

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: P1310735

Luminaire Tested: P3SQAS24R459040D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R459040D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

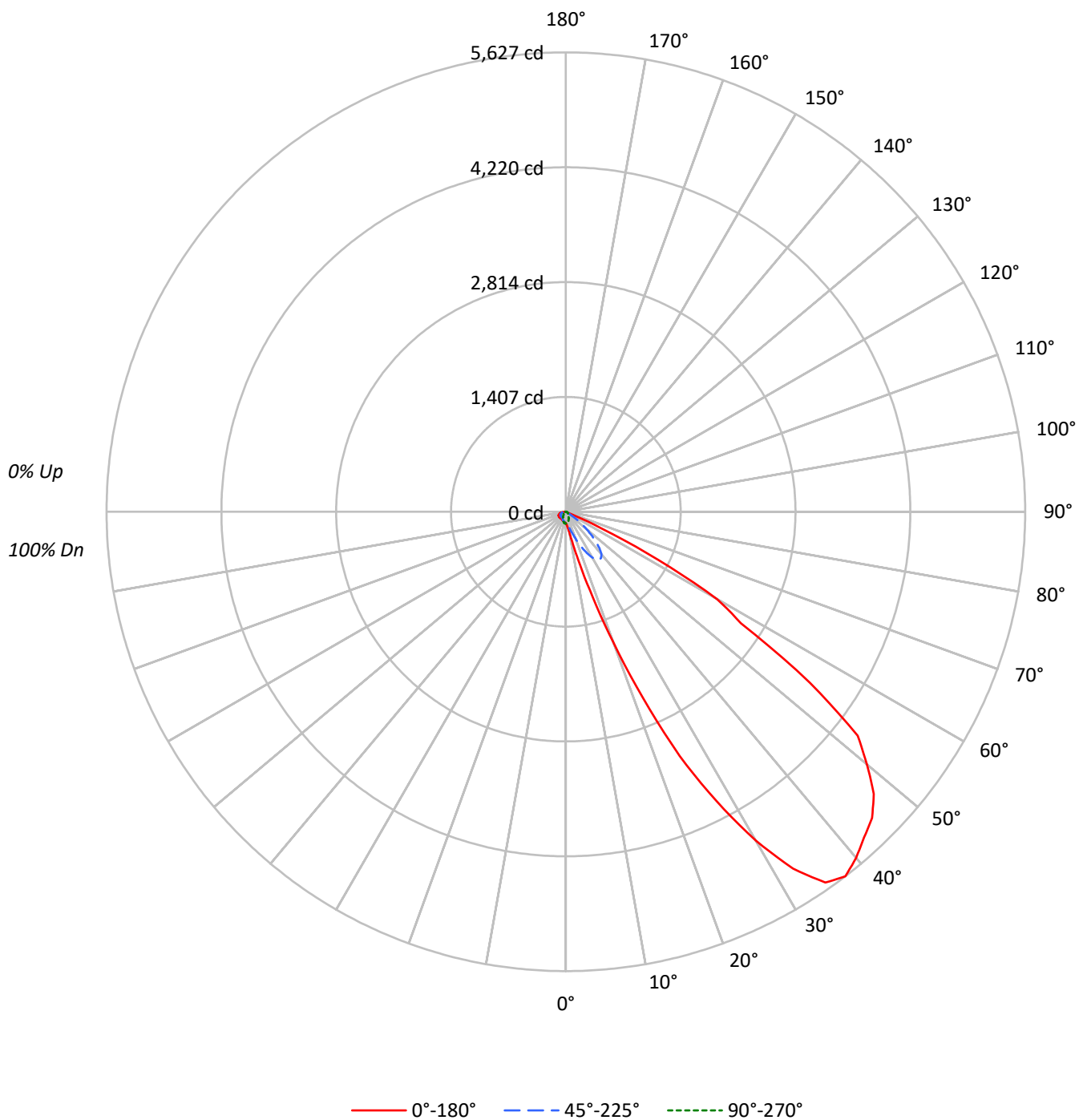
Lumens per Lamp: N/A
Luminaire Lumens: 2514.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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			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	96	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	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25041	25041	25041	25041	25041
5°	29805	27644	24774	22976	22976
10°	47585	32335	23241	21790	21790
15°	118515	43326	21110	20362	21110
20°	312191	64715	18273	19409	20564
25°	626841	95925	15791	18167	20124
30°	924089	128467	12807	17759	20662
35°	1165640	150683	10912	17471	21403
40°	1243641	152249	9802	18210	22887
45°	1292157	126992	9109	19728	24794
50°	1290114	88498	8895	21140	27838
55°	1096493	39304	9368	23691	30567
60°	736975	7853	9300	26488	35065
65°	195525	3382	9291	28770	39773
70°	5237	4179	9416	31371	44967
75°	4126	4126	9649	33204	51171
80°	4166	6149	10315	35010	57722
85°	4150	8299	16401	36952	57503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 1325440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	0.6
10°-20°	70.9	2.8
20°-30°	292.5	11.6
30°-40°	616.3	24.5
40°-50°	760.4	30.2
50°-60°	570.0	22.7
60°-70°	146.7	5.8
70°-80°	30.4	1.2
80°-90°	12.3	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°	377.8	15.0
0°-40°	994.2	39.5
0°-60°	2324.6	92.5
0°-90°	2514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2514.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	172	160	143	133	133	19
15°	665	243	118	114	118	243
25°	3299	505	83	96	106	1537
35°	5544	717	52	83	102	3379
45°	5305	521	37	81	102	4060
55°	3652	131	31	79	102	3153
65°	480	8	23	71	98	692
75°	6	6	14	50	77	7
85°	2	4	8	19	29	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4
2.5°	153.7	153.7	153.7	153.7	153.7	153.7	153.7	151.6	149.6	145.4	141.3
5°	172.4	170.3	170.3	170.3	168.3	166.2	166.2	159.9	151.6	143.3	137.1
7.5°	203.6	203.6	201.5	197.3	195.3	191.1	187.0	170.3	151.6	139.2	130.9
10°	272.1	268.0	261.7	257.6	247.2	232.7	222.3	184.9	149.6	132.9	126.7
12.5°	407.1	415.5	394.7	373.9	344.8	317.8	284.6	209.8	149.6	126.7	120.5
15°	664.7	679.3	639.8	598.3	527.6	461.2	398.8	243.0	145.4	118.4	112.2
17.5°	1086.4	1105.1	1038.6	941.0	830.9	698.0	583.7	288.7	141.3	110.1	105.9
20°	1703.4	1701.3	1572.5	1449.9	1238.0	1042.8	828.8	353.1	135.0	99.7	99.7
22.5°	2461.5	2469.9	2312.0	2091.8	1790.6	1476.9	1136.3	427.9	126.7	91.4	93.5
25°	3298.7	3228.1	3041.1	2773.1	2388.8	1954.7	1506.0	504.8	118.4	83.1	87.2
27.5°	3996.6	3928.1	3714.1	3396.3	2982.9	2467.8	1882.0	581.6	108.0	74.8	81.0
30°	4646.8	4559.6	4302.0	3942.6	3450.3	2893.6	2235.1	646.0	95.6	64.4	74.8
32.5°	5182.8	5103.8	4810.9	4393.4	3857.5	3259.2	2534.3	695.9	83.1	58.2	70.6
35°	5544.2	5463.2	5193.1	4734.1	4150.4	3525.1	2777.3	716.7	72.7	51.9	68.5
37.5°	5627.3	5583.7	5390.5	4960.5	4351.9	3695.4	2933.1	710.4	60.2	47.8	64.4
40°	5531.7	5542.1	5450.7	5093.4	4459.9	3768.1	2997.5	677.2	49.9	43.6	62.3
42.5°	5409.2	5436.2	5430.0	5147.4	4505.6	3772.3	2970.5	610.7	39.5	39.5	60.2
45°	5305.3	5332.3	5369.7	5124.6	4474.4	3718.3	2885.3	521.4	29.1	37.4	60.2
47.5°	5116.3	5145.4	5199.4	4941.8	4316.5	3579.1	2731.6	423.8	20.8	35.3	58.2
50°	4815.1	4829.6	4815.1	4526.3	4013.3	3354.8	2482.3	330.3	14.5	33.2	58.2
52.5°	4505.6	4476.5	4356.0	3990.4	3531.3	2999.6	2168.7	234.7	10.4	31.2	56.1
55°	3651.8	3606.1	3516.8	3292.5	3030.7	2563.3	1753.2	130.9	10.4	31.2	54.0
57.5°	2544.6	2569.6	2600.7	2555.0	2434.5	2019.1	1331.5	58.2	10.4	29.1	54.0
60°	2139.6	2118.8	2120.9	2091.8	1892.4	1472.8	916.1	22.8	10.4	27.0	51.9
62.5°	1277.5	1292.1	1319.1	1325.3	1128.0	822.6	479.8	10.4	10.4	24.9	49.9
65°	479.8	502.7	440.4	382.2	303.3	222.3	112.2	8.3	12.5	22.8	45.7
67.5°	14.5	16.6	20.8	18.7	18.7	16.6	12.5	8.3	12.5	20.8	43.6
70°	10.4	10.4	10.4	10.4	10.4	8.3	8.3	8.3	10.4	18.7	39.5
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.4	16.6	35.3
75°	6.2	8.3	6.2	6.2	6.2	6.2	6.2	6.2	10.4	14.5	29.1
77.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3	12.5	24.9
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2	8.3	10.4	20.8
82.5°	4.2	4.2	4.2	2.1	4.2	4.2	4.2	4.2	8.3	8.3	16.6
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	6.2	8.3	10.4
87.5°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	4.2	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	145.4	145.4	145.4
2.5°	137.1	137.1	137.1
5°	132.9	132.9	132.9
7.5°	128.8	128.8	128.8
10°	124.6	124.6	124.6
12.5°	120.5	120.5	122.6
15°	114.2	118.4	118.4
17.5°	110.1	114.2	116.3
20°	105.9	110.1	112.2
22.5°	99.7	105.9	110.1
25°	95.6	103.9	105.9
27.5°	91.4	101.8	105.9
30°	89.3	99.7	103.9
32.5°	85.2	97.6	101.8
35°	83.1	97.6	101.8
37.5°	83.1	95.6	101.8
40°	81.0	95.6	101.8
42.5°	81.0	95.6	101.8
45°	81.0	95.6	101.8
47.5°	78.9	95.6	103.9
50°	78.9	97.6	103.9
52.5°	78.9	97.6	103.9
55°	78.9	97.6	101.8
57.5°	76.9	95.6	101.8
60°	76.9	95.6	101.8
62.5°	72.7	93.5	99.7
65°	70.6	91.4	97.6
67.5°	66.5	89.3	93.5
70°	62.3	83.1	89.3
72.5°	56.1	78.9	85.2
75°	49.9	72.7	76.9
77.5°	43.6	64.4	68.5
80°	35.3	54.0	58.2
82.5°	27.0	41.5	43.6
85°	18.7	27.0	29.1
87.5°	8.3	12.5	14.5
90°	0.0	0.0	0.0

(END OF REPORT)