

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: P1055097

Luminaire Tested: SQ4R-FB-125D-935-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055097
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-125D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

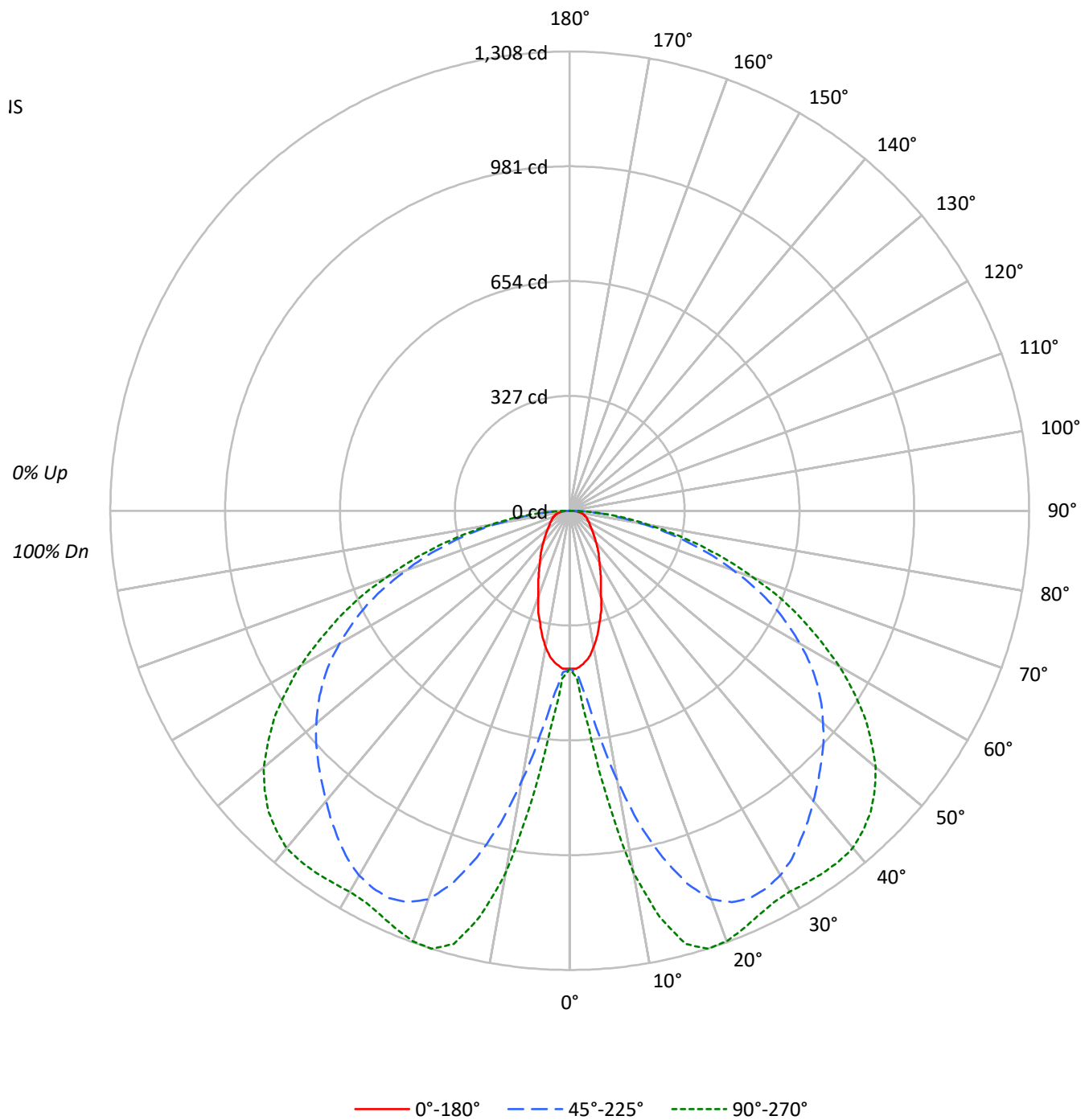
Lumens per Lamp: N/A
Luminaire Lumens: 3481.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 49.5
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°	4332	4332	4332
5°	4237	5118	5999
10°	3848	7624	10240
15°	3273	10181	12734
20°	2668	12067	13371
25°	2229	12926	13510
30°	1882	13334	13929
35°	1667	13468	14794
40°	1455	13565	15765
45°	1319	13789	16508
50°	1213	14107	17032
55°	1167	14425	17218
60°	1198	14570	17077
65°	1253	14536	16579
70°	1343	13928	15679
75°	1506	13023	14369
80°	1685	11310	12513
85°	1602	9588	10704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 17218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	1.7
10°-20°	258.0	7.4
20°-30°	451.2	13.0
30°-40°	580.9	16.7
40°-50°	648.8	18.6
50°-60°	621.4	17.9
60°-70°	492.5	14.1
70°-80°	289.6	8.3
80°-90°	80.5	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°	767.4	22.0
0°-40°	1348.3	38.7
0°-60°	2618.5	75.2
0°-90°	3481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	438	470	530	599	621	40
15°	328	606	1022	1238	1278	91
25°	210	687	1217	1270	1272	97
35°	142	657	1146	1211	1259	89
45°	97	524	1013	1160	1212	75
55°	70	333	859	998	1026	63
65°	55	176	638	718	728	54
75°	40	108	350	385	386	42
85°	14	33	87	96	97	16
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°	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0
2.5°	450.0	450.0	452.9	454.3	457.2	458.7	461.6	464.4	473.1	474.6	477.5
5°	438.4	444.2	463.0	470.2	490.5	518.0	529.6	548.4	587.4	599.0	606.2
7.5°	421.0	434.1	480.4	491.9	542.6	614.9	645.3	685.8	748.0	778.4	803.0
10°	393.6	421.0	503.5	531.0	613.5	723.4	779.9	836.3	930.3	972.3	988.2
12.5°	363.2	408.0	528.1	565.7	684.4	845.0	913.0	975.2	1082.3	1138.7	1147.4
15°	328.4	389.2	551.3	606.2	759.6	946.3	1021.5	1098.2	1198.0	1238.5	1248.7
17.5°	298.1	374.7	573.0	630.8	817.5	1037.4	1114.1	1177.8	1258.8	1286.3	1293.5
20°	260.4	351.6	587.4	662.7	878.3	1104.0	1177.8	1227.0	1281.9	1299.3	1302.2
22.5°	232.9	327.0	596.1	674.2	918.8	1144.5	1206.7	1245.8	1283.4	1289.2	1290.6
25°	209.8	299.5	594.7	687.3	953.5	1169.1	1216.8	1245.8	1267.5	1270.4	1270.4
27.5°	188.1	269.1	588.9	690.2	979.5	1174.9	1212.5	1232.7	1242.9	1248.7	1248.7
30°	169.3	240.2	574.4	684.4	991.1	1169.1	1199.5	1209.6	1219.7	1228.4	1232.7
32.5°	154.8	212.7	552.7	672.8	992.6	1154.6	1176.3	1182.1	1196.6	1216.8	1224.1
35°	141.8	185.2	528.1	656.9	983.9	1131.5	1145.9	1151.7	1180.7	1211.0	1221.2
37.5°	128.8	164.9	496.3	629.4	970.9	1104.0	1114.1	1124.2	1169.1	1205.2	1216.8
40°	115.8	147.6	458.7	599.0	950.6	1070.7	1079.4	1095.3	1154.6	1196.6	1208.1
42.5°	105.6	133.1	418.1	567.2	924.6	1033.1	1046.1	1069.2	1137.2	1182.1	1195.1
45°	96.9	118.6	374.7	523.8	891.3	994.0	1012.8	1044.6	1117.0	1160.4	1172.0
47.5°	88.3	108.5	329.9	478.9	855.1	954.9	979.5	1015.7	1089.5	1131.5	1141.6
50°	81.0	98.4	285.0	431.2	816.0	913.0	941.9	979.5	1054.8	1093.8	1106.9
52.5°	75.2	89.7	243.1	383.4	771.2	869.6	902.9	941.9	1012.8	1050.4	1059.1
55°	69.5	82.5	206.9	332.8	724.9	823.3	859.4	897.1	966.5	998.3	1004.1
57.5°	66.6	76.7	176.5	285.0	675.7	771.2	811.7	846.4	911.5	936.1	941.9
60°	62.2	72.3	153.4	244.5	622.2	722.0	756.7	791.4	846.4	866.7	871.0
62.5°	57.9	69.5	136.0	205.5	567.2	664.1	698.8	730.7	777.0	791.4	797.2
65°	55.0	66.6	123.0	176.5	510.7	603.3	638.1	665.6	703.2	717.7	720.5
67.5°	52.1	63.7	112.9	151.9	454.3	542.6	568.6	594.7	623.6	638.1	639.5
70°	47.7	60.8	104.2	134.6	396.4	473.1	494.8	522.3	545.5	552.7	557.0
72.5°	44.9	56.4	98.4	121.5	337.1	406.6	426.8	442.7	463.0	470.2	470.2
75°	40.5	50.6	92.6	108.5	276.4	332.8	350.1	366.1	382.0	384.9	380.5
77.5°	36.2	44.9	79.6	91.2	215.6	263.3	277.8	286.5	299.5	302.4	303.8
80°	30.4	39.1	62.2	70.9	156.3	193.9	204.0	211.2	222.8	222.8	225.7
82.5°	23.2	30.4	44.9	50.6	105.6	133.1	141.8	146.1	153.4	153.4	153.4
85°	14.5	18.8	28.9	33.3	63.7	81.0	86.8	88.3	94.0	95.5	95.5
87.5°	7.2	10.1	18.8	20.3	33.3	42.0	42.0	44.9	44.9	43.4	42.0
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°	450.0	450.0
2.5°	480.4	477.5
5°	617.8	620.7
7.5°	832.0	830.5
10°	1034.5	1047.5
12.5°	1182.1	1185.0
15°	1271.8	1277.6
17.5°	1306.5	1308.0
20°	1308.0	1305.1
22.5°	1292.1	1289.2
25°	1273.3	1271.8
27.5°	1255.9	1257.3
30°	1248.7	1253.0
32.5°	1248.7	1255.9
35°	1251.5	1258.8
37.5°	1250.1	1258.8
40°	1244.3	1254.4
42.5°	1228.4	1235.6
45°	1203.8	1212.5
47.5°	1172.0	1177.8
50°	1131.5	1137.2
52.5°	1080.8	1082.3
55°	1020.0	1025.8
57.5°	954.9	956.4
60°	882.6	886.9
62.5°	805.9	805.9
65°	724.9	727.8
67.5°	641.0	648.2
70°	555.6	557.0
72.5°	471.7	471.7
75°	384.9	386.3
77.5°	302.4	302.4
80°	224.3	225.7
82.5°	154.8	157.7
85°	96.9	96.9
87.5°	44.9	40.5
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	11.30	13.01	11.66	13.33	13.64	23.62	25.34	23.98	25.65	25.96
	3H	12.23	13.79	12.61	14.12	14.48	25.53	27.09	25.91	27.42	27.78
	4H	12.71	14.18	13.10	14.52	14.90	26.23	27.70	26.62	28.04	28.42
	6H	13.20	14.57	13.61	14.93	15.32	26.71	28.08	27.12	28.44	28.83
	8H	13.40	14.71	13.82	15.09	15.49	26.86	28.17	27.29	28.56	28.96
	12H	13.54	14.79	13.97	15.17	15.60	26.97	28.22	27.40	28.60	29.03
4H	2H	18.63	20.10	19.03	20.45	20.82	24.13	25.60	24.53	25.95	26.32
	3H	20.57	21.81	20.98	22.20	22.60	26.31	27.56	26.72	27.95	28.35
	4H	20.76	21.89	21.19	22.30	22.73	27.16	28.28	27.59	28.69	29.13
	6H	20.88	21.87	21.33	22.31	22.76	27.78	28.77	28.23	29.21	29.66
	8H	20.91	21.83	21.37	22.27	22.74	27.98	28.91	28.44	29.35	29.81
	12H	20.93	21.77	21.41	22.24	22.71	28.13	28.97	28.61	29.44	29.91
8H	4H	22.41	23.34	22.87	23.78	24.24	27.39	28.32	27.85	28.76	29.22
	6H	22.86	23.63	23.35	24.12	24.59	28.15	28.92	28.64	29.40	29.88
	8H	22.95	23.64	23.45	24.14	24.63	28.42	29.12	28.93	29.62	30.10
	12H	22.99	23.60	23.49	24.09	24.65	28.65	29.26	29.15	29.75	30.31
12H	4H	22.62	23.46	23.10	23.93	24.40	27.40	28.24	27.88	28.71	29.18
	6H	23.20	23.90	23.71	24.40	24.88	28.17	28.87	28.68	29.37	29.86
	8H	23.41	24.03	23.92	24.52	25.07	28.51	29.12	29.01	29.61	30.17