

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: P1055133

Luminaire Tested: SQ4R-PR1-100D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-100D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

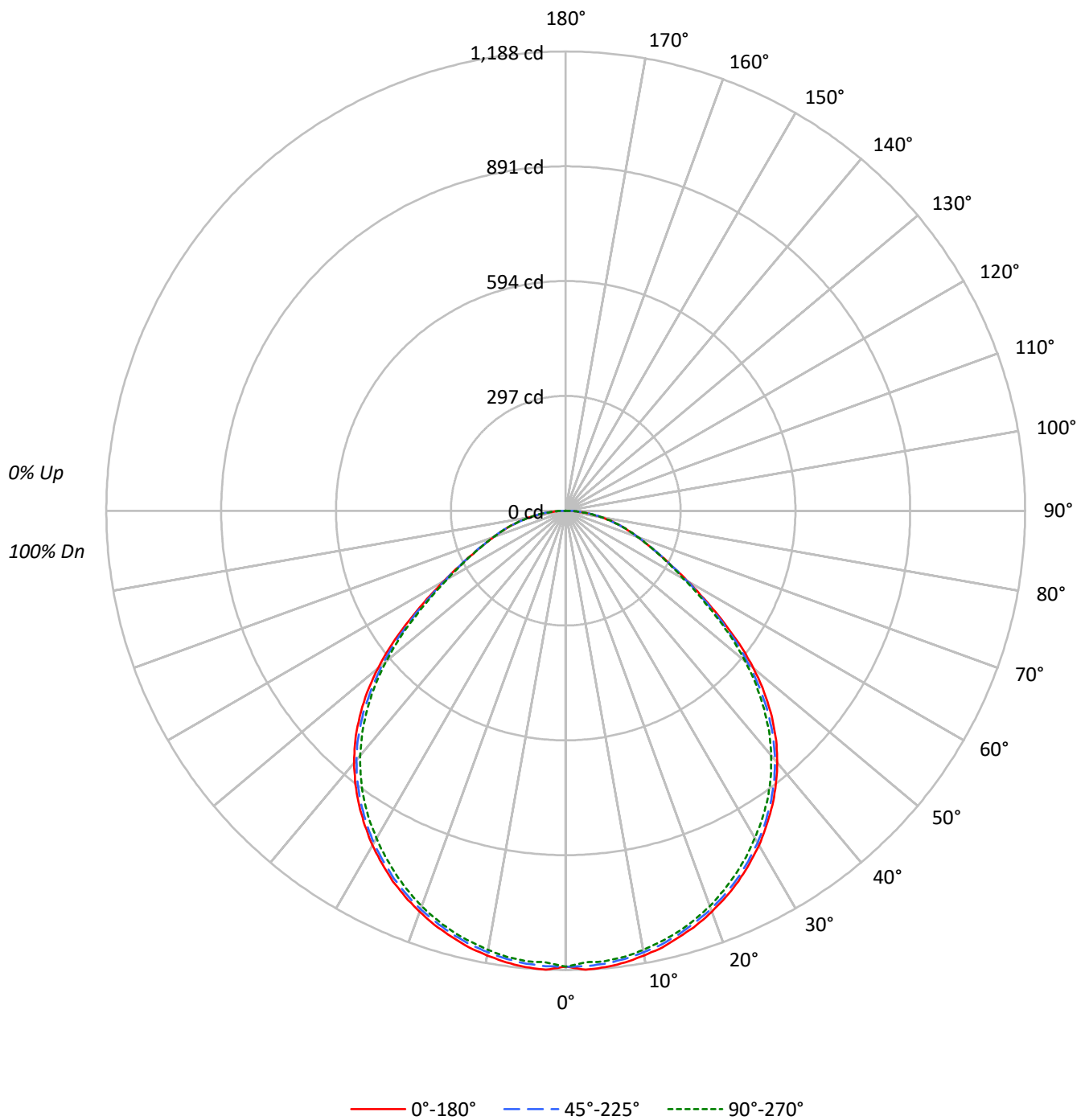
Lumens per Lamp: N/A
Luminaire Lumens: 2948.2 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	110	105	101	98	107	103	99	96	99	96	93			95	92	90		91
2	100	93	86	81	98	91	85	80	87	82	78			84	80	76		81
3	92	82	74	68	90	80	73	68	78	71	66			75	70	65		72
4	85	73	65	58	82	72	64	58	69	63	57			67	61	56		65
5	78	66	57	51	76	65	57	50	63	55	50			61	54	49		59
6	72	59	51	45	70	58	50	44	57	49	44			55	49	44		53
7	67	54	46	40	65	53	45	39	52	44	39			50	44	39		49
8	63	49	41	36	61	49	41	35	47	40	35			46	40	35		45
9	58	45	37	32	57	45	37	32	44	37	32			43	36	32		42
10	55	42	34	29	54	41	34	29	40	34	29			40	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11354	11354	11354
5°	11456	11367	11308
10°	11419	11340	11280
15°	11369	11299	11238
20°	11312	11239	11156
25°	11232	11157	11027
30°	11111	11032	10874
35°	10947	10851	10696
40°	10698	10583	10391
45°	10262	10082	9874
50°	9493	9265	9082
55°	8287	8099	7927
60°	6982	6924	6787
65°	6039	6062	6016
70°	5548	5576	5576
75°	5327	5327	5364
80°	5012	5067	5012
85°	4043	4485	4485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 10262 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.8
10°-20°	319.2	10.8
20°-30°	481.5	16.3
30°-40°	573.8	19.5
40°-50°	566.1	19.2
50°-60°	431.8	14.6
60°-70°	266.5	9.0
70°-80°	151.9	5.2
80°-90°	45.8	1.6
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°	912.3	30.9
0°-40°	1486.1	50.4
0°-60°	2484.0	84.3
0°-90°	2948.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1185	1172	1176	1172	1170	113
15°	1141	1128	1134	1130	1128	322
25°	1057	1044	1050	1039	1038	487
35°	931	920	923	911	910	582
45°	754	744	740	727	725	578
55°	494	486	482	474	472	442
65°	265	263	266	264	264	268
75°	143	143	143	144	144	151
85°	37	39	41	41	41	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.3	1179.3	1179.3	1179.3	1179.3
2.5°	1188.4	1175.2	1179.3	1176.2	1169.1
5°	1185.4	1172.2	1176.2	1172.2	1170.1
7.5°	1178.3	1165.1	1169.1	1165.1	1164.0
10°	1168.1	1155.9	1160.0	1155.9	1153.9
12.5°	1156.9	1143.7	1148.8	1143.7	1141.7
15°	1140.7	1128.5	1133.6	1129.5	1127.5
17.5°	1124.4	1111.2	1116.3	1112.2	1109.2
20°	1104.1	1091.9	1097.0	1089.9	1088.9
22.5°	1081.8	1069.6	1074.7	1064.5	1064.5
25°	1057.4	1044.2	1050.3	1039.1	1038.1
27.5°	1029.0	1016.8	1021.8	1010.7	1009.7
30°	999.5	987.3	992.4	980.2	978.2
32.5°	966.0	954.8	958.9	946.7	945.7
35°	931.4	920.3	923.3	911.1	910.1
37.5°	892.8	882.7	884.7	871.5	870.5
40°	851.2	841.0	842.1	827.8	826.8
42.5°	805.5	795.3	794.3	780.1	779.1
45°	753.7	743.5	740.5	727.3	725.2
47.5°	696.8	686.6	680.6	669.4	668.4
50°	633.8	623.7	618.6	609.4	606.4
52.5°	565.8	555.6	551.6	543.4	540.4
55°	493.7	485.5	482.5	474.4	472.3
57.5°	424.6	418.5	417.5	409.3	408.3
60°	362.6	359.6	359.6	352.5	352.5
62.5°	309.8	307.8	309.8	305.7	304.7
65°	265.1	263.1	266.1	264.1	264.1
67.5°	227.5	227.5	229.6	228.5	228.5
70°	197.1	197.1	198.1	198.1	198.1
72.5°	169.6	168.6	171.7	171.7	170.6
75°	143.2	143.2	143.2	144.2	144.2
77.5°	116.8	116.8	117.8	117.8	116.8
80°	90.4	91.4	91.4	90.4	90.4
82.5°	64.0	65.0	65.0	65.0	64.0
85°	36.6	38.6	40.6	40.6	40.6
87.5°	13.2	17.3	20.3	20.3	19.3
90°	0.0	0.0	0.0	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	18.73	20.29	19.09	20.60	20.92	18.55	20.12	18.92	20.43	20.74
	3H	20.04	21.44	20.42	21.77	22.13	19.93	21.34	20.31	21.67	22.03
	4H	20.60	21.92	21.00	22.27	22.64	20.52	21.84	20.92	22.19	22.57
	6H	21.06	22.28	21.47	22.64	23.03	20.99	22.21	21.41	22.58	22.97
	8H	21.21	22.38	21.64	22.77	23.17	21.15	22.31	21.58	22.70	23.10
	12H	21.31	22.42	21.74	22.80	23.23	21.26	22.38	21.69	22.76	23.19
4H	2H	19.17	20.48	19.57	20.83	21.21	19.02	20.34	19.42	20.69	21.07
	3H	20.73	21.82	21.14	22.22	22.62	20.65	21.75	21.06	22.15	22.55
	4H	21.43	22.42	21.87	22.84	23.27	21.39	22.37	21.82	22.79	23.23
	6H	22.04	22.90	22.50	23.34	23.80	22.00	22.86	22.46	23.30	23.76
	8H	22.25	23.05	22.71	23.50	23.96	22.21	23.02	22.67	23.46	23.93
	12H	22.39	23.11	22.87	23.59	24.06	22.37	23.09	22.85	23.57	24.04
8H	4H	21.71	22.52	22.17	22.96	23.43	21.67	22.47	22.13	22.92	23.38
	6H	22.45	23.11	22.94	23.60	24.08	22.41	23.08	22.90	23.57	24.04
	8H	22.73	23.33	23.24	23.84	24.33	22.70	23.30	23.21	23.81	24.30
	12H	22.95	23.48	23.45	23.97	24.53	22.94	23.47	23.45	23.96	24.53
12H	4H	21.74	22.46	22.22	22.94	23.41	21.70	22.42	22.18	22.90	23.37
	6H	22.50	23.10	23.01	23.61	24.10	22.46	23.07	22.98	23.58	24.06
	8H	22.84	23.38	23.35	23.87	24.43	22.81	23.35	23.32	23.84	24.40