

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: P1055131

Luminaire Tested: SQ4R-PR1-050D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-050D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

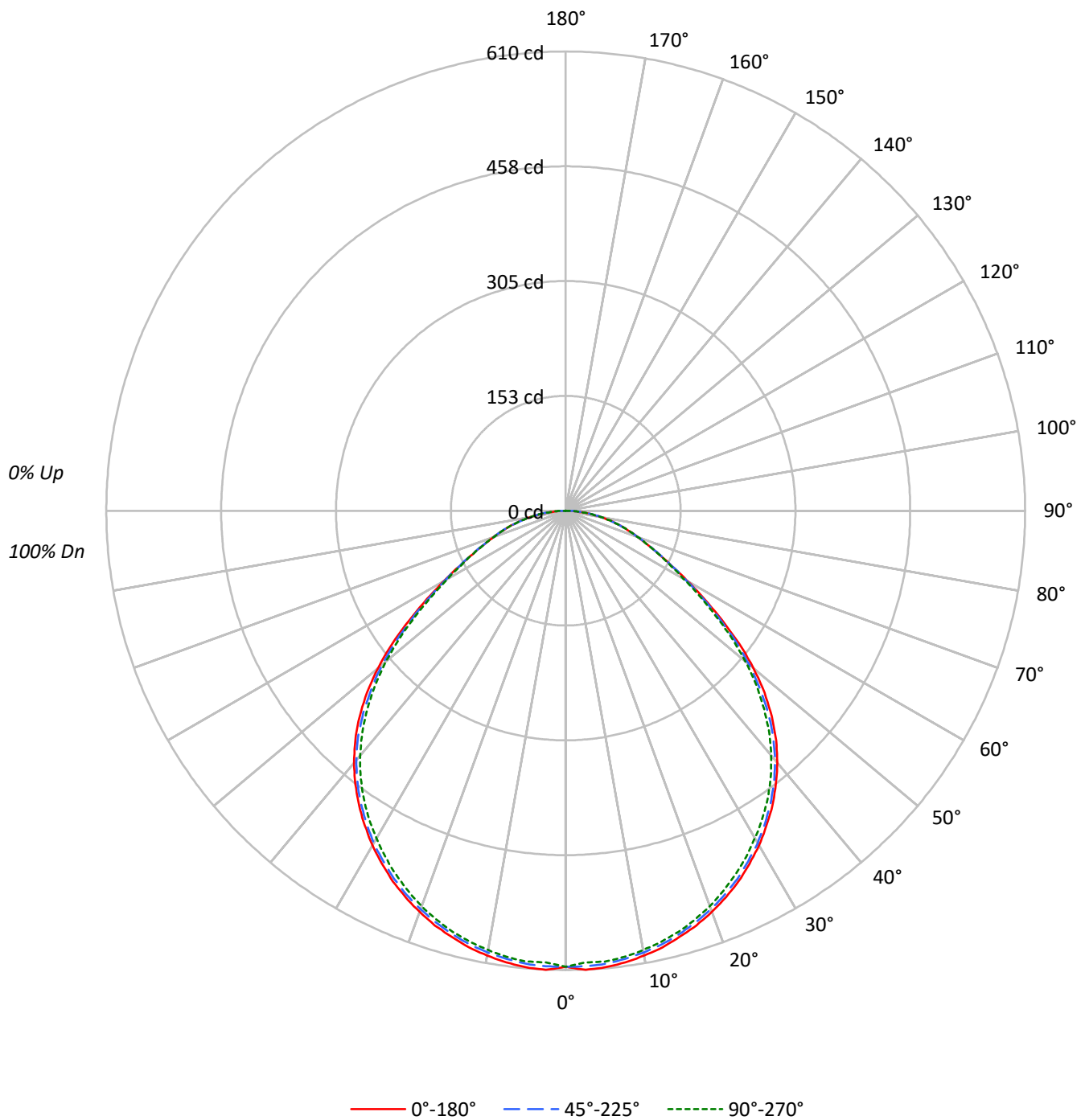
Lumens per Lamp: N/A
Luminaire Lumens: 1514.2 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5831	5831	5831
5°	5884	5838	5808
10°	5865	5824	5793
15°	5839	5803	5772
20°	5810	5772	5729
25°	5769	5730	5664
30°	5706	5666	5585
35°	5623	5573	5493
40°	5495	5435	5336
45°	5270	5178	5072
50°	4875	4758	4664
55°	4255	4159	4072
60°	3585	3556	3485
65°	3103	3114	3089
70°	2849	2863	2863
75°	2738	2738	2756
80°	2572	2606	2572
85°	2077	2309	2309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.8
10°-20°	164.0	10.8
20°-30°	247.3	16.3
30°-40°	294.7	19.5
40°-50°	290.7	19.2
50°-60°	221.8	14.6
60°-70°	136.9	9.0
70°-80°	78.0	5.2
80°-90°	23.5	1.6
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°	468.6	30.9
0°-40°	763.3	50.4
0°-60°	1275.8	84.3
0°-90°	1514.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	609	602	604	602	601	58
15°	586	580	582	580	579	165
25°	543	536	539	534	533	250
35°	478	473	474	468	467	299
45°	387	382	380	374	372	297
55°	254	249	248	244	243	227
65°	136	135	137	136	136	137
75°	74	74	74	74	74	78
85°	19	20	21	21	21	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.7	605.7	605.7	605.7	605.7
2.5°	610.4	603.6	605.7	604.1	600.5
5°	608.8	602.0	604.1	602.0	601.0
7.5°	605.2	598.4	600.5	598.4	597.8
10°	599.9	593.7	595.8	593.7	592.6
12.5°	594.2	587.4	590.0	587.4	586.4
15°	585.8	579.6	582.2	580.1	579.1
17.5°	577.5	570.7	573.3	571.2	569.7
20°	567.1	560.8	563.4	559.8	559.2
22.5°	555.6	549.3	551.9	546.7	546.7
25°	543.1	536.3	539.4	533.7	533.2
27.5°	528.5	522.2	524.8	519.1	518.6
30°	513.3	507.1	509.7	503.4	502.4
32.5°	496.1	490.4	492.5	486.2	485.7
35°	478.4	472.6	474.2	467.9	467.4
37.5°	458.6	453.3	454.4	447.6	447.1
40°	437.2	432.0	432.5	425.2	424.6
42.5°	413.7	408.5	408.0	400.7	400.1
45°	387.1	381.9	380.3	373.5	372.5
47.5°	357.9	352.7	349.5	343.8	343.3
50°	325.5	320.3	317.7	313.0	311.4
52.5°	290.6	285.4	283.3	279.1	277.5
55°	253.5	249.4	247.8	243.6	242.6
57.5°	218.1	214.9	214.4	210.2	209.7
60°	186.2	184.7	184.7	181.0	181.0
62.5°	159.1	158.1	159.1	157.0	156.5
65°	136.2	135.1	136.7	135.6	135.6
67.5°	116.9	116.9	117.9	117.4	117.4
70°	101.2	101.2	101.7	101.7	101.7
72.5°	87.1	86.6	88.2	88.2	87.6
75°	73.6	73.6	73.6	74.1	74.1
77.5°	60.0	60.0	60.5	60.5	60.0
80°	46.4	47.0	47.0	46.4	46.4
82.5°	32.9	33.4	33.4	33.4	32.9
85°	18.8	19.8	20.9	20.9	20.9
87.5°	6.8	8.9	10.4	10.4	9.9
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	16.41	17.97	16.78	18.29	18.60	16.24	17.80	16.60	18.11	18.43
	3H	17.72	19.13	18.10	19.45	19.81	17.62	19.02	18.00	19.35	19.71
	4H	18.28	19.60	18.68	19.95	20.33	18.21	19.53	18.61	19.87	20.25
	6H	18.74	19.96	19.16	20.33	20.72	18.68	19.90	19.09	20.26	20.66
	8H	18.90	20.06	19.33	20.45	20.85	18.84	20.00	19.26	20.39	20.79
	12H	18.99	20.11	19.42	20.49	20.92	18.95	20.06	19.38	20.44	20.87
4H	2H	16.85	18.17	17.25	18.52	18.89	16.71	18.02	17.11	18.37	18.75
	3H	18.41	19.51	18.82	19.91	20.31	18.34	19.43	18.75	19.83	20.23
	4H	19.12	20.11	19.55	20.52	20.96	19.07	20.06	19.50	20.47	20.91
	6H	19.73	20.59	20.18	21.03	21.49	19.69	20.55	20.14	20.99	21.45
	8H	19.93	20.74	20.40	21.18	21.65	19.90	20.70	20.36	21.15	21.61
	12H	20.08	20.80	20.56	21.27	21.74	20.06	20.78	20.54	21.26	21.73
8H	4H	19.40	20.20	19.86	20.64	21.11	19.35	20.16	19.81	20.60	21.07
	6H	20.13	20.80	20.63	21.29	21.77	20.09	20.76	20.59	21.25	21.73
	8H	20.42	21.02	20.93	21.53	22.02	20.38	20.99	20.90	21.49	21.98
	12H	20.63	21.17	21.14	21.66	22.22	20.62	21.16	21.13	21.65	22.21
12H	4H	19.42	20.15	19.91	20.62	21.09	19.38	20.10	19.86	20.58	21.05
	6H	20.19	20.79	20.70	21.30	21.78	20.15	20.75	20.66	21.26	21.75
	8H	20.53	21.07	21.04	21.56	22.12	20.50	21.03	21.01	21.53	22.09

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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