

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: P1055134

Luminaire Tested: SQ4R-PR1-125D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-125D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

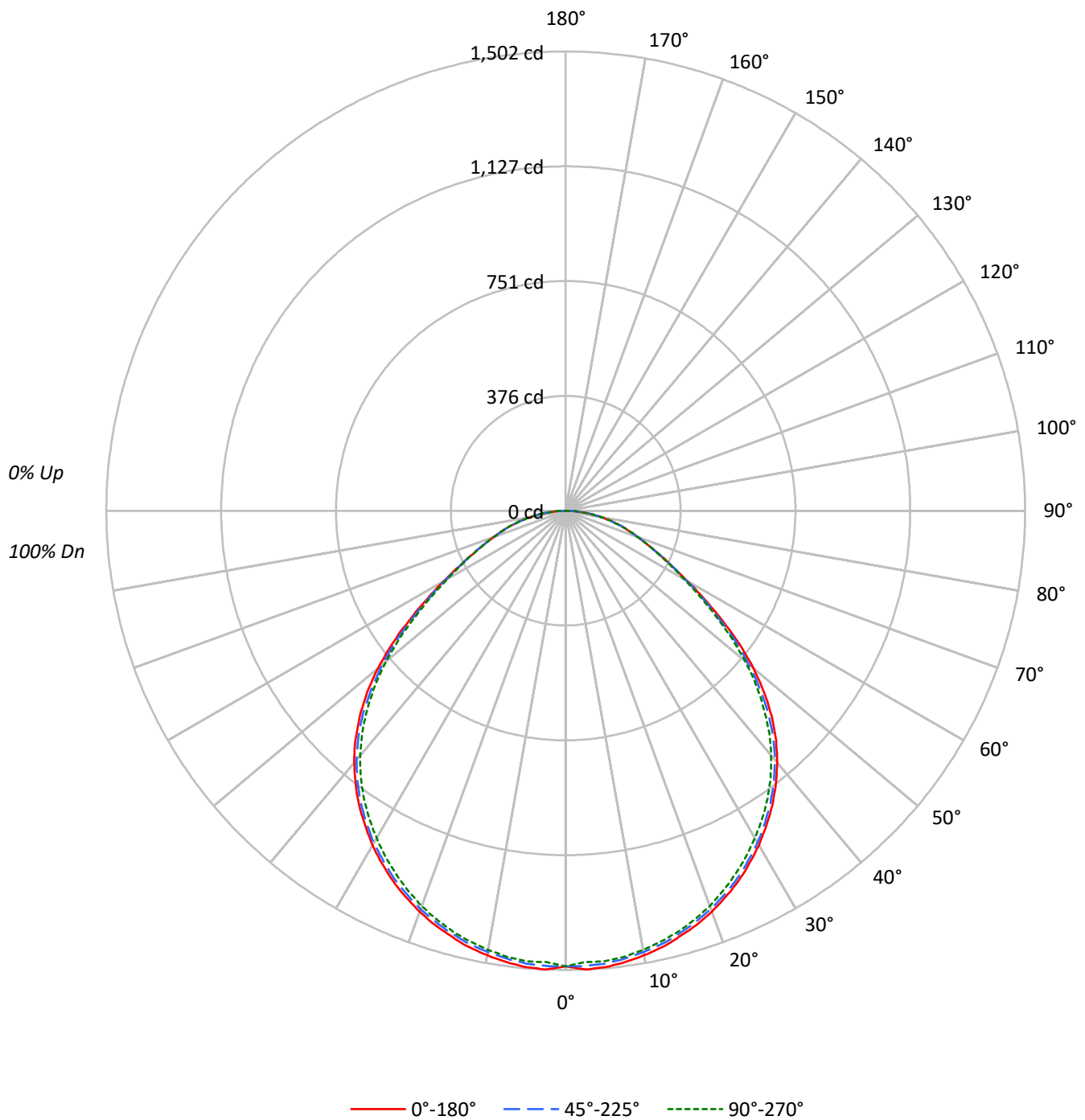
Lumens per Lamp: N/A
Luminaire Lumens: 3726.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14349	14349	14349
5°	14478	14367	14292
10°	14432	14331	14256
15°	14368	14279	14202
20°	14296	14204	14099
25°	14196	14100	13937
30°	14043	13943	13742
35°	13835	13714	13518
40°	13520	13374	13133
45°	12968	12741	12480
50°	11997	11709	11479
55°	10472	10235	10019
60°	8824	8749	8578
65°	7634	7661	7604
70°	7009	7046	7046
75°	6733	6733	6781
80°	6337	6404	6337
85°	5103	5667	5667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12968 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.8
10°-20°	403.5	10.8
20°-30°	608.5	16.3
30°-40°	725.2	19.5
40°-50°	715.4	19.2
50°-60°	545.7	14.6
60°-70°	336.8	9.0
70°-80°	191.9	5.2
80°-90°	57.9	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°	1153.0	30.9
0°-40°	1878.2	50.4
0°-60°	3139.3	84.3
0°-90°	3726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1498	1481	1487	1481	1479	142
15°	1442	1426	1433	1428	1425	407
25°	1336	1320	1327	1313	1312	615
35°	1177	1163	1167	1152	1150	735
45°	952	940	936	919	917	731
55°	624	614	610	600	597	559
65°	335	332	336	334	334	338
75°	181	181	181	182	182	191
85°	46	49	51	51	51	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.4	1490.4	1490.4	1490.4	1490.4
2.5°	1502.0	1485.3	1490.4	1486.6	1477.6
5°	1498.1	1481.4	1486.6	1481.4	1478.9
7.5°	1489.1	1472.4	1477.6	1472.4	1471.2
10°	1476.3	1460.9	1466.0	1460.9	1458.3
12.5°	1462.2	1445.5	1451.9	1445.5	1442.9
15°	1441.6	1426.2	1432.6	1427.5	1424.9
17.5°	1421.1	1404.4	1410.8	1405.7	1401.8
20°	1395.4	1380.0	1386.4	1377.4	1376.2
22.5°	1367.2	1351.8	1358.2	1345.3	1345.3
25°	1336.4	1319.7	1327.4	1313.3	1312.0
27.5°	1300.4	1285.0	1291.4	1277.3	1276.0
30°	1263.2	1247.8	1254.2	1238.8	1236.2
32.5°	1220.8	1206.7	1211.8	1196.4	1195.2
35°	1177.2	1163.1	1166.9	1151.5	1150.2
37.5°	1128.4	1115.6	1118.1	1101.4	1100.2
40°	1075.8	1062.9	1064.2	1046.2	1045.0
42.5°	1018.0	1005.2	1003.9	985.9	984.6
45°	952.5	939.7	935.8	919.1	916.6
47.5°	880.6	867.8	860.1	846.0	844.7
50°	801.0	788.2	781.8	770.2	766.4
52.5°	715.0	702.2	697.1	686.8	682.9
55°	623.9	613.6	609.8	599.5	596.9
57.5°	536.6	528.9	527.6	517.3	516.1
60°	458.3	454.4	454.4	445.5	445.5
62.5°	391.5	389.0	391.5	386.4	385.1
65°	335.1	332.5	336.3	333.8	333.8
67.5°	287.6	287.6	290.1	288.8	288.8
70°	249.0	249.0	250.3	250.3	250.3
72.5°	214.4	213.1	216.9	216.9	215.7
75°	181.0	181.0	181.0	182.3	182.3
77.5°	147.6	147.6	148.9	148.9	147.6
80°	114.3	115.5	115.5	114.3	114.3
82.5°	80.9	82.2	82.2	82.2	80.9
85°	46.2	48.8	51.3	51.3	51.3
87.5°	16.7	21.8	25.7	25.7	24.4
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	19.54	21.10	19.91	21.42	21.73	19.37	20.93	19.73	21.24	21.56
	3H	20.85	22.25	21.23	22.58	22.94	20.75	22.15	21.13	22.48	22.84
	4H	21.41	22.73	21.81	23.08	23.46	21.34	22.66	21.74	23.00	23.38
	6H	21.87	23.09	22.28	23.46	23.85	21.81	23.03	22.22	23.39	23.78
	8H	22.03	23.19	22.45	23.58	23.98	21.97	23.13	22.39	23.52	23.92
	12H	22.12	23.23	22.55	23.62	24.05	22.08	23.19	22.51	23.57	24.00
4H	2H	19.98	21.30	20.38	21.65	22.02	19.84	21.15	20.23	21.50	21.88
	3H	21.54	22.64	21.95	23.04	23.44	21.47	22.56	21.88	22.96	23.36
	4H	22.25	23.24	22.68	23.65	24.09	22.20	23.19	22.63	23.60	24.04
	6H	22.85	23.71	23.31	24.16	24.61	22.81	23.68	23.27	24.12	24.58
	8H	23.06	23.87	23.52	24.31	24.78	23.03	23.83	23.49	24.27	24.74
	12H	23.20	23.92	23.68	24.40	24.87	23.18	23.91	23.67	24.38	24.85
8H	4H	22.52	23.33	22.99	23.77	24.24	22.48	23.29	22.94	23.73	24.20
	6H	23.26	23.93	23.75	24.42	24.89	23.22	23.89	23.72	24.38	24.86
	8H	23.55	24.15	24.06	24.66	25.14	23.51	24.12	24.03	24.62	25.11
	12H	23.76	24.29	24.27	24.79	25.35	23.75	24.29	24.26	24.78	25.34
12H	4H	22.55	23.27	23.03	23.75	24.22	22.51	23.23	22.99	23.71	24.18
	6H	23.31	23.92	23.82	24.42	24.91	23.28	23.88	23.79	24.39	24.88
	8H	23.66	24.19	24.17	24.68	25.25	23.63	24.16	24.14	24.65	25.22