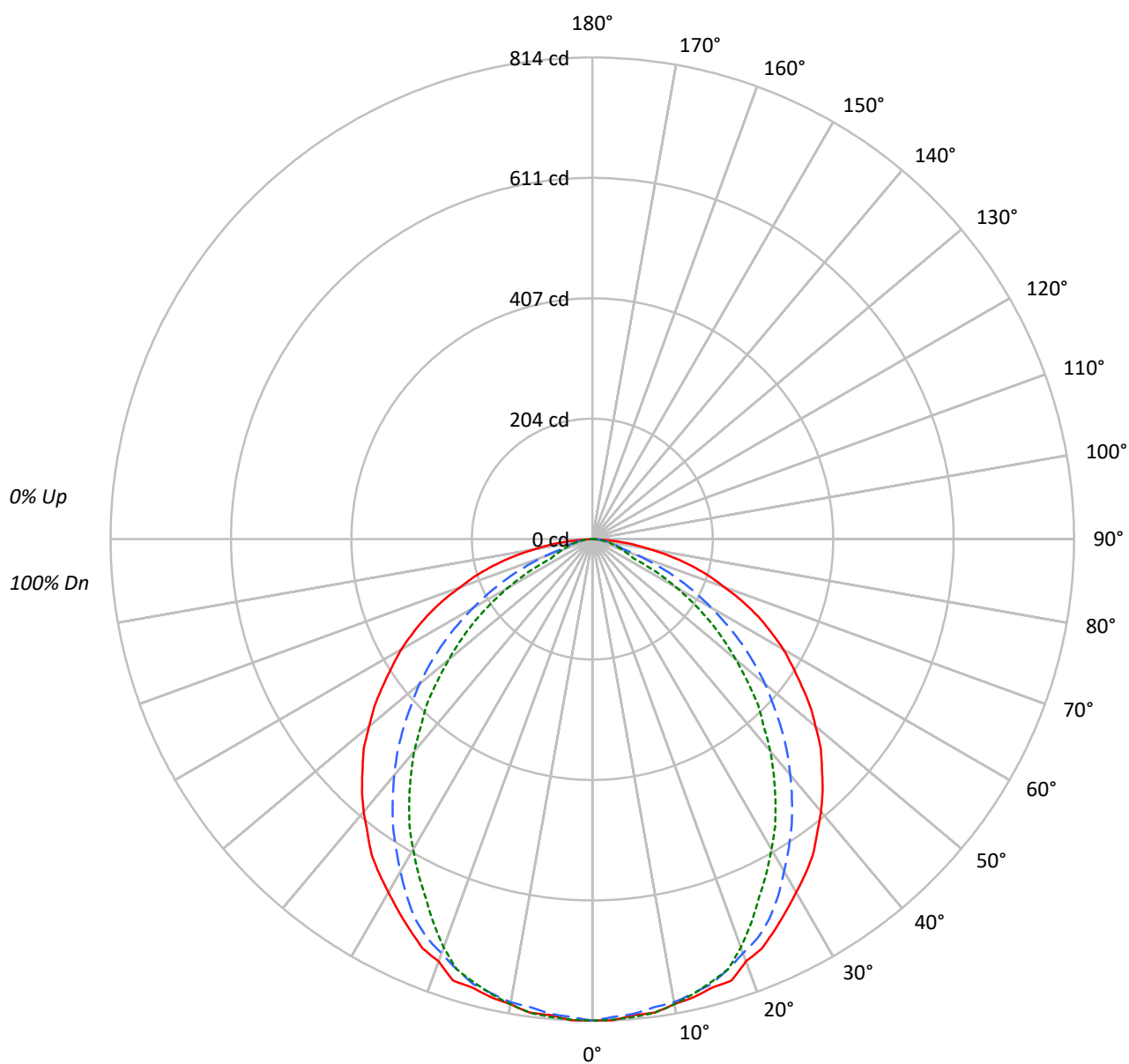
Lumens per Lamp: N/A
Luminaire Lumens: 1904.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.3
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: P1053638

CATALOG NUMBER: R6R4-50D-835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1053638

CATALOG NUMBER: R6R4-50D-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	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°	4379	4379	4379
5°	4362	4351	4379
10°	4361	4344	4361
15°	4371	4335	4318
20°	4349	4265	4204
25°	4328	4204	3961
30°	4282	4029	3762
35°	4273	3860	3543
40°	4223	3657	3289
45°	4177	3436	3013
50°	4121	3192	2648
55°	4049	2889	2280
60°	4013	2503	1781
65°	3934	2040	987
70°	3740	1400	873
75°	3593	892	805
80°	3115	812	747
85°	2266	710	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4177 cd/sqm

TEST NUMBER: P1053638

CATALOG NUMBER: R6R4-50D-835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	4.0
10°-20°	219.9	11.5
20°-30°	323.7	17.0
30°-40°	370.8	19.5
40°-50°	357.3	18.8
50°-60°	287.2	15.1
60°-70°	175.0	9.2
70°-80°	76.8	4.0
80°-90°	17.3	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°	620.5	32.6
0°-40°	991.3	52.0
0°-60°	1635.8	85.9
0°-90°	1904.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	807	811	805	813	811	77
15°	784	782	778	778	775	222
25°	729	723	708	684	667	336
35°	650	638	588	554	539	406
45°	549	520	451	412	396	424
55°	432	381	308	261	243	387
65°	309	238	160	105	78	304
75°	173	97	43	40	39	181
85°	37	13	12	12	10	45
90°	0	0	0	0	0	

TEST NUMBER: P1053638

CATALOG NUMBER: R6R4-50D-835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.7	813.7	813.7	813.7	813.7
2.5°	813.7	812.7	808.5	823.2	812.7
5°	807.4	810.6	805.3	812.7	810.6
7.5°	807.4	807.4	798.0	809.5	807.4
10°	798.0	801.2	794.9	802.2	798.0
12.5°	792.8	793.8	786.5	789.6	787.5
15°	784.4	782.3	778.1	778.1	775.0
17.5°	782.3	772.9	762.4	767.6	762.4
20°	759.3	758.2	744.6	745.7	734.1
22.5°	748.8	742.5	729.9	715.3	701.7
25°	728.9	722.6	708.0	683.9	667.1
27.5°	709.0	706.9	679.7	653.5	636.7
30°	689.1	683.9	648.3	618.9	605.3
32.5°	670.3	662.9	617.9	586.5	574.9
35°	650.4	637.8	587.5	554.0	539.3
37.5°	624.2	614.7	554.0	521.5	503.7
40°	601.1	587.5	520.5	482.8	468.1
42.5°	576.0	556.1	487.0	448.2	428.3
45°	548.8	520.5	451.4	411.6	395.9
47.5°	523.6	484.9	414.7	372.8	355.0
50°	492.2	453.5	381.2	336.2	316.3
52.5°	463.9	416.8	344.6	297.4	279.6
55°	431.5	381.2	307.9	260.8	243.0
57.5°	401.1	347.7	270.2	222.0	203.2
60°	372.8	308.9	232.5	183.3	165.5
62.5°	340.4	273.3	196.9	146.6	126.7
65°	308.9	237.7	160.2	104.7	77.5
67.5°	274.4	201.1	124.6	67.0	64.9
70°	237.7	166.5	89.0	56.6	55.5
72.5°	206.3	133.0	53.4	48.2	47.1
75°	172.8	97.4	42.9	39.8	38.7
77.5°	137.2	66.0	34.6	32.5	31.4
80°	100.5	31.4	26.2	24.1	24.1
82.5°	70.2	19.9	18.9	17.8	17.8
85°	36.7	12.6	11.5	11.5	10.5
87.5°	8.4	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)