

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: P1055120

Luminaire Tested: SQ4R-PH1-075D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PH1-075D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

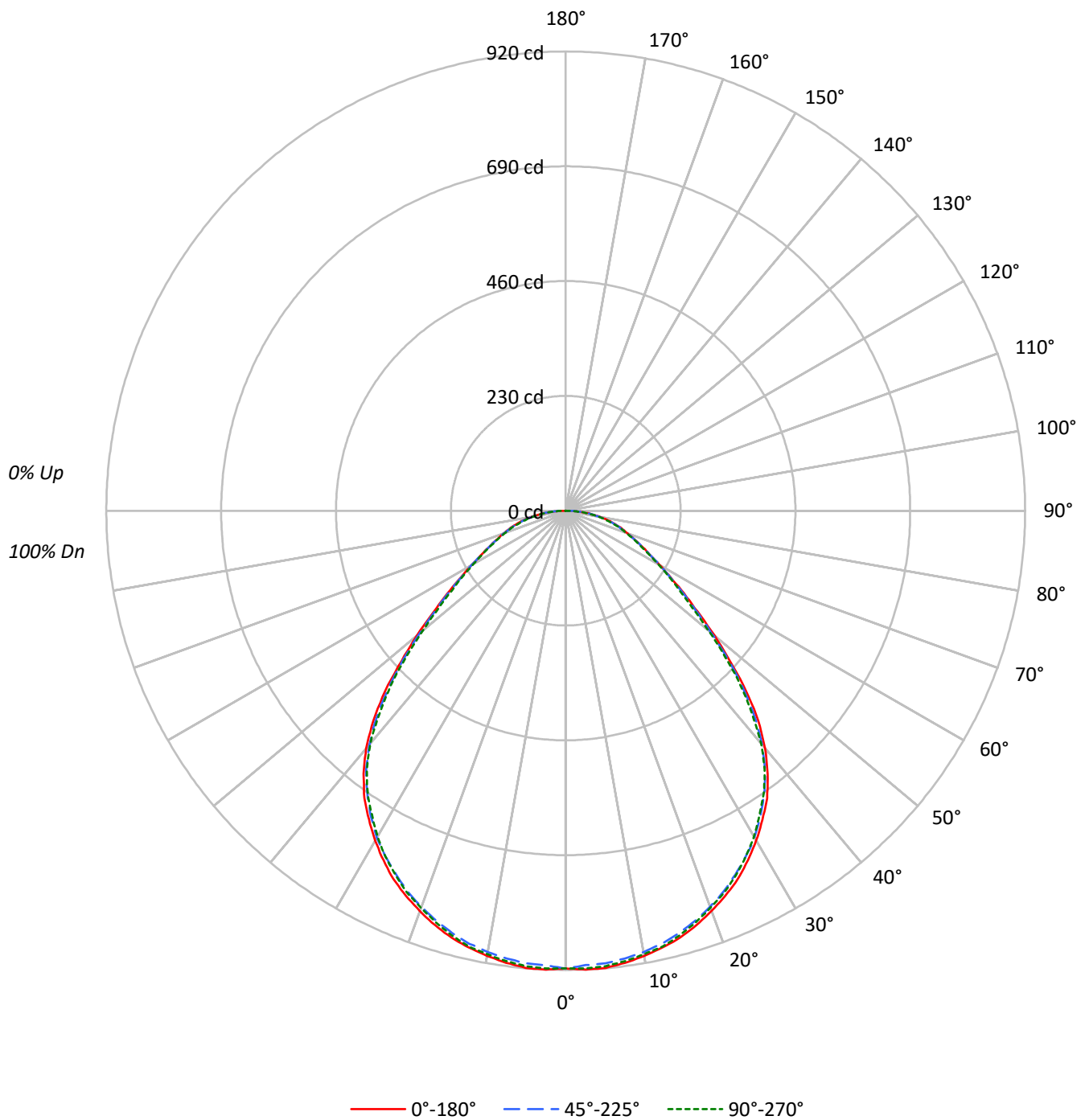
Lumens per Lamp: N/A
Luminaire Lumens: 2091.5 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		73
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		55
7	68	56	47	42	67	55	47	41	53	46	41		52	46	41		51
8	64	51	43	37	62	50	43	37	49	42	37		48	42	37		47
9	60	47	39	34	58	47	39	34	45	39	34		44	38	34		43
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8827	8827	8827
5°	8883	8795	8850
10°	8853	8776	8820
15°	8823	8733	8778
20°	8744	8652	8675
25°	8657	8537	8562
30°	8482	8406	8381
35°	8262	8142	8128
40°	7811	7683	7654
45°	6967	6828	6750
50°	5816	5696	5578
55°	4846	4789	4675
60°	4163	4184	4097
65°	3816	3791	3738
70°	3696	3665	3600
75°	3746	3664	3578
80°	3764	3704	3576
85°	3623	3623	3380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6967 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	4.2
10°-20°	248.4	11.9
20°-30°	372.2	17.8
30°-40°	433.1	20.7
40°-50°	385.2	18.4
50°-60°	258.6	12.4
60°-70°	167.2	8.0
70°-80°	104.2	5.0
80°-90°	35.7	1.7
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°	707.6	33.8
0°-40°	1140.7	54.5
0°-60°	1784.5	85.3
0°-90°	2091.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	919	917	910	917	916	87
15°	885	883	876	882	881	250
25°	815	812	804	808	806	375
35°	703	700	693	693	692	437
45°	512	509	502	495	496	391
55°	289	289	285	281	278	262
65°	168	169	166	165	164	168
75°	101	100	98	98	96	106
85°	33	34	33	32	31	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.9	916.9	916.9	916.9	916.9
2.5°	920.3	918.0	911.3	919.2	918.0
5°	919.2	916.9	910.1	916.9	915.8
7.5°	913.5	912.4	904.5	912.4	910.1
10°	905.6	905.6	897.7	904.5	902.2
12.5°	896.5	895.4	888.6	895.4	894.3
15°	885.2	883.0	876.2	881.8	880.7
17.5°	870.5	869.4	861.4	867.1	864.8
20°	853.5	851.3	844.5	849.0	846.7
22.5°	835.4	833.1	826.4	829.7	828.6
25°	815.0	811.6	803.7	808.2	806.0
27.5°	790.1	789.0	781.1	783.3	781.1
30°	763.0	761.8	756.2	756.2	753.9
32.5°	733.5	734.7	725.6	726.7	722.2
35°	703.0	699.6	692.8	692.8	691.6
37.5°	664.5	662.2	656.6	655.4	654.3
40°	621.5	619.2	611.3	609.0	609.0
42.5°	570.5	568.3	560.3	556.9	552.4
45°	511.7	509.4	501.5	494.7	495.8
47.5°	446.0	448.3	440.3	434.7	433.6
50°	388.3	387.1	380.3	377.0	372.4
52.5°	332.8	333.9	328.3	326.0	320.4
55°	288.7	288.7	285.3	280.7	278.5
57.5°	249.0	251.3	247.9	245.6	243.4
60°	216.2	217.3	217.3	212.8	212.8
62.5°	189.0	190.2	189.0	186.8	186.8
65°	167.5	168.7	166.4	165.3	164.1
67.5°	148.3	149.4	148.3	147.2	144.9
70°	131.3	131.3	130.2	130.2	127.9
72.5°	116.6	115.5	114.3	114.3	113.2
75°	100.7	99.6	98.5	98.5	96.2
77.5°	84.9	83.8	83.8	81.5	80.4
80°	67.9	67.9	66.8	65.7	64.5
82.5°	52.1	50.9	49.8	48.7	47.5
85°	32.8	34.0	32.8	31.7	30.6
87.5°	14.7	15.8	15.8	15.8	14.7
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	16.42	17.93	16.78	18.24	18.56	16.26	17.77	16.62	18.08	18.40
	3H	17.96	19.32	18.34	19.65	20.01	17.81	19.17	18.19	19.50	19.86
	4H	18.67	19.94	19.06	20.29	20.67	18.51	19.78	18.91	20.13	20.51
	6H	19.28	20.46	19.69	20.83	21.22	19.10	20.27	19.51	20.64	21.03
	8H	19.52	20.65	19.95	21.03	21.44	19.31	20.43	19.74	20.82	21.23
	12H	19.70	20.77	20.13	21.16	21.59	19.47	20.55	19.90	20.93	21.36
4H	2H	16.89	18.17	17.29	18.51	18.89	16.76	18.04	17.16	18.39	18.76
	3H	18.71	19.77	19.12	20.17	20.57	18.60	19.65	19.01	20.05	20.46
	4H	19.57	20.53	20.01	20.94	21.38	19.45	20.40	19.88	20.82	21.26
	6H	20.36	21.19	20.81	21.63	22.09	20.19	21.03	20.65	21.47	21.93
	8H	20.66	21.44	21.13	21.89	22.35	20.47	21.25	20.94	21.70	22.17
	12H	20.90	21.60	21.39	22.08	22.55	20.69	21.39	21.17	21.87	22.34
8H	4H	19.90	20.68	20.36	21.12	21.59	19.79	20.57	20.25	21.01	21.48
	6H	20.84	21.49	21.33	21.98	22.45	20.69	21.34	21.19	21.83	22.31
	8H	21.24	21.83	21.76	22.34	22.82	21.07	21.65	21.58	22.16	22.65
	12H	21.59	22.11	22.10	22.60	23.16	21.38	21.90	21.89	22.39	22.95
12H	4H	19.94	20.64	20.42	21.12	21.59	19.84	20.53	20.32	21.01	21.48
	6H	20.91	21.50	21.43	22.01	22.50	20.78	21.36	21.29	21.87	22.36
	8H	21.39	21.91	21.90	22.40	22.96	21.22	21.74	21.73	22.23	22.79

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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