

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: P1055084

Luminaire Tested: SQ4R-FB-075D-940-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055084
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-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

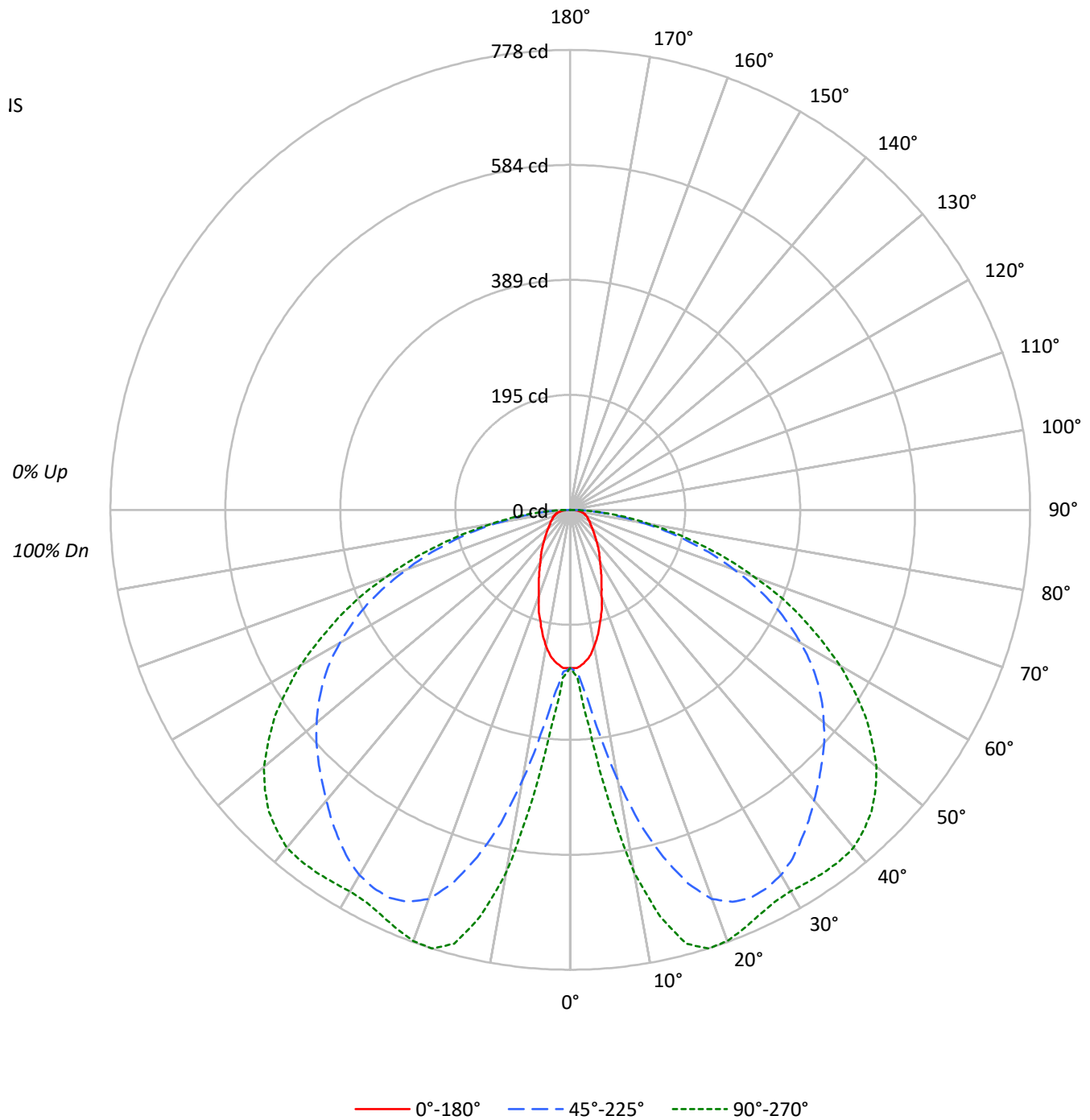
Lumens per Lamp: N/A
Luminaire Lumens: 2070.5 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2576	2576	2576
5°	2520	3044	3568
10°	2289	4535	6091
15°	1948	6056	7574
20°	1587	7177	7953
25°	1326	7689	8036
30°	1119	7931	8285
35°	991	8011	8799
40°	865	8068	9377
45°	786	8202	9819
50°	722	8390	10131
55°	693	8580	10242
60°	712	8667	10157
65°	745	8645	9862
70°	799	8284	9326
75°	896	7748	8548
80°	1003	6725	7446
85°	950	5700	6374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 10242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	1.7
10°-20°	153.4	7.4
20°-30°	268.4	13.0
30°-40°	345.5	16.7
40°-50°	385.9	18.6
50°-60°	369.6	17.9
60°-70°	292.9	14.1
70°-80°	172.2	8.3
80°-90°	47.9	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°	456.5	22.0
0°-40°	802.0	38.7
0°-60°	1557.5	75.2
0°-90°	2070.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	268	268	268	268	268	
5°	261	280	315	356	369	24
15°	195	361	608	737	760	54
25°	125	409	724	756	756	57
35°	84	391	682	720	749	53
45°	58	312	602	690	721	45
55°	41	198	511	594	610	38
65°	33	105	380	427	433	32
75°	24	64	208	229	230	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°	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6
2.5°	267.6	267.6	269.4	270.2	271.9	272.8	274.5	276.2	281.4	282.3	284.0
5°	260.8	264.2	275.4	279.7	291.7	308.1	315.0	326.2	349.4	356.3	360.6
7.5°	250.4	258.2	285.7	292.6	322.7	365.7	383.8	407.9	444.9	463.0	477.6
10°	234.1	250.4	299.5	315.8	364.9	430.3	463.9	497.4	553.4	578.3	587.8
12.5°	216.0	242.7	314.1	336.5	407.1	502.6	543.0	580.0	643.7	677.3	682.4
15°	195.4	231.5	327.9	360.6	451.8	562.8	607.6	653.2	712.6	736.7	742.7
17.5°	177.3	222.9	340.8	375.2	486.2	617.0	662.7	700.5	748.7	765.1	769.4
20°	154.9	209.1	349.4	394.1	522.4	656.6	700.5	729.8	762.5	772.8	774.5
22.5°	138.6	194.5	354.6	401.0	546.5	680.7	717.7	741.0	763.3	766.8	767.6
25°	124.8	178.1	353.7	408.8	567.1	695.4	723.8	741.0	753.9	755.6	755.6
27.5°	111.9	160.1	350.3	410.5	582.6	698.8	721.2	733.2	739.2	742.7	742.7
30°	100.7	142.9	341.7	407.1	589.5	695.4	713.4	719.5	725.5	730.6	733.2
32.5°	92.1	126.5	328.7	400.2	590.4	686.7	699.7	703.1	711.7	723.8	728.1
35°	84.3	110.2	314.1	390.7	585.2	673.0	681.6	685.0	702.2	720.3	726.3
37.5°	76.6	98.1	295.2	374.4	577.5	656.6	662.7	668.7	695.4	716.9	723.8
40°	68.8	87.8	272.8	356.3	565.4	636.8	642.0	651.5	686.7	711.7	718.6
42.5°	62.8	79.2	248.7	337.4	549.9	614.5	622.2	636.0	676.4	703.1	710.8
45°	57.7	70.6	222.9	311.5	530.1	591.2	602.4	621.3	664.4	690.2	697.1
47.5°	52.5	64.5	196.2	284.9	508.6	568.0	582.6	604.1	648.0	673.0	679.0
50°	48.2	58.5	169.5	256.5	485.4	543.0	560.2	582.6	627.4	650.6	658.3
52.5°	44.8	53.4	144.6	228.1	458.7	517.2	537.0	560.2	602.4	624.8	630.0
55°	41.3	49.1	123.1	197.9	431.2	489.7	511.2	533.6	574.9	593.8	597.2
57.5°	39.6	45.6	105.0	169.5	401.9	458.7	482.8	503.4	542.2	556.8	560.2
60°	37.0	43.0	91.2	145.4	370.1	429.4	450.1	470.7	503.4	515.5	518.1
62.5°	34.4	41.3	80.9	122.2	337.4	395.0	415.7	434.6	462.1	470.7	474.2
65°	32.7	39.6	73.1	105.0	303.8	358.9	379.5	395.9	418.2	426.9	428.6
67.5°	31.0	37.9	67.1	90.4	270.2	322.7	338.2	353.7	370.9	379.5	380.4
70°	28.4	36.1	62.0	80.0	235.8	281.4	294.3	310.7	324.4	328.7	331.3
72.5°	26.7	33.6	58.5	72.3	200.5	241.8	253.9	263.3	275.4	279.7	279.7
75°	24.1	30.1	55.1	64.5	164.4	197.9	208.3	217.7	227.2	228.9	226.3
77.5°	21.5	26.7	47.3	54.2	128.2	156.6	165.2	170.4	178.1	179.9	180.7
80°	18.1	23.2	37.0	42.2	92.9	115.3	121.3	125.6	132.5	132.5	134.3
82.5°	13.8	18.1	26.7	30.1	62.8	79.2	84.3	86.9	91.2	91.2	91.2
85°	8.6	11.2	17.2	19.8	37.9	48.2	51.6	52.5	55.9	56.8	56.8
87.5°	4.3	6.0	11.2	12.0	19.8	25.0	25.0	26.7	26.7	25.8	25.0
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°	267.6	267.6
2.5°	285.7	284.0
5°	367.5	369.2
7.5°	494.8	494.0
10°	615.3	623.1
12.5°	703.1	704.8
15°	756.5	759.9
17.5°	777.1	778.0
20°	778.0	776.3
22.5°	768.5	766.8
25°	757.3	756.5
27.5°	747.0	747.9
30°	742.7	745.3
32.5°	742.7	747.0
35°	744.4	748.7
37.5°	743.5	748.7
40°	740.1	746.1
42.5°	730.6	734.9
45°	716.0	721.2
47.5°	697.1	700.5
50°	673.0	676.4
52.5°	642.9	643.7
55°	606.7	610.2
57.5°	568.0	568.8
60°	525.0	527.5
62.5°	479.3	479.3
65°	431.2	432.9
67.5°	381.2	385.5
70°	330.5	331.3
72.5°	280.6	280.6
75°	228.9	229.8
77.5°	179.9	179.9
80°	133.4	134.3
82.5°	92.1	93.8
85°	57.7	57.7
87.5°	26.7	24.1
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	9.49	11.21	9.86	11.52	11.84	21.81	23.53	22.18	23.85	24.16
	3H	10.43	11.99	10.80	12.31	12.67	23.73	25.29	24.10	25.61	25.97
	4H	10.90	12.37	11.30	12.72	13.09	24.42	25.89	24.82	26.24	26.61
	6H	11.39	12.76	11.80	13.12	13.51	24.91	26.27	25.32	26.64	27.03
	8H	11.59	12.90	12.01	13.29	13.69	25.06	26.37	25.48	26.76	27.15
	12H	11.73	12.99	12.16	13.37	13.80	25.16	26.42	25.59	26.80	27.23
4H	2H	16.82	18.30	17.22	18.64	19.02	22.33	23.80	22.72	24.15	24.52
	3H	18.76	20.00	19.17	20.40	20.80	24.51	25.75	24.92	26.15	26.55
	4H	18.95	20.08	19.38	20.49	20.93	25.35	26.48	25.78	26.89	27.32
	6H	19.07	20.06	19.52	20.50	20.95	25.98	26.96	26.43	27.40	27.85
	8H	19.10	20.03	19.56	20.47	20.93	26.18	27.10	26.63	27.54	28.01
	12H	19.13	19.96	19.60	20.43	20.90	26.33	27.16	26.81	27.64	28.10
8H	4H	20.61	21.53	21.07	21.97	22.44	25.59	26.51	26.05	26.95	27.42
	6H	21.06	21.83	21.55	22.31	22.79	26.34	27.11	26.83	27.60	28.07
	8H	21.14	21.83	21.65	22.34	22.82	26.62	27.31	27.12	27.81	28.30
	12H	21.18	21.80	21.69	22.29	22.84	26.84	27.46	27.35	27.95	28.50
12H	4H	20.82	21.65	21.30	22.13	22.59	25.60	26.43	26.07	26.90	27.37
	6H	21.40	22.09	21.90	22.60	23.08	26.37	27.06	26.87	27.57	28.05
	8H	21.61	22.22	22.11	22.71	23.27	26.70	27.32	27.20	27.80	28.36