

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: P1055132

Luminaire Tested: SQ4R-PR1-075D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055132
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-PR1-075D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

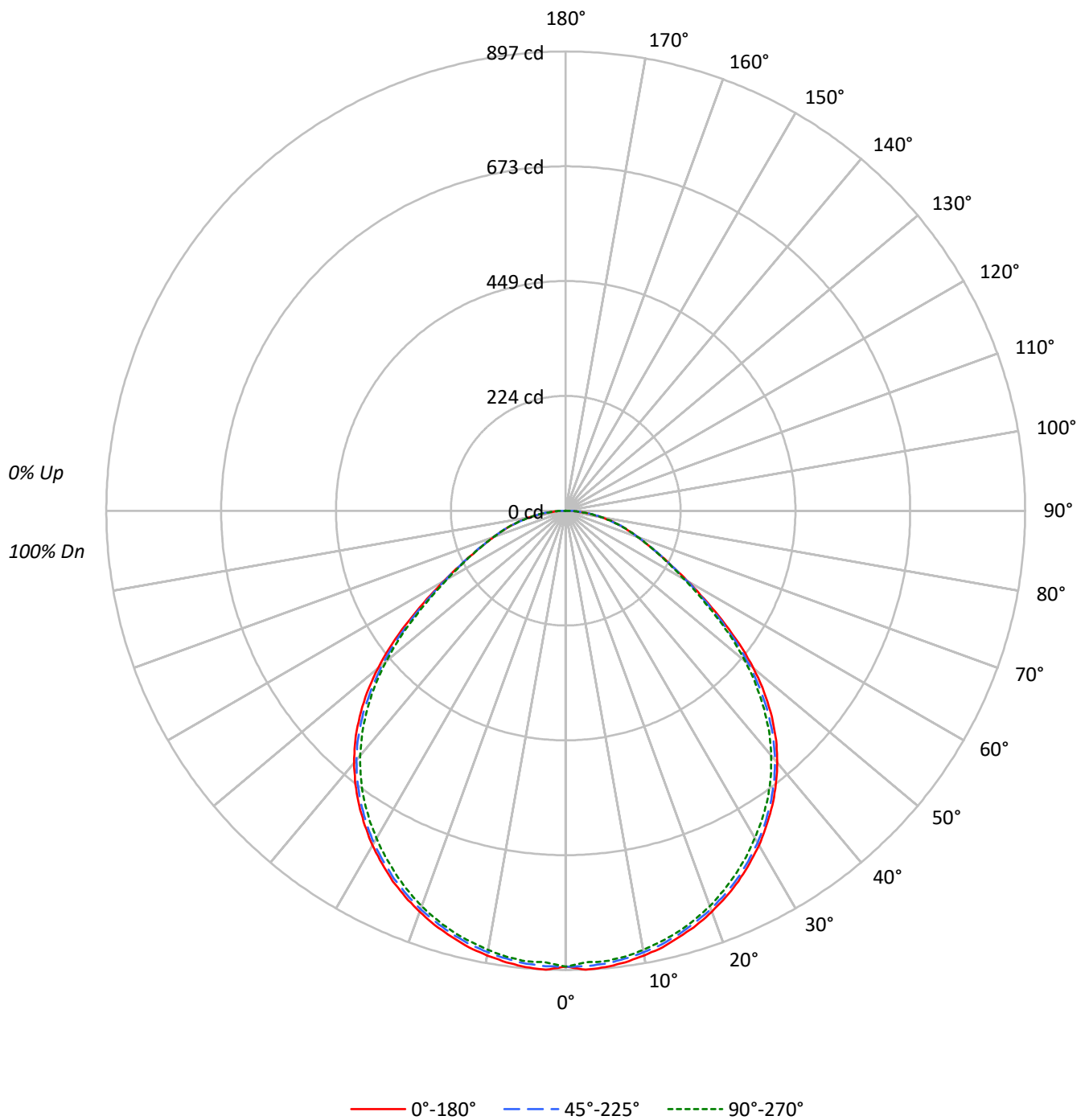
Lumens per Lamp: N/A
Luminaire Lumens: 2226.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	8572	8572	8572
5°	8649	8583	8538
10°	8622	8562	8517
15°	8585	8531	8485
20°	8541	8486	8424
25°	8481	8424	8326
30°	8390	8330	8211
35°	8266	8193	8077
40°	8077	7990	7846
45°	7748	7612	7456
50°	7168	6996	6858
55°	6256	6115	5985
60°	5272	5228	5124
65°	4561	4577	4542
70°	4188	4211	4211
75°	4021	4021	4051
80°	3787	3825	3787
85°	3049	3391	3391

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7748 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.8
10°-20°	241.0	10.8
20°-30°	363.6	16.3
30°-40°	433.3	19.5
40°-50°	427.4	19.2
50°-60°	326.0	14.6
60°-70°	201.2	9.0
70°-80°	114.7	5.2
80°-90°	34.6	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°	688.8	30.9
0°-40°	1122.1	50.4
0°-60°	1875.5	84.3
0°-90°	2226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	895	885	888	885	884	85
15°	861	852	856	853	851	243
25°	798	788	793	785	784	368
35°	703	695	697	688	687	439
45°	569	561	559	549	548	437
55°	373	367	364	358	357	334
65°	200	199	201	199	199	202
75°	108	108	108	109	109	114
85°	28	29	31	31	31	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.4	890.4	890.4	890.4	890.4
2.5°	897.3	887.3	890.4	888.1	882.7
5°	895.0	885.0	888.1	885.0	883.5
7.5°	889.6	879.7	882.7	879.7	878.9
10°	882.0	872.8	875.8	872.8	871.2
12.5°	873.5	863.6	867.4	863.6	862.0
15°	861.3	852.1	855.9	852.8	851.3
17.5°	849.0	839.0	842.9	839.8	837.5
20°	833.7	824.5	828.3	822.9	822.2
22.5°	816.8	807.6	811.4	803.8	803.8
25°	798.4	788.4	793.0	784.6	783.8
27.5°	776.9	767.7	771.5	763.1	762.3
30°	754.7	745.5	749.3	740.1	738.6
32.5°	729.4	720.9	724.0	714.8	714.0
35°	703.3	694.8	697.1	687.9	687.2
37.5°	674.1	666.5	668.0	658.0	657.3
40°	642.7	635.0	635.8	625.1	624.3
42.5°	608.2	600.5	599.7	589.0	588.2
45°	569.1	561.4	559.1	549.1	547.6
47.5°	526.1	518.4	513.8	505.4	504.6
50°	478.6	470.9	467.1	460.2	457.9
52.5°	427.2	419.5	416.4	410.3	408.0
55°	372.7	366.6	364.3	358.2	356.6
57.5°	320.6	316.0	315.2	309.1	308.3
60°	273.8	271.5	271.5	266.1	266.1
62.5°	233.9	232.4	233.9	230.8	230.1
65°	200.2	198.6	200.9	199.4	199.4
67.5°	171.8	171.8	173.3	172.6	172.6
70°	148.8	148.8	149.6	149.6	149.6
72.5°	128.1	127.3	129.6	129.6	128.8
75°	108.1	108.1	108.1	108.9	108.9
77.5°	88.2	88.2	89.0	89.0	88.2
80°	68.3	69.0	69.0	68.3	68.3
82.5°	48.3	49.1	49.1	49.1	48.3
85°	27.6	29.1	30.7	30.7	30.7
87.5°	10.0	13.0	15.3	15.3	14.6
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	17.75	19.31	18.12	19.63	19.94	17.58	19.14	17.94	19.45	19.77
	3H	19.06	20.47	19.44	20.79	21.15	18.96	20.36	19.34	20.69	21.05
	4H	19.62	20.94	20.02	21.29	21.67	19.55	20.87	19.95	21.21	21.59
	6H	20.08	21.30	20.49	21.67	22.06	20.02	21.24	20.43	21.60	22.00
	8H	20.24	21.40	20.66	21.79	22.19	20.18	21.34	20.60	21.73	22.13
	12H	20.33	21.45	20.76	21.83	22.26	20.29	21.40	20.72	21.78	22.21
4H	2H	18.19	19.51	18.59	19.86	20.23	18.05	19.36	18.45	19.71	20.09
	3H	19.75	20.85	20.16	21.25	21.65	19.68	20.77	20.09	21.17	21.57
	4H	20.46	21.45	20.89	21.86	22.30	20.41	21.40	20.84	21.81	22.25
	6H	21.06	21.92	21.52	22.37	22.82	21.03	21.89	21.48	22.33	22.79
	8H	21.27	22.08	21.74	22.52	22.99	21.24	22.04	21.70	22.49	22.95
	12H	21.41	22.13	21.89	22.61	23.08	21.40	22.12	21.88	22.59	23.07
8H	4H	20.73	21.54	21.20	21.98	22.45	20.69	21.50	21.15	21.94	22.41
	6H	21.47	22.14	21.96	22.63	23.10	21.43	22.10	21.93	22.59	23.07
	8H	21.76	22.36	22.27	22.87	23.35	21.72	22.33	22.24	22.83	23.32
	12H	21.97	22.50	22.48	23.00	23.56	21.96	22.50	22.47	22.99	23.55
12H	4H	20.76	21.48	21.24	21.96	22.43	20.72	21.44	21.20	21.92	22.39
	6H	21.52	22.13	22.04	22.63	23.12	21.49	22.09	22.00	22.60	23.09
	8H	21.87	22.40	22.38	22.89	23.46	21.84	22.37	22.35	22.87	23.43

END OF REPORT