

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: P1316429

Luminaire Tested: P3SQAS17R459827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316429
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: P3SQAS17R459827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

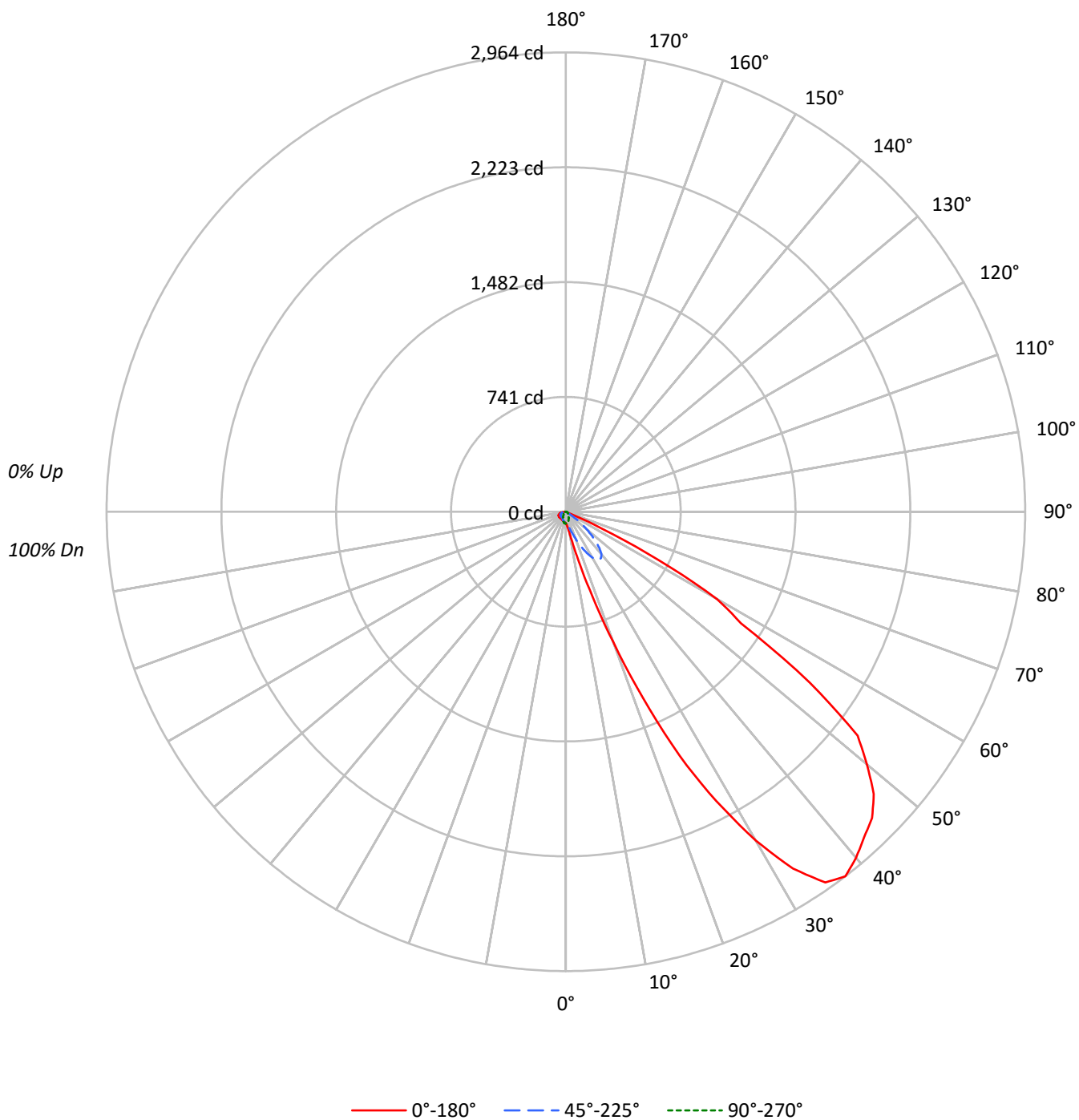
Lumens per Lamp: N/A
Luminaire Lumens: 1324.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13192	13192	13192	13192	13192
5°	15698	14557	13052	12102	12102
10°	25060	17033	12242	11472	11472
15°	62422	22822	11126	10734	11126
20°	164416	34089	9622	10227	10832
25°	330133	50509	8323	9558	10603
30°	486684	67654	6742	9347	10878
35°	613894	79346	5740	9209	11269
40°	654970	80171	5171	9600	12050
45°	680506	66881	4798	10400	13055
50°	679446	46593	4689	11146	14656
55°	577462	20688	4924	12491	16094
60°	388121	4133	4891	13950	18462
65°	102979	1793	4890	15160	20946
70°	2769	2216	4935	16516	23667
75°	2196	2196	5124	17500	26949
80°	2182	3273	5455	18447	30349
85°	2174	4347	8695	19365	30233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 698052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.6
10°-20°	37.4	2.8
20°-30°	154.0	11.6
30°-40°	324.6	24.5
40°-50°	400.5	30.2
50°-60°	300.2	22.7
60°-70°	77.2	5.8
70°-80°	16.0	1.2
80°-90°	6.5	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°	199.0	15.0
0°-40°	523.6	39.5
0°-60°	1224.2	92.5
0°-90°	1324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	77	77	77	77	77	
5°	91	84	76	70	70	10
15°	350	128	62	60	62	128
25°	1737	266	44	50	56	809
35°	2920	377	27	44	54	1779
45°	2794	275	20	43	54	2138
55°	1923	69	16	42	54	1661
65°	253	4	12	37	51	364
75°	3	3	8	26	40	4
85°	1	2	4	10	15	1
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°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2.5°	81.0	81.0	81.0	81.0	81.0	81.0	81.0	79.9	78.8	76.6	74.4
5°	90.8	89.7	89.7	89.7	88.6	87.5	87.5	84.2	79.9	75.5	72.2
7.5°	107.2	107.2	106.1	103.9	102.8	100.6	98.5	89.7	79.9	73.3	68.9
10°	143.3	141.1	137.8	135.7	130.2	122.5	117.1	97.4	78.8	70.0	66.7
12.5°	214.4	218.8	207.9	196.9	181.6	167.4	149.9	110.5	78.8	66.7	63.5
15°	350.1	357.7	336.9	315.1	277.9	242.9	210.0	128.0	76.6	62.4	59.1
17.5°	572.2	582.0	547.0	495.6	437.6	367.6	307.4	152.1	74.4	58.0	55.8
20°	897.1	896.0	828.1	763.6	652.0	549.2	436.5	186.0	71.1	52.5	52.5
22.5°	1296.4	1300.8	1217.6	1101.6	943.0	777.8	598.4	225.4	66.7	48.1	49.2
25°	1737.3	1700.1	1601.6	1460.5	1258.1	1029.4	793.1	265.8	62.4	43.8	45.9
27.5°	2104.8	2068.7	1956.1	1788.7	1571.0	1299.7	991.2	306.3	56.9	39.4	42.7
30°	2447.3	2401.3	2265.7	2076.4	1817.1	1523.9	1177.1	340.2	50.3	33.9	39.4
32.5°	2729.5	2687.9	2533.7	2313.8	2031.5	1716.5	1334.7	366.5	43.8	30.6	37.2
35°	2919.9	2877.2	2735.0	2493.2	2185.8	1856.5	1462.7	377.4	38.3	27.3	36.1
37.5°	2963.6	2940.6	2838.9	2612.4	2291.9	1946.2	1544.7	374.1	31.7	25.2	33.9
40°	2913.3	2918.8	2870.6	2682.5	2348.8	1984.5	1578.6	356.6	26.3	23.0	32.8
42.5°	2848.7	2863.0	2859.7	2710.9	2372.9	1986.7	1564.4	321.6	20.8	20.8	31.7
45°	2794.0	2808.3	2828.0	2698.9	2356.5	1958.2	1519.6	274.6	15.3	19.7	31.7
47.5°	2694.5	2709.8	2738.3	2602.6	2273.3	1884.9	1438.6	223.2	10.9	18.6	30.6
50°	2535.9	2543.5	2535.9	2383.8	2113.6	1766.8	1307.3	173.9	7.7	17.5	30.6
52.5°	2372.9	2357.5	2294.1	2101.6	1859.8	1579.7	1142.1	123.6	5.5	16.4	29.5
55°	1923.2	1899.2	1852.1	1734.0	1596.1	1350.0	923.3	68.9	5.5	16.4	28.4
57.5°	1340.1	1353.3	1369.7	1345.6	1282.2	1063.4	701.2	30.6	5.5	15.3	28.4
60°	1126.8	1115.9	1117.0	1101.6	996.6	775.6	482.4	12.0	5.5	14.2	27.3
62.5°	672.8	680.5	694.7	698.0	594.0	433.2	252.7	5.5	5.5	13.1	26.3
65°	252.7	264.7	231.9	201.3	159.7	117.1	59.1	4.4	6.6	12.0	24.1
67.5°	7.7	8.8	10.9	9.8	9.8	8.8	6.6	4.4	6.6	10.9	23.0
70°	5.5	5.5	5.5	5.5	5.5	4.4	4.4	4.4	5.5	9.8	20.8
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.5	8.8	18.6
75°	3.3	4.4	3.3	3.3	3.3	3.3	3.3	3.3	5.5	7.7	15.3
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	6.6	13.1
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	4.4	5.5	10.9
82.5°	2.2	2.2	2.2	1.1	2.2	2.2	2.2	2.2	4.4	4.4	8.8
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.3	4.4	5.5
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.2	3.3	3.3	3.3
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°	76.6	76.6	76.6
2.5°	72.2	72.2	72.2
5°	70.0	70.0	70.0
7.5°	67.8	67.8	67.8
10°	65.6	65.6	65.6
12.5°	63.5	63.5	64.5
15°	60.2	62.4	62.4
17.5°	58.0	60.2	61.3
20°	55.8	58.0	59.1
22.5°	52.5	55.8	58.0
25°	50.3	54.7	55.8
27.5°	48.1	53.6	55.8
30°	47.0	52.5	54.7
32.5°	44.9	51.4	53.6
35°	43.8	51.4	53.6
37.5°	43.8	50.3	53.6
40°	42.7	50.3	53.6
42.5°	42.7	50.3	53.6
45°	42.7	50.3	53.6
47.5°	41.6	50.3	54.7
50°	41.6	51.4	54.7
52.5°	41.6	51.4	54.7
55°	41.6	51.4	53.6
57.5°	40.5	50.3	53.6
60°	40.5	50.3	53.6
62.5°	38.3	49.2	52.5
65°	37.2	48.1	51.4
67.5°	35.0	47.0	49.2
70°	32.8	43.8	47.0
72.5°	29.5	41.6	44.9
75°	26.3	38.3	40.5
77.5°	23.0	33.9	36.1
80°	18.6	28.4	30.6
82.5°	14.2	21.9	23.0
85°	9.8	14.2	15.3
87.5°	4.4	6.6	7.7
90°	0.0	0.0	0.0

(END OF REPORT)