

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: P1055126

Luminaire Tested: SQ4R-PP3-075D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055126
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-PP3-075D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

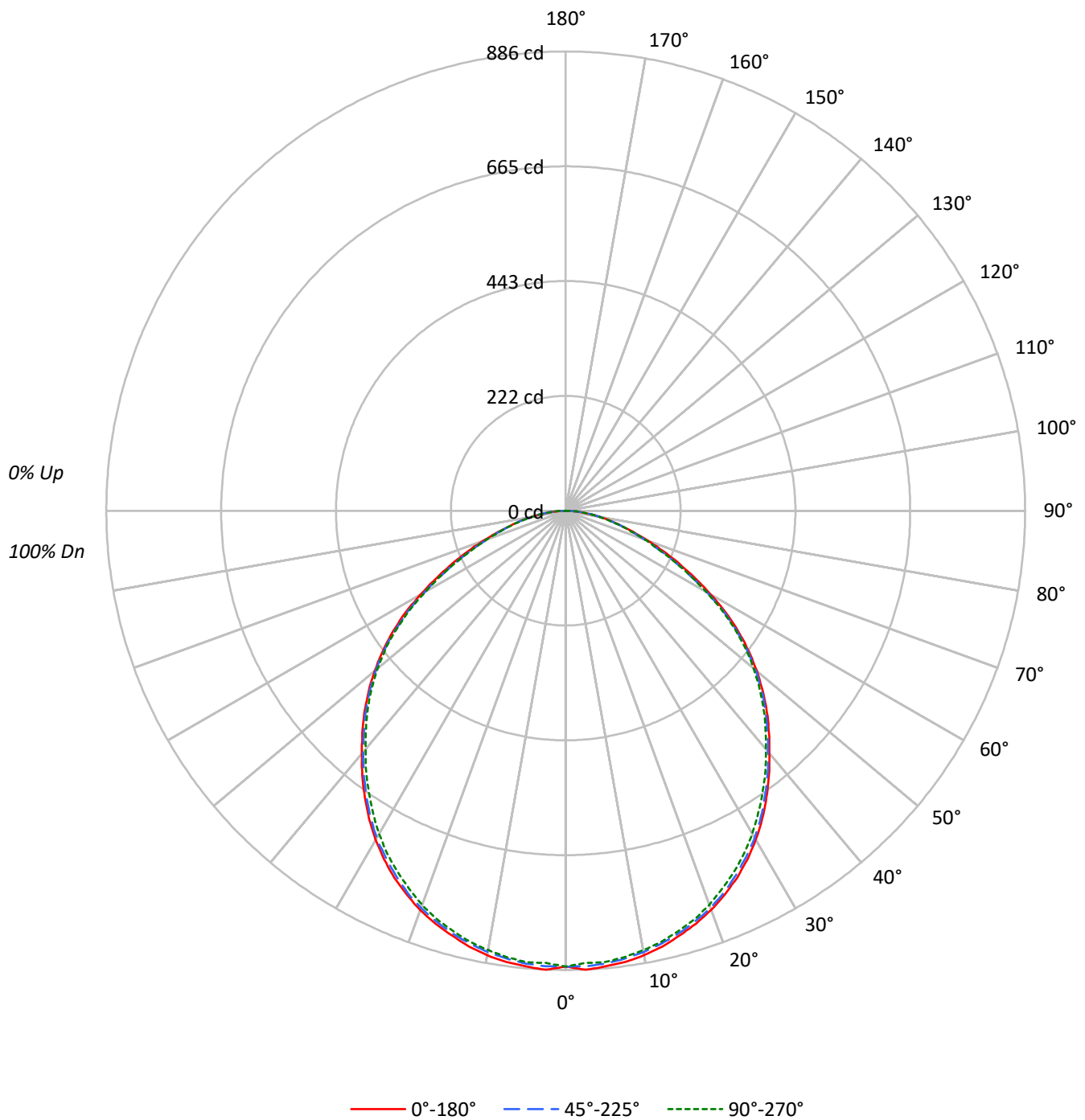
Lumens per Lamp: N/A
Luminaire Lumens: 2250.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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

TEST NUMBER: P1055126

CATALOG NUMBER: SQ4R-PP3-075D-927-1-UNV-STD-W-4

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8466	8466	8466
5°	8529	8476	8446
10°	8514	8453	8416
15°	8457	8411	8365
20°	8401	8354	8290
25°	8302	8244	8162
30°	8147	8105	8002
35°	7934	7880	7780
40°	7681	7632	7546
45°	7471	7419	7345
50°	7203	7156	7087
55°	6830	6739	6689
60°	6217	6040	6009
65°	5479	5249	5233
70°	4729	4535	4535
75°	4069	4014	3958
80°	3587	3631	3548
85°	2806	3060	3060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7471 cd/sqm

TEST NUMBER: P1055126

CATALOG NUMBER: SQ4R-PP3-075D-927-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.7
10°-20°	237.6	10.6
20°-30°	355.8	15.8
30°-40°	417.3	18.5
40°-50°	418.6	18.6
50°-60°	357.5	15.9
60°-70°	232.3	10.3
70°-80°	116.3	5.2
80°-90°	31.9	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°	676.6	30.1
0°-40°	1094.0	48.6
0°-60°	1870.0	83.1
0°-90°	2250.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	882	874	877	874	874	84
15°	848	840	844	841	839	240
25°	782	772	776	769	768	360
35°	675	668	670	663	662	422
45°	549	545	545	540	540	423
55°	407	405	402	399	398	362
65°	240	236	230	229	230	240
75°	109	109	108	107	106	118
85°	25	28	28	28	28	30
90°	0	0	0	0	0	

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CATALOG NUMBER: SQ4R-PP3-075D-927-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.4	879.4	879.4	879.4	879.4
2.5°	886.3	877.1	879.4	877.8	873.2
5°	882.5	874.0	877.1	874.0	874.0
7.5°	877.8	868.6	871.7	868.6	868.6
10°	870.9	861.6	864.7	861.6	860.9
12.5°	860.9	851.6	855.5	851.6	851.6
15°	848.5	840.1	843.9	840.8	839.3
17.5°	835.4	826.2	830.8	827.0	826.2
20°	820.0	810.8	815.4	809.2	809.2
22.5°	801.5	792.3	797.7	789.2	789.2
25°	781.5	772.2	776.1	769.2	768.4
27.5°	758.4	749.1	753.0	745.3	745.3
30°	732.9	724.5	729.1	720.6	719.8
32.5°	705.2	697.5	700.6	692.1	691.3
35°	675.1	668.2	670.5	662.8	662.0
37.5°	644.3	636.6	639.7	632.7	632.7
40°	611.2	606.5	607.3	601.9	600.4
42.5°	580.3	574.9	575.7	570.3	570.3
45°	548.7	544.9	544.9	539.5	539.5
47.5°	515.6	512.5	511.7	507.1	507.1
50°	480.9	478.6	477.8	474.0	473.2
52.5°	444.7	443.9	440.8	437.8	437.8
55°	406.9	405.4	401.5	399.2	398.5
57.5°	366.9	363.8	359.9	356.1	356.8
60°	322.9	319.8	313.7	312.1	312.1
62.5°	280.5	276.7	270.5	268.2	269.7
65°	240.5	235.8	230.4	228.9	229.7
67.5°	203.5	198.8	192.7	192.7	191.9
70°	168.0	165.7	161.1	161.1	161.1
72.5°	136.4	135.6	132.6	132.6	131.8
75°	109.4	109.4	107.9	107.1	106.4
77.5°	86.3	86.3	85.5	84.8	83.2
80°	64.7	66.3	65.5	64.7	64.0
82.5°	44.7	46.2	46.2	44.7	44.7
85°	25.4	27.7	27.7	27.7	27.7
87.5°	8.5	11.6	12.3	12.3	13.1
90°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: SQ4R-PP3-075D-927-1-UNV-STD-W-4

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	18.67	20.25	19.03	20.57	20.88	18.51	20.09	18.87	20.41	20.72
	3H	19.98	21.40	20.35	21.73	22.09	19.77	21.20	20.15	21.53	21.89
	4H	20.42	21.76	20.82	22.11	22.49	20.22	21.56	20.62	21.91	22.29
	6H	20.75	21.99	21.16	22.36	22.75	20.55	21.79	20.97	22.16	22.55
	8H	20.85	22.04	21.28	22.42	22.82	20.66	21.84	21.09	22.23	22.63
	12H	20.91	22.04	21.34	22.43	22.85	20.73	21.86	21.16	22.25	22.68
4H	2H	19.10	20.44	19.50	20.79	21.17	18.97	20.31	19.37	20.66	21.04
	3H	20.62	21.73	21.03	22.13	22.53	20.45	21.56	20.86	21.96	22.36
	4H	21.18	22.19	21.62	22.60	23.04	21.01	22.02	21.45	22.43	22.87
	6H	21.64	22.51	22.09	22.95	23.41	21.47	22.34	21.92	22.78	23.24
	8H	21.78	22.60	22.24	23.04	23.51	21.62	22.44	22.08	22.88	23.35
	12H	21.88	22.61	22.36	23.09	23.56	21.73	22.46	22.21	22.94	23.41
8H	4H	21.39	22.21	21.85	22.65	23.12	21.23	22.05	21.70	22.50	22.96
	6H	21.95	22.63	22.44	23.12	23.59	21.79	22.47	22.29	22.96	23.44
	8H	22.16	22.77	22.67	23.28	23.76	22.01	22.62	22.52	23.13	23.61
	12H	22.32	22.86	22.83	23.35	23.91	22.18	22.72	22.69	23.22	23.78
12H	4H	21.40	22.14	21.88	22.61	23.08	21.25	21.99	21.73	22.46	22.93
	6H	21.98	22.59	22.49	23.10	23.59	21.83	22.44	22.34	22.95	23.44
	8H	22.24	22.78	22.75	23.28	23.84	22.10	22.64	22.61	23.13	23.69