

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: P1055082

Luminaire Tested: SQ4R-FB-075D-930-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-892-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-FB-075D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

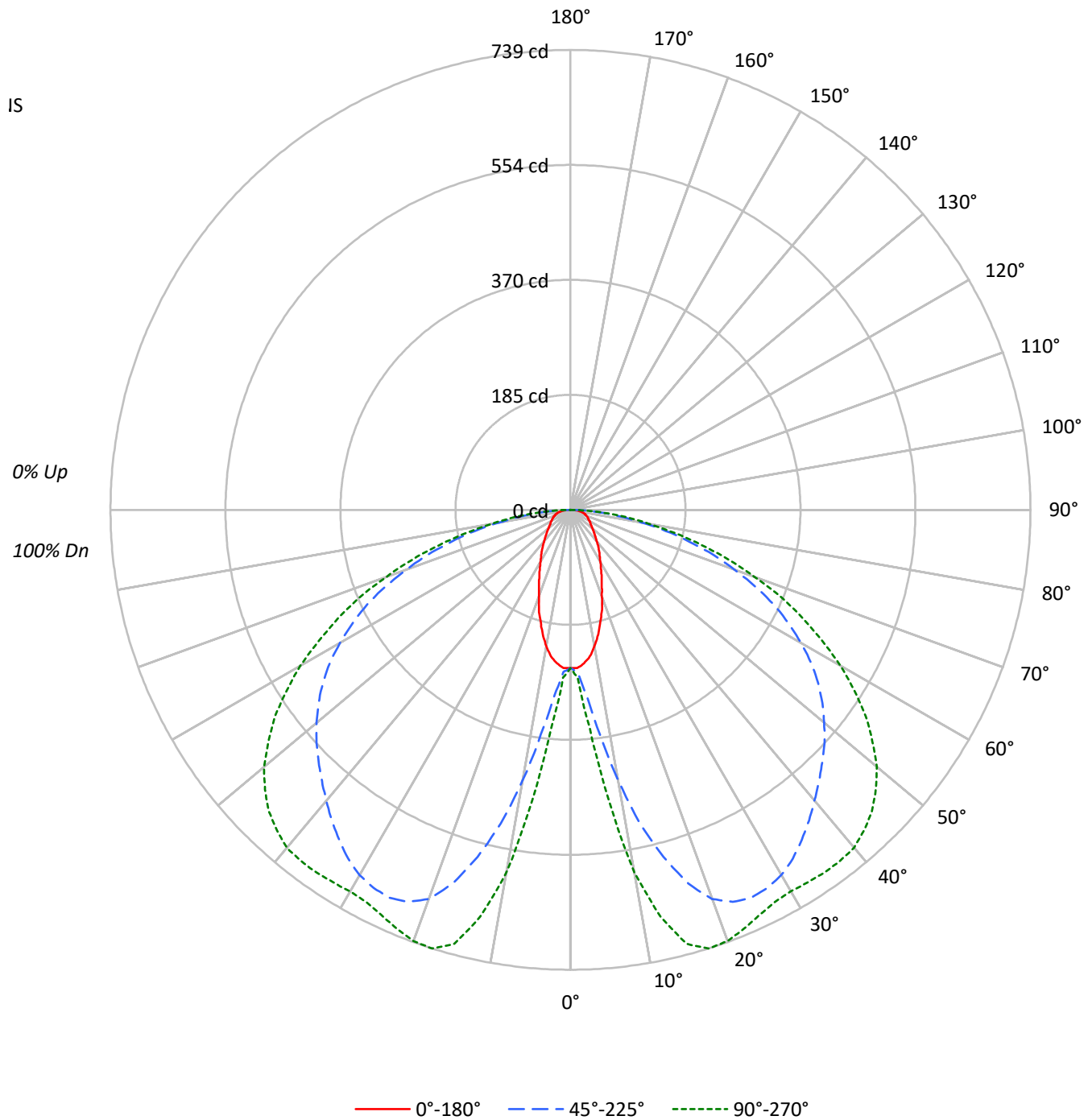
Lumens per Lamp: N/A
Luminaire Lumens: 1966.9 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1055082

CATALOG NUMBER: SQ4R-FB-075D-930-1-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P1055082

CATALOG NUMBER: SQ4R-FB-075D-930-1-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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82		
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67		
3	88	77	68	61	86	75	67	61	72	65	60	69	63	58	67	62	57	55		
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46		
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39		
6	67	53	44	37	65	52	43	37	50	42	37	49	42	36	47	41	36	34		
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29		
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	32	28	26		
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23		
10	50	36	28	23	49	36	28	23	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2448	2448	2448
5°	2394	2892	3389
10°	2174	4308	5786
15°	1850	5753	7195
20°	1508	6818	7555
25°	1259	7303	7633
30°	1064	7534	7871
35°	941	7610	8360
40°	822	7665	8908
45°	746	7792	9328
50°	686	7971	9625
55°	658	8151	9728
60°	678	8233	9650
65°	708	8212	9367
70°	760	7870	8861
75°	852	7358	8120
80°	954	6392	7069
85°	906	5424	6053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 9728 cd/sqm

TEST NUMBER: P1055082

CATALOG NUMBER: SQ4R-FB-075D-930-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	1.7
10°-20°	145.8	7.4
20°-30°	255.0	13.0
30°-40°	328.2	16.7
40°-50°	366.6	18.6
50°-60°	351.1	17.9
60°-70°	278.3	14.1
70°-80°	163.6	8.3
80°-90°	45.5	2.3
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°	433.6	22.0
0°-40°	761.8	38.7
0°-60°	1479.6	75.2
0°-90°	1966.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	254	254	254	254	254	
5°	248	266	299	338	351	23
15°	186	342	577	700	722	52
25°	118	388	688	718	719	55
35°	80	371	648	684	711	50
45°	55	296	572	656	685	42
55°	39	188	486	564	580	36
65°	31	100	360	406	411	31
75°	23	61	198	218	218	24
85°	8	19	49	54	55	9
90°	0	0	0	0	0	

TEST NUMBER: P1055082

CATALOG NUMBER: SQ4R-FB-075D-930-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
2.5°	254.3	254.3	255.9	256.7	258.3	259.2	260.8	262.4	267.3	268.2	269.8
5°	247.7	251.0	261.6	265.7	277.1	292.7	299.2	309.8	331.9	338.5	342.5
7.5°	237.9	245.3	271.4	278.0	306.6	347.5	364.6	387.5	422.7	439.8	453.7
10°	222.4	237.9	284.5	300.0	346.6	408.8	440.7	472.5	525.7	549.4	558.4
12.5°	205.2	230.5	298.4	319.7	386.7	477.4	515.9	551.0	611.5	643.4	648.3
15°	185.6	219.9	311.5	342.5	429.2	534.7	577.2	620.5	676.9	699.8	705.5
17.5°	168.4	211.7	323.7	356.4	461.9	586.2	629.5	665.5	711.3	726.8	730.9
20°	147.2	198.7	331.9	374.4	496.2	623.8	665.5	693.3	724.3	734.1	735.8
22.5°	131.6	184.8	336.8	381.0	519.1	646.7	681.8	703.9	725.2	728.4	729.2
25°	118.5	169.2	336.0	388.3	538.8	660.6	687.5	703.9	716.2	717.8	717.8
27.5°	106.3	152.1	332.7	390.0	553.5	663.8	685.1	696.5	702.3	705.5	705.5
30°	95.7	135.7	324.6	386.7	560.0	660.6	677.7	683.5	689.2	694.1	696.5
32.5°	87.5	120.2	312.3	380.2	560.8	652.4	664.7	667.9	676.1	687.5	691.6
35°	80.1	104.6	298.4	371.2	555.9	639.3	647.5	650.8	667.1	684.3	690.0
37.5°	72.8	93.2	280.4	355.6	548.6	623.8	629.5	635.2	660.6	681.0	687.5
40°	65.4	83.4	259.2	338.5	537.1	605.0	609.9	618.9	652.4	676.1	682.6
42.5°	59.7	75.2	236.3	320.5	522.4	583.7	591.1	604.2	642.6	667.9	675.3
45°	54.8	67.0	211.7	295.9	503.6	561.6	572.3	590.3	631.1	655.7	662.2
47.5°	49.9	61.3	186.4	270.6	483.2	539.6	553.5	573.9	615.6	639.3	645.0
50°	45.8	55.6	161.1	243.6	461.1	515.9	532.2	553.5	596.0	618.1	625.4
52.5°	42.5	50.7	137.3	216.6	435.7	491.3	510.1	532.2	572.3	593.5	598.4
55°	39.2	46.6	116.9	188.0	409.6	465.2	485.6	506.9	546.1	564.1	567.4
57.5°	37.6	43.3	99.7	161.1	381.8	435.7	458.6	478.3	515.0	528.9	532.2
60°	35.2	40.9	86.7	138.2	351.5	408.0	427.6	447.2	478.3	489.7	492.2
62.5°	32.7	39.2	76.8	116.1	320.5	375.2	394.9	412.9	439.0	447.2	450.5
65°	31.1	37.6	69.5	99.7	288.6	340.9	360.5	376.1	397.3	405.5	407.1
67.5°	29.4	36.0	63.8	85.8	256.7	306.6	321.3	336.0	352.4	360.5	361.4
70°	27.0	34.3	58.9	76.0	224.0	267.3	279.6	295.1	308.2	312.3	314.8
72.5°	25.3	31.9	55.6	68.7	190.5	229.7	241.2	250.2	261.6	265.7	265.7
75°	22.9	28.6	52.3	61.3	156.1	188.0	197.8	206.8	215.8	217.5	215.0
77.5°	20.4	25.3	45.0	51.5	121.8	148.8	157.0	161.9	169.2	170.9	171.7
80°	17.2	22.1	35.2	40.1	88.3	109.6	115.3	119.4	125.9	125.9	127.5
82.5°	13.1	17.2	25.3	28.6	59.7	75.2	80.1	82.6	86.7	86.7	86.7
85°	8.2	10.6	16.4	18.8	36.0	45.8	49.1	49.9	53.1	54.0	54.0
87.5°	4.1	5.7	10.6	11.4	18.8	23.7	23.7	25.3	25.3	24.5	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1055082

CATALOG NUMBER: SQ4R-FB-075D-930-1-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	254.3	254.3
2.5°	271.4	269.8
5°	349.1	350.7
7.5°	470.1	469.3
10°	584.5	591.9
12.5°	667.9	669.6
15°	718.6	721.9
17.5°	738.2	739.1
20°	739.1	737.4
22.5°	730.1	728.4
25°	719.4	718.6
27.5°	709.6	710.4
30°	705.5	708.0
32.5°	705.5	709.6
35°	707.2	711.3
37.5°	706.4	711.3
40°	703.1	708.8
42.5°	694.1	698.2
45°	680.2	685.1
47.5°	662.2	665.5
50°	639.3	642.6
52.5°	610.7	611.5
55°	576.4	579.6
57.5°	539.6	540.4
60°	498.7	501.2
62.5°	455.4	455.4
65°	409.6	411.2
67.5°	362.2	366.3
70°	313.9	314.8
72.5°	266.5	266.5
75°	217.5	218.3
77.5°	170.9	170.9
80°	126.7	127.5
82.5°	87.5	89.1
85°	54.8	54.8
87.5°	25.3	22.9
90°	0.0	0.0

TEST NUMBER: P1055082

CATALOG NUMBER: SQ4R-FB-075D-930-1-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	9.31	11.03	9.68	11.34	11.66	21.64	23.35	22.00	23.67	23.98
	3H	10.25	11.81	10.62	12.13	12.49	23.55	25.11	23.93	25.43	25.79
	4H	10.72	12.19	11.12	12.54	12.91	24.24	25.71	24.64	26.06	26.43
	6H	11.21	12.58	11.62	12.94	13.33	24.73	26.10	25.14	26.46	26.85
	8H	11.41	12.72	11.83	13.11	13.51	24.88	26.19	25.30	26.58	26.97
	12H	11.55	12.81	11.98	13.19	13.62	24.98	26.24	25.41	26.62	27.05
4H	2H	16.65	18.12	17.04	18.46	18.84	22.15	23.62	22.55	23.97	24.34
	3H	18.58	19.83	18.99	20.22	20.62	24.33	25.57	24.74	25.97	26.37
	4H	18.78	19.90	19.21	20.31	20.75	25.17	26.30	25.60	26.71	27.14
	6H	18.90	19.88	19.35	20.32	20.77	25.80	26.78	26.25	27.22	27.68
	8H	18.92	19.85	19.38	20.29	20.75	26.00	26.92	26.46	27.36	27.83
	12H	18.95	19.78	19.43	20.25	20.72	26.15	26.98	26.63	27.46	27.92
8H	4H	20.43	21.36	20.89	21.80	22.26	25.41	26.34	25.87	26.78	27.24
	6H	20.88	21.65	21.37	22.14	22.61	26.16	26.94	26.65	27.42	27.89
	8H	20.96	21.66	21.47	22.16	22.64	26.44	27.13	26.94	27.64	28.12
	12H	21.00	21.62	21.51	22.11	22.66	26.67	27.28	27.17	27.77	28.33
12H	4H	20.64	21.48	21.12	21.95	22.42	25.42	26.25	25.90	26.73	27.19
	6H	21.22	21.91	21.72	22.42	22.90	26.19	26.88	26.69	27.39	27.87
	8H	21.43	22.04	21.93	22.53	23.09	26.52	27.14	27.03	27.63	28.18

END OF REPORT