

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: P1055079

Luminaire Tested: SQ4R-FB-075D-835-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055079
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-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

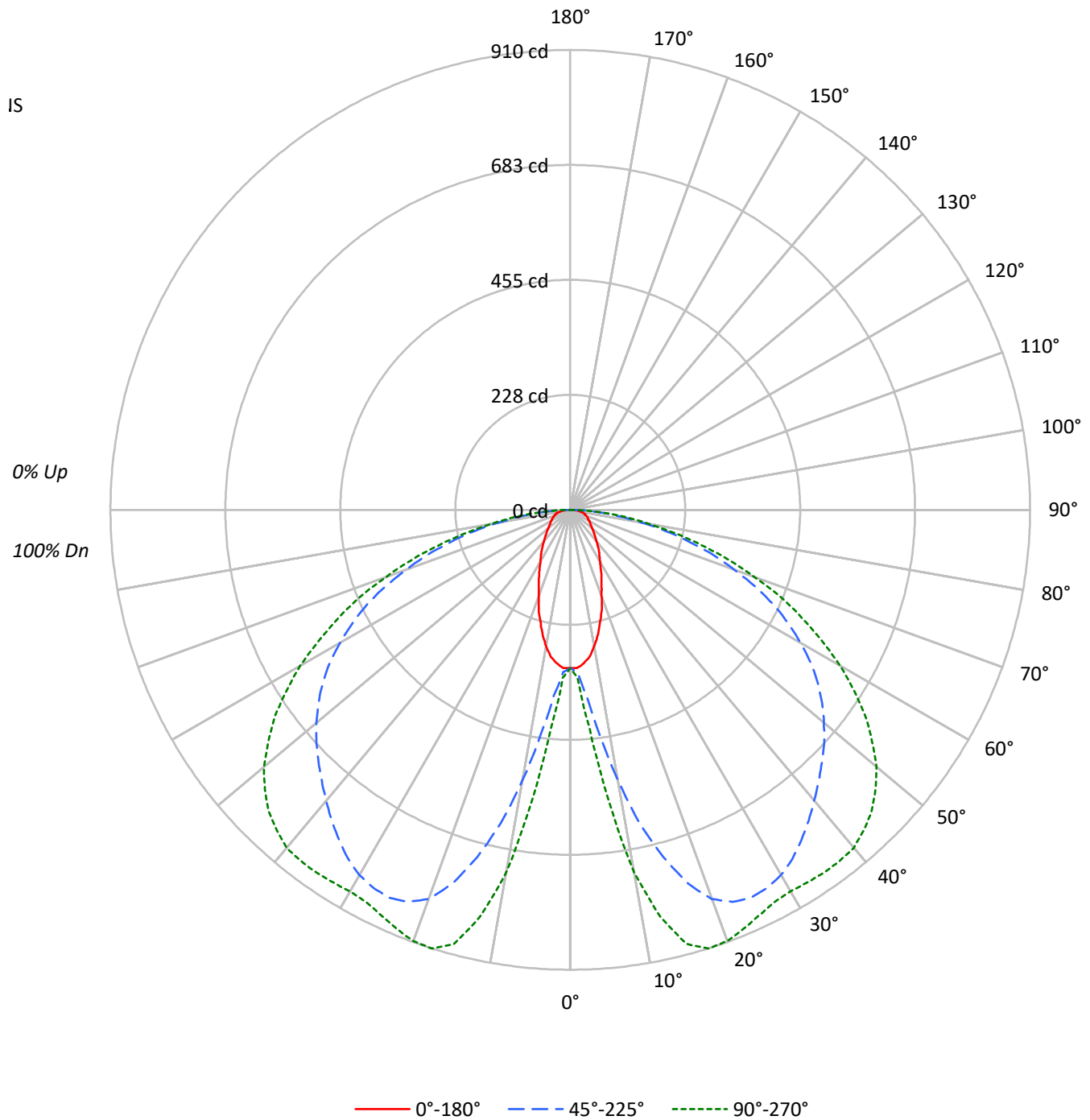
Lumens per Lamp: N/A
Luminaire Lumens: 2422.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	3014	3014	3014
5°	2949	3561	4174
10°	2677	5305	7126
15°	2277	7085	8861
20°	1856	8396	9304
25°	1551	8994	9401
30°	1310	9278	9693
35°	1160	9372	10294
40°	1012	9440	10970
45°	919	9596	11487
50°	845	9816	11852
55°	811	10037	11981
60°	834	10140	11884
65°	872	10114	11536
70°	935	9692	10910
75°	1049	9061	9999
80°	1170	7873	8710
85°	1116	6672	7456

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 11981 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.7
10°-20°	179.5	7.4
20°-30°	314.0	13.0
30°-40°	404.2	16.7
40°-50°	451.5	18.6
50°-60°	432.4	17.9
60°-70°	342.7	14.1
70°-80°	201.5	8.3
80°-90°	56.0	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°	534.0	22.0
0°-40°	938.2	38.7
0°-60°	1822.1	75.2
0°-90°	2422.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	305	327	368	417	432	28
15°	228	422	711	862	889	64
25°	146	478	847	884	885	67
35°	99	457	797	843	876	62
45°	68	364	705	807	844	52
55°	48	232	598	695	714	44
65°	38	123	444	499	506	38
75°	28	76	244	268	269	30
85°	10	23	60	66	68	11
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°	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1
2.5°	313.1	313.1	315.1	316.1	318.1	319.2	321.2	323.2	329.2	330.2	332.2
5°	305.1	309.1	322.2	327.2	341.3	360.4	368.5	381.6	408.8	416.8	421.8
7.5°	293.0	302.0	334.3	342.3	377.5	427.9	449.0	477.2	520.5	541.7	558.8
10°	273.8	293.0	350.4	369.5	426.9	503.4	542.7	581.9	647.4	676.6	687.6
12.5°	252.7	283.9	367.5	393.7	476.2	588.0	635.3	678.6	753.1	792.3	798.4
15°	228.5	270.8	383.6	421.8	528.6	658.4	710.8	764.2	833.6	861.8	868.9
17.5°	207.4	260.8	398.7	439.0	568.8	721.9	775.2	819.5	875.9	895.0	900.1
20°	181.2	244.7	408.8	461.1	611.1	768.2	819.5	853.8	892.0	904.1	906.1
22.5°	162.1	227.5	414.8	469.2	639.3	796.4	839.7	866.8	893.0	897.1	898.1
25°	146.0	208.4	413.8	478.2	663.5	813.5	846.7	866.8	881.9	884.0	884.0
27.5°	130.9	187.3	409.8	480.2	681.6	817.5	843.7	857.8	864.8	868.9	868.9
30°	117.8	167.1	399.7	476.2	689.7	813.5	834.6	841.7	848.7	854.8	857.8
32.5°	107.7	148.0	384.6	468.2	690.7	803.4	818.5	822.5	832.6	846.7	851.7
35°	98.7	128.9	367.5	457.1	684.6	787.3	797.4	801.4	821.5	842.7	849.7
37.5°	89.6	114.8	345.3	438.0	675.6	768.2	775.2	782.3	813.5	838.7	846.7
40°	80.5	102.7	319.2	416.8	661.5	745.0	751.1	762.1	803.4	832.6	840.7
42.5°	73.5	92.6	291.0	394.7	643.3	718.8	727.9	744.0	791.3	822.5	831.6
45°	67.5	82.6	260.8	364.5	620.2	691.7	704.8	726.9	777.2	807.4	815.5
47.5°	61.4	75.5	229.5	333.2	595.0	664.5	681.6	706.8	758.1	787.3	794.4
50°	56.4	68.5	198.3	300.0	567.8	635.3	655.4	681.6	734.0	761.1	770.2
52.5°	52.4	62.4	169.1	266.8	536.6	605.1	628.2	655.4	704.8	730.9	737.0
55°	48.3	57.4	144.0	231.6	504.4	572.9	598.0	624.2	672.5	694.7	698.7
57.5°	46.3	53.4	122.8	198.3	470.2	536.6	564.8	589.0	634.3	651.4	655.4
60°	43.3	50.3	106.7	170.1	432.9	502.4	526.6	550.7	589.0	603.1	606.1
62.5°	40.3	48.3	94.6	143.0	394.7	462.1	486.3	508.4	540.6	550.7	554.7
65°	38.3	46.3	85.6	122.8	355.4	419.8	444.0	463.1	489.3	499.4	501.4
67.5°	36.2	44.3	78.5	105.7	316.1	377.5	395.7	413.8	433.9	444.0	445.0
70°	33.2	42.3	72.5	93.6	275.9	329.2	344.3	363.5	379.6	384.6	387.6
72.5°	31.2	39.3	68.5	84.6	234.6	282.9	297.0	308.1	322.2	327.2	327.2
75°	28.2	35.2	64.4	75.5	192.3	231.6	243.6	254.7	265.8	267.8	264.8
77.5°	25.2	31.2	55.4	63.4	150.0	183.2	193.3	199.3	208.4	210.4	211.4
80°	21.1	27.2	43.3	49.3	108.7	134.9	142.0	147.0	155.0	155.0	157.1
82.5°	16.1	21.1	31.2	35.2	73.5	92.6	98.7	101.7	106.7	106.7	106.7
85°	10.1	13.1	20.1	23.2	44.3	56.4	60.4	61.4	65.4	66.4	66.4
87.5°	5.0	7.0	13.1	14.1	23.2	29.2	29.2	31.2	31.2	30.2	29.2
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°	313.1	313.1
2.5°	334.3	332.2
5°	429.9	431.9
7.5°	578.9	577.9
10°	719.9	728.9
12.5°	822.5	824.6
15°	885.0	889.0
17.5°	909.1	910.1
20°	910.1	908.1
22.5°	899.1	897.1
25°	886.0	885.0
27.5°	873.9	874.9
30°	868.9	871.9
32.5°	868.9	873.9
35°	870.9	875.9
37.5°	869.9	875.9
40°	865.8	872.9
42.5°	854.8	859.8
45°	837.7	843.7
47.5°	815.5	819.5
50°	787.3	791.3
52.5°	752.1	753.1
55°	709.8	713.8
57.5°	664.5	665.5
60°	614.1	617.2
62.5°	560.8	560.8
65°	504.4	506.4
67.5°	446.0	451.0
70°	386.6	387.6
72.5°	328.2	328.2
75°	267.8	268.8
77.5°	210.4	210.4
80°	156.1	157.1
82.5°	107.7	109.7
85°	67.5	67.5
87.5°	31.2	28.2
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	10.04	11.75	10.40	12.07	12.38	22.36	24.08	22.72	24.39	24.70
	3H	10.97	12.53	11.35	12.85	13.21	24.27	25.83	24.65	26.16	26.52
	4H	11.45	12.92	11.84	13.26	13.64	24.96	26.44	25.36	26.78	27.16
	6H	11.94	13.30	12.35	13.67	14.06	25.45	26.82	25.86	27.18	27.57
	8H	12.14	13.44	12.56	13.83	14.23	25.60	26.91	26.03	27.30	27.70
	12H	12.27	13.53	12.70	13.91	14.34	25.71	26.96	26.14	27.34	27.77
4H	2H	17.37	18.84	17.77	19.19	19.56	22.87	24.34	23.27	24.69	25.06
	3H	19.31	20.55	19.72	20.94	21.34	25.05	26.30	25.46	26.69	27.09
	4H	19.50	20.63	19.93	21.04	21.47	25.90	27.02	26.33	27.43	27.87
	6H	19.62	20.61	20.07	21.05	21.50	26.52	27.51	26.97	27.95	28.40
	8H	19.65	20.57	20.11	21.01	21.48	26.72	27.65	27.18	28.09	28.55
	12H	19.67	20.51	20.15	20.98	21.45	26.87	27.71	27.35	28.18	28.65
8H	4H	21.15	22.08	21.61	22.52	22.98	26.13	27.06	26.59	27.50	27.96
	6H	21.60	22.37	22.09	22.86	23.33	26.89	27.66	27.38	28.14	28.62
	8H	21.69	22.38	22.19	22.88	23.37	27.16	27.86	27.67	28.36	28.84
	12H	21.73	22.34	22.23	22.83	23.39	27.39	28.00	27.89	28.49	29.05
12H	4H	21.36	22.20	21.84	22.67	23.14	26.14	26.98	26.62	27.45	27.92
	6H	21.94	22.64	22.45	23.14	23.62	26.91	27.61	27.42	28.11	28.60
	8H	22.15	22.77	22.66	23.26	23.81	27.25	27.86	27.75	28.35	28.91

END OF REPORT