

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: P1055098

Luminaire Tested: SQ4R-FB-125D-940-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055098
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-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

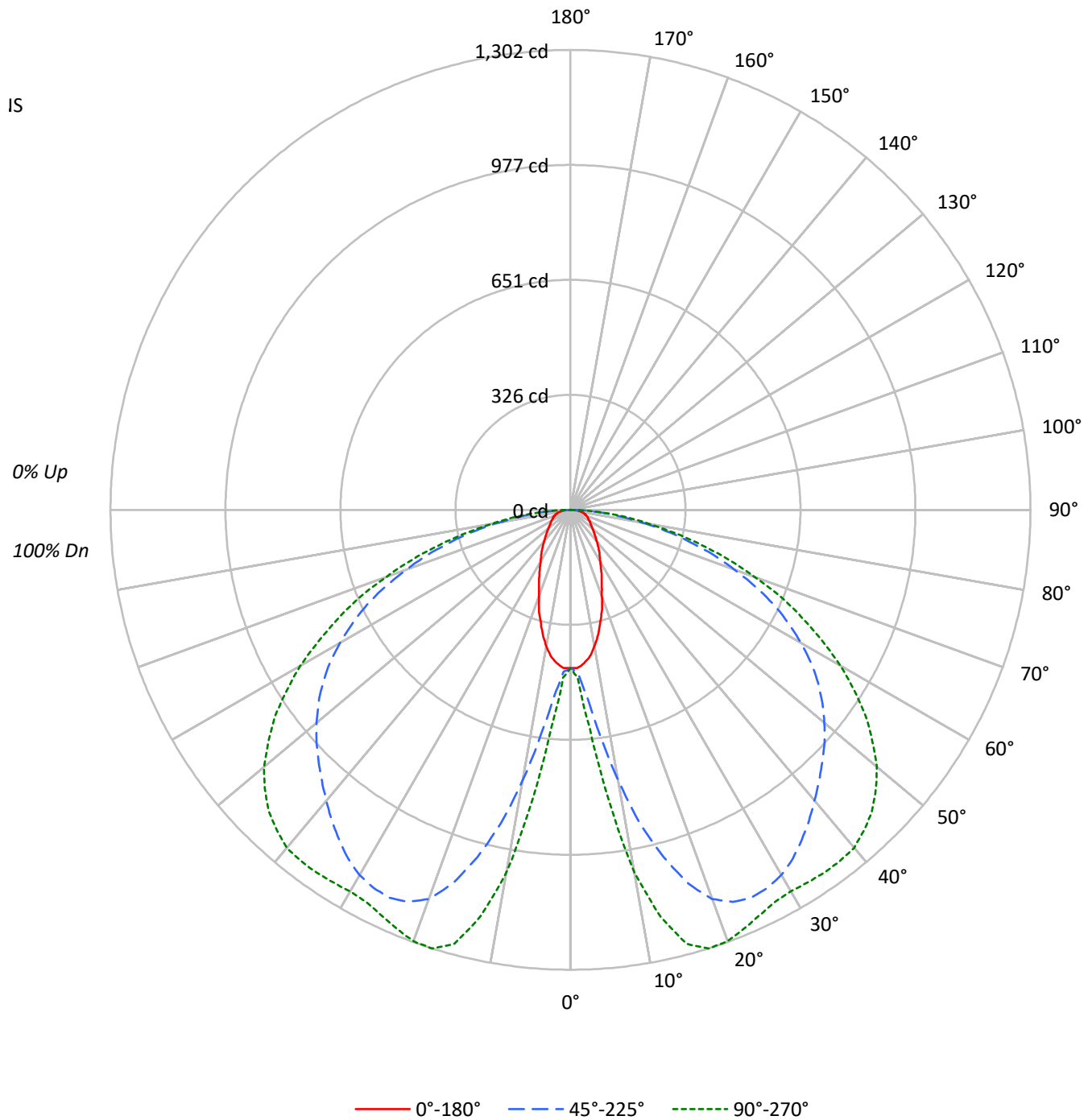
Lumens per Lamp: N/A
Luminaire Lumens: 3465.7 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4313	4313	4313
5°	4218	5095	5972
10°	3830	7590	10195
15°	3259	10136	12677
20°	2657	12014	13312
25°	2219	12868	13450
30°	1873	13276	13868
35°	1659	13409	14729
40°	1448	13505	15696
45°	1314	13728	16435
50°	1209	14046	16958
55°	1160	14361	17142
60°	1192	14506	17002
65°	1246	14472	16507
70°	1337	13866	15611
75°	1499	12967	14306
80°	1680	11260	12458
85°	1591	9544	10660

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 17142 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.7
10°-20°	256.8	7.4
20°-30°	449.2	13.0
30°-40°	578.3	16.7
40°-50°	645.9	18.6
50°-60°	618.7	17.9
60°-70°	490.3	14.1
70°-80°	288.3	8.3
80°-90°	80.1	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°	764.0	22.0
0°-40°	1342.3	38.7
0°-60°	2606.9	75.2
0°-90°	3465.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	436	468	527	596	618	40
15°	327	604	1017	1233	1272	91
25°	209	684	1211	1265	1266	96
35°	141	654	1141	1206	1253	88
45°	96	522	1008	1155	1207	75
55°	69	331	856	994	1021	63
65°	55	176	635	714	725	54
75°	40	108	349	383	385	42
85°	14	33	86	95	96	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°	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
2.5°	448.0	448.0	450.9	452.3	455.2	456.6	459.5	462.4	471.0	472.5	475.4
5°	436.5	442.2	461.0	468.2	488.3	515.7	527.2	545.9	584.8	596.4	603.6
7.5°	419.2	432.1	478.2	489.8	540.2	612.2	642.5	682.8	744.7	775.0	799.5
10°	391.8	419.2	501.3	528.7	610.8	720.2	776.4	832.6	926.2	968.0	983.8
12.5°	361.6	406.2	525.8	563.2	681.3	841.2	908.9	970.9	1077.5	1133.7	1142.3
15°	327.0	387.5	548.8	603.6	756.3	942.1	1017.0	1093.3	1192.7	1233.1	1243.1
17.5°	296.7	373.1	570.4	628.1	813.9	1032.8	1109.2	1172.6	1253.2	1280.6	1287.8
20°	259.3	350.0	584.8	659.7	874.4	1099.1	1172.6	1221.5	1276.3	1293.6	1296.4
22.5°	231.9	325.5	593.5	671.3	914.7	1139.4	1201.4	1240.3	1277.7	1283.5	1284.9
25°	208.9	298.2	592.0	684.2	949.3	1163.9	1211.4	1240.3	1261.9	1264.7	1264.7
27.5°	187.3	267.9	586.3	687.1	975.2	1169.7	1207.1	1227.3	1237.4	1243.1	1243.1
30°	168.5	239.1	571.9	681.3	986.7	1163.9	1194.2	1204.2	1214.3	1223.0	1227.3
32.5°	154.1	211.8	550.3	669.8	988.2	1149.5	1171.1	1176.9	1191.3	1211.4	1218.6
35°	141.2	184.4	525.8	654.0	979.5	1126.5	1140.9	1146.6	1175.4	1205.7	1215.8
37.5°	128.2	164.2	494.1	626.6	966.6	1099.1	1109.2	1119.3	1163.9	1199.9	1211.4
40°	115.2	146.9	456.6	596.4	946.4	1066.0	1074.6	1090.4	1149.5	1191.3	1202.8
42.5°	105.2	132.5	416.3	564.7	920.5	1028.5	1041.5	1064.5	1132.2	1176.9	1189.8
45°	96.5	118.1	373.1	521.5	887.3	989.6	1008.3	1040.0	1112.1	1155.3	1166.8
47.5°	87.9	108.0	328.4	476.8	851.3	950.7	975.2	1011.2	1084.7	1126.5	1136.5
50°	80.7	98.0	283.8	429.3	812.4	908.9	937.8	975.2	1050.1	1089.0	1102.0
52.5°	74.9	89.3	242.0	381.7	767.8	865.7	898.9	937.8	1008.3	1045.8	1054.4
55°	69.1	82.1	206.0	331.3	721.7	819.6	855.6	893.1	962.2	993.9	999.7
57.5°	66.3	76.3	175.7	283.8	672.7	767.8	808.1	842.7	907.5	932.0	937.8
60°	61.9	72.0	152.7	243.4	619.4	718.8	753.4	787.9	842.7	862.8	867.2
62.5°	57.6	69.1	135.4	204.5	564.7	661.2	695.8	727.4	773.5	787.9	793.7
65°	54.7	66.3	122.4	175.7	508.5	600.7	635.3	662.6	700.1	714.5	717.4
67.5°	51.9	63.4	112.4	151.3	452.3	540.2	566.1	592.0	620.8	635.3	636.7
70°	47.5	60.5	103.7	134.0	394.7	471.0	492.6	520.0	543.1	550.3	554.6
72.5°	44.7	56.2	98.0	121.0	335.6	404.8	424.9	440.8	461.0	468.2	468.2
75°	40.3	50.4	92.2	108.0	275.1	331.3	348.6	364.4	380.3	383.2	378.8
77.5°	36.0	44.7	79.2	90.8	214.6	262.2	276.6	285.2	298.2	301.1	302.5
80°	30.3	38.9	61.9	70.6	155.6	193.0	203.1	210.3	221.8	221.8	224.7
82.5°	23.0	30.3	44.7	50.4	105.2	132.5	141.2	145.5	152.7	152.7	152.7
85°	14.4	18.7	28.8	33.1	63.4	80.7	86.4	87.9	93.6	95.1	95.1
87.5°	7.2	10.1	18.7	20.2	33.1	41.8	41.8	44.7	44.7	43.2	41.8
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°	448.0	448.0
2.5°	478.2	475.4
5°	615.1	618.0
7.5°	828.3	826.8
10°	1029.9	1042.9
12.5°	1176.9	1179.8
15°	1266.2	1271.9
17.5°	1300.8	1302.2
20°	1302.2	1299.3
22.5°	1286.4	1283.5
25°	1267.6	1266.2
27.5°	1250.3	1251.8
30°	1243.1	1247.5
32.5°	1243.1	1250.3
35°	1246.0	1253.2
37.5°	1244.6	1253.2
40°	1238.8	1248.9
42.5°	1223.0	1230.2
45°	1198.5	1207.1
47.5°	1166.8	1172.6
50°	1126.5	1132.2
52.5°	1076.0	1077.5
55°	1015.5	1021.3
57.5°	950.7	952.2
60°	878.7	883.0
62.5°	802.3	802.3
65°	721.7	724.6
67.5°	638.1	645.3
70°	553.1	554.6
72.5°	469.6	469.6
75°	383.2	384.6
77.5°	301.1	301.1
80°	223.3	224.7
82.5°	154.1	157.0
85°	96.5	96.5
87.5°	44.7	40.3
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	11.28	13.00	11.64	13.31	13.62	23.60	25.32	23.97	25.64	25.95
	3H	12.22	13.77	12.59	14.10	14.46	25.52	27.08	25.89	27.40	27.76
	4H	12.69	14.16	13.09	14.51	14.88	26.21	27.68	26.61	28.03	28.40
	6H	13.18	14.55	13.59	14.91	15.30	26.70	28.06	27.11	28.43	28.82
	8H	13.38	14.69	13.80	15.08	15.47	26.85	28.16	27.27	28.54	28.94
	12H	13.52	14.77	13.95	15.16	15.58	26.95	28.21	27.38	28.59	29.02
4H	2H	18.62	20.09	19.01	20.43	20.81	24.12	25.59	24.51	25.94	26.31
	3H	20.55	21.79	20.96	22.19	22.59	26.30	27.54	26.71	27.94	28.34
	4H	20.74	21.87	21.17	22.28	22.72	27.14	28.27	27.57	28.68	29.11
	6H	20.86	21.85	21.32	22.29	22.74	27.76	28.75	28.22	29.19	29.64
	8H	20.89	21.82	21.35	22.26	22.72	27.97	28.89	28.42	29.33	29.80
	12H	20.92	21.75	21.39	22.22	22.69	28.12	28.95	28.60	29.43	29.89
8H	4H	22.40	23.32	22.86	23.76	24.23	27.38	28.30	27.84	28.74	29.21
	6H	22.85	23.62	23.34	24.10	24.58	28.13	28.90	28.62	29.39	29.86
	8H	22.93	23.62	23.44	24.13	24.61	28.41	29.10	28.91	29.60	30.09
	12H	22.97	23.59	23.48	24.08	24.63	28.63	29.25	29.14	29.74	30.29
12H	4H	22.61	23.44	23.09	23.92	24.38	27.39	28.22	27.86	28.69	29.16
	6H	23.19	23.88	23.69	24.39	24.87	28.16	28.85	28.66	29.36	29.84
	8H	23.40	24.01	23.90	24.50	25.06	28.49	29.11	28.99	29.59	30.15