

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: P1055024

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

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-F-075D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

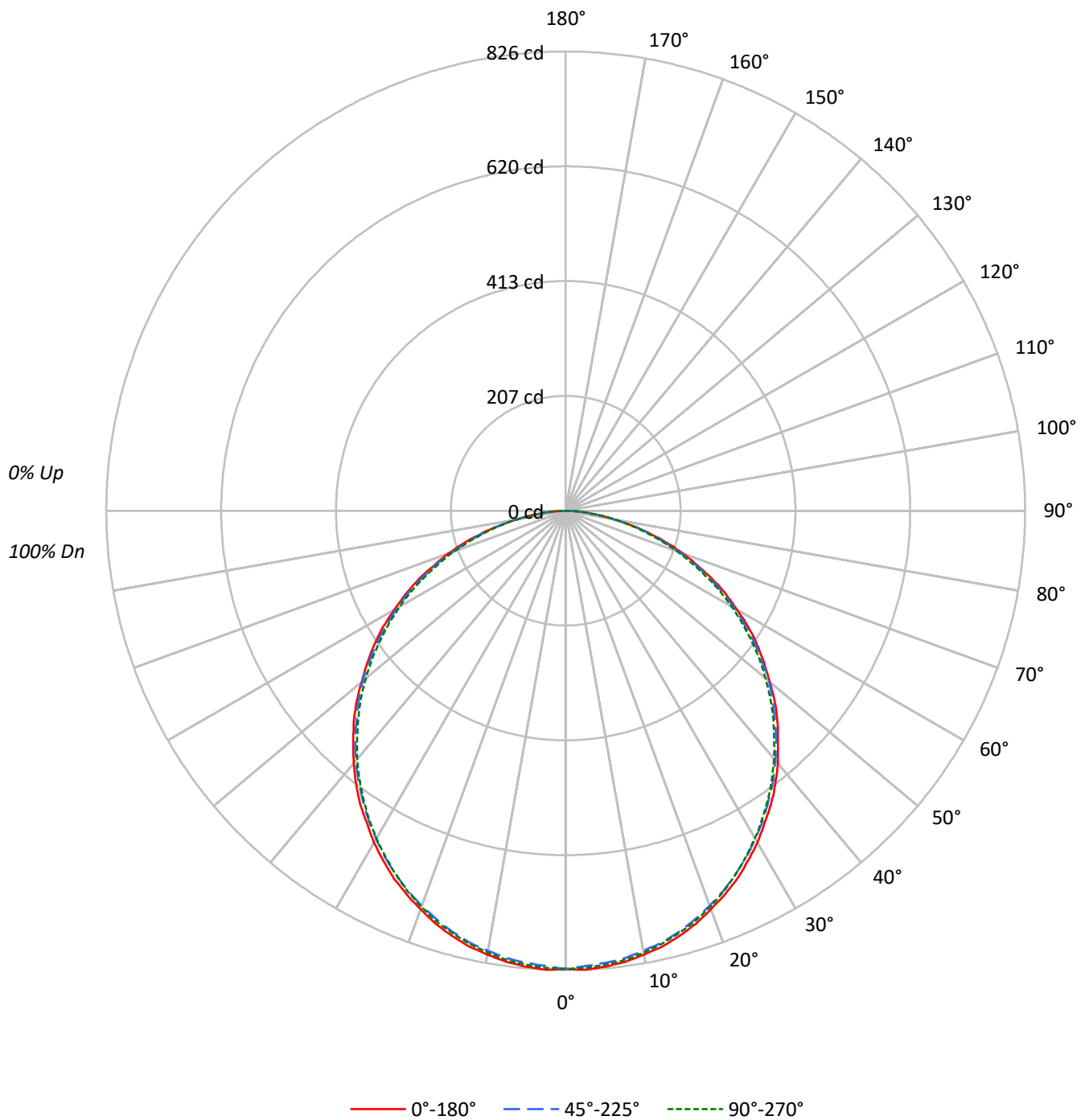
Lumens per Lamp: N/A
Luminaire Lumens: 2297.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1055024

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

Luminous Intensity Polar Plot



TEST NUMBER: P1055024

CATALOG NUMBER: SQ4R-F-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	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7934	7934	7934
5°	7954	7888	7921
10°	7923	7857	7890
15°	7887	7819	7841
20°	7817	7747	7770
25°	7756	7672	7672
30°	7664	7576	7563
35°	7570	7477	7450
40°	7455	7370	7327
45°	7336	7243	7182
50°	7171	7138	7018
55°	7050	6954	6840
60°	6843	6735	6626
65°	6627	6472	6317
70°	6308	6117	5990
75°	5728	5602	5475
80°	4895	4895	4835
85°	3502	3756	3756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7336 cd/sqm

TEST NUMBER: P1055024

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.4
10°-20°	222.3	9.7
20°-30°	334.1	14.5
30°-40°	399.3	17.4
40°-50°	411.4	17.9
50°-60°	370.2	16.1
60°-70°	281.4	12.3
70°-80°	160.0	7.0
80°-90°	40.4	1.8
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°	634.3	27.6
0°-40°	1033.6	45.0
0°-60°	1815.2	79.0
0°-90°	2297.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	823	822	816	823	820	78
15°	791	790	784	789	787	223
25°	730	728	722	724	722	336
35°	644	642	636	636	634	402
45°	539	539	532	529	528	415
55°	420	419	414	411	408	375
65°	291	290	284	281	277	287
75°	154	153	151	149	147	164
85°	32	33	34	34	34	39
90°	0	0	0	0	0	

TEST NUMBER: P1055024

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.1	824.1	824.1	824.1	824.1
2.5°	826.4	824.1	819.6	825.2	823.0
5°	823.0	821.8	816.2	823.0	819.6
7.5°	818.4	817.3	811.6	817.3	815.0
10°	810.5	809.4	803.7	809.4	807.1
12.5°	802.6	801.5	795.8	800.3	798.1
15°	791.3	790.1	784.5	789.0	786.7
17.5°	778.8	777.7	770.9	775.4	774.3
20°	763.0	761.8	756.2	759.6	758.4
22.5°	747.1	746.0	740.3	743.7	741.5
25°	730.1	727.9	722.2	724.5	722.2
27.5°	709.8	708.6	703.0	704.1	701.8
30°	689.4	688.3	681.5	682.6	680.3
32.5°	665.6	665.6	660.0	660.0	657.7
35°	644.1	641.8	636.2	636.2	633.9
37.5°	619.2	616.9	612.4	611.3	609.0
40°	593.2	592.0	586.4	585.2	583.0
42.5°	564.9	566.0	560.3	556.9	554.7
45°	538.8	538.8	532.0	528.6	527.5
47.5°	510.5	510.5	504.9	501.5	499.2
50°	478.8	481.1	476.6	470.9	468.6
52.5°	449.4	450.5	444.9	441.5	439.2
55°	420.0	418.8	414.3	410.9	407.5
57.5°	389.4	388.3	381.5	378.1	375.8
60°	355.4	355.4	349.8	346.4	344.1
62.5°	323.8	322.6	318.1	313.6	312.4
65°	290.9	289.8	284.1	280.7	277.3
67.5°	255.8	254.7	251.3	246.8	244.5
70°	224.1	220.7	217.3	213.9	212.8
72.5°	190.2	186.8	183.4	181.1	178.9
75°	154.0	152.8	150.6	149.4	147.2
77.5°	121.1	121.1	118.9	117.7	117.7
80°	88.3	88.3	88.3	87.2	87.2
82.5°	57.7	58.9	58.9	57.7	58.9
85°	31.7	32.8	34.0	34.0	34.0
87.5°	10.2	13.6	12.5	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1055024

CATALOG NUMBER: SQ4R-F-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	18.99	20.63	19.36	20.94	21.26	18.80	20.43	19.16	20.75	21.06
	3H	20.81	22.29	21.18	22.62	22.98	20.58	22.06	20.96	22.39	22.75
	4H	21.48	22.87	21.87	23.22	23.59	21.23	22.63	21.63	22.98	23.35
	6H	21.94	23.23	22.35	23.60	23.99	21.71	23.00	22.12	23.37	23.76
	8H	22.07	23.30	22.49	23.69	24.09	21.85	23.09	22.27	23.48	23.87
	12H	22.14	23.32	22.57	23.70	24.13	21.93	23.12	22.36	23.50	23.93
4H	2H	19.61	21.00	20.00	21.35	21.72	19.45	20.85	19.85	21.20	21.57
	3H	21.64	22.81	22.05	23.21	23.61	21.45	22.62	21.86	23.02	23.42
	4H	22.43	23.49	22.87	23.91	24.34	22.23	23.29	22.66	23.71	24.14
	6H	23.02	23.95	23.48	24.39	24.84	22.83	23.76	23.28	24.20	24.65
	8H	23.19	24.06	23.65	24.50	24.96	23.01	23.88	23.47	24.32	24.78
	12H	23.30	24.07	23.78	24.55	25.02	23.13	23.91	23.61	24.38	24.85
8H	4H	22.73	23.60	23.19	24.04	24.50	22.55	23.42	23.01	23.86	24.32
	6H	23.43	24.15	23.92	24.64	25.11	23.26	23.98	23.75	24.47	24.94
	8H	23.66	24.31	24.17	24.81	25.30	23.50	24.15	24.01	24.65	25.14
	12H	23.82	24.39	24.33	24.88	25.44	23.68	24.25	24.19	24.74	25.31
12H	4H	22.76	23.54	23.24	24.01	24.48	22.58	23.36	23.06	23.84	24.31
	6H	23.47	24.12	23.98	24.63	25.11	23.31	23.96	23.82	24.46	24.95
	8H	23.76	24.33	24.26	24.82	25.38	23.61	24.18	24.11	24.67	25.23