

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: P1055080

Luminaire Tested: SQ4R-FB-075D-840-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055080
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-840-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

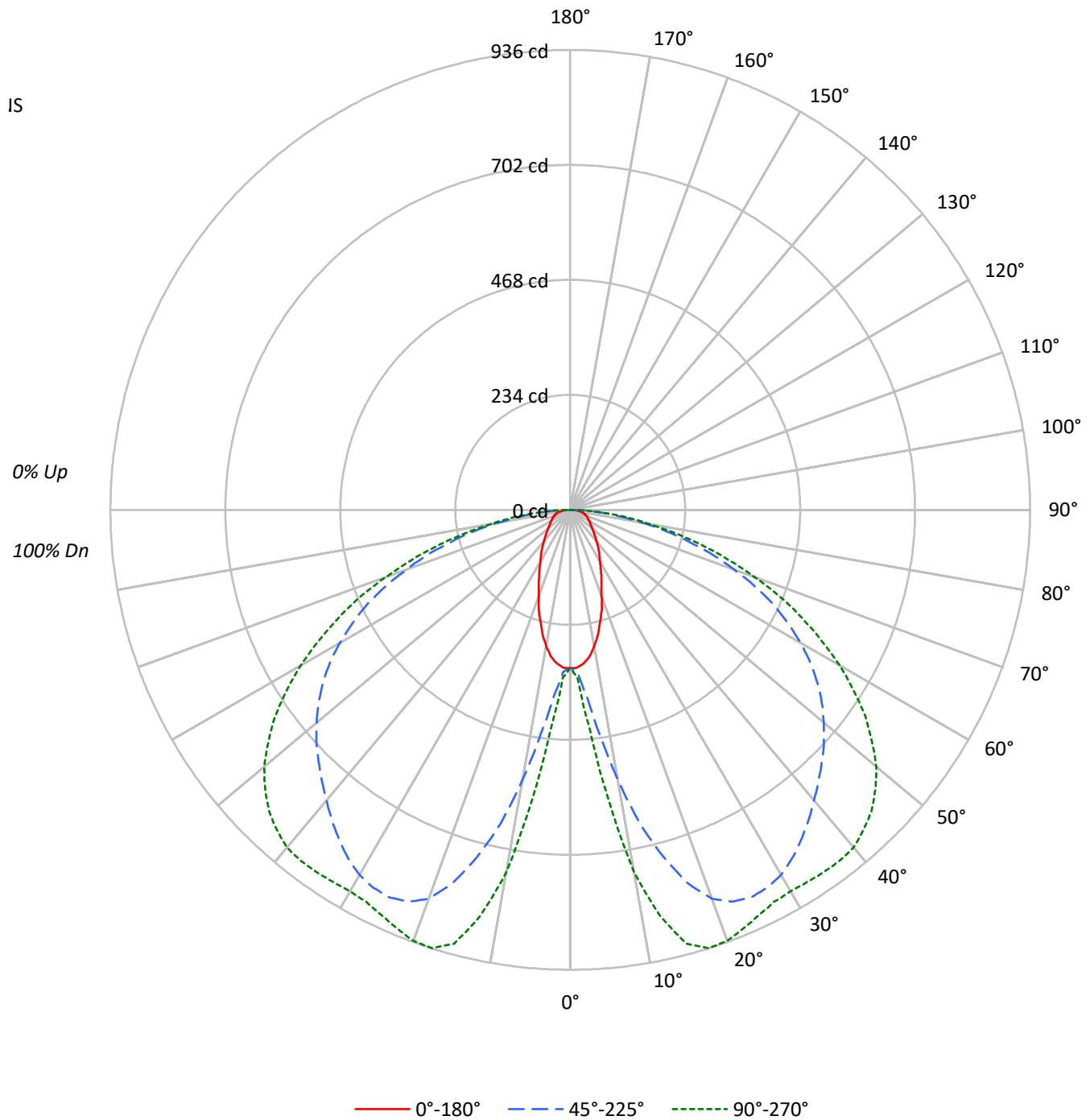
Lumens per Lamp: N/A
Luminaire Lumens: 2489.7 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	3098	3098	3098
5°	3031	3660	4290
10°	2752	5453	7324
15°	2341	7282	9108
20°	1909	8631	9563
25°	1594	9245	9662
30°	1346	9537	9963
35°	1192	9633	10581
40°	1041	9702	11276
45°	944	9863	11807
50°	869	10090	12183
55°	834	10318	12315
60°	857	10421	12215
65°	895	10397	11857
70°	960	9962	11214
75°	1079	9314	10278
80°	1203	8089	8948
85°	1138	6860	7655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 12315 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.7
10°-20°	184.5	7.4
20°-30°	322.7	13.0
30°-40°	415.5	16.7
40°-50°	464.0	18.6
50°-60°	444.5	17.9
60°-70°	352.2	14.1
70°-80°	207.1	8.3
80°-90°	57.5	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°	548.9	22.0
0°-40°	964.3	38.7
0°-60°	1872.8	75.2
0°-90°	2489.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	322	322	322	322	322	
5°	314	336	379	428	444	29
15°	235	434	731	886	914	65
25°	150	492	870	909	910	69
35°	101	470	820	866	900	63
45°	69	375	724	830	867	54
55°	50	238	615	714	734	45
65°	39	126	456	513	520	39
75°	29	78	250	275	276	30
85°	10	24	62	68	69	12
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°	321.8	321.8	321.8	321.8	321.8	321.8	321.8	321.8	321.8	321.8	321.8
2.5°	321.8	321.8	323.9	324.9	327.0	328.0	330.1	332.2	338.4	339.4	341.5
5°	313.6	317.7	331.1	336.3	350.8	370.5	378.7	392.2	420.1	428.4	433.6
7.5°	301.1	310.5	343.6	351.8	388.1	439.8	461.5	490.5	535.0	556.7	574.3
10°	281.5	301.1	360.1	379.8	438.8	517.4	557.8	598.1	665.4	695.4	706.8
12.5°	259.7	291.8	377.7	404.6	489.5	604.3	653.0	697.5	774.1	814.4	820.6
15°	234.9	278.4	394.3	433.6	543.3	676.8	730.6	785.4	856.8	885.8	893.1
17.5°	213.2	268.0	409.8	451.2	584.7	742.0	796.8	842.4	900.3	920.0	925.1
20°	186.3	251.5	420.1	474.0	628.1	789.6	842.4	877.5	916.9	929.3	931.4
22.5°	166.6	233.9	426.4	482.2	657.1	818.6	863.1	891.0	917.9	922.0	923.1
25°	150.1	214.2	425.3	491.5	682.0	836.1	870.3	891.0	906.5	908.6	908.6
27.5°	134.5	192.5	421.2	493.6	700.6	840.3	867.2	881.7	888.9	893.1	893.1
30°	121.1	171.8	410.8	489.5	708.9	836.1	857.9	865.1	872.4	878.6	881.7
32.5°	110.7	152.1	395.3	481.2	709.9	825.8	841.3	845.5	855.8	870.3	875.5
35°	101.4	132.5	377.7	469.8	703.7	809.2	819.6	823.7	844.4	866.2	873.4
37.5°	92.1	118.0	354.9	450.2	694.4	789.6	796.8	804.1	836.1	862.0	870.3
40°	82.8	105.6	328.0	428.4	679.9	765.8	772.0	783.4	825.8	855.8	864.1
42.5°	75.5	95.2	299.1	405.7	661.3	738.9	748.2	764.7	813.4	845.5	854.8
45°	69.3	84.9	268.0	374.6	637.5	710.9	724.4	747.2	798.9	829.9	838.2
47.5°	63.1	77.6	235.9	342.5	611.6	683.0	700.6	726.5	779.2	809.2	816.5
50°	58.0	70.4	203.9	308.4	583.6	653.0	673.7	700.6	754.4	782.3	791.6
52.5°	53.8	64.2	173.9	274.2	551.6	621.9	645.7	673.7	724.4	751.3	757.5
55°	49.7	59.0	148.0	238.0	518.5	588.8	614.7	641.6	691.3	714.0	718.2
57.5°	47.6	54.8	126.2	203.9	483.3	551.6	580.5	605.4	651.9	669.5	673.7
60°	44.5	51.7	109.7	174.9	445.0	516.4	541.2	566.1	605.4	619.9	623.0
62.5°	41.4	49.7	97.3	146.9	405.7	475.0	499.8	522.6	555.7	566.1	570.2
65°	39.3	47.6	88.0	126.2	365.3	431.5	456.4	476.0	502.9	513.3	515.3
67.5°	37.3	45.5	80.7	108.7	324.9	388.1	406.7	425.3	446.0	456.4	457.4
70°	34.1	43.5	74.5	96.2	283.5	338.4	353.9	373.6	390.1	395.3	398.4
72.5°	32.1	40.4	70.4	86.9	241.1	290.8	305.3	316.7	331.1	336.3	336.3
75°	29.0	36.2	66.2	77.6	197.7	238.0	250.4	261.8	273.2	275.3	272.2
77.5°	25.9	32.1	56.9	65.2	154.2	188.3	198.7	204.9	214.2	216.3	217.3
80°	21.7	27.9	44.5	50.7	111.8	138.7	145.9	151.1	159.4	159.4	161.4
82.5°	16.6	21.7	32.1	36.2	75.5	95.2	101.4	104.5	109.7	109.7	109.7
85°	10.3	13.5	20.7	23.8	45.5	58.0	62.1	63.1	67.3	68.3	68.3
87.5°	5.2	7.2	13.5	14.5	23.8	30.0	30.0	32.1	32.1	31.0	30.0
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°	321.8	321.8
2.5°	343.6	341.5
5°	441.9	443.9
7.5°	595.0	594.0
10°	739.9	749.2
12.5°	845.5	847.5
15°	909.6	913.8
17.5°	934.5	935.5
20°	935.5	933.4
22.5°	924.1	922.0
25°	910.7	909.6
27.5°	898.2	899.3
30°	893.1	896.2
32.5°	893.1	898.2
35°	895.1	900.3
37.5°	894.1	900.3
40°	890.0	897.2
42.5°	878.6	883.7
45°	861.0	867.2
47.5°	838.2	842.4
50°	809.2	813.4
52.5°	773.0	774.1
55°	729.6	733.7
57.5°	683.0	684.0
60°	631.2	634.4
62.5°	576.4	576.4
65°	518.5	520.5
67.5°	458.4	463.6
70°	397.4	398.4
72.5°	337.4	337.4
75°	275.3	276.3
77.5°	216.3	216.3
80°	160.4	161.4
82.5°	110.7	112.8
85°	69.3	69.3
87.5°	32.1	29.0
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	10.13	11.85	10.49	12.16	12.47	22.46	24.17	22.82	24.49	24.80
	3H	11.06	12.62	11.44	12.95	13.31	24.37	25.93	24.74	26.25	26.61
	4H	11.54	13.01	11.94	13.36	13.73	25.06	26.53	25.46	26.88	27.25
	6H	12.03	13.40	12.44	13.76	14.15	25.55	26.91	25.96	27.28	27.67
	8H	12.23	13.54	12.65	13.93	14.32	25.70	27.01	26.12	27.40	27.79
	12H	12.37	13.62	12.80	14.01	14.43	25.80	27.06	26.23	27.44	27.87
4H	2H	17.47	18.94	17.86	19.28	19.66	22.97	24.44	23.36	24.79	25.16
	3H	19.40	20.64	19.81	21.04	21.44	25.15	26.39	25.56	26.79	27.19
	4H	19.60	20.72	20.03	21.13	21.57	25.99	27.12	26.42	27.53	27.96
	6H	19.71	20.70	20.17	21.14	21.59	26.62	27.60	27.07	28.04	28.49
	8H	19.74	20.67	20.20	21.11	21.57	26.82	27.74	27.27	28.18	28.65
	12H	19.77	20.60	20.24	21.07	21.54	26.97	27.80	27.45	28.28	28.74
8H	4H	21.25	22.17	21.71	22.61	23.08	26.23	27.15	26.69	27.60	28.06
	6H	21.70	22.47	22.19	22.95	23.43	26.98	27.76	27.47	28.24	28.71
	8H	21.78	22.47	22.29	22.98	23.46	27.26	27.95	27.76	28.45	28.94
	12H	21.82	22.44	22.33	22.93	23.48	27.48	28.10	27.99	28.59	29.14
12H	4H	21.46	22.29	21.94	22.77	23.24	26.24	27.07	26.72	27.55	28.01
	6H	22.04	22.73	22.54	23.24	23.72	27.01	27.70	27.51	28.21	28.69
	8H	22.25	22.86	22.75	23.35	23.91	27.34	27.96	27.85	28.44	29.00