

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: P1055095

Luminaire Tested: SQ4R-FB-125D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055095
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-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

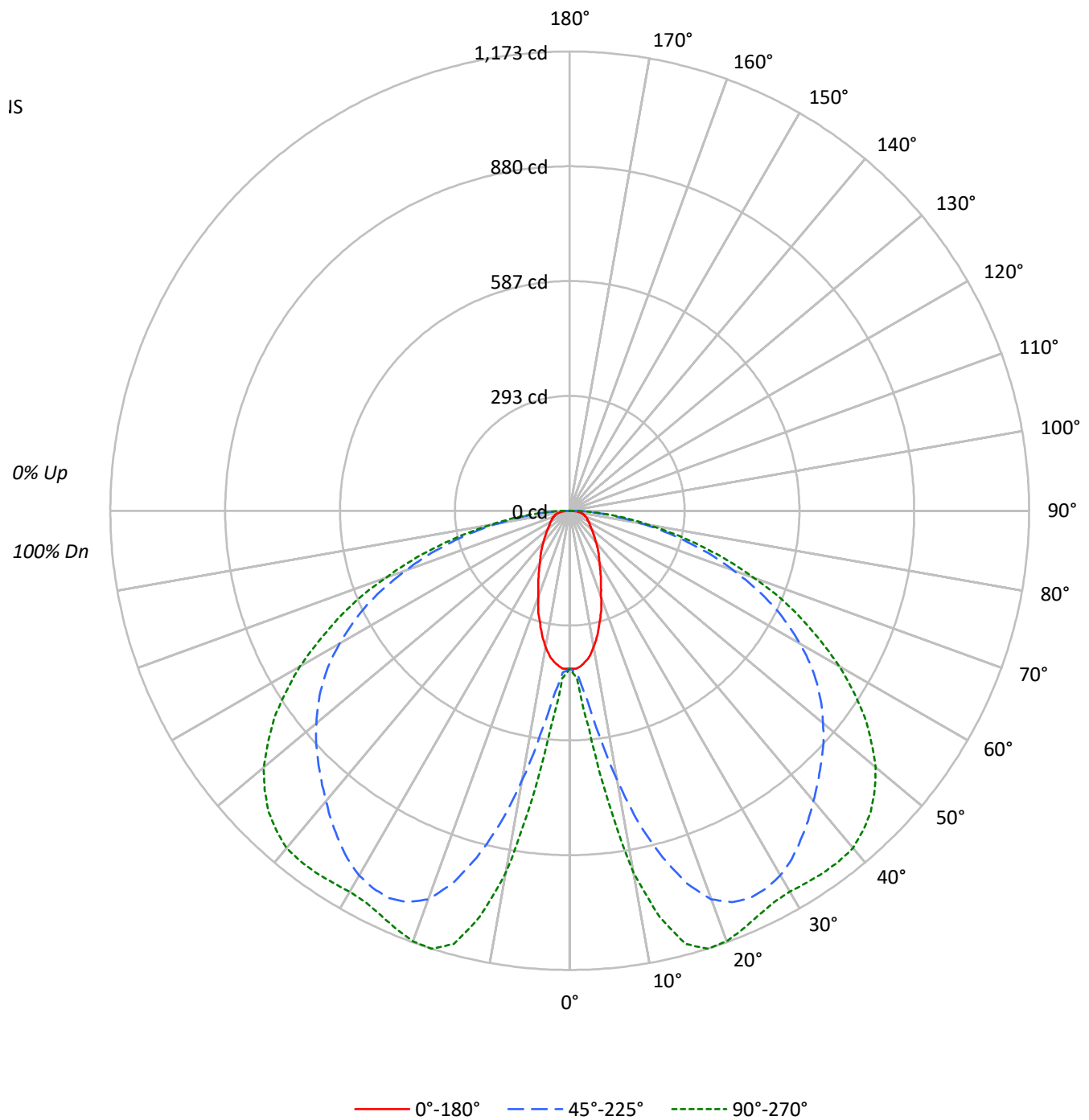
Lumens per Lamp: N/A
Luminaire Lumens: 3121.9 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3886	3886	3886
5°	3800	4589	5380
10°	3450	6837	9184
15°	2936	9131	11420
20°	2393	10821	11991
25°	1999	11592	12116
30°	1688	11958	12492
35°	1495	12078	13268
40°	1305	12165	14139
45°	1183	12367	14805
50°	1089	12651	15276
55°	1046	12938	15442
60°	1074	13066	15315
65°	1123	13035	14869
70°	1205	12492	14063
75°	1350	11680	12889
80°	1508	10146	11221
85°	1436	8605	9599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 15442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	1.7
10°-20°	231.4	7.4
20°-30°	404.7	13.0
30°-40°	520.9	16.7
40°-50°	581.9	18.6
50°-60°	557.3	17.9
60°-70°	441.7	14.1
70°-80°	259.7	8.3
80°-90°	72.1	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°	688.2	22.0
0°-40°	1209.2	38.7
0°-60°	2348.4	75.2
0°-90°	3121.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	393	422	475	537	557	36
15°	295	544	916	1111	1146	82
25°	188	616	1091	1139	1141	87
35°	127	589	1028	1086	1129	79
45°	87	470	908	1041	1087	67
55°	62	298	771	895	920	57
65°	49	158	572	644	653	49
75°	36	97	314	345	346	38
85°	13	30	78	86	87	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°	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6
2.5°	403.6	403.6	406.2	407.4	410.0	411.3	413.9	416.5	424.3	425.6	428.2
5°	393.2	398.4	415.2	421.7	439.9	464.5	474.9	491.8	526.8	537.2	543.7
7.5°	377.6	389.3	430.8	441.2	486.6	551.5	578.7	615.1	670.9	698.1	720.2
10°	352.9	377.6	451.6	476.2	550.2	648.8	699.4	750.0	834.4	872.0	886.3
12.5°	325.7	365.9	473.6	507.4	613.8	757.8	818.8	874.6	970.6	1021.2	1029.0
15°	294.6	349.1	494.4	543.7	681.2	848.6	916.1	984.9	1074.4	1110.7	1119.8
17.5°	267.3	336.1	513.9	565.8	733.1	930.4	999.2	1056.2	1128.9	1153.6	1160.1
20°	233.6	315.3	526.8	594.3	787.6	990.1	1056.2	1100.4	1149.7	1165.2	1167.8
22.5°	208.9	293.3	534.6	604.7	824.0	1026.4	1082.2	1117.2	1151.0	1156.2	1157.5
25°	188.2	268.6	533.3	616.4	855.1	1048.5	1091.3	1117.2	1136.7	1139.3	1139.3
27.5°	168.7	241.4	528.1	619.0	878.5	1053.7	1087.4	1105.6	1114.6	1119.8	1119.8
30°	151.8	215.4	515.1	613.8	888.9	1048.5	1075.7	1084.8	1093.9	1101.7	1105.6
32.5°	138.8	190.7	495.7	603.4	890.2	1035.5	1055.0	1060.1	1073.1	1091.3	1097.8
35°	127.2	166.1	473.6	589.1	882.4	1014.7	1027.7	1032.9	1058.8	1086.1	1095.2
37.5°	115.5	147.9	445.1	564.5	870.7	990.1	999.2	1008.2	1048.5	1080.9	1091.3
40°	103.8	132.4	411.3	537.2	852.5	960.2	968.0	982.3	1035.5	1073.1	1083.5
42.5°	94.7	119.4	375.0	508.7	829.2	926.5	938.2	958.9	1019.9	1060.1	1071.8
45°	86.9	106.4	336.1	469.7	799.3	891.5	908.3	936.9	1001.8	1040.7	1051.1
47.5°	79.2	97.3	295.9	429.5	766.9	856.4	878.5	910.9	977.1	1014.7	1023.8
50°	72.7	88.2	255.6	386.7	731.8	818.8	844.7	878.5	946.0	981.0	992.7
52.5°	67.5	80.5	218.0	343.9	691.6	779.9	809.7	844.7	908.3	942.1	949.8
55°	62.3	74.0	185.6	298.4	650.1	738.3	770.8	804.5	866.8	895.3	900.5
57.5°	59.7	68.8	158.3	255.6	606.0	691.6	728.0	759.1	817.5	839.6	844.7
60°	55.8	64.9	137.5	219.3	558.0	647.5	678.6	709.8	759.1	777.3	781.2
62.5°	51.9	62.3	122.0	184.3	508.7	595.6	626.7	655.3	696.8	709.8	715.0
65°	49.3	59.7	110.3	158.3	458.1	541.1	572.2	596.9	630.6	643.6	646.2
67.5°	46.7	57.1	101.2	136.2	407.4	486.6	510.0	533.3	559.3	572.2	573.5
70°	42.8	54.5	93.4	120.7	355.5	424.3	443.8	468.4	489.2	495.7	499.6
72.5°	40.2	50.6	88.2	109.0	302.3	364.6	382.8	397.1	415.2	421.7	421.7
75°	36.3	45.4	83.0	97.3	247.8	298.4	314.0	328.3	342.6	345.2	341.3
77.5°	32.4	40.2	71.4	81.7	193.3	236.2	249.1	256.9	268.6	271.2	272.5
80°	27.2	35.0	55.8	63.6	140.1	173.9	183.0	189.5	199.8	199.8	202.4
82.5°	20.8	27.2	40.2	45.4	94.7	119.4	127.2	131.1	137.5	137.5	137.5
85°	13.0	16.9	26.0	29.8	57.1	72.7	77.9	79.2	84.3	85.6	85.6
87.5°	6.5	9.1	16.9	18.2	29.8	37.6	37.6	40.2	40.2	38.9	37.6
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°	403.6	403.6
2.5°	430.8	428.2
5°	554.1	556.7
7.5°	746.1	744.8
10°	927.8	939.5
12.5°	1060.1	1062.7
15°	1140.6	1145.8
17.5°	1171.7	1173.0
20°	1173.0	1170.4
22.5°	1158.8	1156.2
25°	1141.9	1140.6
27.5°	1126.3	1127.6
30°	1119.8	1123.7
32.5°	1119.8	1126.3
35°	1122.4	1128.9
37.5°	1121.1	1128.9
40°	1115.9	1125.0
42.5°	1101.7	1108.2
45°	1079.6	1087.4
47.5°	1051.1	1056.2
50°	1014.7	1019.9
52.5°	969.3	970.6
55°	914.8	920.0
57.5°	856.4	857.7
60°	791.5	795.4
62.5°	722.8	722.8
65°	650.1	652.7
67.5°	574.8	581.3
70°	498.3	499.6
72.5°	423.0	423.0
75°	345.2	346.5
77.5°	271.2	271.2
80°	201.1	202.4
82.5°	138.8	141.4
85°	86.9	86.9
87.5°	40.2	36.3
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	10.92	12.63	11.28	12.95	13.26	23.24	24.96	23.61	25.27	25.59
	3H	11.85	13.41	12.23	13.74	14.10	25.15	26.71	25.53	27.04	27.40
	4H	12.33	13.80	12.72	14.15	14.52	25.85	27.32	26.24	27.67	28.04
	6H	12.82	14.18	13.23	14.55	14.94	26.33	27.70	26.74	28.06	28.45
	8H	13.02	14.33	13.44	14.71	15.11	26.48	27.79	26.91	28.18	28.58
	12H	13.16	14.41	13.58	14.79	15.22	26.59	27.84	27.02	28.23	28.65
4H	2H	18.25	19.72	18.65	20.07	20.44	23.75	25.23	24.15	25.57	25.95
	3H	20.19	21.43	20.60	21.83	22.22	25.94	27.18	26.34	27.57	27.97
	4H	20.38	21.51	20.81	21.92	22.35	26.78	27.90	27.21	28.31	28.75
	6H	20.50	21.49	20.95	21.93	22.38	27.40	28.39	27.85	28.83	29.28
	8H	20.53	21.45	20.99	21.89	22.36	27.60	28.53	28.06	28.97	29.43
	12H	20.55	21.39	21.03	21.86	22.33	27.75	28.59	28.23	29.06	29.53
8H	4H	22.04	22.96	22.49	23.40	23.86	27.02	27.94	27.47	28.38	28.84
	6H	22.48	23.26	22.97	23.74	24.21	27.77	28.54	28.26	29.03	29.50
	8H	22.57	23.26	23.07	23.76	24.25	28.04	28.74	28.55	29.24	29.72
	12H	22.61	23.22	23.11	23.71	24.27	28.27	28.88	28.77	29.37	29.93
12H	4H	22.25	23.08	22.72	23.55	24.02	27.02	27.86	27.50	28.33	28.80
	6H	22.82	23.52	23.33	24.02	24.51	27.79	28.49	28.30	28.99	29.48
	8H	23.03	23.65	23.54	24.14	24.69	28.13	28.74	28.63	29.23	29.79