

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1055125

Luminaire Tested: SQ4R-PP3-050D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-050D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

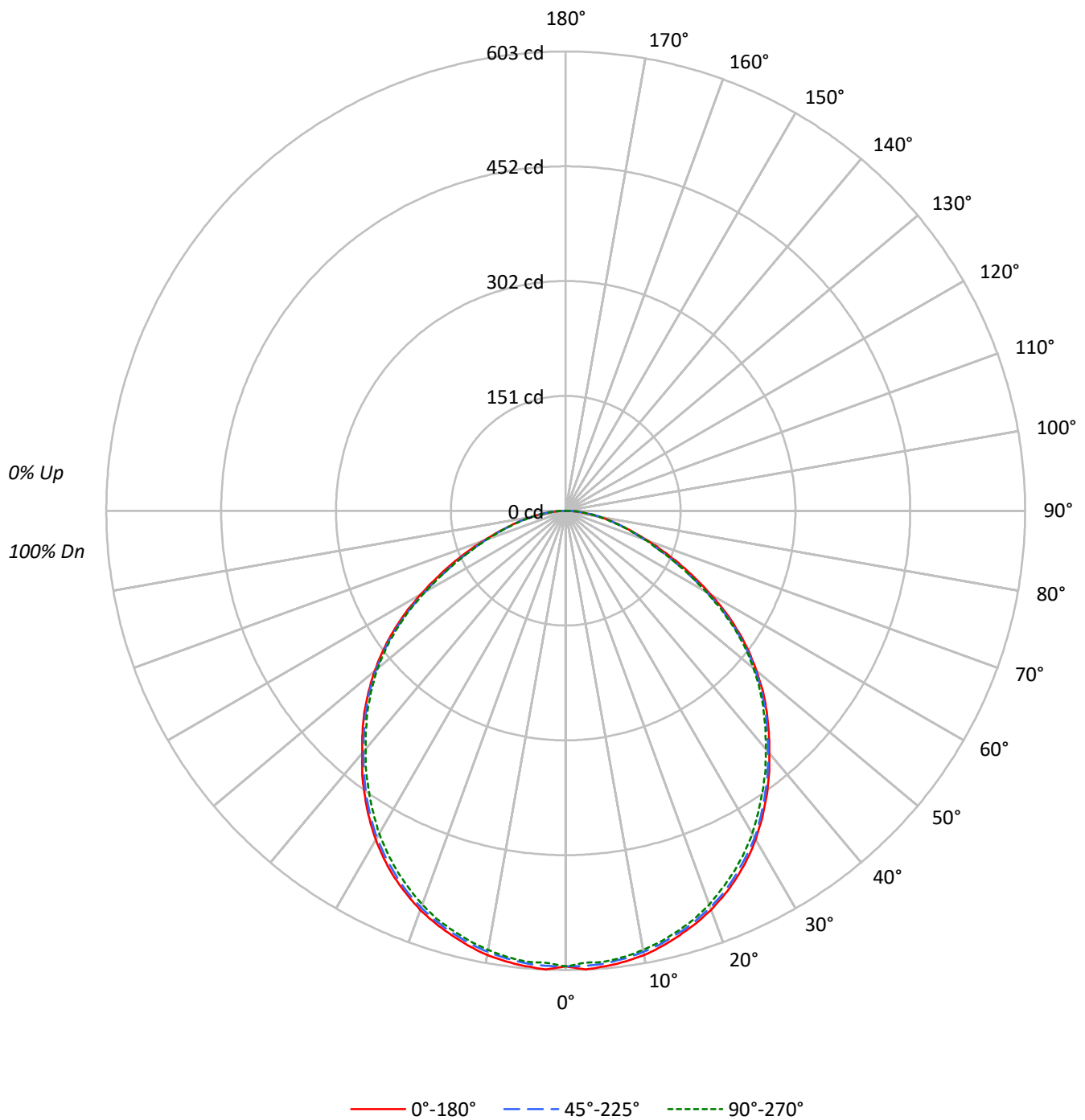
Lumens per Lamp: N/A
Luminaire Lumens: 1530.9 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5759	5759	5759
5°	5801	5766	5745
10°	5791	5750	5725
15°	5753	5721	5690
20°	5715	5682	5640
25°	5647	5608	5552
30°	5543	5513	5443
35°	5397	5360	5292
40°	5224	5192	5133
45°	5083	5046	4997
50°	4899	4868	4821
55°	4646	4584	4549
60°	4230	4109	4088
65°	3727	3570	3558
70°	3217	3085	3085
75°	2767	2730	2689
80°	2439	2473	2412
85°	1911	2088	2088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	3.7
10°-20°	161.6	10.6
20°-30°	242.0	15.8
30°-40°	283.9	18.5
40°-50°	284.8	18.6
50°-60°	243.2	15.9
60°-70°	158.0	10.3
70°-80°	79.1	5.2
80°-90°	21.7	1.4
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°	460.2	30.1
0°-40°	744.1	48.6
0°-60°	1272.0	83.1
0°-90°	1530.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	600	594	597	594	594	57
15°	577	571	574	572	571	163
25°	532	525	528	523	523	245
35°	459	454	456	451	450	287
45°	373	371	371	367	367	288
55°	277	276	273	272	271	246
65°	164	160	157	156	156	163
75°	74	74	73	73	72	80
85°	17	19	19	19	19	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.2	598.2	598.2	598.2	598.2
2.5°	602.9	596.6	598.2	597.1	594.0
5°	600.3	594.5	596.6	594.5	594.5
7.5°	597.1	590.8	592.9	590.8	590.8
10°	592.4	586.1	588.2	586.1	585.6
12.5°	585.6	579.3	581.9	579.3	579.3
15°	577.2	571.4	574.0	571.9	570.9
17.5°	568.3	562.0	565.1	562.5	562.0
20°	557.8	551.5	554.6	550.5	550.5
22.5°	545.2	538.9	542.6	536.8	536.8
25°	531.6	525.3	527.9	523.2	522.7
27.5°	515.9	509.6	512.2	506.9	506.9
30°	498.6	492.8	495.9	490.2	489.6
32.5°	479.7	474.4	476.5	470.8	470.2
35°	459.2	454.5	456.1	450.8	450.3
37.5°	438.3	433.0	435.1	430.4	430.4
40°	415.7	412.6	413.1	409.4	408.4
42.5°	394.8	391.1	391.6	387.9	387.9
45°	373.3	370.6	370.6	367.0	367.0
47.5°	350.7	348.6	348.1	345.0	345.0
50°	327.1	325.6	325.0	322.4	321.9
52.5°	302.5	302.0	299.9	297.8	297.8
55°	276.8	275.8	273.1	271.6	271.0
57.5°	249.5	247.4	244.8	242.2	242.7
60°	219.7	217.6	213.4	212.3	212.3
62.5°	190.8	188.2	184.0	182.4	183.5
65°	163.6	160.4	156.7	155.7	156.2
67.5°	138.4	135.3	131.1	131.1	130.5
70°	114.3	112.7	109.6	109.6	109.6
72.5°	92.8	92.3	90.2	90.2	89.6
75°	74.4	74.4	73.4	72.9	72.3
77.5°	58.7	58.7	58.2	57.7	56.6
80°	44.0	45.1	44.6	44.0	43.5
82.5°	30.4	31.5	31.5	30.4	30.4
85°	17.3	18.9	18.9	18.9	18.9
87.5°	5.8	7.9	8.4	8.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.32	18.91	17.69	19.22	19.54	17.17	18.75	17.53	19.07	19.38
	3H	18.64	20.06	19.01	20.39	20.75	18.44	19.86	18.81	20.19	20.55
	4H	19.08	20.42	19.48	20.77	21.15	18.88	20.22	19.28	20.57	20.95
	6H	19.41	20.65	19.82	21.02	21.41	19.21	20.45	19.63	20.82	21.21
	8H	19.51	20.70	19.94	21.08	21.48	19.32	20.50	19.75	20.89	21.29
	12H	19.57	20.70	20.00	21.09	21.52	19.39	20.53	19.82	20.91	21.34
4H	2H	17.76	19.10	18.16	19.45	19.83	17.63	18.97	18.03	19.32	19.70
	3H	19.28	20.39	19.69	20.79	21.19	19.11	20.22	19.52	20.62	21.02
	4H	19.84	20.85	20.28	21.26	21.70	19.67	20.68	20.11	21.09	21.53
	6H	20.30	21.17	20.75	21.61	22.07	20.13	21.00	20.58	21.45	21.90
	8H	20.44	21.26	20.90	21.71	22.17	20.28	21.10	20.74	21.54	22.01
	12H	20.54	21.27	21.02	21.75	22.22	20.39	21.12	20.87	21.60	22.07
8H	4H	20.05	20.87	20.51	21.31	21.78	19.89	20.71	20.36	21.16	21.62
	6H	20.61	21.29	21.10	21.78	22.25	20.46	21.14	20.95	21.62	22.10
	8H	20.82	21.43	21.33	21.94	22.43	20.67	21.28	21.18	21.79	22.27
	12H	20.98	21.52	21.49	22.01	22.58	20.85	21.39	21.35	21.88	22.44
12H	4H	20.06	20.80	20.54	21.27	21.74	19.91	20.65	20.39	21.12	21.59
	6H	20.64	21.25	21.15	21.76	22.25	20.49	21.10	21.00	21.61	22.10
	8H	20.91	21.45	21.41	21.94	22.50	20.76	21.30	21.27	21.79	22.35

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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