

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: P1306143

Luminaire Tested: P3SQAS17R609024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R609024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

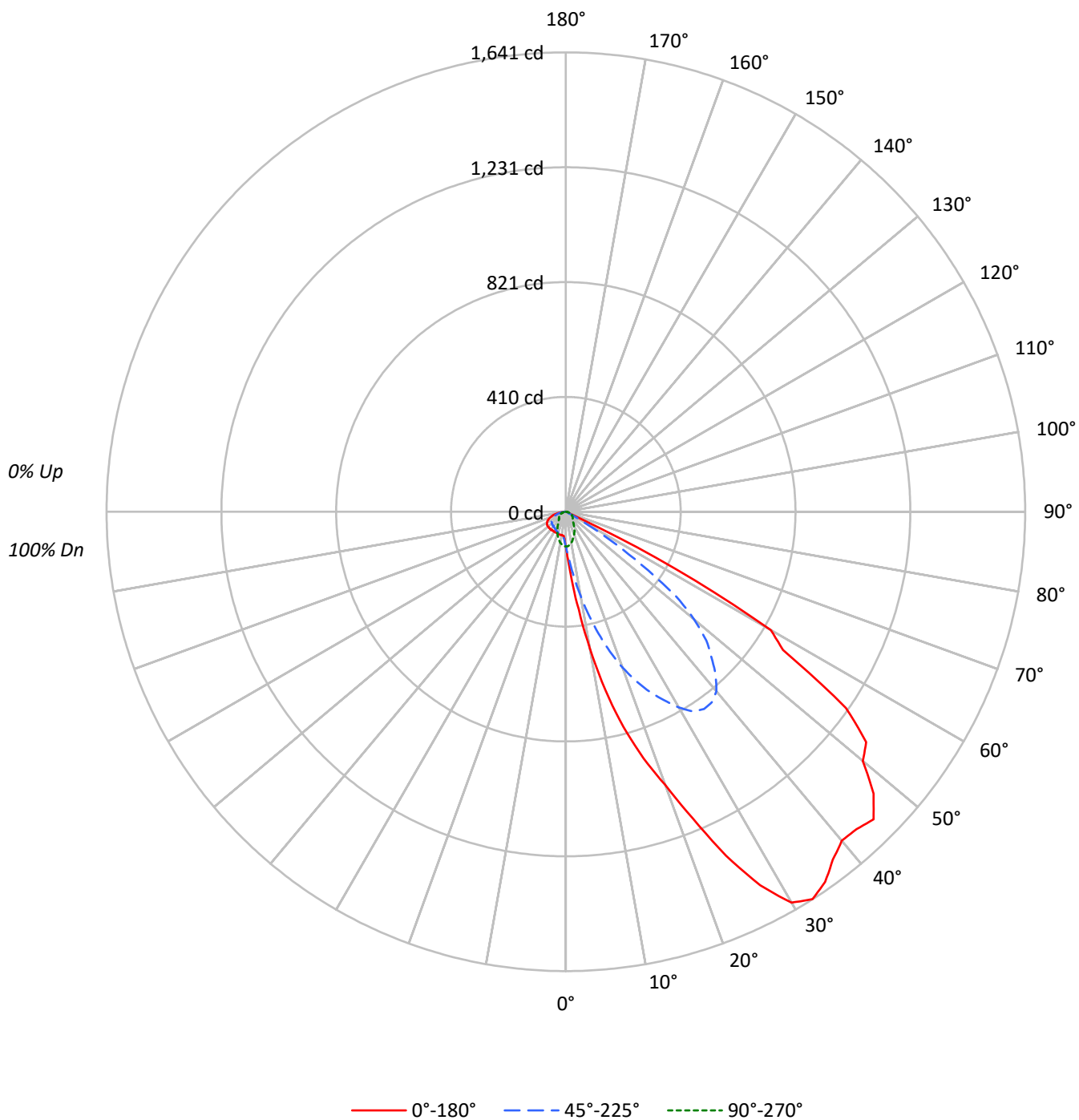
Lumens per Lamp: N/A
Luminaire Lumens: 1249.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21321	21321	21321	21321	21321
5°	42010	32778	21005	15905	15110
10°	86775	53408	19656	14498	14690
15°	141907	80163	17616	14567	14977
20°	190405	108627	15817	14570	15194
25°	257600	134843	13815	14461	15753
30°	320611	160524	11514	14458	16486
35°	339441	180937	9776	14801	17177
40°	344852	188130	8925	15310	18638
45°	378565	179187	8573	16318	20191
50°	371111	160625	8520	17335	22211
55°	366799	98516	8527	18736	24531
60°	290953	23457	8990	19943	26591
65°	18501	4157	8802	20376	28689
70°	3978	4582	8560	21149	30313
75°	3793	4525	7586	20428	30942
80°	3372	4463	7835	20233	29258
85°	2174	4545	8892	17982	29245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 399577 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	1.2
10°-20°	77.9	6.2
20°-30°	180.6	14.5
30°-40°	280.7	22.5
40°-50°	319.9	25.6
50°-60°	269.4	21.6
60°-70°	78.2	6.3
70°-80°	20.0	1.6
80°-90°	6.8	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°	273.9	21.9
0°-40°	554.7	44.4
0°-60°	1144.0	91.6
0°-90°	1249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1249.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	124	124	124	124	124	
5°	243	190	122	92	87	31
15°	796	450	99	82	84	230
25°	1356	710	73	76	83	630
35°	1614	861	46	70	82	1003
45°	1554	736	35	67	83	1168
55°	1222	328	28	62	82	1028
65°	45	10	22	50	70	225
75°	6	7	11	31	46	6
85°	1	2	4	9	15	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°	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8
2.5°	166.9	165.8	165.8	164.6	163.5	162.4	159.0	157.8	151.0	137.4	123.8
5°	243.0	241.8	238.4	237.3	231.6	223.7	215.7	207.8	189.6	151.0	121.5
7.5°	352.0	354.2	352.0	339.5	331.5	319.0	295.2	278.2	241.8	164.6	116.9
10°	496.2	496.2	492.7	473.4	456.4	432.6	401.9	372.4	305.4	177.1	112.4
12.5°	652.8	656.2	639.2	623.3	592.7	563.1	521.1	476.9	378.1	187.3	106.7
15°	795.9	793.6	776.6	756.1	724.4	683.5	639.2	582.4	449.6	194.1	98.8
17.5°	923.0	918.5	903.7	881.0	842.4	797.0	740.3	678.9	523.4	199.8	93.1
20°	1038.9	1023.0	1005.9	982.1	944.6	896.9	837.9	768.6	592.7	199.8	86.3
22.5°	1185.3	1169.4	1145.6	1109.2	1059.3	1000.2	931.0	852.7	654.0	195.3	79.5
25°	1355.6	1343.1	1302.3	1255.7	1191.0	1120.6	1040.0	934.4	709.6	188.5	72.7
27.5°	1504.3	1490.7	1449.9	1381.7	1303.4	1219.4	1134.2	1026.4	758.4	176.0	64.7
30°	1612.2	1595.2	1563.4	1498.7	1403.3	1301.1	1200.1	1096.8	807.2	161.2	57.9
32.5°	1640.6	1638.3	1614.5	1566.8	1481.6	1369.2	1248.9	1136.5	845.8	141.9	52.2
35°	1614.5	1617.9	1613.3	1589.5	1527.1	1416.9	1280.7	1158.1	860.6	122.6	46.5
37.5°	1566.8	1571.3	1579.3	1582.7	1543.0	1445.3	1298.8	1167.1	857.2	103.3	43.1
40°	1533.9	1531.6	1531.6	1554.3	1546.4	1457.8	1301.1	1160.3	836.8	82.9	39.7
42.5°	1537.3	1512.3	1495.3	1531.6	1543.0	1452.1	1286.4	1142.2	792.5	63.6	36.3
45°	1554.3	1500.9	1471.4	1518.0	1536.1	1432.8	1259.1	1114.9	735.7	44.3	35.2
47.5°	1490.7	1455.5	1451.0	1516.8	1523.6	1399.9	1217.1	1071.8	681.2	30.7	32.9
50°	1385.1	1379.5	1403.3	1471.4	1472.6	1345.4	1169.4	993.4	599.5	21.6	31.8
52.5°	1352.2	1355.6	1377.2	1412.4	1379.5	1253.4	1083.1	927.6	496.2	17.0	30.7
55°	1221.6	1227.3	1247.8	1269.3	1245.5	1141.0	978.7	848.1	328.1	15.9	28.4
57.5°	919.6	934.4	971.9	991.2	993.4	929.9	886.7	731.2	185.1	15.9	27.2
60°	844.7	825.4	808.4	768.6	732.3	724.4	728.9	548.4	68.1	14.8	26.1
62.5°	441.7	432.6	458.7	475.7	480.3	505.2	472.3	289.5	14.8	14.8	23.8
65°	45.4	45.4	55.6	73.8	122.6	163.5	155.5	84.0	10.2	13.6	21.6
67.5°	13.6	13.6	13.6	15.9	20.4	20.4	17.0	12.5	10.2	12.5	19.3
70°	7.9	7.9	7.9	7.9	7.9	7.9	9.1	7.9	9.1	11.4	17.0
72.5°	6.8	6.8	6.8	6.8	7.9	7.9	7.9	7.9	7.9	10.2	14.8
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.8	6.8	7.9	11.4
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	5.7	5.7	5.7	6.8	9.1
80°	3.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5	4.5	5.7	7.9
82.5°	2.3	2.3	2.3	2.3	3.4	3.4	3.4	3.4	3.4	4.5	5.7
85°	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4
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°	123.8	123.8	123.8	123.8
2.5°	112.4	104.5	99.9	97.6
5°	102.2	92.0	88.6	87.4
7.5°	93.1	86.3	85.2	85.2
10°	87.4	82.9	84.0	84.0
12.5°	84.0	82.9	84.0	85.2
15°	80.6	81.7	84.0	84.0
17.5°	78.3	80.6	82.9	84.0
20°	74.9	79.5	82.9	82.9
22.5°	72.7	78.3	81.7	82.9
25°	70.4	76.1	80.6	82.9
27.5°	67.0	74.9	80.6	81.7
30°	63.6	72.7	79.5	82.9
32.5°	60.2	71.5	79.5	81.7
35°	57.9	70.4	79.5	81.7
37.5°	55.6	69.3	79.5	82.9
40°	54.5	68.1	78.3	82.9
42.5°	52.2	68.1	78.3	82.9
45°	51.1	67.0	78.3	82.9
47.5°	50.0	65.9	78.3	82.9
50°	47.7	64.7	77.2	82.9
52.5°	46.5	63.6	77.2	82.9
55°	44.3	62.4	76.1	81.7
57.5°	43.1	60.2	74.9	79.5
60°	40.9	57.9	72.7	77.2
62.5°	37.5	54.5	69.3	74.9
65°	34.1	50.0	65.9	70.4
67.5°	30.7	46.5	61.3	65.9
70°	27.2	42.0	55.6	60.2
72.5°	23.8	36.3	50.0	53.4
75°	20.4	30.7	42.0	46.5
77.5°	15.9	25.0	35.2	38.6
80°	12.5	20.4	27.2	29.5
82.5°	10.2	14.8	20.4	21.6
85°	6.8	9.1	12.5	14.8
87.5°	3.4	4.5	5.7	6.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)