

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: P1055083

Luminaire Tested: SQ4R-FB-075D-935-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055083
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-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

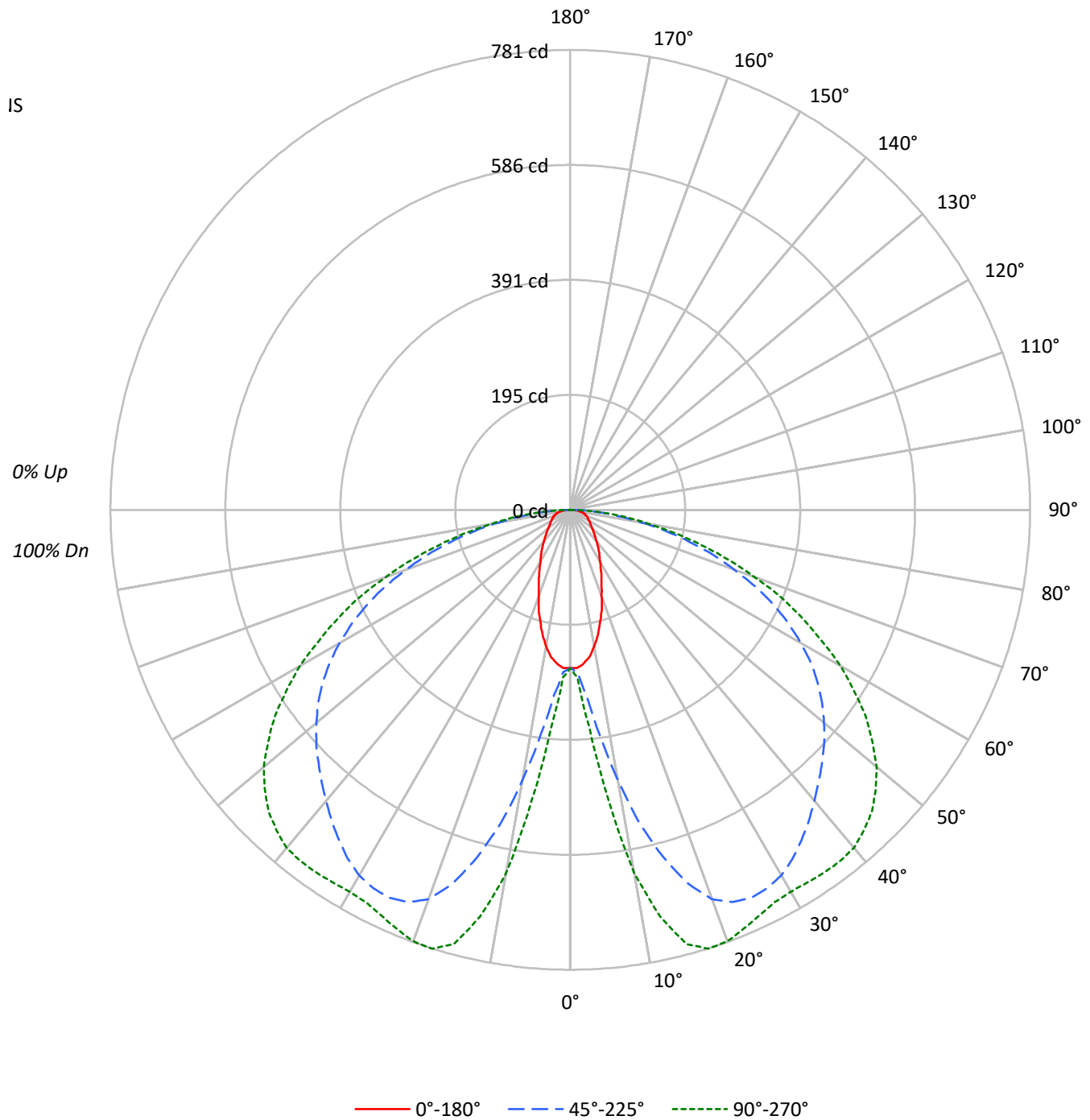
Lumens per Lamp: N/A
Luminaire Lumens: 2079.7 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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		102
1	108	103	98	94	105	100	96	92	96	93	90			92	89	87		89
2	97	89	81	75	95	87	80	74	83	77	72			80	75	71		77
3	88	77	68	61	86	75	67	61	72	65	60			69	63	58		67
4	80	67	58	51	78	66	57	51	63	56	50			61	54	49		59
5	73	60	50	43	71	59	50	43	56	48	42			54	47	42		52
6	67	53	44	37	65	52	43	37	50	42	37			49	42	36		47
7	62	48	39	32	60	47	38	32	46	38	32			44	37	32		43
8	58	43	35	28	56	43	34	28	41	34	28			40	33	28		39
9	54	40	31	25	52	39	31	25	38	30	25			37	30	25		36
10	50	36	28	23	49	36	28	23	35	27	22			34	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2588	2588	2588
5°	2531	3058	3583
10°	2298	4555	6118
15°	1956	6083	7608
20°	1594	7209	7988
25°	1331	7723	8071
30°	1124	7966	8322
35°	995	8046	8838
40°	870	8104	9418
45°	788	8239	9863
50°	725	8428	10176
55°	697	8619	10287
60°	716	8705	10203
65°	747	8684	9905
70°	802	8321	9368
75°	900	7782	8585
80°	1009	6758	7474
85°	950	5733	6396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 10287 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	1.7
10°-20°	154.1	7.4
20°-30°	269.6	13.0
30°-40°	347.0	16.7
40°-50°	387.6	18.6
50°-60°	371.3	17.9
60°-70°	294.2	14.1
70°-80°	173.0	8.3
80°-90°	48.1	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°	458.5	22.0
0°-40°	805.5	38.7
0°-60°	1564.4	75.2
0°-90°	2079.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	269	269	269	269	269	
5°	262	281	316	358	371	24
15°	196	362	610	740	763	55
25°	125	411	727	759	760	58
35°	85	392	685	724	752	53
45°	58	313	605	693	724	45
55°	42	199	514	596	613	38
65°	33	106	381	429	435	33
75°	24	65	209	230	231	25
85°	9	20	52	57	58	10
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°	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8
2.5°	268.8	268.8	270.6	271.4	273.2	274.0	275.7	277.5	282.7	283.5	285.3
5°	261.9	265.4	276.6	280.9	293.0	309.5	316.4	327.6	350.9	357.9	362.2
7.5°	251.5	259.3	287.0	293.9	324.2	367.4	385.5	409.7	446.9	465.1	479.7
10°	235.1	251.5	300.8	317.2	366.5	432.2	465.9	499.6	555.8	580.9	590.4
12.5°	217.0	243.8	315.5	338.0	408.9	504.8	545.4	582.6	646.6	680.3	685.5
15°	196.2	232.5	329.3	362.2	453.8	565.3	610.3	656.1	715.7	739.9	746.0
17.5°	178.1	223.9	342.3	376.9	488.4	619.8	665.6	703.6	752.0	768.5	772.8
20°	155.6	210.1	350.9	395.9	524.7	659.5	703.6	733.0	765.9	776.2	778.0
22.5°	139.2	195.4	356.1	402.8	548.9	683.7	720.9	744.3	766.7	770.2	771.1
25°	125.3	178.9	355.3	410.6	569.6	698.4	727.0	744.3	757.2	759.0	759.0
27.5°	112.4	160.8	351.8	412.3	585.2	701.9	724.4	736.5	742.5	746.0	746.0
30°	101.1	143.5	343.2	408.9	592.1	698.4	716.6	722.6	728.7	733.9	736.5
32.5°	92.5	127.1	330.2	401.9	593.0	689.8	702.8	706.2	714.9	727.0	731.3
35°	84.7	110.6	315.5	392.4	587.8	676.0	684.6	688.1	705.4	723.5	729.6
37.5°	76.9	98.5	296.5	376.0	580.0	659.5	665.6	671.6	698.4	720.1	727.0
40°	69.2	88.2	274.0	357.9	567.9	639.7	644.8	654.4	689.8	714.9	721.8
42.5°	63.1	79.5	249.8	338.8	552.4	617.2	625.0	638.8	679.4	706.2	714.0
45°	57.9	70.9	223.9	312.9	532.5	593.8	605.1	624.1	667.3	693.3	700.2
47.5°	52.7	64.8	197.1	286.1	510.9	570.5	585.2	606.8	650.9	676.0	682.0
50°	48.4	58.8	170.3	257.6	487.5	545.4	562.7	585.2	630.2	653.5	661.3
52.5°	44.9	53.6	145.2	229.1	460.7	519.5	539.4	562.7	605.1	627.6	632.7
55°	41.5	49.3	123.6	198.8	433.1	491.8	513.5	535.9	577.4	596.4	599.9
57.5°	39.8	45.8	105.5	170.3	403.7	460.7	484.9	505.7	544.6	559.3	562.7
60°	37.2	43.2	91.6	146.1	371.7	431.3	452.1	472.8	505.7	517.8	520.4
62.5°	34.6	41.5	81.3	122.7	338.8	396.8	417.5	436.5	464.2	472.8	476.3
65°	32.8	39.8	73.5	105.5	305.1	360.5	381.2	397.6	420.1	428.7	430.5
67.5°	31.1	38.0	67.4	90.8	271.4	324.2	339.7	355.3	372.6	381.2	382.1
70°	28.5	36.3	62.2	80.4	236.8	282.7	295.6	312.1	325.9	330.2	332.8
72.5°	26.8	33.7	58.8	72.6	201.4	242.9	255.0	264.5	276.6	280.9	280.9
75°	24.2	30.3	55.3	64.8	165.1	198.8	209.2	218.7	228.2	229.9	227.3
77.5°	21.6	26.8	47.5	54.5	128.8	157.3	166.0	171.2	178.9	180.7	181.5
80°	18.2	23.3	37.2	42.4	93.4	115.8	121.9	126.2	133.1	133.1	134.8
82.5°	13.8	18.2	26.8	30.3	63.1	79.5	84.7	87.3	91.6	91.6	91.6
85°	8.6	11.2	17.3	19.9	38.0	48.4	51.9	52.7	56.2	57.1	57.1
87.5°	4.3	6.1	11.2	12.1	19.9	25.1	25.1	26.8	26.8	25.9	25.1
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°	268.8	268.8
2.5°	287.0	285.3
5°	369.1	370.8
7.5°	497.0	496.2
10°	618.1	625.8
12.5°	706.2	708.0
15°	759.8	763.3
17.5°	780.6	781.4
20°	781.4	779.7
22.5°	771.9	770.2
25°	760.7	759.8
27.5°	750.3	751.2
30°	746.0	748.6
32.5°	746.0	750.3
35°	747.7	752.0
37.5°	746.8	752.0
40°	743.4	749.4
42.5°	733.9	738.2
45°	719.2	724.4
47.5°	700.2	703.6
50°	676.0	679.4
52.5°	645.7	646.6
55°	609.4	612.9
57.5°	570.5	571.4
60°	527.3	529.9
62.5°	481.5	481.5
65°	433.1	434.8
67.5°	382.9	387.3
70°	331.9	332.8
72.5°	281.8	281.8
75°	229.9	230.8
77.5°	180.7	180.7
80°	134.0	134.8
82.5°	92.5	94.2
85°	57.9	57.9
87.5°	26.8	24.2
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	9.51	11.23	9.87	11.54	11.85	21.83	23.55	22.19	23.86	24.17
	3H	10.44	12.00	10.82	12.33	12.69	23.74	25.30	24.12	25.63	25.99
	4H	10.92	12.39	11.31	12.74	13.11	24.43	25.91	24.83	26.25	26.63
	6H	11.41	12.78	11.82	13.14	13.53	24.92	26.29	25.33	26.65	27.04
	8H	11.61	12.92	12.03	13.30	13.70	25.07	26.38	25.50	26.77	27.17
	12H	11.75	13.00	12.17	13.38	13.81	25.18	26.43	25.61	26.81	27.24
4H	2H	16.84	18.31	17.24	18.66	19.03	22.34	23.81	22.74	24.16	24.53
	3H	18.78	20.02	19.19	20.41	20.81	24.52	25.77	24.93	26.16	26.56
	4H	18.97	20.10	19.40	20.51	20.94	25.37	26.49	25.80	26.90	27.34
	6H	19.09	20.08	19.54	20.52	20.97	25.99	26.98	26.44	27.42	27.87
	8H	19.12	20.04	19.58	20.48	20.95	26.19	27.12	26.65	27.56	28.02
	12H	19.14	19.98	19.62	20.45	20.92	26.34	27.18	26.82	27.65	28.12
8H	4H	20.62	21.55	21.08	21.99	22.45	25.60	26.53	26.06	26.97	27.43
	6H	21.07	21.84	21.56	22.33	22.80	26.36	27.13	26.85	27.61	28.09
	8H	21.16	21.85	21.66	22.35	22.84	26.63	27.33	27.14	27.83	28.31
	12H	21.20	21.81	21.70	22.30	22.86	26.86	27.47	27.36	27.96	28.52
12H	4H	20.83	21.67	21.31	22.14	22.61	25.61	26.45	26.09	26.92	27.39
	6H	21.41	22.11	21.92	22.61	23.09	26.38	27.08	26.89	27.58	28.07
	8H	21.62	22.24	22.13	22.73	23.28	26.72	27.33	27.22	27.82	28.38