

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: P1055081

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

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055081
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-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

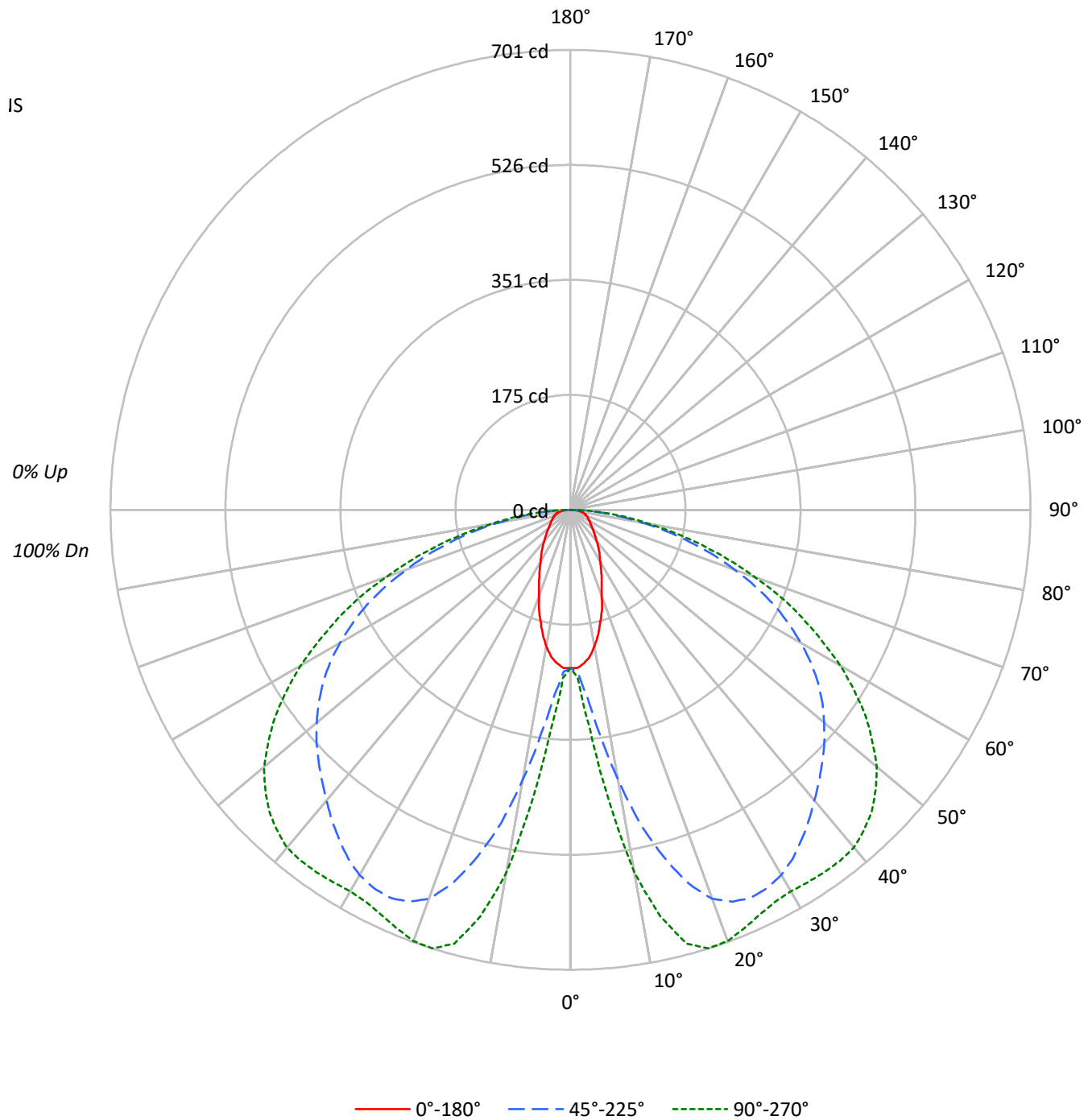
Lumens per Lamp: N/A
Luminaire Lumens: 1865.1 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2321	2321	2321
5°	2270	2742	3214
10°	2062	4084	5487
15°	1754	5455	6822
20°	1429	6465	7164
25°	1194	6926	7238
30°	1008	7145	7463
35°	893	7216	7926
40°	779	7268	8447
45°	707	7389	8844
50°	650	7559	9126
55°	624	7729	9225
60°	641	7806	9150
65°	672	7789	8882
70°	721	7462	8402
75°	807	6978	7700
80°	904	6060	6703
85°	862	5136	5733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 9225 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.7
10°-20°	138.2	7.4
20°-30°	241.8	13.0
30°-40°	311.2	16.7
40°-50°	347.6	18.6
50°-60°	333.0	17.9
60°-70°	263.9	14.1
70°-80°	155.2	8.3
80°-90°	43.1	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°	411.2	22.0
0°-40°	722.4	38.7
0°-60°	1403.0	75.2
0°-90°	1865.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	241	241	241	241	241	
5°	235	252	284	321	333	22
15°	176	325	547	664	684	49
25°	112	368	652	681	681	52
35°	76	352	614	649	674	47
45°	52	281	543	622	650	40
55°	37	178	460	535	550	34
65°	30	95	342	384	390	29
75°	22	58	188	206	207	23
85°	8	18	46	51	52	9
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°	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1
2.5°	241.1	241.1	242.6	243.4	245.0	245.7	247.3	248.8	253.5	254.3	255.8
5°	234.9	238.0	248.1	251.9	262.8	277.5	283.7	293.8	314.7	320.9	324.8
7.5°	225.6	232.6	257.4	263.6	290.7	329.5	345.8	367.5	400.8	417.1	430.3
10°	210.9	225.6	269.8	284.5	328.7	387.6	417.8	448.1	498.5	521.0	529.5
12.5°	194.6	218.6	283.0	303.1	366.7	452.7	489.2	522.5	579.9	610.1	614.8
15°	176.0	208.5	295.4	324.8	407.0	507.0	547.3	588.4	641.9	663.6	669.0
17.5°	159.7	200.8	307.0	338.0	438.0	555.8	596.9	631.0	674.4	689.2	693.1
20°	139.5	188.4	314.7	355.1	470.6	591.5	631.0	657.4	686.9	696.2	697.7
22.5°	124.8	175.2	319.4	361.3	492.3	613.2	646.5	667.5	687.6	690.7	691.5
25°	112.4	160.5	318.6	368.2	510.9	626.4	652.0	667.5	679.1	680.7	680.7
27.5°	100.8	144.2	315.5	369.8	524.8	629.5	649.6	660.5	665.9	669.0	669.0
30°	90.7	128.7	307.8	366.7	531.0	626.4	642.7	648.1	653.5	658.2	660.5
32.5°	82.9	114.0	296.1	360.5	531.8	618.6	630.3	633.4	641.1	652.0	655.8
35°	76.0	99.2	283.0	352.0	527.2	606.2	614.0	617.1	632.6	648.9	654.3
37.5°	69.0	88.4	265.9	337.2	520.2	591.5	596.9	602.4	626.4	645.8	652.0
40°	62.0	79.1	245.7	320.9	509.3	573.7	578.3	586.8	618.6	641.1	647.3
42.5°	56.6	71.3	224.0	303.9	495.4	553.5	560.5	572.9	609.3	633.4	640.3
45°	51.9	63.6	200.8	280.6	477.5	532.6	542.7	559.7	598.5	621.7	627.9
47.5°	47.3	58.1	176.8	256.6	458.2	511.7	524.8	544.2	583.7	606.2	611.7
50°	43.4	52.7	152.7	231.0	437.2	489.2	504.7	524.8	565.1	586.1	593.0
52.5°	40.3	48.1	130.2	205.4	413.2	465.9	483.7	504.7	542.7	562.8	567.5
55°	37.2	44.2	110.9	178.3	388.4	441.1	460.5	480.6	517.9	534.9	538.0
57.5°	35.7	41.1	94.6	152.7	362.0	413.2	434.9	453.5	488.4	501.6	504.7
60°	33.3	38.8	82.2	131.0	333.3	386.8	405.4	424.0	453.5	464.4	466.7
62.5°	31.0	37.2	72.9	110.1	303.9	355.8	374.4	391.5	416.3	424.0	427.2
65°	29.5	35.7	65.9	94.6	273.7	323.3	341.9	356.6	376.8	384.5	386.1
67.5°	27.9	34.1	60.5	81.4	243.4	290.7	304.7	318.6	334.1	341.9	342.7
70°	25.6	32.6	55.8	72.1	212.4	253.5	265.1	279.9	292.3	296.1	298.5
72.5°	24.0	30.2	52.7	65.1	180.6	217.8	228.7	237.2	248.1	251.9	251.9
75°	21.7	27.1	49.6	58.1	148.1	178.3	187.6	196.1	204.7	206.2	203.9
77.5°	19.4	24.0	42.6	48.8	115.5	141.1	148.8	153.5	160.5	162.0	162.8
80°	16.3	20.9	33.3	38.0	83.7	103.9	109.3	113.2	119.4	119.4	120.9
82.5°	12.4	16.3	24.0	27.1	56.6	71.3	76.0	78.3	82.2	82.2	82.2
85°	7.8	10.1	15.5	17.8	34.1	43.4	46.5	47.3	50.4	51.2	51.2
87.5°	3.9	5.4	10.1	10.9	17.8	22.5	22.5	24.0	24.0	23.3	22.5
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°	241.1	241.1
2.5°	257.4	255.8
5°	331.0	332.6
7.5°	445.8	445.0
10°	554.3	561.3
12.5°	633.4	634.9
15°	681.4	684.5
17.5°	700.0	700.8
20°	700.8	699.3
22.5°	692.3	690.7
25°	682.2	681.4
27.5°	672.9	673.7
30°	669.0	671.3
32.5°	669.0	672.9
35°	670.6	674.4
37.5°	669.8	674.4
40°	666.7	672.1
42.5°	658.2	662.0
45°	645.0	649.6
47.5°	627.9	631.0
50°	606.2	609.3
52.5°	579.1	579.9
55°	546.5	549.6
57.5°	511.7	512.4
60°	472.9	475.2
62.5°	431.8	431.8
65°	388.4	389.9
67.5°	343.4	347.3
70°	297.7	298.5
72.5°	252.7	252.7
75°	206.2	207.0
77.5°	162.0	162.0
80°	120.2	120.9
82.5°	82.9	84.5
85°	51.9	51.9
87.5°	24.0	21.7
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	9.13	10.85	9.50	11.16	11.48	21.45	23.17	21.82	23.48	23.80
	3H	10.07	11.62	10.44	11.95	12.31	23.36	24.92	23.74	25.25	25.61
	4H	10.54	12.01	10.94	12.36	12.73	24.06	25.53	24.45	25.88	26.25
	6H	11.03	12.40	11.44	12.76	13.15	24.54	25.91	24.95	26.27	26.66
	8H	11.23	12.54	11.65	12.93	13.32	24.70	26.00	25.12	26.39	26.79
	12H	11.37	12.62	11.80	13.00	13.43	24.80	26.05	25.23	26.44	26.86
4H	2H	16.46	17.93	16.86	18.28	18.65	21.96	23.44	22.36	23.78	24.16
	3H	18.40	19.64	18.81	20.04	20.44	24.15	25.39	24.56	25.78	26.18
	4H	18.59	19.72	19.02	20.13	20.56	24.99	26.11	25.42	26.53	26.96
	6H	18.71	19.70	19.16	20.14	20.59	25.61	26.60	26.06	27.04	27.49
	8H	18.74	19.66	19.20	20.11	20.57	25.81	26.74	26.27	27.18	27.64
	12H	18.76	19.60	19.24	20.07	20.54	25.96	26.80	26.44	27.27	27.74
8H	4H	20.25	21.17	20.70	21.61	22.07	25.23	26.15	25.68	26.59	27.06
	6H	20.69	21.47	21.18	21.95	22.42	25.98	26.75	26.47	27.24	27.71
	8H	20.78	21.47	21.28	21.97	22.46	26.25	26.95	26.76	27.45	27.93
	12H	20.82	21.43	21.32	21.92	22.48	26.48	27.09	26.98	27.58	28.14
12H	4H	20.46	21.29	20.93	21.76	22.23	25.23	26.07	25.71	26.54	27.01
	6H	21.03	21.73	21.54	22.23	22.72	26.00	26.70	26.51	27.20	27.69
	8H	21.24	21.86	21.75	22.35	22.90	26.34	26.95	26.84	27.44	28.00

END OF REPORT