

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: P1055128

Luminaire Tested: SQ4R-PP3-125D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055128
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-PP3-125D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

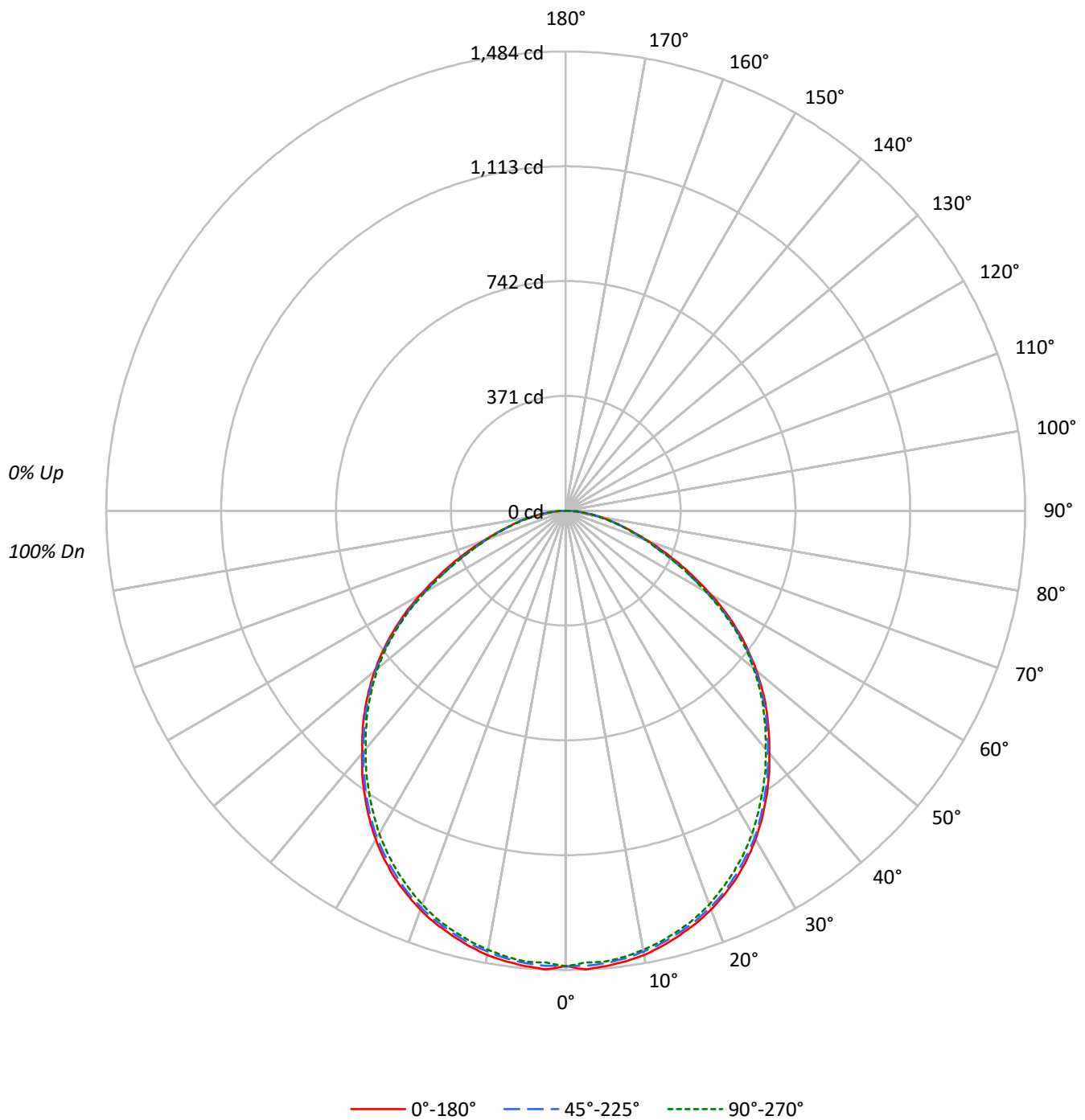
Lumens per Lamp: N/A
Luminaire Lumens: 3767.1 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14170	14170	14170
5°	14275	14187	14138
10°	14250	14150	14087
15°	14156	14079	14002
20°	14063	13983	13877
25°	13895	13800	13663
30°	13638	13567	13395
35°	13282	13190	13023
40°	12857	12775	12629
45°	12505	12417	12294
50°	12057	11979	11864
55°	11432	11281	11194
60°	10407	10109	10061
65°	9169	8786	8757
70°	7915	7589	7589
75°	6815	6718	6621
80°	6010	6082	5938
85°	4706	5125	5125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 12505 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	3.7
10°-20°	397.6	10.6
20°-30°	595.6	15.8
30°-40°	698.6	18.5
40°-50°	700.7	18.6
50°-60°	598.3	15.9
60°-70°	388.9	10.3
70°-80°	194.7	5.2
80°-90°	53.4	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°	1132.5	30.1
0°-40°	1831.1	48.6
0°-60°	3130.1	83.1
0°-90°	3767.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3767.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1477	1463	1468	1463	1463	140
15°	1420	1406	1413	1407	1405	401
25°	1308	1293	1299	1287	1286	602
35°	1130	1118	1122	1109	1108	706
45°	918	912	912	903	903	708
55°	681	679	672	668	667	606
65°	402	395	386	383	384	401
75°	183	183	181	179	178	198
85°	43	46	46	46	46	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.9	1471.9	1471.9	1471.9	1471.9
2.5°	1483.5	1468.0	1471.9	1469.3	1461.6
5°	1477.1	1462.9	1468.0	1462.9	1462.9
7.5°	1469.3	1453.9	1459.0	1453.9	1453.9
10°	1457.7	1442.2	1447.4	1442.2	1441.0
12.5°	1441.0	1425.5	1431.9	1425.5	1425.5
15°	1420.3	1406.1	1412.6	1407.4	1404.8
17.5°	1398.4	1382.9	1390.6	1384.2	1382.9
20°	1372.6	1357.1	1364.8	1354.5	1354.5
22.5°	1341.6	1326.1	1335.2	1321.0	1321.0
25°	1308.1	1292.6	1299.1	1287.4	1286.2
27.5°	1269.4	1253.9	1260.4	1247.5	1247.5
30°	1226.8	1212.6	1220.4	1206.2	1204.9
32.5°	1180.4	1167.5	1172.6	1158.4	1157.2
35°	1130.1	1118.5	1122.3	1109.4	1108.1
37.5°	1078.5	1065.6	1070.7	1059.1	1059.1
40°	1023.0	1015.3	1016.5	1007.5	1004.9
42.5°	971.4	962.4	963.6	954.6	954.6
45°	918.5	912.0	912.0	903.0	903.0
47.5°	863.0	857.9	856.6	848.8	848.8
50°	805.0	801.1	799.8	793.4	792.1
52.5°	744.3	743.1	737.9	732.7	732.7
55°	681.1	678.6	672.1	668.2	666.9
57.5°	614.1	608.9	602.4	596.0	597.3
60°	540.5	535.4	525.0	522.5	522.5
62.5°	469.6	463.1	452.8	448.9	451.5
65°	402.5	394.7	385.7	383.1	384.4
67.5°	340.6	332.8	322.5	322.5	321.2
70°	281.2	277.4	269.6	269.6	269.6
72.5°	228.3	227.0	221.9	221.9	220.6
75°	183.2	183.2	180.6	179.3	178.0
77.5°	144.5	144.5	143.2	141.9	139.3
80°	108.4	110.9	109.7	108.4	107.1
82.5°	74.8	77.4	77.4	74.8	74.8
85°	42.6	46.4	46.4	46.4	46.4
87.5°	14.2	19.4	20.6	20.6	21.9
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	20.45	22.04	20.82	22.35	22.67	20.30	21.88	20.66	22.20	22.51
	3H	21.76	23.19	22.14	23.52	23.88	21.56	22.99	21.94	23.32	23.68
	4H	22.21	23.55	22.61	23.90	24.28	22.01	23.35	22.41	23.70	24.08
	6H	22.54	23.78	22.95	24.15	24.54	22.34	23.58	22.75	23.95	24.34
	8H	22.64	23.83	23.07	24.21	24.61	22.45	23.63	22.88	24.02	24.42
	12H	22.70	23.83	23.13	24.22	24.65	22.52	23.65	22.95	24.04	24.46
4H	2H	20.89	22.23	21.29	22.58	22.96	20.76	22.10	21.16	22.45	22.83
	3H	22.41	23.52	22.82	23.92	24.32	22.24	23.35	22.65	23.75	24.15
	4H	22.97	23.98	23.41	24.39	24.83	22.80	23.81	23.23	24.22	24.66
	6H	23.43	24.30	23.88	24.74	25.20	23.26	24.13	23.71	24.57	25.03
	8H	23.57	24.39	24.03	24.83	25.30	23.41	24.23	23.87	24.67	25.13
	12H	23.67	24.40	24.15	24.88	25.35	23.52	24.25	24.00	24.73	25.20
8H	4H	23.18	24.00	23.64	24.44	24.91	23.02	23.84	23.48	24.29	24.75
	6H	23.74	24.42	24.23	24.91	25.38	23.58	24.26	24.08	24.75	25.23
	8H	23.95	24.56	24.46	25.07	25.55	23.80	24.41	24.31	24.92	25.40
	12H	24.11	24.65	24.62	25.14	25.70	23.97	24.51	24.48	25.01	25.57
12H	4H	23.19	23.93	23.67	24.40	24.87	23.04	23.78	23.52	24.25	24.72
	6H	23.77	24.38	24.28	24.89	25.38	23.62	24.23	24.13	24.74	25.23
	8H	24.03	24.57	24.54	25.07	25.63	23.89	24.43	24.40	24.92	25.48