

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: P1316438

Luminaire Tested: P3SQAS17R509827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

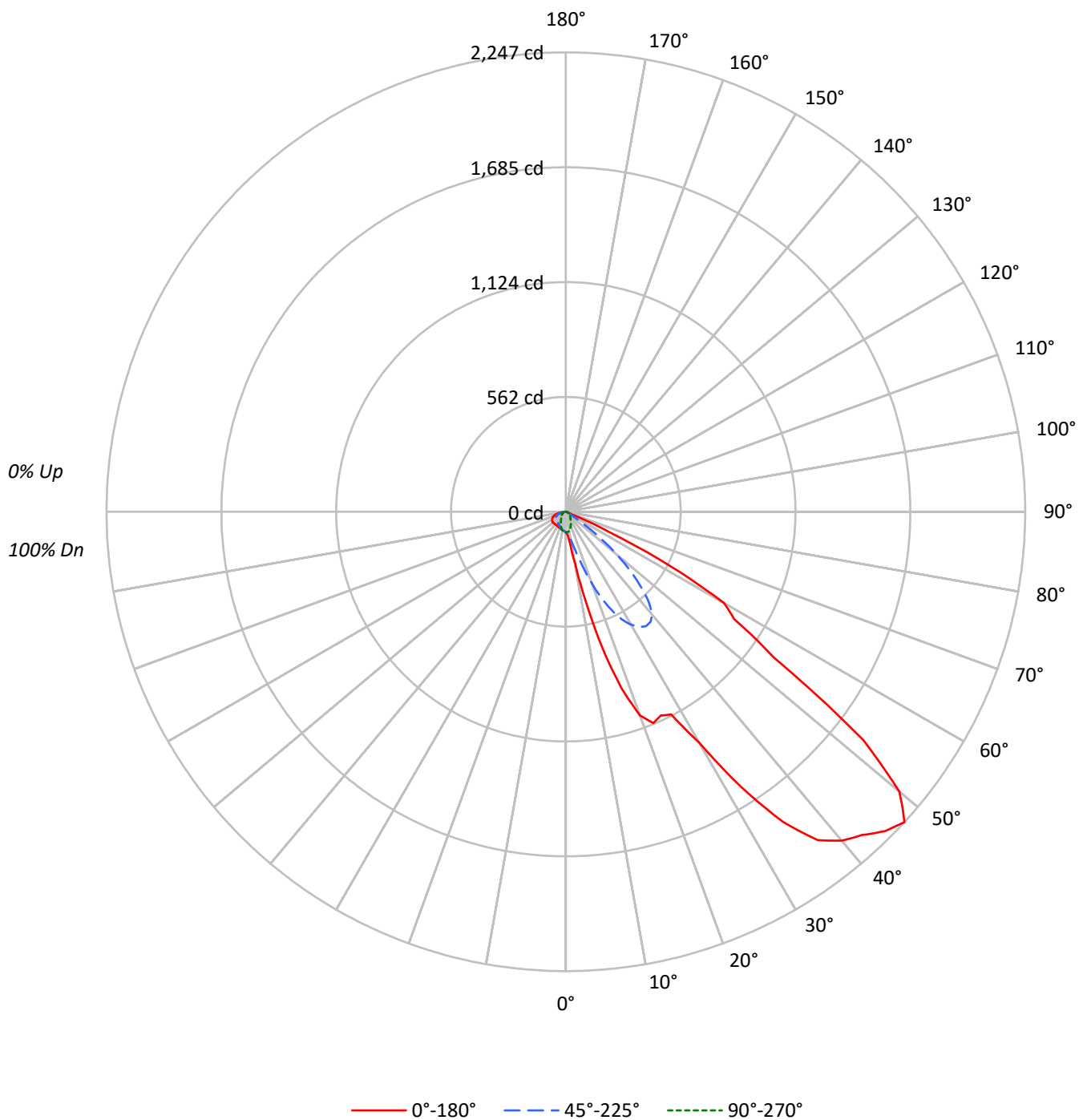
Lumens per Lamp: N/A
Luminaire Lumens: 1267.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17343	17343	17343	17343	17343
5°	20625	19293	17219	16458	16268
10°	44402	23924	16456	15879	16071
15°	122919	39226	14834	15227	15797
20°	194345	68802	12829	14644	15450
25°	208991	101075	11022	14138	15601
30°	259420	126876	9585	13921	16108
35°	389311	143576	8284	14044	17030
40°	472146	147617	7374	14523	17963
45°	537877	126602	7185	15466	19728
50°	570880	87372	7341	16719	21997
55°	372954	35161	7236	18076	24321
60°	307590	6028	7164	19599	26763
65°	92750	3138	6683	20946	29422
70°	3877	3323	6596	21501	31975
75°	3660	3660	6521	21826	34934
80°	3273	3273	6546	21720	35804
85°	2174	4347	8695	21539	34581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 572733 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.8
10°-20°	60.0	4.7
20°-30°	154.2	12.2
30°-40°	277.0	21.9
40°-50°	370.0	29.2
50°-60°	281.8	22.2
60°-70°	85.5	6.8
70°-80°	20.5	1.6
80°-90°	7.4	0.6
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°	224.7	17.7
0°-40°	501.7	39.6
0°-60°	1153.6	91.1
0°-90°	1267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	101	101	101	101	101	
5°	119	112	100	95	94	15
15°	689	220	83	85	89	203
25°	1100	532	58	74	82	525
35°	1852	683	39	67	81	1137
45°	2208	520	30	64	81	1688
55°	1242	117	24	60	81	1236
65°	228	8	16	51	72	315
75°	6	6	10	33	52	6
85°	1	2	4	11	18	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7
2.5°	107.2	107.2	107.2	107.2	107.2	107.2	106.2	106.2	106.2	104.0	101.8
5°	119.3	120.4	119.3	119.3	117.1	117.1	114.9	114.9	111.6	105.1	99.6
7.5°	156.5	155.4	154.3	149.9	146.6	139.0	135.7	130.2	120.4	105.1	97.4
10°	253.9	247.3	242.9	233.1	212.3	199.2	181.7	164.2	136.8	105.1	94.1
12.5°	441.0	439.9	426.8	394.0	364.4	323.9	281.2	238.6	168.5	102.9	89.7
15°	689.4	679.6	661.0	622.7	570.2	506.7	430.1	354.6	220.0	99.6	83.2
17.5°	901.8	889.7	875.5	837.2	777.0	697.1	605.2	501.2	290.0	95.2	76.6
20°	1060.4	1052.8	1040.7	1010.1	953.2	881.0	778.1	652.2	375.4	89.7	70.0
22.5°	1118.4	1117.3	1119.5	1108.6	1080.1	1023.2	924.7	793.4	459.6	83.2	63.5
25°	1099.8	1098.7	1113.0	1127.2	1133.8	1110.8	1035.3	907.2	531.9	77.7	58.0
27.5°	1117.3	1114.1	1107.5	1109.7	1128.3	1141.4	1106.4	994.8	594.2	70.0	52.5
30°	1304.5	1285.9	1256.3	1206.0	1168.8	1165.5	1150.2	1063.7	638.0	62.4	48.2
32.5°	1596.7	1573.7	1520.1	1427.0	1338.4	1270.5	1222.4	1121.7	668.7	54.7	42.7
35°	1851.7	1835.2	1772.9	1680.9	1554.0	1427.0	1339.5	1207.1	682.9	48.2	39.4
37.5°	2024.6	2018.0	1956.7	1858.2	1729.1	1579.2	1463.2	1294.6	679.6	40.5	36.1
40°	2100.1	2080.4	2028.9	1945.8	1815.5	1680.9	1558.4	1350.4	656.6	32.8	32.8
42.5°	2144.9	2123.1	2067.2	1988.4	1860.4	1717.0	1569.3	1326.4	601.9	26.3	31.7
45°	2208.4	2185.4	2112.1	2027.8	1898.7	1732.4	1526.6	1241.0	519.8	19.7	29.5
47.5°	2246.7	2231.4	2176.7	2092.4	1935.9	1710.5	1428.1	1161.1	429.0	15.3	28.5
50°	2130.7	2115.4	2074.9	2016.9	1911.8	1637.2	1341.7	1032.0	326.1	12.0	27.4
52.5°	1834.1	1847.3	1854.9	1871.4	1794.7	1473.0	1212.5	929.1	220.0	9.8	25.2
55°	1242.1	1261.8	1283.7	1349.3	1439.1	1311.0	1076.8	803.3	117.1	9.8	24.1
57.5°	976.2	969.6	963.0	958.7	1028.7	1081.2	946.6	642.4	50.3	9.8	21.9
60°	893.0	873.3	860.2	863.4	898.5	877.7	749.6	419.1	17.5	9.8	20.8
62.5°	585.5	600.8	630.3	680.7	656.6	563.6	435.6	166.3	8.8	9.8	18.6
65°	227.6	220.0	227.6	241.9	209.0	155.4	97.4	29.5	7.7	8.8	16.4
67.5°	30.6	27.4	20.8	13.1	12.0	10.9	8.8	7.7	7.7	8.8	15.3
70°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.6	6.6	7.7	13.1
72.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.7	10.9
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.6	9.8
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.5	7.7
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	6.6
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.4	5.5
85°	1.1	2.2	1.1	2.2	2.2	2.2	2.2	2.2	2.2	3.3	4.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	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):

	112.5°	135°	157.5°	180°
0°	100.7	100.7	100.7	100.7
2.5°	99.6	97.4	97.4	97.4
5°	97.4	95.2	95.2	94.1
7.5°	94.1	93.0	93.0	93.0
10°	91.9	90.8	91.9	91.9
12.5°	87.5	88.6	89.7	89.7
15°	83.2	85.4	87.5	88.6
17.5°	78.8	83.2	85.4	86.5
20°	74.4	79.9	83.2	84.3
22.5°	71.1	76.6	81.0	83.2
25°	66.8	74.4	79.9	82.1
27.5°	62.4	71.1	77.7	81.0
30°	59.1	70.0	77.7	81.0
32.5°	55.8	67.9	76.6	79.9
35°	53.6	66.8	76.6	81.0
37.5°	51.4	65.7	76.6	79.9
40°	50.3	64.6	76.6	79.9
42.5°	49.2	64.6	76.6	81.0
45°	47.1	63.5	76.6	81.0
47.5°	46.0	63.5	76.6	81.0
50°	44.9	62.4	76.6	82.1
52.5°	43.8	61.3	76.6	82.1
55°	41.6	60.2	75.5	81.0
57.5°	40.5	59.1	74.4	78.8
60°	38.3	56.9	72.2	77.7
62.5°	36.1	54.7	70.0	74.4
65°	32.8	51.4	66.8	72.2
67.5°	29.5	47.1	63.5	68.9
70°	26.3	42.7	59.1	63.5
72.5°	23.0	38.3	54.7	58.0
75°	19.7	32.8	48.2	52.5
77.5°	16.4	28.5	40.5	43.8
80°	12.0	21.9	32.8	36.1
82.5°	9.8	16.4	24.1	26.3
85°	6.6	10.9	15.3	17.5
87.5°	3.3	5.5	7.7	8.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)