

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: P1191399

Luminaire Tested: SQ2-FA-050D-L935-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191399
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2502-345-2)
Test Lab: INNOVATION CENTER
Issue Date: 9/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-FA-050D-L935-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

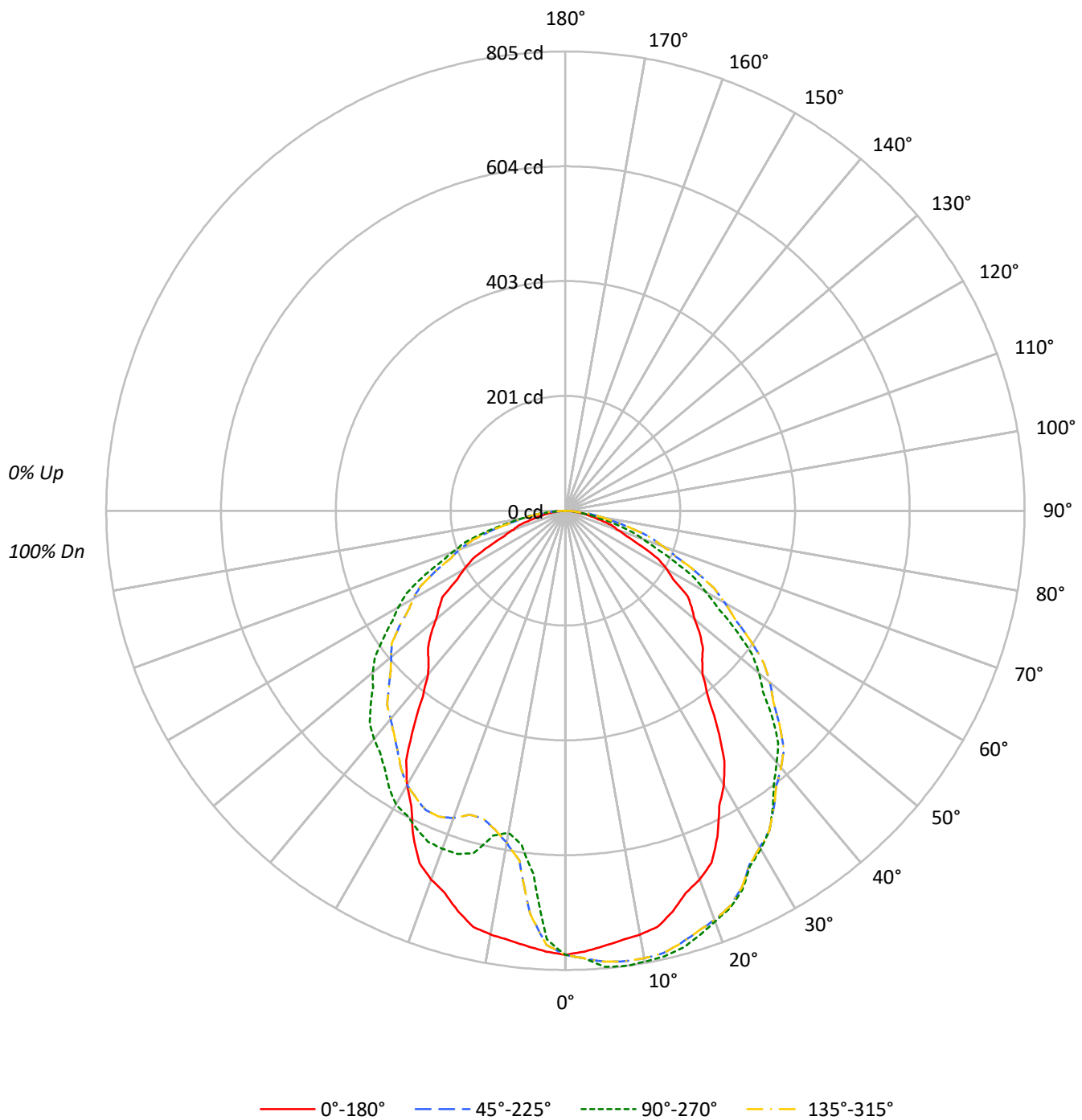
Lumens per Lamp: N/A
Luminaire Lumens: 1933.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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

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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	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12568	12568	12568	12568
5°	12420	13008	12420	10366
10°	12367	13159	12367	9399
15°	12154	13264	12154	10389
20°	11820	13167	11820	10835
25°	11234	13062	11234	10965
30°	10351	12769	10351	11082
35°	9157	12489	9157	10882
40°	7885	12147	7885	11002
45°	7784	11711	7784	11022
50°	7428	11140	7428	11065
55°	7389	10277	7389	10956
60°	6626	9158	6626	10911
65°	5647	8069	5647	10606
70°	4556	6836	4556	9829
75°	3955	5646	3955	9033
80°	3366	4212	3366	7290
85°	2242	2242	2242	4465

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 12125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.6
10°-20°	195.7	10.1
20°-30°	297.2	15.4
30°-40°	348.9	18.0
40°-50°	354.1	18.3
50°-60°	310.2	16.0
60°-70°	220.0	11.4
70°-80°	113.3	5.9
80°-90°	23.8	1.2
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°	563.0	29.1
0°-40°	911.9	47.2
0°-60°	1576.1	81.5
0°-90°	1933.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	778	778	778	778	778	
5°	766	803	766	640	766	73
15°	727	794	727	622	727	204
25°	631	733	631	616	631	288
35°	465	634	465	552	465	289
45°	341	513	341	483	341	261
55°	262	365	262	389	262	227
65°	148	211	148	278	148	148
75°	63	90	63	145	63	69
85°	12	12	12	24	12	15
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4
2.5°	773.6	785.4	785.7	785.7	785.7	785.7	785.7	785.4	773.6	773.6	761.5
5°	766.3	787.0	793.5	796.7	802.6	796.7	793.5	787.0	766.3	757.5	709.0
7.5°	759.1	786.8	796.5	802.0	805.0	802.0	796.5	786.8	759.1	719.6	617.9
10°	754.3	786.7	796.5	799.6	802.6	799.6	796.5	786.7	754.3	674.6	591.4
12.5°	747.0	781.9	794.1	797.2	800.1	797.2	794.1	781.9	747.0	634.3	572.0
15°	727.1	774.3	784.5	790.6	793.5	790.6	784.5	774.3	727.1	600.3	558.2
17.5°	702.4	759.6	773.0	778.5	780.8	778.5	773.0	759.6	702.4	569.6	558.8
20°	687.9	749.9	763.3	766.3	766.3	766.3	763.3	749.9	687.9	555.2	573.3
22.5°	668.6	737.6	751.3	751.9	754.3	751.9	751.3	737.6	668.6	538.2	580.5
25°	630.6	710.2	730.1	727.3	733.2	727.3	730.1	710.2	630.6	515.5	579.3
27.5°	584.1	684.4	698.8	701.8	701.8	701.8	698.8	684.4	584.1	493.3	567.2
30°	555.2	667.3	681.9	684.9	684.9	684.9	681.9	667.3	555.2	478.4	555.2
32.5°	518.9	652.3	665.0	665.6	665.6	665.6	665.0	652.3	518.9	463.5	535.8
35°	464.6	626.9	636.6	636.5	633.6	636.5	636.6	626.9	464.6	441.0	512.9
37.5°	410.3	594.4	607.6	603.4	600.4	603.4	607.6	594.4	410.3	418.0	493.6
40°	374.1	574.7	588.3	579.2	576.3	579.2	588.3	574.7	374.1	400.7	476.7
42.5°	354.8	553.1	566.6	555.1	552.1	555.1	566.6	553.1	354.8	383.7	462.2
45°	340.9	517.9	531.0	518.8	512.9	518.8	531.0	517.9	340.9	358.6	437.5
47.5°	319.8	475.6	494.2	476.0	470.1	476.0	494.2	475.6	319.8	332.8	415.2
50°	295.7	449.1	467.7	449.4	443.5	449.4	467.7	449.1	295.7	313.4	398.3
52.5°	278.8	422.7	438.7	418.0	412.1	418.0	438.7	422.7	278.8	289.4	383.8
55°	262.5	383.4	395.2	373.9	365.1	373.9	395.2	383.4	262.5	253.6	356.0
57.5°	224.5	339.5	351.8	327.4	317.4	327.4	351.8	339.5	224.5	216.8	327.1
60°	205.2	308.4	322.8	298.4	283.6	298.4	322.8	308.4	205.2	190.4	307.7
62.5°	183.4	274.9	293.9	269.4	254.6	269.4	293.9	274.9	183.4	173.4	286.0
65°	147.8	227.5	250.4	225.9	211.2	225.9	250.4	227.5	147.8	153.7	250.4
67.5°	115.9	184.3	210.0	183.2	171.4	183.2	210.0	184.3	115.9	135.3	217.8
70°	96.5	155.5	181.0	156.6	144.8	156.6	181.0	155.5	96.5	123.1	196.1
72.5°	84.5	129.3	156.9	130.1	120.7	130.1	156.9	129.3	84.5	111.0	169.6
75°	63.4	89.9	120.7	96.4	90.5	96.4	120.7	89.9	63.4	89.9	132.8
77.5°	45.9	58.3	85.1	64.5	62.2	64.5	85.1	58.3	45.9	67.7	96.5
80°	36.2	39.2	63.4	45.3	45.3	45.3	63.4	39.2	36.2	51.0	72.4
82.5°	24.1	27.1	44.0	30.7	28.4	30.7	44.0	27.1	24.1	36.5	50.7
85°	12.1	12.1	18.1	12.1	12.1	12.1	18.1	12.1	12.1	18.0	24.1
87.5°	2.4	2.4	4.8	2.4	2.4	2.4	4.8	2.4	2.4	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	778.4	778.4	778.4	778.4	778.4	778.4
2.5°	754.2	751.9	754.2	761.5	773.6	773.6
5°	654.4	639.6	654.4	709.0	757.5	766.3
7.5°	594.9	590.1	594.9	617.9	719.6	759.1
10°	573.3	573.3	573.3	591.4	674.6	754.3
12.5°	571.1	582.9	571.1	572.0	634.3	747.0
15°	606.8	621.5	606.8	558.2	600.3	727.1
17.5°	618.8	630.6	618.8	558.8	569.6	702.4
20°	618.8	630.6	618.8	573.3	555.2	687.9
22.5°	616.4	628.2	616.4	580.5	538.2	668.6
25°	609.6	615.5	609.6	579.3	515.5	630.6
27.5°	597.5	601.6	597.5	567.2	493.3	584.1
30°	585.5	594.4	585.5	555.2	478.4	555.2
32.5°	573.3	575.1	573.3	535.8	463.5	518.9
35°	555.1	552.1	555.1	512.9	441.0	464.6
37.5°	530.5	534.0	530.5	493.6	418.0	410.3
40°	516.1	522.0	516.1	476.7	400.7	374.1
42.5°	501.6	507.5	501.6	462.2	383.7	354.8
45°	479.8	482.7	479.8	437.5	358.6	340.9
47.5°	454.4	457.4	454.4	415.2	332.8	319.8
50°	437.5	440.5	437.5	398.3	313.4	295.7
52.5°	418.2	421.2	418.2	383.8	289.4	278.8
55°	389.2	389.2	389.2	356.0	253.6	262.5
57.5°	356.1	359.6	356.1	327.1	216.8	224.5
60°	332.0	337.9	332.0	307.7	190.4	205.2
62.5°	310.2	313.8	310.2	286.0	173.4	183.4
65°	274.6	277.6	274.6	250.4	153.7	147.8
67.5°	234.8	237.1	234.8	217.8	135.3	115.9
70°	208.2	208.2	208.2	196.1	123.1	96.5
72.5°	181.7	184.0	181.7	169.6	111.0	84.5
75°	141.9	144.8	141.9	132.8	89.9	63.4
77.5°	102.0	105.0	102.0	96.5	67.7	45.9
80°	75.5	78.4	75.5	72.4	51.0	36.2
82.5°	53.7	54.3	53.7	50.7	36.5	24.1
85°	24.1	24.1	24.1	24.1	18.0	12.1
87.5°	4.8	4.8	4.8	4.8	4.8	2.4
90°	0.0	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	18.97	20.58	19.34	20.89	21.21	20.20	21.80	20.56	22.12	22.43
	3H	20.11	21.56	20.49	21.89	22.25	21.49	22.94	21.87	23.27	23.63
	4H	20.50	21.86	20.90	22.21	22.59	21.92	23.28	22.31	23.62	24.00
	6H	20.70	21.96	21.11	22.32	22.72	22.11	23.37	22.52	23.74	24.13
	8H	20.76	21.96	21.18	22.35	22.75	22.16	23.36	22.58	23.75	24.15
	12H	20.78	21.93	21.21	22.31	22.74	22.17	23.32	22.60	23.70	24.13
4H	2H	19.99	21.35	20.38	21.70	22.07	20.90	22.26	21.30	22.61	22.98
	3H	21.42	22.56	21.83	22.95	23.35	22.41	23.55	22.82	23.95	24.35
	4H	21.89	22.92	22.33	23.33	23.77	22.91	23.94	23.34	24.35	24.79
	6H	22.16	23.06	22.62	23.50	23.95	23.17	24.07	23.63	24.51	24.96
	8H	22.24	23.07	22.70	23.51	23.98	23.24	24.07	23.70	24.52	24.98
	12H	22.27	23.02	22.75	23.50	23.97	23.26	24.01	23.74	24.49	24.96
8H	4H	22.35	23.19	22.81	23.63	24.10	23.18	24.01	23.64	24.46	24.92
	6H	22.73	23.42	23.22	23.91	24.38	23.52	24.21	24.01	24.70	25.18
	8H	22.85	23.47	23.36	23.98	24.46	23.62	24.24	24.13	24.75	25.23
	12H	22.92	23.47	23.43	23.96	24.52	23.67	24.22	24.18	24.71	25.27
12H	4H	22.39	23.14	22.87	23.61	24.08	23.18	23.93	23.66	24.41	24.88
	6H	22.81	23.43	23.32	23.93	24.42	23.55	24.17	24.06	24.67	25.16
	8H	22.98	23.53	23.49	24.02	24.58	23.69	24.24	24.20	24.73	25.29