

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: P1053639

Luminaire Tested: R6R4-50D-840-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053639
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-840-UNV-STD-W
Description: 4FT RIBBON LED LUMINAIRE WITH 4000K LEDS AT LO
Light Source: -
Ballast/Driver: -

Summary

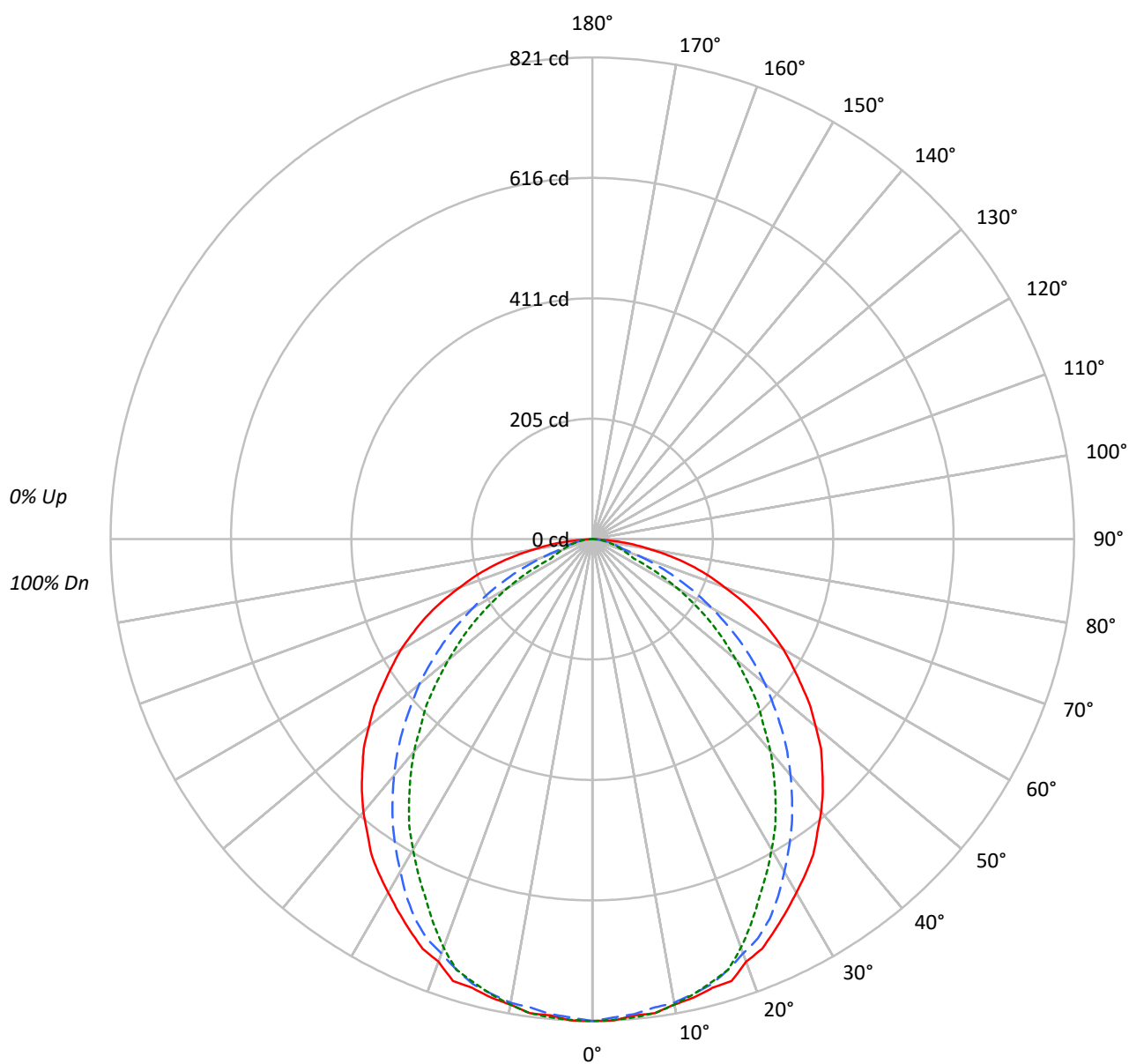
Lumens per Lamp: N/A
Luminaire Lumens: 1922.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.2
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°	4421	4421	4421
5°	4403	4392	4420
10°	4402	4385	4402
15°	4412	4376	4358
20°	4389	4305	4244
25°	4369	4244	3999
30°	4323	4066	3797
35°	4313	3896	3577
40°	4263	3691	3320
45°	4216	3468	3041
50°	4160	3222	2673
55°	4086	2916	2301
60°	4050	2526	1798
65°	3971	2059	996
70°	3777	1415	881
75°	3627	900	813
80°	3146	818	753
85°	2285	716	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4216 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	4.0
10°-20°	221.9	11.5
20°-30°	326.7	17.0
30°-40°	374.2	19.5
40°-50°	360.6	18.8
50°-60°	289.9	15.1
60°-70°	176.7	9.2
70°-80°	77.5	4.0
80°-90°	17.5	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°	626.3	32.6
0°-40°	1000.6	52.0
0°-60°	1651.1	85.9
0°-90°	1922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	815	818	813	820	818	78
15°	792	790	785	785	782	224
25°	736	729	715	690	673	339
35°	656	644	593	559	544	409
45°	554	525	456	415	400	428
55°	436	385	311	263	245	390
65°	312	240	162	106	78	307
75°	174	98	43	40	39	182
85°	37	13	12	12	11	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.4	821.4	821.4	821.4	821.4
2.5°	821.4	820.3	816.1	830.9	820.3
5°	815.0	818.2	812.9	820.3	818.2
7.5°	815.0	815.0	805.5	817.1	815.0
10°	805.5	808.7	802.3	809.7	805.5
12.5°	800.2	801.3	793.9	797.0	794.9
15°	791.8	789.6	785.4	785.4	782.2
17.5°	789.6	780.1	769.6	774.8	769.6
20°	766.4	765.3	751.6	752.6	741.0
22.5°	755.8	749.5	736.8	722.0	708.2
25°	735.7	729.4	714.6	690.3	673.4
27.5°	715.6	713.5	686.0	659.6	642.7
30°	695.6	690.3	654.3	624.7	611.0
32.5°	676.5	669.1	623.7	592.0	580.3
35°	656.4	643.8	593.0	559.2	544.4
37.5°	630.0	620.5	559.2	526.4	508.5
40°	606.8	593.0	525.4	487.3	472.5
42.5°	581.4	561.3	491.5	452.4	432.3
45°	553.9	525.4	455.6	415.4	399.6
47.5°	528.5	489.4	418.6	376.3	358.3
50°	496.8	457.7	384.8	339.3	319.2
52.5°	468.3	420.7	347.8	300.2	282.2
55°	435.5	384.8	310.8	263.2	245.2
57.5°	404.9	351.0	272.7	224.1	205.1
60°	376.3	311.8	234.7	185.0	167.0
62.5°	343.6	275.9	198.7	148.0	127.9
65°	311.8	240.0	161.7	105.7	78.2
67.5°	277.0	203.0	125.8	67.7	65.5
70°	240.0	168.1	89.9	57.1	56.0
72.5°	208.2	134.2	53.9	48.6	47.6
75°	174.4	98.3	43.3	40.2	39.1
77.5°	138.5	66.6	34.9	32.8	31.7
80°	101.5	31.7	26.4	24.3	24.3
82.5°	70.8	20.1	19.0	18.0	18.0
85°	37.0	12.7	11.6	11.6	10.6
87.5°	8.5	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)