

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: P1055114

Luminaire Tested: SQ4R-PC3-075D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-075D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

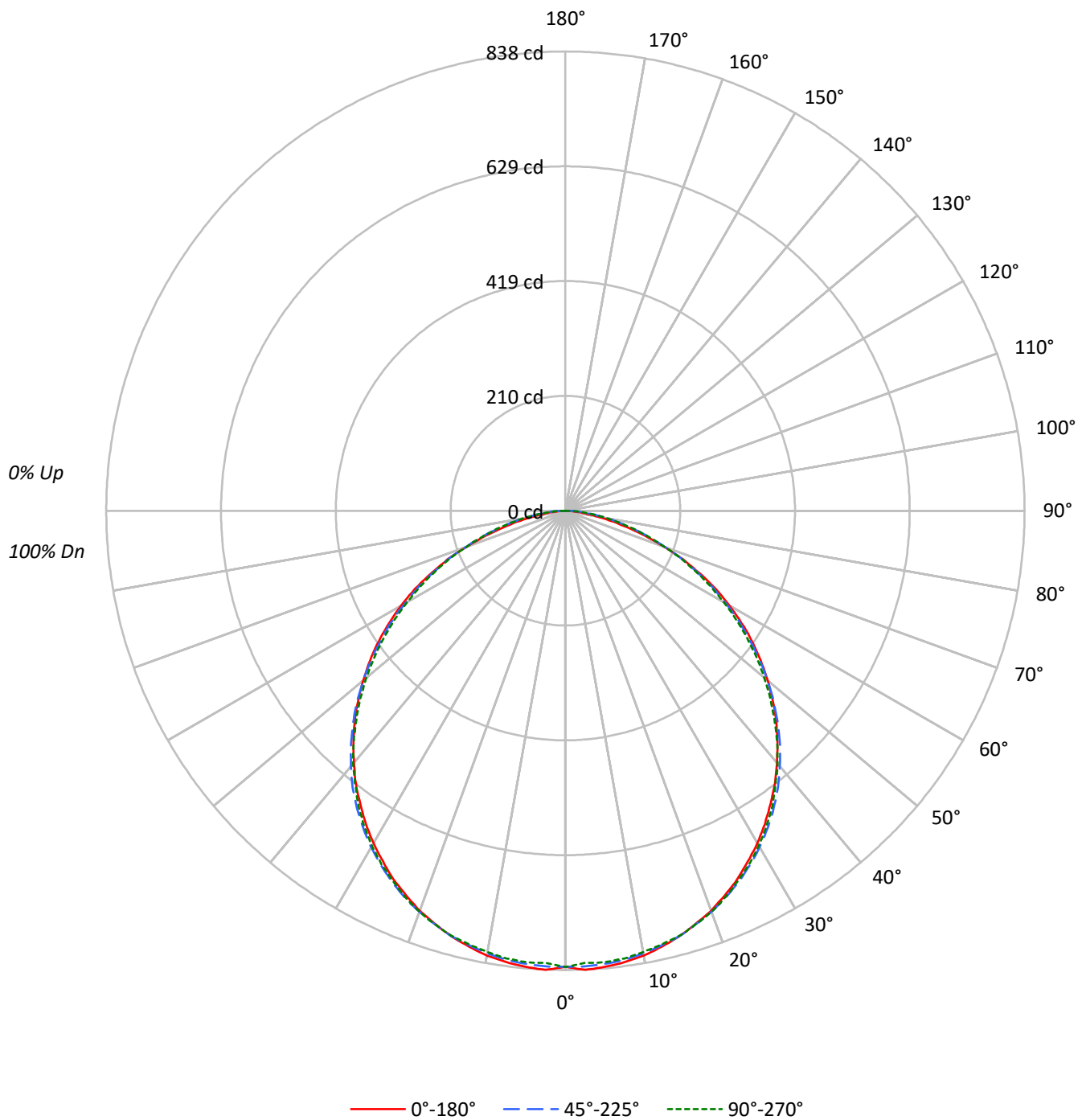
Lumens per Lamp: N/A
Luminaire Lumens: 2272.1 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8014	8014	8014
5°	8074	8022	7992
10°	8054	8016	7994
15°	8012	8012	8004
20°	7959	7983	7983
25°	7884	7941	7917
30°	7788	7883	7848
35°	7672	7790	7736
40°	7546	7652	7574
45°	7408	7461	7345
50°	7215	7215	7099
55°	6986	6895	6791
60°	6649	6514	6412
65°	6146	6023	5968
70°	5379	5424	5402
75°	4330	4787	4817
80°	3077	4058	4103
85°	1878	3402	3402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 7461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.5
10°-20°	226.2	10.0
20°-30°	342.5	15.1
30°-40°	410.7	18.1
40°-50°	418.7	18.4
50°-60°	365.5	16.1
60°-70°	261.7	11.5
70°-80°	134.4	5.9
80°-90°	33.6	1.5
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°	647.5	28.5
0°-40°	1058.2	46.6
0°-60°	1842.4	81.1
0°-90°	2272.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	836	827	830	828	827	79
15°	804	797	804	804	803	227
25°	742	737	748	745	745	342
35°	653	651	663	658	658	409
45°	544	543	548	541	540	419
55°	416	411	411	405	405	371
65°	270	264	264	262	262	267
75°	116	122	129	130	130	125
85°	17	26	31	32	31	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.4	832.4	832.4	832.4	832.4
2.5°	838.5	829.3	832.4	830.1	826.2
5°	835.5	827.0	830.1	827.8	827.0
7.5°	830.8	822.4	826.2	824.7	823.9
10°	823.9	815.4	820.0	818.5	817.7
12.5°	814.7	806.9	812.3	810.8	810.8
15°	803.9	796.9	803.9	803.9	803.1
17.5°	790.8	784.6	791.5	792.3	791.5
20°	776.9	770.0	779.2	778.4	779.2
22.5°	759.9	754.5	764.6	762.2	763.0
25°	742.2	736.8	747.6	745.3	745.3
27.5°	721.4	717.5	729.1	726.8	726.8
30°	700.6	696.7	709.1	706.0	706.0
32.5°	677.5	675.2	686.7	682.9	682.9
35°	652.8	651.3	662.8	658.2	658.2
37.5°	628.1	626.6	637.4	632.0	629.7
40°	600.4	599.6	608.9	602.7	602.7
42.5°	572.6	571.9	579.6	571.9	571.9
45°	544.1	542.6	548.0	541.0	539.5
47.5°	513.3	511.8	515.6	507.9	507.1
50°	481.7	480.2	481.7	474.8	474.0
52.5°	449.3	446.2	446.2	439.3	439.3
55°	416.2	410.8	410.8	404.6	404.6
57.5°	381.5	374.6	375.3	369.9	369.2
60°	345.3	337.6	338.3	333.7	333.0
62.5°	309.8	300.6	302.9	297.5	297.5
65°	269.8	263.6	264.4	262.0	262.0
67.5°	232.8	226.6	230.4	228.1	228.1
70°	191.1	187.3	192.7	192.7	191.9
72.5°	152.6	153.4	160.3	160.3	161.1
75°	116.4	121.8	128.7	129.5	129.5
77.5°	83.2	92.5	100.2	100.2	100.2
80°	55.5	66.3	73.2	74.8	74.0
82.5°	33.1	44.7	50.1	51.6	50.9
85°	17.0	26.2	30.8	31.6	30.8
87.5°	6.2	13.1	15.4	15.4	13.9
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	18.82	20.44	19.19	20.75	21.07	18.71	20.32	19.08	20.64	20.95
	3H	20.38	21.83	20.75	22.16	22.52	20.31	21.77	20.69	22.10	22.46
	4H	20.85	22.22	21.25	22.57	22.94	20.88	22.25	21.27	22.59	22.97
	6H	21.10	22.37	21.52	22.74	23.13	21.26	22.53	21.67	22.89	23.28
	8H	21.15	22.36	21.58	22.75	23.15	21.38	22.59	21.80	22.97	23.37
	12H	21.17	22.33	21.60	22.71	23.14	21.45	22.61	21.88	22.99	23.42
4H	2H	19.39	20.76	19.79	21.11	21.48	19.30	20.67	19.70	21.02	21.39
	3H	21.13	22.28	21.54	22.68	23.08	21.11	22.25	21.51	22.65	23.05
	4H	21.72	22.75	22.15	23.16	23.60	21.78	22.82	22.21	23.23	23.67
	6H	22.08	22.98	22.54	23.42	23.88	22.28	23.18	22.74	23.62	24.08
	8H	22.16	23.00	22.62	23.45	23.91	22.44	23.28	22.90	23.72	24.19
	12H	22.20	22.96	22.68	23.43	23.90	22.55	23.31	23.03	23.78	24.25
8H	4H	21.97	22.82	22.44	23.26	23.72	22.03	22.87	22.49	23.32	23.78
	6H	22.44	23.14	22.93	23.62	24.10	22.64	23.34	23.13	23.82	24.30
	8H	22.57	23.20	23.08	23.71	24.19	22.86	23.48	23.37	23.99	24.48
	12H	22.66	23.22	23.17	23.71	24.27	23.04	23.59	23.54	24.08	24.64
12H	4H	22.00	22.75	22.48	23.23	23.70	22.05	22.80	22.53	23.28	23.75
	6H	22.48	23.11	22.99	23.61	24.10	22.67	23.30	23.18	23.80	24.29
	8H	22.66	23.22	23.17	23.71	24.27	22.94	23.50	23.45	23.99	24.55