

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: P1055140

Luminaire Tested: SQ4R-PW1-125D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055140
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-PW1-125D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

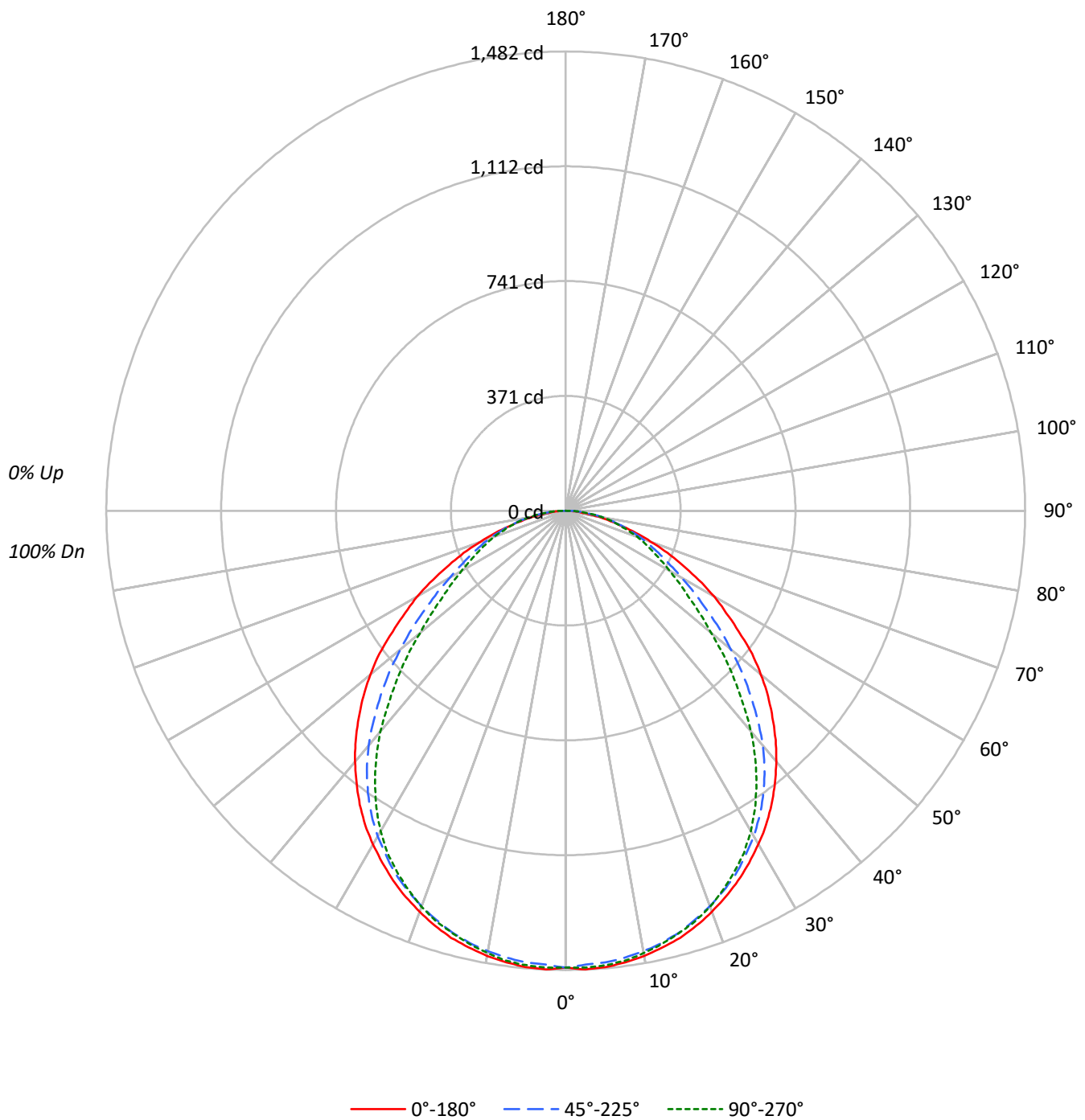
Lumens per Lamp: N/A
Luminaire Lumens: 3601.8 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 49.5
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: P1055140

CATALOG NUMBER: SQ4R-PW1-125D-927-1-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P1055140

CATALOG NUMBER: SQ4R-PW1-125D-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		0
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	99	96	93			95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78			84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66			75	69	65		72
4	85	73	65	58	82	72	64	58	69	63	57			67	61	56		65
5	78	66	57	51	76	65	57	50	63	55	50			61	54	49		59
6	72	59	51	45	70	59	50	44	57	49	44			55	49	44		54
7	67	54	46	40	65	53	45	40	52	45	39			50	44	39		49
8	63	50	41	36	61	49	41	36	48	40	35			46	40	35		45
9	59	46	38	32	57	45	37	32	44	37	32			43	36	32		42
10	55	42	34	29	54	42	34	29	41	34	29			40	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14192	14192	14192
5°	14283	14137	14228
10°	14263	14114	14170
15°	14221	14050	14069
20°	14113	13918	13938
25°	13989	13767	13666
30°	13818	13481	13270
35°	13606	13071	12604
40°	13288	12431	11692
45°	12847	11480	10474
50°	12316	10415	9166
55°	11449	9255	8110
60°	10654	8281	7442
65°	9454	7684	7035
70°	8214	7307	6933
75°	6766	6908	6625
80°	5356	6514	6514
85°	3977	5865	6064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12847 cd/sqm

TEST NUMBER: P1055140

CATALOG NUMBER: SQ4R-PW1-125D-927-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.9
10°-20°	399.5	11.1
20°-30°	598.4	16.6
30°-40°	695.2	19.3
40°-50°	656.0	18.2
50°-60°	511.8	14.2
60°-70°	347.4	9.6
70°-80°	195.7	5.4
80°-90°	58.1	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°	1137.7	31.6
0°-40°	1832.9	50.9
0°-60°	3000.6	83.3
0°-90°	3601.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1478	1474	1463	1474	1472	140
15°	1427	1421	1410	1417	1412	402
25°	1317	1311	1296	1292	1286	607
35°	1158	1146	1112	1088	1072	723
45°	944	915	843	790	769	728
55°	682	642	551	498	483	613
65°	415	377	337	316	309	415
75°	182	190	186	178	178	198
85°	36	51	53	53	55	44
90°	0	0	0	0	0	

TEST NUMBER: P1055140

CATALOG NUMBER: SQ4R-PW1-125D-927-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.1	1474.1	1474.1	1474.1	1474.1
2.5°	1481.7	1477.9	1466.6	1477.9	1476.0
5°	1477.9	1474.1	1462.8	1474.1	1472.2
7.5°	1470.3	1468.4	1455.2	1466.6	1464.7
10°	1459.0	1457.1	1443.8	1453.3	1449.5
12.5°	1443.8	1441.9	1428.7	1436.2	1432.4
15°	1426.8	1421.1	1409.7	1417.3	1411.6
17.5°	1404.0	1398.3	1385.1	1390.8	1388.9
20°	1377.5	1371.8	1358.5	1364.2	1360.4
22.5°	1349.1	1343.4	1328.2	1330.1	1324.4
25°	1316.9	1311.2	1296.0	1292.2	1286.5
27.5°	1280.9	1277.1	1254.3	1250.5	1244.9
30°	1243.0	1237.3	1212.7	1205.1	1193.7
32.5°	1203.2	1191.8	1165.3	1150.1	1136.9
35°	1157.7	1146.3	1112.2	1087.6	1072.4
37.5°	1108.4	1091.4	1053.5	1019.4	1004.2
40°	1057.3	1038.3	989.1	943.6	930.3
42.5°	1002.3	979.6	917.1	869.7	847.0
45°	943.6	915.2	843.2	790.1	769.3
47.5°	884.9	848.9	771.2	714.3	691.6
50°	822.3	778.8	695.4	634.7	612.0
52.5°	757.9	710.5	625.3	562.7	545.7
55°	682.1	642.3	551.4	498.3	483.2
57.5°	613.9	570.3	490.7	445.3	433.9
60°	553.3	500.2	430.1	396.0	386.5
62.5°	483.2	435.8	380.8	354.3	344.8
65°	415.0	377.1	337.3	316.4	308.8
67.5°	356.2	324.0	297.5	280.4	276.6
70°	291.8	274.7	259.6	246.3	246.3
72.5°	236.8	231.2	221.7	214.1	208.4
75°	181.9	189.5	185.7	178.1	178.1
77.5°	138.3	149.7	151.6	147.8	149.7
80°	96.6	113.7	117.5	115.6	117.5
82.5°	60.6	81.5	85.3	85.3	87.2
85°	36.0	51.2	53.1	53.1	54.9
87.5°	15.2	24.6	26.5	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1055140

CATALOG NUMBER: SQ4R-PW1-125D-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	20.28	21.84	20.64	22.15	22.46	18.43	19.99	18.80	20.31	20.62
	3H	21.74	23.14	22.12	23.47	23.83	20.14	21.54	20.52	21.87	22.23
	4H	22.23	23.55	22.63	23.90	24.27	20.83	22.15	21.23	22.50	22.87
	6H	22.54	23.76	22.96	24.13	24.52	21.41	22.63	21.82	23.00	23.39
	8H	22.62	23.78	23.05	24.17	24.57	21.62	22.79	22.05	23.18	23.58
	12H	22.66	23.77	23.09	24.15	24.58	21.78	22.89	22.21	23.27	23.70
4H	2H	20.61	21.93	21.01	22.28	22.66	19.10	20.42	19.50	20.77	21.15
	3H	22.32	23.42	22.73	23.82	24.22	21.04	22.14	21.45	22.53	22.94
	4H	22.96	23.95	23.39	24.36	24.80	21.85	22.84	22.28	23.26	23.70
	6H	23.41	24.28	23.87	24.72	25.18	22.57	23.43	23.02	23.87	24.33
	8H	23.54	24.34	24.00	24.79	25.25	22.83	23.64	23.30	24.09	24.55
	12H	23.61	24.34	24.09	24.82	25.29	23.04	23.76	23.52	24.24	24.71
8H	4H	23.19	23.99	23.65	24.44	24.90	22.21	23.01	22.67	23.46	23.92
	6H	23.77	24.44	24.26	24.93	25.41	23.06	23.73	23.55	24.22	24.69
	8H	23.97	24.57	24.48	25.08	25.57	23.41	24.01	23.92	24.52	25.00
	12H	24.12	24.65	24.63	25.15	25.71	23.69	24.23	24.20	24.72	25.28
12H	4H	23.21	23.93	23.69	24.41	24.88	22.24	22.97	22.73	23.45	23.92
	6H	23.82	24.42	24.33	24.93	25.42	23.12	23.73	23.64	24.24	24.72
	8H	24.08	24.61	24.59	25.10	25.67	23.54	24.07	24.05	24.56	25.13