

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: P1055138

Luminaire Tested: SQ4R-PW1-075D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055138
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-PW1-075D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

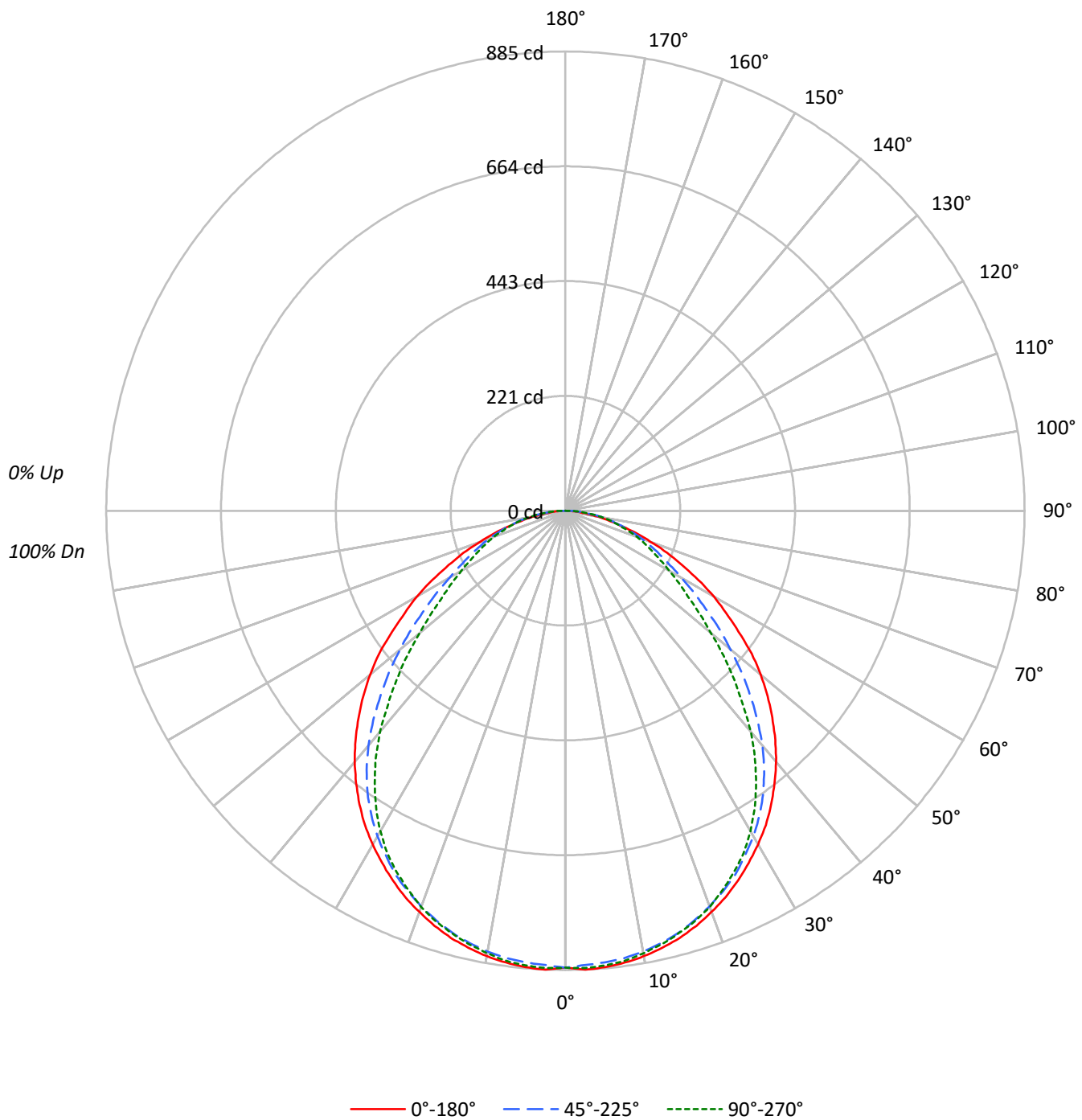
Lumens per Lamp: N/A
Luminaire Lumens: 2151.8 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1055138

CATALOG NUMBER: SQ4R-PW1-075D-927-1-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P1055138

CATALOG NUMBER: SQ4R-PW1-075D-927-1-UNV-STD-W-4

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°	8479	8479	8479
5°	8533	8445	8501
10°	8521	8433	8466
15°	8496	8394	8405
20°	8432	8315	8327
25°	8357	8225	8165
30°	8255	8054	7928
35°	8128	7810	7530
40°	7939	7426	6985
45°	7675	6858	6258
50°	7358	6222	5476
55°	6840	5529	4846
60°	6364	4948	4446
65°	5647	4590	4203
70°	4906	4366	4143
75°	4043	4125	3958
80°	3199	3892	3892
85°	2375	3502	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7675 cd/sqm

TEST NUMBER: P1055138

CATALOG NUMBER: SQ4R-PW1-075D-927-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.9
10°-20°	238.7	11.1
20°-30°	357.5	16.6
30°-40°	415.4	19.3
40°-50°	391.9	18.2
50°-60°	305.7	14.2
60°-70°	207.6	9.6
70°-80°	116.9	5.4
80°-90°	34.7	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°	679.7	31.6
0°-40°	1095.1	50.9
0°-60°	1792.7	83.3
0°-90°	2151.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	883	881	874	881	880	84
15°	852	849	842	847	843	240
25°	787	783	774	772	769	362
35°	692	685	664	650	641	432
45°	564	547	504	472	460	435
55°	408	384	329	298	289	366
65°	248	225	202	189	184	248
75°	109	113	111	106	106	118
85°	22	31	32	32	33	26
90°	0	0	0	0	0	

TEST NUMBER: P1055138

CATALOG NUMBER: SQ4R-PW1-075D-927-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.7	880.7	880.7	880.7	880.7
2.5°	885.2	883.0	876.2	883.0	881.8
5°	883.0	880.7	873.9	880.7	879.6
7.5°	878.4	877.3	869.4	876.2	875.0
10°	871.6	870.5	862.6	868.2	866.0
12.5°	862.6	861.4	853.5	858.1	855.8
15°	852.4	849.0	842.2	846.7	843.3
17.5°	838.8	835.4	827.5	830.9	829.8
20°	823.0	819.6	811.6	815.0	812.8
22.5°	806.0	802.6	793.5	794.7	791.3
25°	786.7	783.3	774.3	772.0	768.6
27.5°	765.2	763.0	749.4	747.1	743.7
30°	742.6	739.2	724.5	719.9	713.2
32.5°	718.8	712.0	696.2	687.1	679.2
35°	691.6	684.9	664.5	649.8	640.7
37.5°	662.2	652.0	629.4	609.0	600.0
40°	631.7	620.3	590.9	563.7	555.8
42.5°	598.8	585.2	547.9	519.6	506.0
45°	563.7	546.8	503.7	472.0	459.6
47.5°	528.6	507.1	460.7	426.8	413.2
50°	491.3	465.2	415.4	379.2	365.6
52.5°	452.8	424.5	373.6	336.2	326.0
55°	407.5	383.7	329.4	297.7	288.7
57.5°	366.8	340.7	293.2	266.0	259.2
60°	330.5	298.8	257.0	236.6	230.9
62.5°	288.7	260.4	227.5	211.7	206.0
65°	247.9	225.3	201.5	189.0	184.5
67.5°	212.8	193.6	177.7	167.5	165.3
70°	174.3	164.1	155.1	147.2	147.2
72.5°	141.5	138.1	132.4	127.9	124.5
75°	108.7	113.2	110.9	106.4	106.4
77.5°	82.6	89.4	90.6	88.3	89.4
80°	57.7	67.9	70.2	69.1	70.2
82.5°	36.2	48.7	50.9	50.9	52.1
85°	21.5	30.6	31.7	31.7	32.8
87.5°	9.1	14.7	15.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1055138

CATALOG NUMBER: SQ4R-PW1-075D-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	18.49	20.05	18.85	20.36	20.67	16.64	18.20	17.01	18.52	18.83
	3H	19.95	21.35	20.33	21.68	22.04	18.35	19.75	18.73	20.08	20.44
	4H	20.44	21.76	20.84	22.11	22.48	19.04	20.36	19.44	20.71	21.08
	6H	20.75	21.97	21.17	22.34	22.73	19.62	20.84	20.03	21.21	21.60
	8H	20.83	21.99	21.26	22.38	22.78	19.83	21.00	20.26	21.39	21.79
	12H	20.87	21.98	21.30	22.36	22.79	19.99	21.10	20.42	21.48	21.91
4H	2H	18.82	20.14	19.22	20.49	20.87	17.31	18.63	17.71	18.98	19.36
	3H	20.53	21.63	20.94	22.03	22.43	19.25	20.35	19.66	20.75	21.15
	4H	21.17	22.16	21.60	22.57	23.01	20.06	21.05	20.50	21.47	21.91
	6H	21.62	22.49	22.08	22.93	23.39	20.78	21.64	21.23	22.08	22.54
	8H	21.74	22.55	22.21	23.00	23.46	21.04	21.85	21.51	22.30	22.76
	12H	21.82	22.55	22.30	23.02	23.50	21.25	21.97	21.73	22.45	22.92
8H	4H	21.40	22.20	21.86	22.65	23.11	20.42	21.22	20.88	21.67	22.13
	6H	21.98	22.65	22.47	23.14	23.62	21.27	21.94	21.76	22.43	22.90
	8H	22.18	22.78	22.69	23.29	23.78	21.62	22.22	22.13	22.73	23.21
	12H	22.33	22.86	22.84	23.36	23.92	21.90	22.44	22.41	22.93	23.49
12H	4H	21.42	22.14	21.90	22.62	23.09	20.45	21.18	20.94	21.66	22.13
	6H	22.03	22.63	22.54	23.14	23.63	21.33	21.94	21.85	22.45	22.93
	8H	22.29	22.82	22.80	23.31	23.88	21.75	22.28	22.26	22.77	23.34