

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: P1055137

Luminaire Tested: SQ4R-PW1-050D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-050D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

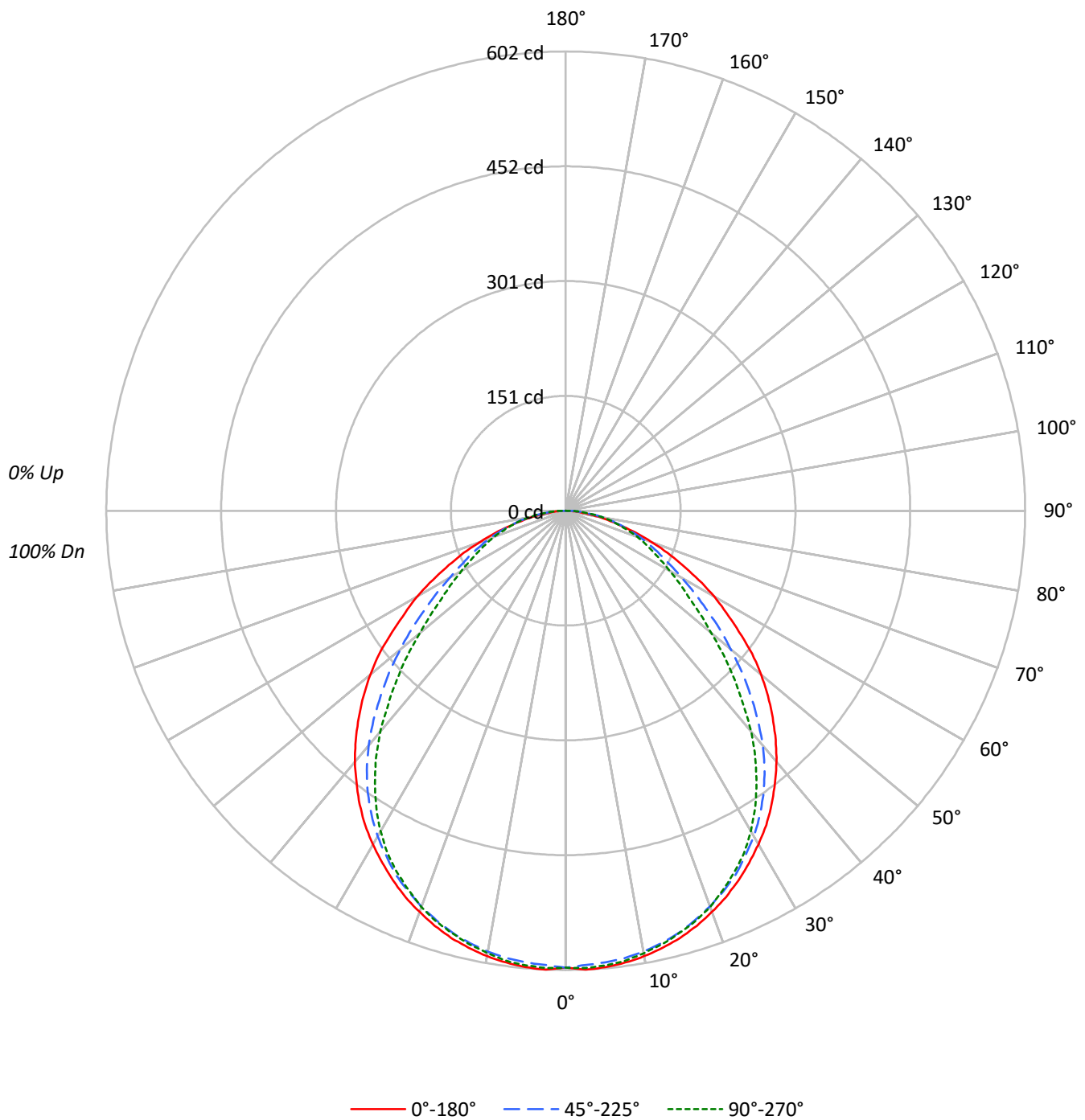
Lumens per Lamp: N/A
Luminaire Lumens: 1463.7 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1055137

CATALOG NUMBER: SQ4R-PW1-050D-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	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	99	96	93	95	92	90	91	89	87
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74
3	92	82	74	68	89	80	73	67	77	71	66	75	69	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	59	50	44	57	49	44	55	49	44	54	48	43
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5768	5768	5768
5°	5804	5744	5782
10°	5796	5735	5758
15°	5779	5710	5717
20°	5735	5656	5665
25°	5684	5595	5553
30°	5615	5478	5393
35°	5530	5312	5122
40°	5400	5051	4752
45°	5221	4665	4256
50°	5005	4233	3725
55°	4653	3761	3295
60°	4328	3366	3025
65°	3841	3123	2859
70°	3338	2970	2818
75°	2749	2808	2693
80°	2179	2645	2645
85°	1613	2386	2463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5221 cd/sqm

TEST NUMBER: P1055137

CATALOG NUMBER: SQ4R-PW1-050D-927-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	3.9
10°-20°	162.3	11.1
20°-30°	243.2	16.6
30°-40°	282.5	19.3
40°-50°	266.6	18.2
50°-60°	208.0	14.2
60°-70°	141.2	9.6
70°-80°	79.5	5.4
80°-90°	23.6	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°	462.3	31.6
0°-40°	744.9	50.9
0°-60°	1219.4	83.3
0°-90°	1463.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	601	599	594	599	598	57
15°	580	578	573	576	574	163
25°	535	533	527	525	523	246
35°	470	466	452	442	436	294
45°	384	372	343	321	313	296
55°	277	261	224	202	196	249
65°	169	153	137	129	126	168
75°	74	77	76	72	72	80
85°	15	21	22	22	22	18
90°	0	0	0	0	0	

TEST NUMBER: P1055137

CATALOG NUMBER: SQ4R-PW1-050D-927-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.1	599.1	599.1	599.1	599.1
2.5°	602.1	600.6	596.0	600.6	599.8
5°	600.6	599.1	594.4	599.1	598.3
7.5°	597.5	596.7	591.4	596.0	595.2
10°	592.9	592.1	586.7	590.6	589.0
12.5°	586.7	586.0	580.6	583.7	582.1
15°	579.8	577.5	572.9	576.0	573.6
17.5°	570.6	568.3	562.9	565.2	564.4
20°	559.8	557.5	552.1	554.4	552.9
22.5°	548.2	545.9	539.8	540.5	538.2
25°	535.1	532.8	526.7	525.1	522.8
27.5°	520.5	519.0	509.7	508.2	505.9
30°	505.1	502.8	492.8	489.7	485.1
32.5°	488.9	484.3	473.5	467.4	462.0
35°	470.5	465.8	452.0	442.0	435.8
37.5°	450.4	443.5	428.1	414.3	408.1
40°	429.7	422.0	401.9	383.5	378.1
42.5°	407.3	398.1	372.7	353.4	344.2
45°	383.5	371.9	342.6	321.1	312.6
47.5°	359.6	345.0	313.4	290.3	281.0
50°	334.2	316.5	282.6	257.9	248.7
52.5°	308.0	288.7	254.1	228.7	221.8
55°	277.2	261.0	224.1	202.5	196.3
57.5°	249.5	231.8	199.4	180.9	176.3
60°	224.8	203.3	174.8	160.9	157.1
62.5°	196.3	177.1	154.8	144.0	140.1
65°	168.6	153.2	137.1	128.6	125.5
67.5°	144.8	131.7	120.9	114.0	112.4
70°	118.6	111.6	105.5	100.1	100.1
72.5°	96.2	93.9	90.1	87.0	84.7
75°	73.9	77.0	75.5	72.4	72.4
77.5°	56.2	60.8	61.6	60.1	60.8
80°	39.3	46.2	47.7	47.0	47.7
82.5°	24.6	33.1	34.6	34.6	35.4
85°	14.6	20.8	21.6	21.6	22.3
87.5°	6.2	10.0	10.8	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1055137

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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	17.15	18.71	17.51	19.02	19.34	15.30	16.86	15.67	17.18	17.49
	3H	18.61	20.02	18.99	20.34	20.70	17.01	18.41	17.39	18.74	19.10
	4H	19.10	20.42	19.50	20.77	21.15	17.70	19.02	18.10	19.37	19.74
	6H	19.42	20.64	19.83	21.00	21.39	18.28	19.50	18.69	19.87	20.26
	8H	19.49	20.65	19.92	21.04	21.44	18.49	19.66	18.92	20.05	20.45
	12H	19.53	20.64	19.96	21.03	21.46	18.65	19.76	19.08	20.14	20.57
4H	2H	17.49	18.81	17.89	19.15	19.53	15.97	17.29	16.37	17.64	18.02
	3H	19.19	20.29	19.60	20.69	21.09	17.91	19.01	18.32	19.41	19.81
	4H	19.83	20.82	20.26	21.24	21.67	18.72	19.72	19.16	20.13	20.57
	6H	20.28	21.15	20.74	21.59	22.05	19.44	20.30	19.89	20.75	21.20
	8H	20.41	21.22	20.87	21.66	22.13	19.70	20.51	20.17	20.96	21.42
	12H	20.48	21.21	20.97	21.69	22.16	19.91	20.63	20.39	21.11	21.58
8H	4H	20.06	20.87	20.52	21.31	21.78	19.08	19.89	19.54	20.33	20.80
	6H	20.64	21.31	21.14	21.80	22.28	19.93	20.60	20.42	21.09	21.56
	8H	20.84	21.44	21.35	21.95	22.44	20.28	20.88	20.79	21.39	21.87
	12H	20.99	21.52	21.50	22.02	22.58	20.56	21.10	21.07	21.59	22.15
12H	4H	20.08	20.80	20.56	21.28	21.75	19.12	19.84	19.60	20.32	20.79
	6H	20.69	21.29	21.20	21.80	22.29	20.00	20.60	20.51	21.11	21.59
	8H	20.95	21.48	21.46	21.97	22.54	20.41	20.94	20.92	21.43	22.00