

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: P1055096

Luminaire Tested: SQ4R-FB-125D-930-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055096
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-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

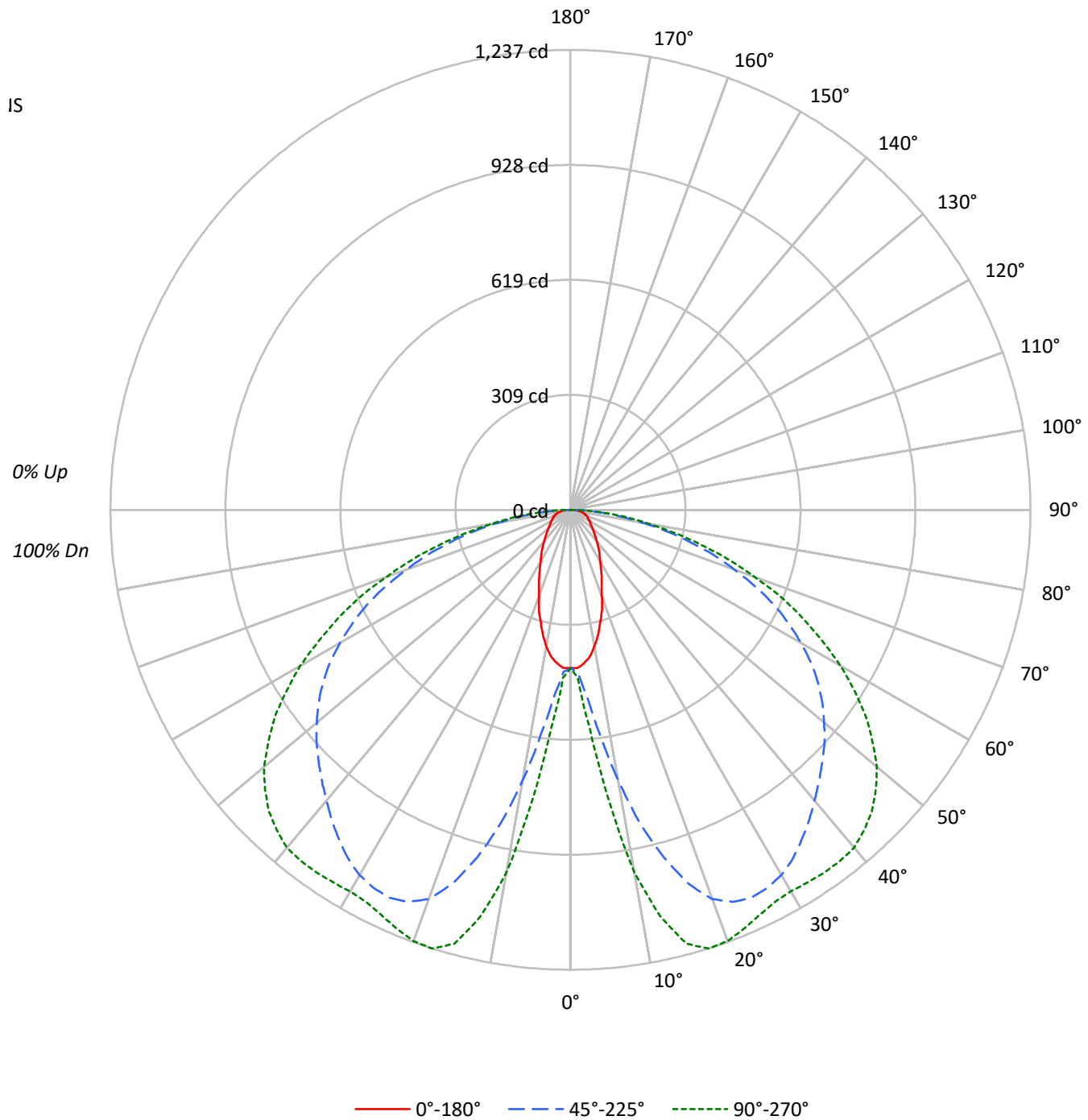
Lumens per Lamp: N/A
Luminaire Lumens: 3292.3 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4097	4097	4097
5°	4007	4840	5674
10°	3639	7211	9685
15°	3096	9629	12043
20°	2523	11412	12646
25°	2108	12224	12777
30°	1780	12611	13174
35°	1576	12738	13992
40°	1376	12829	14910
45°	1249	13042	15612
50°	1147	13342	16110
55°	1103	13643	16285
60°	1132	13781	16151
65°	1185	13748	15680
70°	1272	13173	14829
75°	1425	12320	13592
80°	1591	10695	11837
85°	1513	9069	10129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 16285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.7
10°-20°	244.0	7.4
20°-30°	426.8	13.0
30°-40°	549.4	16.7
40°-50°	613.6	18.6
50°-60°	587.7	17.9
60°-70°	465.8	14.1
70°-80°	273.9	8.3
80°-90°	76.1	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°	725.8	22.0
0°-40°	1275.2	38.7
0°-60°	2476.5	75.2
0°-90°	3292.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	415	445	501	566	587	38
15°	311	573	966	1171	1208	86
25°	198	650	1151	1202	1203	91
35°	134	621	1084	1145	1190	84
45°	92	495	958	1098	1147	71
55°	66	315	813	944	970	60
65°	52	167	604	679	688	52
75°	38	103	331	364	365	40
85°	14	32	82	90	92	15
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°	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6
2.5°	425.6	425.6	428.3	429.7	432.4	433.8	436.5	439.3	447.5	448.8	451.6
5°	414.6	420.1	437.9	444.7	463.9	489.9	500.8	518.6	555.6	566.5	573.4
7.5°	398.2	410.5	454.3	465.3	513.2	581.6	610.3	648.6	707.5	736.2	759.5
10°	372.2	398.2	476.2	502.2	580.2	684.2	737.6	790.9	879.9	919.6	934.6
12.5°	343.5	385.9	499.5	535.1	647.3	799.2	863.5	922.3	1023.6	1076.9	1085.2
15°	310.6	368.1	521.4	573.4	718.4	894.9	966.1	1038.6	1133.1	1171.4	1180.9
17.5°	281.9	354.4	541.9	596.6	773.2	981.2	1053.7	1113.9	1190.5	1216.5	1223.4
20°	246.3	332.5	555.6	626.7	830.6	1044.1	1113.9	1160.4	1212.4	1228.8	1231.6
22.5°	220.3	309.3	563.8	637.7	868.9	1082.4	1141.3	1178.2	1213.8	1219.3	1220.6
25°	198.4	283.3	562.4	650.0	901.8	1105.7	1150.8	1178.2	1198.7	1201.5	1201.5
27.5°	177.9	254.5	556.9	652.7	926.4	1111.2	1146.7	1165.9	1175.5	1180.9	1180.9
30°	160.1	227.2	543.3	647.3	937.4	1105.7	1134.4	1144.0	1153.6	1161.8	1165.9
32.5°	146.4	201.2	522.7	636.3	938.7	1092.0	1112.5	1118.0	1131.7	1150.8	1157.7
35°	134.1	175.2	499.5	621.3	930.5	1070.1	1083.8	1089.3	1116.6	1145.4	1154.9
37.5°	121.8	156.0	469.4	595.3	918.2	1044.1	1053.7	1063.3	1105.7	1139.9	1150.8
40°	109.5	139.6	433.8	566.5	899.1	1012.6	1020.8	1035.9	1092.0	1131.7	1142.6
42.5°	99.9	125.9	395.5	536.4	874.4	977.1	989.4	1011.3	1075.6	1118.0	1130.3
45°	91.7	112.2	354.4	495.4	842.9	940.1	957.9	988.0	1056.4	1097.5	1108.4
47.5°	83.5	102.6	312.0	452.9	808.7	903.2	926.4	960.6	1030.4	1070.1	1079.7
50°	76.6	93.1	269.6	407.8	771.8	863.5	890.8	926.4	997.6	1034.5	1046.8
52.5°	71.2	84.8	229.9	362.6	729.4	822.4	853.9	890.8	957.9	993.5	1001.7
55°	65.7	78.0	195.7	314.7	685.6	778.6	812.8	848.4	914.1	944.2	949.7
57.5°	62.9	72.5	166.9	269.6	639.1	729.4	767.7	800.5	862.1	885.4	890.8
60°	58.8	68.4	145.1	231.3	588.4	682.8	715.7	748.5	800.5	819.7	823.8
62.5°	54.7	65.7	128.6	194.3	536.4	628.1	660.9	691.1	734.8	748.5	754.0
65°	52.0	62.9	116.3	166.9	483.1	570.6	603.5	629.5	665.1	678.7	681.5
67.5°	49.3	60.2	106.7	143.7	429.7	513.2	537.8	562.4	589.8	603.5	604.8
70°	45.2	57.5	98.5	127.3	374.9	447.5	468.0	494.0	515.9	522.7	526.8
72.5°	42.4	53.4	93.1	114.9	318.8	384.5	403.7	418.7	437.9	444.7	444.7
75°	38.3	47.9	87.6	102.6	261.4	314.7	331.2	346.2	361.3	364.0	359.9
77.5°	34.2	42.4	75.3	86.2	203.9	249.1	262.7	270.9	283.3	286.0	287.4
80°	28.7	36.9	58.8	67.1	147.8	183.4	192.9	199.8	210.7	210.7	213.5
82.5°	21.9	28.7	42.4	47.9	99.9	125.9	134.1	138.2	145.1	145.1	145.1
85°	13.7	17.8	27.4	31.5	60.2	76.6	82.1	83.5	88.9	90.3	90.3
87.5°	6.8	9.6	17.8	19.2	31.5	39.7	39.7	42.4	42.4	41.1	39.7
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°	425.6	425.6
2.5°	454.3	451.6
5°	584.3	587.1
7.5°	786.8	785.5
10°	978.4	990.7
12.5°	1118.0	1120.7
15°	1202.8	1208.3
17.5°	1235.7	1237.1
20°	1237.1	1234.3
22.5°	1222.0	1219.3
25°	1204.2	1202.8
27.5°	1187.8	1189.2
30°	1180.9	1185.1
32.5°	1180.9	1187.8
35°	1183.7	1190.5
37.5°	1182.3	1190.5
40°	1176.8	1186.4
42.5°	1161.8	1168.6
45°	1138.5	1146.7
47.5°	1108.4	1113.9
50°	1070.1	1075.6
52.5°	1022.2	1023.6
55°	964.7	970.2
57.5°	903.2	904.5
60°	834.7	838.8
62.5°	762.2	762.2
65°	685.6	688.3
67.5°	606.2	613.1
70°	525.5	526.8
72.5°	446.1	446.1
75°	364.0	365.4
77.5°	286.0	286.0
80°	212.1	213.5
82.5°	146.4	149.2
85°	91.7	91.7
87.5°	42.4	38.3
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	11.10	12.82	11.47	13.13	13.45	23.43	25.14	23.79	25.46	25.77
	3H	12.04	13.60	12.41	13.92	14.28	25.34	26.90	25.71	27.22	27.58
	4H	12.51	13.98	12.91	14.33	14.70	26.03	27.50	26.43	27.85	28.22
	6H	13.00	14.37	13.41	14.73	15.12	26.52	27.89	26.93	28.25	28.64
	8H	13.20	14.51	13.62	14.90	15.29	26.67	27.98	27.09	28.37	28.76
	12H	13.34	14.59	13.77	14.98	15.40	26.77	28.03	27.20	28.41	28.84
4H	2H	18.44	19.91	18.83	20.26	20.63	23.94	25.41	24.34	25.76	26.13
	3H	20.37	21.62	20.78	22.01	22.41	26.12	27.36	26.53	27.76	28.16
	4H	20.57	21.69	21.00	22.10	22.54	26.96	28.09	27.39	28.50	28.93
	6H	20.69	21.67	21.14	22.11	22.56	27.59	28.57	28.04	29.01	29.46
	8H	20.71	21.64	21.17	22.08	22.54	27.79	28.71	28.24	29.15	29.62
	12H	20.74	21.57	21.21	22.04	22.51	27.94	28.77	28.42	29.25	29.71
8H	4H	22.22	23.15	22.68	23.59	24.05	27.20	28.13	27.66	28.57	29.03
	6H	22.67	23.44	23.16	23.93	24.40	27.95	28.73	28.44	29.21	29.68
	8H	22.75	23.45	23.26	23.95	24.43	28.23	28.92	28.73	29.43	29.91
	12H	22.79	23.41	23.30	23.90	24.45	28.46	29.07	28.96	29.56	30.12
12H	4H	22.43	23.27	22.91	23.74	24.21	27.21	28.04	27.69	28.52	28.98
	6H	23.01	23.70	23.51	24.21	24.69	27.98	28.67	28.48	29.18	29.66
	8H	23.22	23.83	23.72	24.32	24.88	28.31	28.93	28.82	29.42	29.97