

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: IRiS

Report Number: P1307369

Luminaire Tested: P3SQAS24R409027D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R409027D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

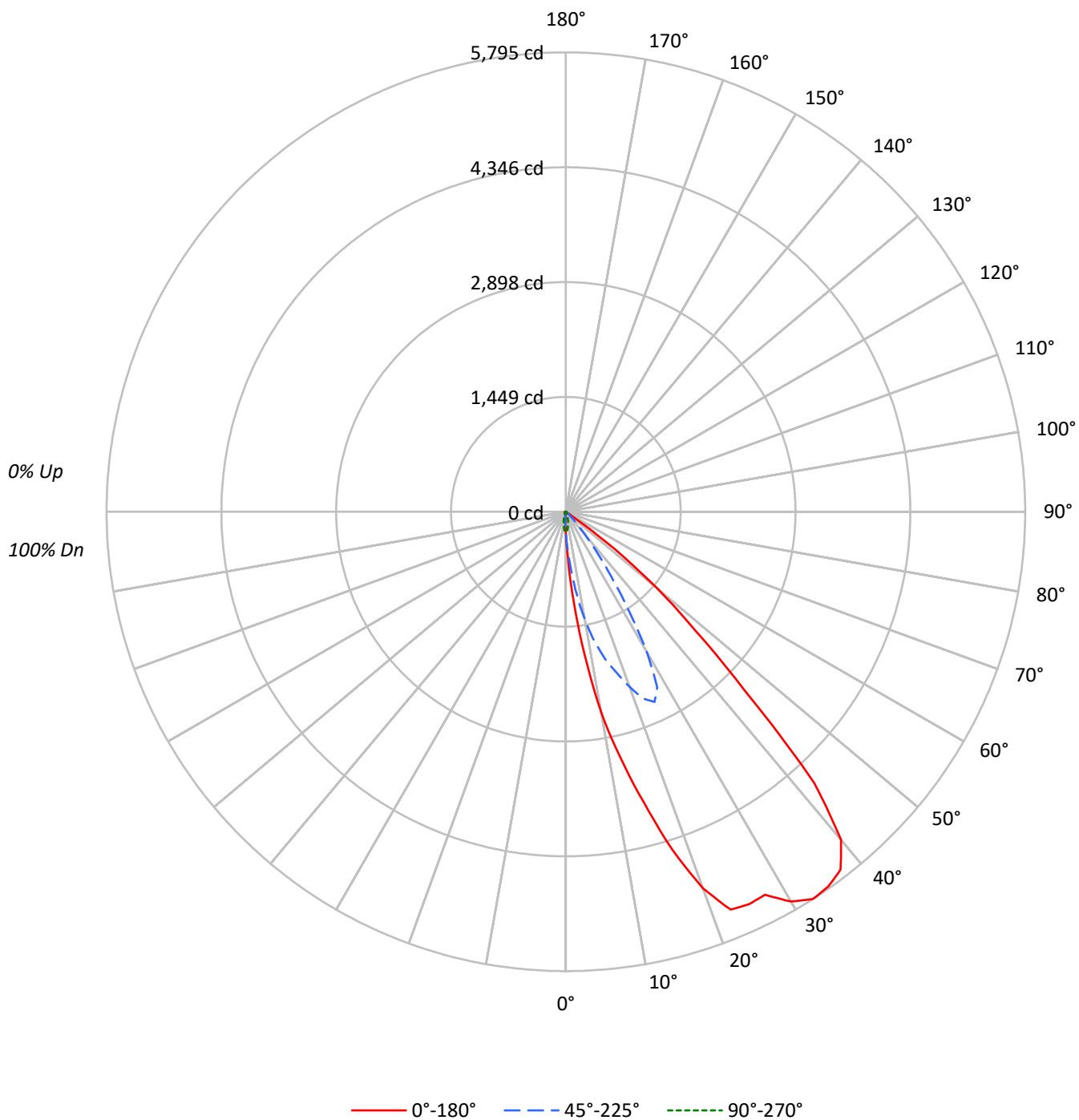
Lumens per Lamp: N/A
Luminaire Lumens: 2137.9 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
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

TEST NUMBER: P1307369

CATALOG NUMBER: P3SQAS24R409027D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307369

CATALOG NUMBER: P3SQAS24R409027D010 E3SQCA301MW

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	43572	43572	43572	43572	43572
5°	196496	125269	39054	14989	10926
10°	450629	242068	27491	5369	4110
15°	676266	343455	17081	2906	2585
20°	925981	430532	9934	1649	1979
25°	1038040	503058	5150	1368	1710
30°	1129079	406064	2148	1074	1790
35°	1213450	207806	757	1514	2271
40°	1213874	82869	405	1619	2833
45°	775031	27717	877	2630	3970
50°	402325	3376	1447	3376	4850
55°	34710	540	1621	4354	5975
60°	1240	620	1860	4994	6854
65°	1467	734	2934	5135	7376
70°	906	906	3626	5438	7301
75°	1198	1198	3593	5989	8384
80°	1785	1785	5356	5356	7141
85°	0	3557	10671	7114	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 775031 cd/sqm

TEST NUMBER: P1307369

CATALOG NUMBER: P3SQAS24R409027D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	2.3
10°-20°	289.4	13.5
20°-30°	633.8	29.6
30°-40°	722.0	33.8
40°-50°	380.9	17.8
50°-60°	44.9	2.1
60°-70°	8.1	0.4
70°-80°	6.6	0.3
80°-90°	3.0	0.1
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°	972.4	45.5
0°-40°	1694.4	79.3
0°-60°	2120.2	99.2
0°-90°	2137.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	253	253	253	253	253	
5°	1137	725	226	87	63	153
15°	3793	1926	96	16	14	1117
25°	5463	2647	27	7	9	2517
35°	5772	988	4	7	11	3577
45°	3182	114	4	11	16	2565
55°	116	2	5	14	20	359
65°	4	2	7	13	18	3
75°	2	2	5	9	13	2
85°	0	2	5	4	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1307369

CATALOG NUMBER: P3SQAS24R409027D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0
2.5°	563.8	563.8	562.0	545.7	543.9	542.1	513.2	506.0	471.6	448.1	341.5
5°	1136.6	1111.3	1109.5	1080.6	1031.8	966.7	925.2	858.3	793.3	724.6	421.0
7.5°	1810.6	1832.3	1772.7	1741.9	1633.5	1555.8	1436.6	1331.8	1185.4	1048.1	486.1
10°	2576.8	2538.8	2479.2	2419.6	2302.1	2163.0	1985.9	1799.8	1588.4	1384.2	522.2
12.5°	3174.9	3126.1	3090.0	3008.7	2893.0	2714.1	2502.7	2253.3	1973.2	1678.7	520.4
15°	3792.9	3744.1	3662.8	3590.5	3418.8	3218.3	2988.8	2659.9	2316.6	1926.3	482.5
17.5°	4472.3	4409.1	4318.7	4208.5	4042.3	3820.0	3529.1	3127.9	2641.8	2128.6	413.8
20°	5052.4	5014.4	4924.1	4794.0	4631.3	4414.5	4078.4	3633.9	3041.2	2349.1	328.9
22.5°	5431.8	5397.5	5336.1	5222.2	5099.4	4868.1	4560.9	4073.0	3375.5	2549.7	249.4
25°	5462.6	5448.1	5431.8	5393.9	5319.8	5155.4	4855.4	4329.6	3583.3	2647.3	184.3
27.5°	5446.3	5440.9	5437.3	5417.4	5368.6	5206.0	4898.8	4367.5	3556.2	2495.5	135.5
30°	5677.6	5661.3	5652.3	5587.2	5458.9	5207.8	4806.6	4163.3	3160.4	2041.9	97.6
32.5°	5795.0	5791.4	5782.4	5719.2	5538.5	5211.4	4651.2	3670.0	2506.3	1474.5	66.9
35°	5771.6	5753.5	5721.0	5603.5	5352.3	4942.1	4148.9	2931.0	1808.8	988.4	43.4
37.5°	5692.0	5650.5	5587.2	5375.8	5041.5	4481.4	3364.6	2157.6	1230.6	639.7	25.3
40°	5399.3	5343.3	5243.9	4985.5	4546.4	3693.5	2488.2	1458.2	807.7	368.6	7.2
42.5°	4642.2	4569.9	4497.6	4208.5	3706.2	2753.9	1637.1	901.7	460.8	202.4	1.8
45°	3182.1	3091.8	2992.4	2782.8	2379.8	1667.9	974.0	507.8	238.5	113.8	1.8
47.5°	2210.0	2168.4	1994.9	1727.5	1324.5	883.6	504.2	249.4	126.5	52.4	1.8
50°	1501.6	1454.6	1252.3	993.8	704.7	422.8	231.3	124.7	56.0	12.6	1.8
52.5°	787.9	730.0	601.7	459.0	285.5	177.1	101.2	54.2	16.3	1.8	1.8
55°	115.6	106.6	86.7	70.5	63.2	48.8	28.9	12.6	1.8	1.8	3.6
57.5°	3.6	3.6	3.6	3.6	5.4	5.4	3.6	1.8	1.8	1.8	3.6
60°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6
62.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6
65°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6
67.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6	5.4
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.4
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.4
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	5.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1307369

CATALOG NUMBER: P3SQAS24R409027D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	253.0	253.0	253.0	253.0	253.0
2.5°	249.4	184.3	142.8	122.9	121.1
5°	225.9	131.9	86.7	66.9	63.2
7.5°	191.5	92.2	50.6	36.1	34.3
10°	157.2	63.2	30.7	25.3	23.5
12.5°	124.7	41.6	21.7	19.9	18.1
15°	95.8	27.1	16.3	14.5	14.5
17.5°	72.3	18.1	12.6	12.6	12.6
20°	54.2	12.6	9.0	10.8	10.8
22.5°	37.9	9.0	7.2	9.0	9.0
25°	27.1	7.2	7.2	9.0	9.0
27.5°	18.1	5.4	5.4	7.2	9.0
30°	10.8	3.6	5.4	7.2	9.0
32.5°	5.4	3.6	5.4	9.0	9.0
35°	3.6	5.4	7.2	9.0	10.8
37.5°	1.8	5.4	7.2	10.8	10.8
40°	1.8	5.4	7.2	10.8	12.6
42.5°	3.6	7.2	9.0	12.6	14.5
45°	3.6	7.2	10.8	14.5	16.3
47.5°	3.6	7.2	12.6	16.3	16.3
50°	5.4	9.0	12.6	16.3	18.1
52.5°	5.4	9.0	12.6	18.1	19.9
55°	5.4	9.0	14.5	18.1	19.9
57.5°	5.4	10.8	14.5	18.1	19.9
60°	5.4	9.0	14.5	18.1	19.9
62.5°	7.2	9.0	12.6	18.1	18.1
65°	7.2	9.0	12.6	18.1	18.1
67.5°	7.2	9.0	12.6	16.3	16.3
70°	7.2	9.0	10.8	14.5	14.5
72.5°	7.2	9.0	10.8	12.6	14.5
75°	5.4	7.2	9.0	10.8	12.6
77.5°	5.4	7.2	7.2	10.8	10.8
80°	5.4	5.4	5.4	7.2	7.2
82.5°	5.4	5.4	3.6	5.4	5.4
85°	5.4	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)