

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: P1053637

Luminaire Tested: R6R4-50D-830-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053637
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-830-UNV-STD-W
Description: 4FT RIBBON LED LUMINAIRE WITH 3000K LEDS AT LO
Light Source: -
Ballast/Driver: -

Summary

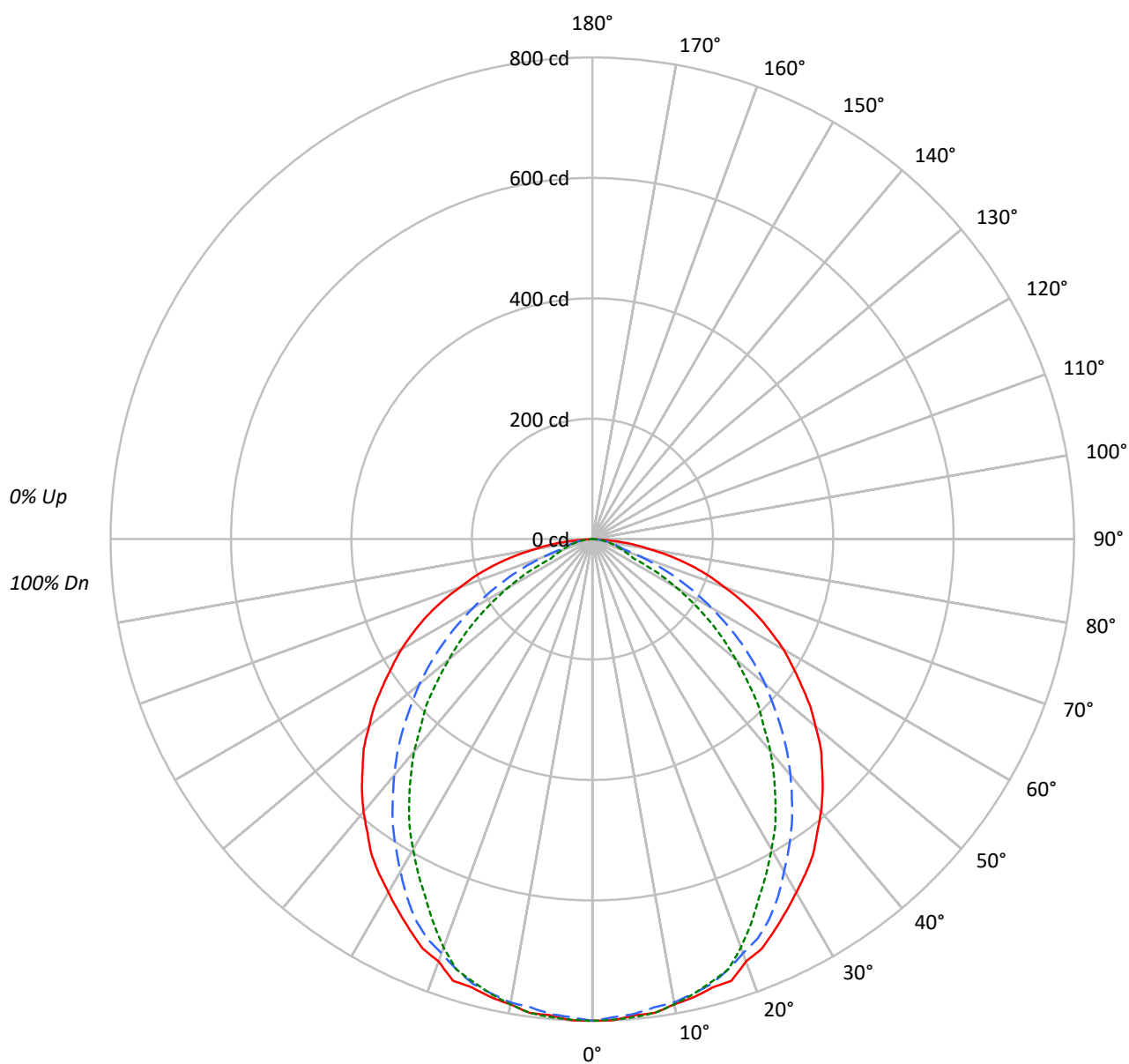
Lumens per Lamp: N/A
Luminaire Lumens: 1872.6 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	4305	4305	4305
5°	4289	4277	4305
10°	4287	4270	4287
15°	4296	4262	4245
20°	4275	4192	4133
25°	4255	4132	3894
30°	4210	3961	3698
35°	4200	3795	3483
40°	4151	3595	3233
45°	4106	3377	2962
50°	4052	3137	2603
55°	3980	2840	2241
60°	3945	2461	1751
65°	3868	2006	970
70°	3677	1377	859
75°	3533	878	792
80°	3062	797	735
85°	2223	698	636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	4.0
10°-20°	216.2	11.5
20°-30°	318.2	17.0
30°-40°	364.5	19.5
40°-50°	351.2	18.8
50°-60°	282.3	15.1
60°-70°	172.0	9.2
70°-80°	75.5	4.0
80°-90°	17.0	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°	610.0	32.6
0°-40°	974.5	52.0
0°-60°	1608.0	85.9
0°-90°	1872.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	794	797	792	799	797	76
15°	771	769	765	765	762	218
25°	716	710	696	672	656	330
35°	639	627	578	545	530	399
45°	540	512	444	405	389	417
55°	424	375	303	256	239	380
65°	304	234	158	103	76	299
75°	170	96	42	39	38	178
85°	36	12	11	11	10	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.9	799.9	799.9	799.9	799.9
2.5°	799.9	798.9	794.8	809.2	798.9
5°	793.8	796.8	791.7	798.9	796.8
7.5°	793.8	793.8	784.5	795.8	793.8
10°	784.5	787.6	781.4	788.6	784.5
12.5°	779.3	780.4	773.2	776.2	774.2
15°	771.1	769.0	764.9	764.9	761.8
17.5°	769.0	759.8	749.5	754.6	749.5
20°	746.4	745.4	732.0	733.0	721.7
22.5°	736.1	729.9	717.6	703.2	689.8
25°	716.5	710.4	695.9	672.3	655.8
27.5°	697.0	694.9	668.2	642.4	625.9
30°	677.4	672.3	637.3	608.4	595.1
32.5°	658.9	651.7	607.4	576.5	565.2
35°	639.3	627.0	577.6	544.6	530.2
37.5°	613.6	604.3	544.6	512.7	495.2
40°	590.9	577.6	511.7	474.6	460.2
42.5°	566.2	546.7	478.7	440.6	421.1
45°	539.5	511.7	443.7	404.6	389.2
47.5°	514.8	476.7	407.7	366.5	349.0
50°	483.9	445.8	374.7	330.5	310.9
52.5°	456.1	409.7	338.7	292.4	274.9
55°	424.2	374.7	302.7	256.3	238.8
57.5°	394.3	341.8	265.6	218.3	199.7
60°	366.5	303.7	228.6	180.2	162.7
62.5°	334.6	268.7	193.5	144.1	124.6
65°	303.7	233.7	157.5	103.0	76.2
67.5°	269.7	197.7	122.5	65.9	63.8
70°	233.7	163.7	87.5	55.6	54.6
72.5°	202.8	130.7	52.5	47.4	46.3
75°	169.9	95.7	42.2	39.1	38.1
77.5°	134.9	64.9	34.0	31.9	30.9
80°	98.8	30.9	25.7	23.7	23.7
82.5°	69.0	19.6	18.5	17.5	17.5
85°	36.0	12.4	11.3	11.3	10.3
87.5°	8.2	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)