

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: P1307399

Luminaire Tested: P3SQAS24R559027D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R559027D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

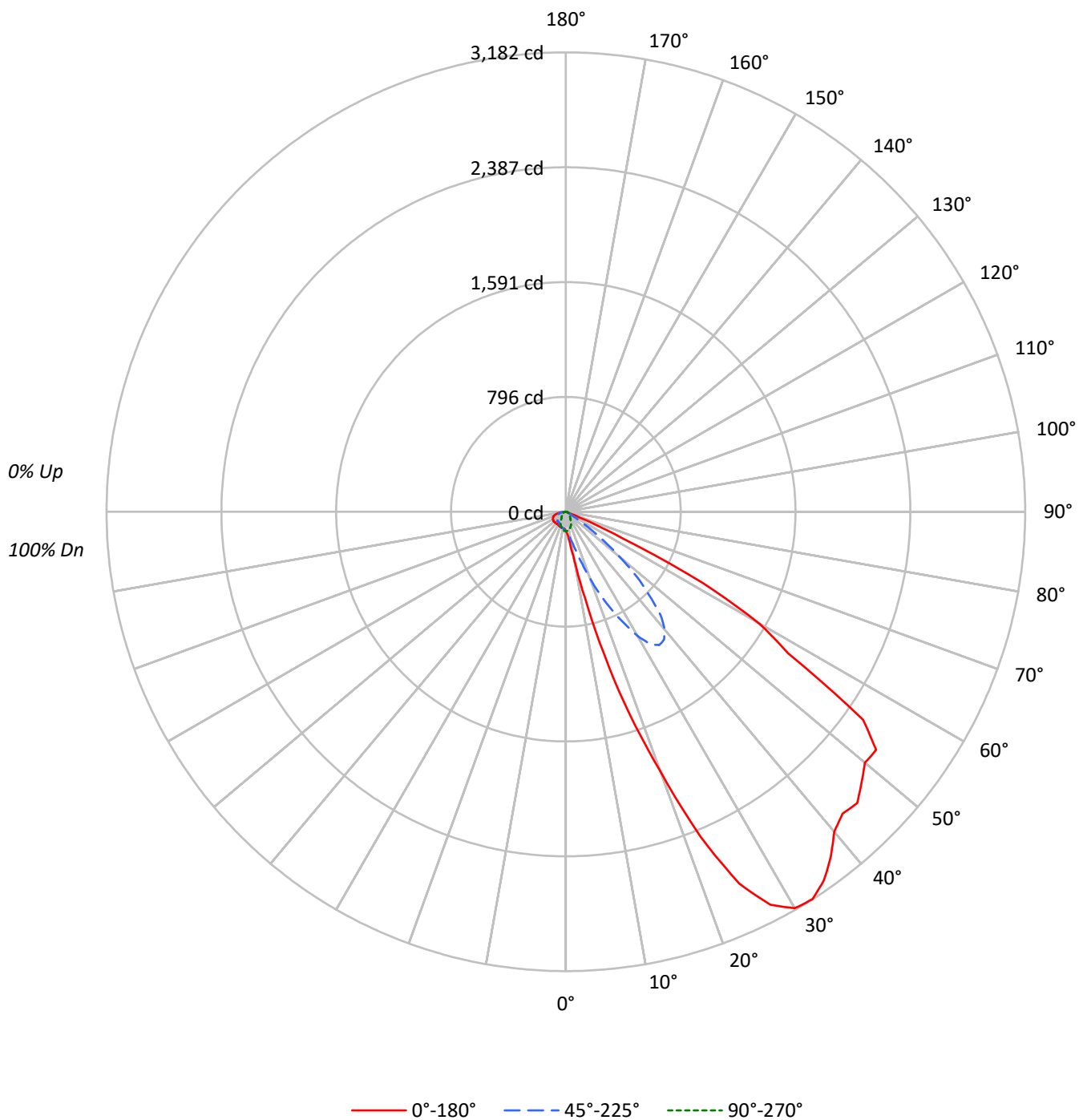
Lumens per Lamp: N/A
Luminaire Lumens: 2046.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307399

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307399

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22733	22733	22733	22733	22733
5°	29061	26572	22820	21247	20625
10°	59127	33822	22122	20234	20234
15°	181472	51885	20629	19666	20308
20°	350863	90776	18547	19226	20215
25°	540018	141190	16152	18547	20276
30°	630563	197374	13304	18335	20861
35°	655250	237156	11017	18249	21655
40°	650271	239389	10162	19110	23584
45°	695241	198136	9694	20703	25549
50°	724592	130777	9699	22292	28588
55°	754496	56990	9758	24411	31497
60°	532995	13089	9954	26763	35478
65°	173845	4401	9577	28730	39773
70°	5438	4532	10021	30968	45520
75°	4791	4791	8451	32472	50505
80°	3570	5356	8926	32233	53755
85°	3557	7114	10671	32209	53550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 766620 cd/sqm

TEST NUMBER: P1307399

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.7
10°-20°	86.9	4.2
20°-30°	291.2	14.2
30°-40°	478.2	23.4
40°-50°	533.4	26.1
50°-60°	449.0	21.9
60°-70°	152.3	7.4
70°-80°	29.8	1.5
80°-90°	11.2	0.5
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°	392.1	19.2
0°-40°	870.3	42.5
0°-60°	1852.7	90.6
0°-90°	2046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	132	132	132	132	132	
5°	168	154	132	123	119	21
15°	1018	291	116	110	114	323
25°	2842	743	85	98	107	1277
35°	3117	1128	52	87	103	1935
45°	2854	814	40	85	105	2180
55°	2513	190	32	81	105	2046
65°	427	11	24	70	98	578
75°	7	7	13	49	76	8
85°	2	4	5	16	27	2
90°	0	0	0	0	0	

TEST NUMBER: P1307399

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0
2.5°	144.6	144.6	144.6	144.6	144.6	144.6	142.8	137.4	133.8	128.4	126.5
5°	168.1	168.1	168.1	166.3	166.3	162.7	153.7	141.0	132.0	124.7	122.9
7.5°	216.9	215.1	211.5	209.7	204.3	202.5	169.9	144.6	130.2	121.1	119.3
10°	338.1	334.4	329.0	309.1	291.0	278.4	193.4	146.4	126.5	117.5	115.7
12.5°	609.2	602.0	574.9	533.3	482.7	457.4	231.4	148.2	121.1	113.9	113.9
15°	1017.8	1008.7	958.1	900.3	808.1	757.5	291.0	146.4	115.7	108.5	110.3
17.5°	1469.7	1444.4	1392.0	1316.1	1191.3	1131.7	379.6	142.8	108.5	104.9	108.5
20°	1914.4	1907.2	1820.4	1717.4	1563.7	1484.2	495.3	137.4	101.2	99.4	104.9
22.5°	2435.1	2404.3	2312.1	2201.9	1990.3	1885.5	620.1	130.2	94.0	94.0	101.2
25°	2841.8	2805.6	2733.3	2605.0	2404.3	2292.2	743.0	121.1	85.0	88.6	97.6
27.5°	3069.6	3028.0	2973.8	2863.5	2708.0	2608.6	865.9	110.3	75.9	83.2	94.0
30°	3170.8	3160.0	3120.2	3038.9	2896.0	2807.5	992.5	97.6	66.9	77.7	92.2
32.5°	3181.7	3187.1	3170.8	3118.4	3009.9	2934.0	1086.5	86.8	59.7	74.1	88.6
35°	3116.6	3136.5	3147.3	3125.6	3055.1	2993.7	1128.0	74.1	52.4	70.5	86.8
37.5°	3015.3	3051.5	3087.7	3093.1	3049.7	3009.9	1117.2	63.3	48.8	68.7	86.8
40°	2892.4	2925.0	2999.1	3046.1	3031.6	3002.7	1064.8	52.4	45.2	65.1	85.0
42.5°	2836.4	2843.6	2923.2	3002.7	2999.1	2975.6	972.6	41.6	41.6	65.1	85.0
45°	2854.5	2821.9	2874.3	2966.5	2961.1	2930.4	813.5	32.5	39.8	63.3	85.0
47.5°	2778.5	2733.3	2821.9	2930.4	2910.5	2865.3	672.5	23.5	38.0	61.5	83.2
50°	2704.4	2697.2	2765.9	2820.1	2793.0	2767.7	488.1	18.1	36.2	59.7	83.2
52.5°	2709.8	2697.2	2704.4	2702.6	2648.4	2621.3	334.4	14.5	34.3	57.8	83.2
55°	2512.8	2473.0	2435.1	2445.9	2449.5	2431.4	189.8	12.7	32.5	57.8	81.3
57.5°	1825.8	1815.0	1856.6	1974.1	2066.3	2077.1	92.2	12.7	30.7	56.0	79.5
60°	1547.4	1540.2	1542.0	1576.4	1625.2	1594.4	38.0	12.7	28.9	54.2	77.7
62.5°	1066.6	1137.1	1166.0	1245.5	1213.0	1169.6	14.5	14.5	27.1	50.6	75.9
65°	426.6	424.8	464.6	502.6	491.7	459.2	10.8	12.7	23.5	47.0	70.5
67.5°	99.4	90.4	77.7	66.9	56.0	45.2	10.8	12.7	21.7	43.4	66.9
70°	10.8	10.8	10.8	10.8	10.8	9.0	9.0	12.7	19.9	39.8	61.5
72.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.8	16.3	34.3	56.0
75°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	9.0	12.7	28.9	48.8
77.5°	5.4	5.4	5.4	7.2	5.4	7.2	7.2	9.0	10.8	23.5	41.6
80°	3.6	3.6	5.4	5.4	5.4	5.4	5.4	7.2	9.0	19.9	32.5
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	7.2	14.5	23.5
85°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	5.4	5.4	10.8	16.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	5.4	5.4	7.2
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: P1307399

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	132.0	132.0
2.5°	124.7	124.7
5°	121.1	119.3
7.5°	117.5	117.5
10°	115.7	115.7
12.5°	113.9	115.7
15°	113.9	113.9
17.5°	110.3	112.1
20°	108.5	110.3
22.5°	106.7	108.5
25°	104.9	106.7
27.5°	103.0	104.9
30°	101.2	104.9
32.5°	99.4	103.0
35°	99.4	103.0
37.5°	99.4	104.9
40°	99.4	104.9
42.5°	99.4	104.9
45°	99.4	104.9
47.5°	99.4	104.9
50°	99.4	106.7
52.5°	99.4	106.7
55°	99.4	104.9
57.5°	97.6	104.9
60°	97.6	103.0
62.5°	95.8	101.2
65°	92.2	97.6
67.5°	88.6	95.8
70°	83.2	90.4
72.5°	77.7	83.2
75°	70.5	75.9
77.5°	61.5	65.1
80°	48.8	54.2
82.5°	38.0	41.6
85°	25.3	27.1
87.5°	10.8	12.7
90°	0.0	0.0

(END OF REPORT)