

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: P1055090

Luminaire Tested: SQ4R-FB-100D-935-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055090
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-100D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

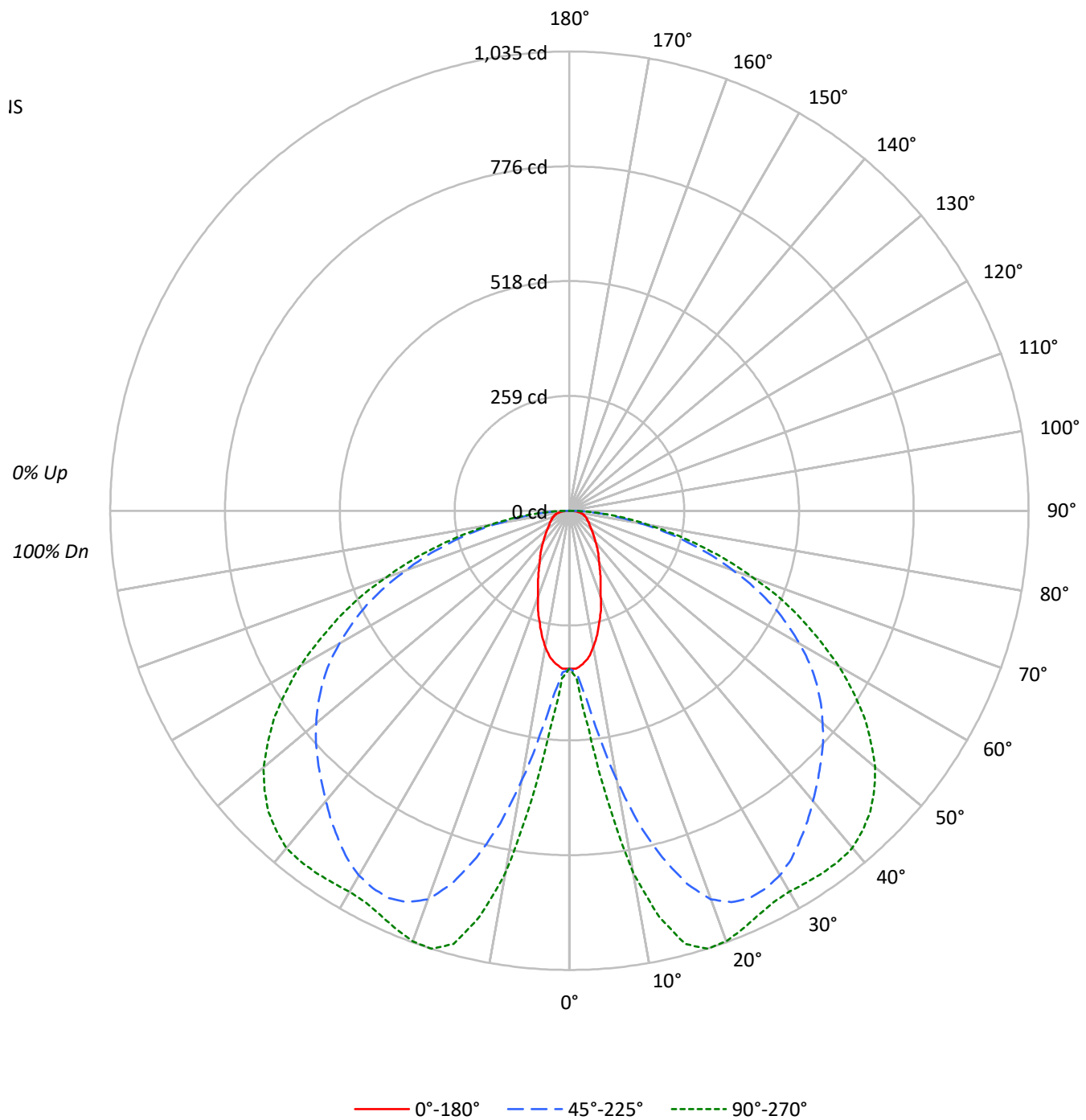
Lumens per Lamp: N/A
Luminaire Lumens: 2754.4 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	61	86	75	67	61	72	65	60	69	63	58	67	62	57
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41
6	67	53	44	37	65	52	43	37	50	42	37	49	42	36	47	41	36
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	32	28
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25
10	50	36	28	23	49	36	28	23	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3427	3427	3427
5°	3352	4049	4746
10°	3044	6033	8103
15°	2590	8056	10076
20°	2112	9548	10579
25°	1763	10227	10690
30°	1489	10551	11021
35°	1319	10656	11706
40°	1151	10734	12475
45°	1044	10911	13062
50°	960	11163	13477
55°	923	11414	13624
60°	947	11530	13513
65°	991	11502	13119
70°	1064	11020	12408
75°	1194	10307	11371
80°	1331	8948	9902
85°	1259	7589	8472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 13624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.7
10°-20°	204.1	7.4
20°-30°	357.0	13.0
30°-40°	459.6	16.7
40°-50°	513.4	18.6
50°-60°	491.7	17.9
60°-70°	389.7	14.1
70°-80°	229.1	8.3
80°-90°	63.7	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°	607.2	22.0
0°-40°	1066.8	38.7
0°-60°	2071.9	75.2
0°-90°	2754.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	356	356	356	356	356	
5°	347	372	419	474	491	32
15°	260	480	808	980	1011	72
25°	166	544	963	1005	1006	76
35°	112	520	907	958	996	70
45°	77	414	801	918	959	59
55°	55	263	680	790	812	50
65°	44	140	505	568	576	43
75°	32	86	277	304	306	34
85°	11	26	69	76	77	13
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0
2.5°	356.0	356.0	358.3	359.5	361.8	362.9	365.2	367.5	374.4	375.5	377.8
5°	346.9	351.5	366.3	372.1	388.1	409.9	419.0	433.9	464.8	474.0	479.7
7.5°	333.1	343.5	380.1	389.2	429.3	486.6	510.6	542.7	591.9	615.9	635.4
10°	311.4	333.1	398.4	420.2	485.4	572.4	617.1	661.7	736.1	769.3	781.9
12.5°	287.4	322.8	417.9	447.6	541.5	668.6	722.4	771.6	856.3	901.0	907.9
15°	259.9	308.0	436.2	479.7	601.0	748.7	808.3	868.9	947.9	980.0	988.0
17.5°	235.8	296.5	453.4	499.2	646.8	820.9	881.5	931.9	996.0	1017.8	1023.5
20°	206.1	278.2	464.8	524.3	694.9	873.5	931.9	970.8	1014.3	1028.1	1030.4
22.5°	184.3	258.7	471.7	533.5	727.0	905.6	954.8	985.7	1015.5	1020.1	1021.2
25°	166.0	237.0	470.5	543.8	754.4	925.0	962.8	985.7	1002.9	1005.2	1005.2
27.5°	148.8	212.9	466.0	546.1	775.1	929.6	959.4	975.4	983.4	988.0	988.0
30°	133.9	190.0	454.5	541.5	784.2	925.0	949.1	957.1	965.1	972.0	975.4
32.5°	122.5	168.3	437.3	532.4	785.4	913.6	930.8	935.3	946.8	962.8	968.5
35°	112.2	146.5	417.9	519.8	778.5	895.3	906.7	911.3	934.2	958.2	966.2
37.5°	101.9	130.5	392.7	498.0	768.2	873.5	881.5	889.5	925.0	953.7	962.8
40°	91.6	116.8	362.9	474.0	752.2	847.2	854.1	866.6	913.6	946.8	955.9
42.5°	83.6	105.3	330.9	448.8	731.6	817.4	827.7	846.0	899.8	935.3	945.6
45°	76.7	93.9	296.5	414.4	705.2	786.5	801.4	826.6	883.8	918.2	927.3
47.5°	69.8	85.9	261.0	378.9	676.6	755.6	775.1	803.7	862.1	895.3	903.3
50°	64.1	77.8	225.5	341.2	645.7	722.4	745.3	775.1	834.6	865.5	875.8
52.5°	59.5	71.0	192.3	303.4	610.2	688.0	714.4	745.3	801.4	831.2	838.0
55°	55.0	65.3	163.7	263.3	573.6	651.4	680.0	709.8	764.8	789.9	794.5
57.5°	52.7	60.7	139.7	225.5	534.6	610.2	642.3	669.7	721.2	740.7	745.3
60°	49.2	57.2	121.4	193.5	492.3	571.3	598.8	626.2	669.7	685.8	689.2
62.5°	45.8	55.0	107.6	162.6	448.8	525.5	553.0	578.1	614.8	626.2	630.8
65°	43.5	52.7	97.3	139.7	404.1	477.4	504.9	526.6	556.4	567.8	570.1
67.5°	41.2	50.4	89.3	120.2	359.5	429.3	449.9	470.5	493.4	504.9	506.0
70°	37.8	48.1	82.4	106.5	313.7	374.4	391.5	413.3	431.6	437.3	440.8
72.5°	35.5	44.6	77.8	96.2	266.7	321.7	337.7	350.3	366.3	372.1	372.1
75°	32.1	40.1	73.3	85.9	218.7	263.3	277.1	289.6	302.2	304.5	301.1
77.5°	28.6	35.5	63.0	72.1	170.6	208.4	219.8	226.7	237.0	239.3	240.4
80°	24.0	30.9	49.2	56.1	123.6	153.4	161.4	167.1	176.3	176.3	178.6
82.5°	18.3	24.0	35.5	40.1	83.6	105.3	112.2	115.6	121.4	121.4	121.4
85°	11.4	14.9	22.9	26.3	50.4	64.1	68.7	69.8	74.4	75.6	75.6
87.5°	5.7	8.0	14.9	16.0	26.3	33.2	33.2	35.5	35.5	34.3	33.2
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):

	80°	90°
0°	356.0	356.0
2.5°	380.1	377.8
5°	488.8	491.1
7.5°	658.3	657.1
10°	818.6	828.9
12.5°	935.3	937.6
15°	1006.3	1010.9
17.5°	1033.8	1034.9
20°	1034.9	1032.6
22.5°	1022.3	1020.1
25°	1007.5	1006.3
27.5°	993.7	994.9
30°	988.0	991.4
32.5°	988.0	993.7
35°	990.3	996.0
37.5°	989.1	996.0
40°	984.6	992.6
42.5°	972.0	977.7
45°	952.5	959.4
47.5°	927.3	931.9
50°	895.3	899.8
52.5°	855.2	856.3
55°	807.1	811.7
57.5°	755.6	756.7
60°	698.4	701.8
62.5°	637.7	637.7
65°	573.6	575.9
67.5°	507.2	512.9
70°	439.6	440.8
72.5°	373.2	373.2
75°	304.5	305.7
77.5°	239.3	239.3
80°	177.5	178.6
82.5°	122.5	124.8
85°	76.7	76.7
87.5°	35.5	32.1
90°	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	10.48	12.20	10.85	12.52	12.83	22.81	24.52	23.17	24.84	25.15
	3H	11.42	12.98	11.80	13.30	13.66	24.72	26.28	25.10	26.60	26.96
	4H	11.89	13.37	12.29	13.71	14.09	25.41	26.88	25.81	27.23	27.60
	6H	12.38	13.75	12.79	14.11	14.50	25.90	27.27	26.31	27.63	28.02
	8H	12.58	13.89	13.01	14.28	14.68	26.05	27.36	26.47	27.75	28.14
	12H	12.72	13.98	13.15	14.36	14.79	26.15	27.41	26.58	27.79	28.22
4H	2H	17.82	19.29	18.21	19.64	20.01	23.32	24.79	23.72	25.14	25.51
	3H	19.75	21.00	20.16	21.39	21.79	25.50	26.74	25.91	27.14	27.54
	4H	19.95	21.07	20.38	21.48	21.92	26.34	27.47	26.77	27.88	28.31
	6H	20.07	21.05	20.52	21.49	21.94	26.97	27.95	27.42	28.39	28.85
	8H	20.09	21.02	20.55	21.46	21.92	27.17	28.09	27.63	28.53	29.00
	12H	20.12	20.95	20.60	21.43	21.89	27.32	28.15	27.80	28.63	29.09
8H	4H	21.60	22.53	22.06	22.97	23.43	26.58	27.51	27.04	27.95	28.41
	6H	22.05	22.82	22.54	23.31	23.78	27.33	28.11	27.82	28.59	29.06
	8H	22.13	22.83	22.64	23.33	23.81	27.61	28.30	28.11	28.81	29.29
	12H	22.17	22.79	22.68	23.28	23.83	27.84	28.45	28.34	28.94	29.50
12H	4H	21.81	22.65	22.29	23.12	23.59	26.59	27.42	27.07	27.90	28.36
	6H	22.39	23.08	22.89	23.59	24.07	27.36	28.05	27.86	28.56	29.04
	8H	22.60	23.21	23.10	23.70	24.26	27.69	28.31	28.20	28.80	29.35

END OF REPORT