

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: P1055113

Luminaire Tested: SQ4R-PC3-050D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-050D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

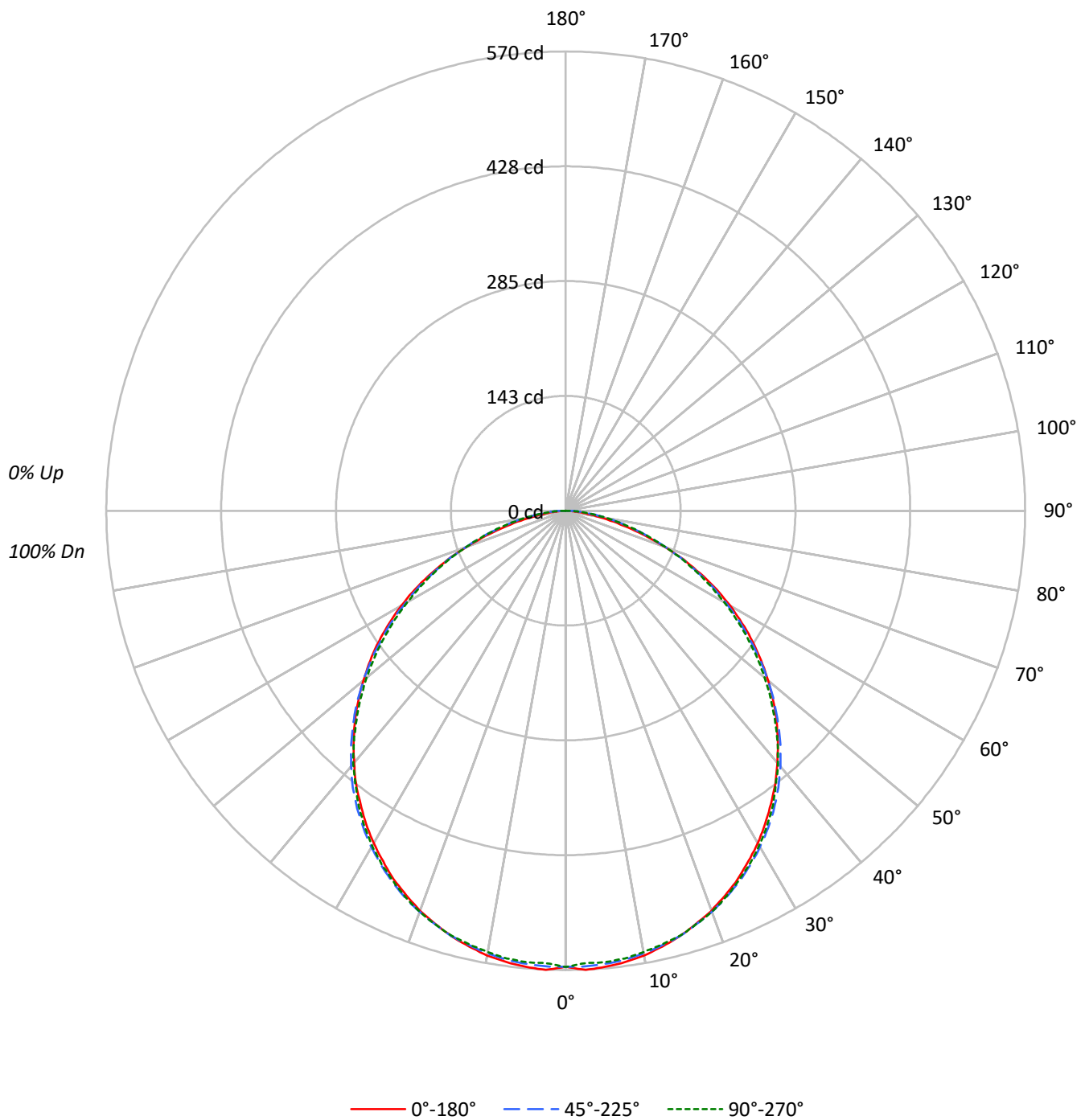
Lumens per Lamp: N/A
Luminaire Lumens: 1545.5 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		102
1	109	105	100	97	106	102	98	95	98	95	92			94	92	89		91
2	99	91	85	79	97	90	83	78	86	81	76			83	78	75		80
3	91	80	72	66	88	79	71	65	76	70	64			73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55			65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48			59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42			53	46	41		52
7	66	52	43	37	64	51	43	37	50	42	37			48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33			44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30			41	34	30		40
10	54	40	32	27	52	40	32	27	39	32	27			38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5451	5451	5451
5°	5492	5456	5436
10°	5478	5453	5437
15°	5450	5450	5445
20°	5414	5430	5430
25°	5363	5402	5386
30°	5297	5362	5338
35°	5218	5299	5262
40°	5133	5206	5153
45°	5039	5074	4997
50°	4908	4908	4829
55°	4752	4690	4619
60°	4523	4431	4361
65°	4180	4096	4059
70°	3659	3690	3673
75°	2946	3258	3277
80°	2090	2761	2789
85°	1270	2320	2320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	3.5
10°-20°	153.8	10.0
20°-30°	233.0	15.1
30°-40°	279.4	18.1
40°-50°	284.8	18.4
50°-60°	248.6	16.1
60°-70°	178.0	11.5
70°-80°	91.4	5.9
80°-90°	22.9	1.5
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°	440.5	28.5
0°-40°	719.8	46.6
0°-60°	1253.2	81.1
0°-90°	1545.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	568	562	565	563	562	54
15°	547	542	547	547	546	154
25°	505	501	508	507	507	232
35°	444	443	451	448	448	278
45°	370	369	373	368	367	285
55°	283	279	279	275	275	253
65°	184	179	180	178	178	182
75°	79	83	88	88	88	85
85°	12	18	21	22	21	16
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	566.2	566.2	566.2	566.2	566.2
2.5°	570.4	564.1	566.2	564.6	562.0
5°	568.3	562.5	564.6	563.1	562.5
7.5°	565.1	559.4	562.0	561.0	560.4
10°	560.4	554.7	557.8	556.8	556.2
12.5°	554.1	548.9	552.6	551.5	551.5
15°	546.8	542.1	546.8	546.8	546.3
17.5°	537.9	533.7	538.4	538.9	538.4
20°	528.4	523.7	530.0	529.5	530.0
22.5°	516.9	513.2	520.1	518.5	519.0
25°	504.9	501.2	508.5	507.0	507.0
27.5°	490.7	488.1	495.9	494.4	494.4
30°	476.5	473.9	482.3	480.2	480.2
32.5°	460.8	459.2	467.1	464.5	464.5
35°	444.0	443.0	450.9	447.7	447.7
37.5°	427.3	426.2	433.6	429.9	428.3
40°	408.4	407.9	414.2	410.0	410.0
42.5°	389.5	389.0	394.2	389.0	389.0
45°	370.1	369.1	372.7	368.0	367.0
47.5°	349.2	348.1	350.7	345.5	345.0
50°	327.7	326.6	327.7	322.9	322.4
52.5°	305.6	303.5	303.5	298.8	298.8
55°	283.1	279.4	279.4	275.2	275.2
57.5°	259.5	254.8	255.3	251.6	251.1
60°	234.9	229.6	230.1	227.0	226.5
62.5°	210.8	204.5	206.0	202.4	202.4
65°	183.5	179.3	179.8	178.2	178.2
67.5°	158.3	154.1	156.8	155.2	155.2
70°	130.0	127.4	131.1	131.1	130.5
72.5°	103.8	104.3	109.0	109.0	109.6
75°	79.2	82.8	87.6	88.1	88.1
77.5°	56.6	62.9	68.2	68.2	68.2
80°	37.7	45.1	49.8	50.9	50.3
82.5°	22.5	30.4	34.1	35.1	34.6
85°	11.5	17.8	21.0	21.5	21.0
87.5°	4.2	8.9	10.5	10.5	9.4
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	17.48	19.10	17.85	19.41	19.73	17.37	18.99	17.74	19.30	19.61
	3H	19.04	20.49	19.41	20.82	21.18	18.98	20.43	19.35	20.76	21.12
	4H	19.51	20.88	19.91	21.23	21.60	19.54	20.91	19.94	21.25	21.63
	6H	19.76	21.03	20.18	21.40	21.79	19.92	21.19	20.33	21.55	21.95
	8H	19.81	21.02	20.24	21.41	21.81	20.04	21.25	20.46	21.64	22.04
	12H	19.83	20.99	20.26	21.37	21.80	20.11	21.27	20.54	21.65	22.08
4H	2H	18.05	19.42	18.45	19.77	20.14	17.96	19.33	18.36	19.68	20.05
	3H	19.80	20.94	20.20	21.34	21.74	19.77	20.91	20.18	21.31	21.71
	4H	20.38	21.41	20.81	21.82	22.26	20.44	21.48	20.88	21.89	22.33
	6H	20.74	21.64	21.20	22.08	22.54	20.94	21.85	21.40	22.29	22.74
	8H	20.82	21.66	21.28	22.11	22.57	21.10	21.94	21.56	22.39	22.85
	12H	20.86	21.62	21.34	22.09	22.56	21.21	21.97	21.69	22.45	22.92
8H	4H	20.64	21.48	21.10	21.92	22.39	20.69	21.54	21.15	21.98	22.44
	6H	21.10	21.80	21.59	22.29	22.76	21.30	22.00	21.79	22.49	22.96
	8H	21.23	21.86	21.74	22.37	22.85	21.52	22.15	22.03	22.65	23.14
	12H	21.32	21.88	21.83	22.37	22.93	21.70	22.25	22.21	22.74	23.30
12H	4H	20.66	21.41	21.14	21.89	22.36	20.71	21.46	21.19	21.94	22.41
	6H	21.14	21.77	21.65	22.27	22.76	21.33	21.96	21.84	22.46	22.95
	8H	21.33	21.88	21.83	22.37	22.93	21.60	22.16	22.11	22.65	23.21