

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: P1316456

Luminaire Tested: P3SQAS17R609827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316456
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: P3SQAS17R609827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

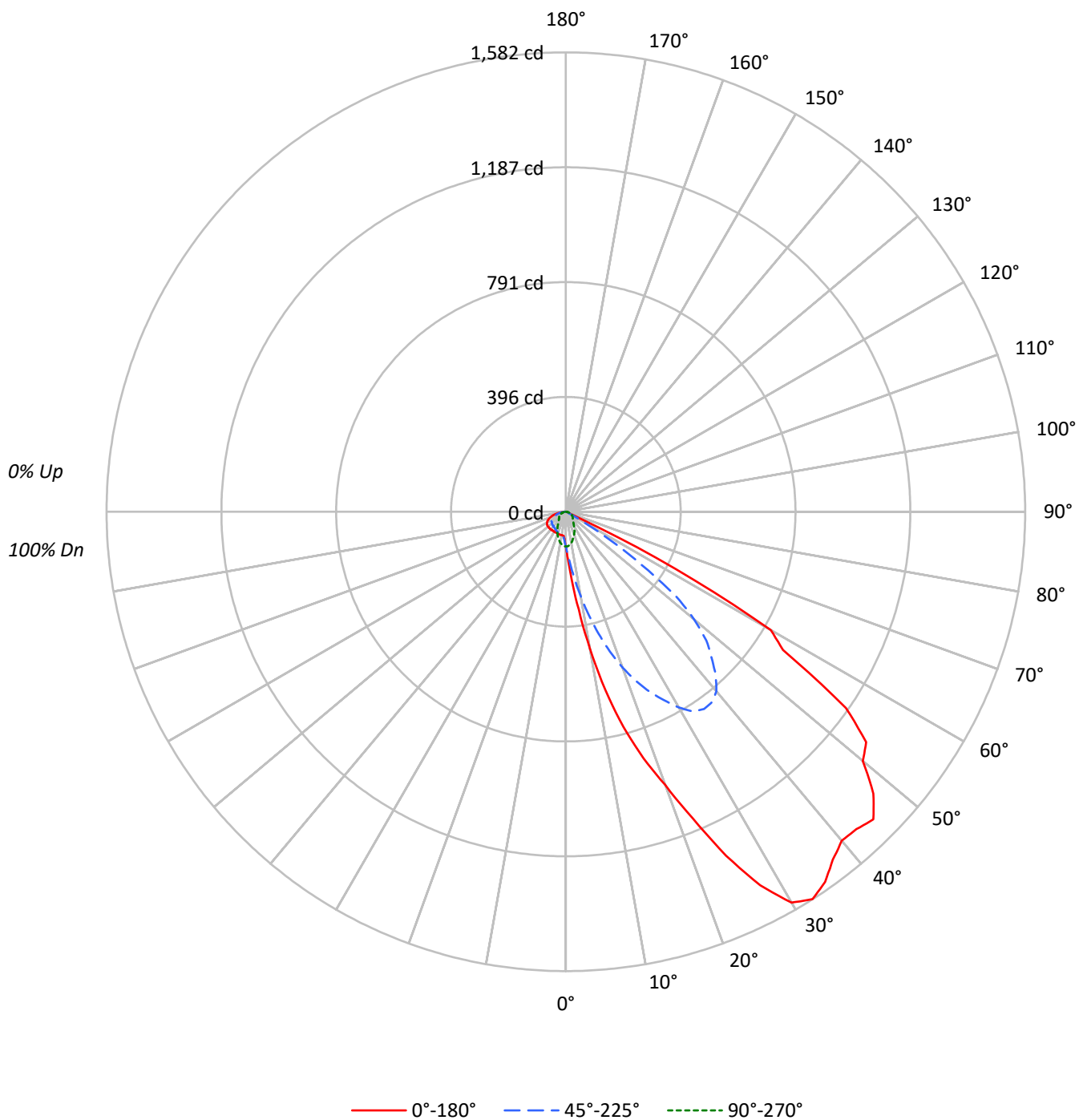
Lumens per Lamp: N/A
Luminaire Lumens: 1204.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: P3SQA517R609827DE010 E3SQA451MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20546	20546	20546	20546	20546
5°	40489	31603	20244	15335	14574
10°	83645	51485	18957	13973	14165
15°	136790	77274	16974	14050	14442
20°	183532	104705	15249	14039	14644
25°	248327	129978	13302	13929	15183
30°	309057	154757	11097	13921	15889
35°	327204	174419	9440	14276	16567
40°	332420	181340	8611	14771	17963
45°	364925	172732	8257	15734	19460
50°	357741	154837	8199	16719	21408
55°	353587	94973	8227	18076	23661
60°	280482	22630	8680	19220	25627
65°	17849	4034	8476	19642	27670
70°	3877	4431	8258	20394	29206
75°	3660	4392	7253	19696	29877
80°	3273	4364	7637	19538	28266
85°	2174	4347	8695	17389	28060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 385177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	1.2
10°-20°	75.1	6.2
20°-30°	174.1	14.5
30°-40°	270.6	22.5
40°-50°	308.4	25.6
50°-60°	259.7	21.6
60°-70°	75.4	6.3
70°-80°	19.3	1.6
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°	264.1	21.9
0°-40°	534.7	44.4
0°-60°	1102.8	91.6
0°-90°	1204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	119	119	119	119	119	
5°	234	183	117	89	84	30
15°	767	433	95	79	81	222
25°	1307	684	70	73	80	607
35°	1556	830	45	68	79	967
45°	1498	709	34	65	80	1126
55°	1178	316	27	60	79	991
65°	44	10	21	48	68	217
75°	6	7	11	30	45	6
85°	1	2	4	9	14	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°	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3
2.5°	160.9	159.8	159.8	158.7	157.6	156.5	153.2	152.1	145.6	132.4	119.3
5°	234.2	233.1	229.8	228.7	223.3	215.6	207.9	200.3	182.8	145.6	117.1
7.5°	339.3	341.5	339.3	327.2	319.6	307.5	284.6	268.1	233.1	158.7	112.7
10°	478.3	478.3	475.0	456.4	440.0	417.0	387.4	359.0	294.4	170.7	108.4
12.5°	629.3	632.6	616.2	600.9	571.3	542.8	502.4	459.7	364.5	180.6	102.9
15°	767.2	765.0	748.6	728.9	698.3	658.9	616.2	561.5	433.4	187.2	95.2
17.5°	889.8	885.4	871.2	849.3	812.1	768.3	713.6	654.5	504.5	192.6	89.7
20°	1001.4	986.1	969.7	946.7	910.6	864.6	807.7	740.9	571.3	192.6	83.2
22.5°	1142.6	1127.3	1104.3	1069.3	1021.1	964.2	897.5	821.9	630.4	188.2	76.6
25°	1306.8	1294.7	1255.3	1210.5	1148.1	1080.2	1002.5	900.7	684.0	181.7	70.0
27.5°	1450.1	1437.0	1397.6	1331.9	1256.4	1175.4	1093.4	989.4	731.1	169.6	62.4
30°	1554.1	1537.7	1507.1	1444.7	1352.7	1254.2	1156.8	1057.2	778.2	155.4	55.8
32.5°	1581.5	1579.3	1556.3	1510.3	1428.3	1319.9	1203.9	1095.5	815.4	136.8	50.3
35°	1556.3	1559.6	1555.2	1532.2	1472.0	1365.9	1234.5	1116.3	829.6	118.2	44.9
37.5°	1510.3	1514.7	1522.4	1525.7	1487.4	1393.2	1252.1	1125.1	826.3	99.6	41.6
40°	1478.6	1476.4	1476.4	1498.3	1490.6	1405.3	1254.2	1118.5	806.6	79.9	38.3
42.5°	1481.9	1457.8	1441.4	1476.4	1487.4	1399.8	1240.0	1101.0	763.9	61.3	35.0
45°	1498.3	1446.9	1418.4	1463.3	1480.8	1381.2	1213.7	1074.8	709.2	42.7	33.9
47.5°	1437.0	1403.1	1398.7	1462.2	1468.8	1349.5	1173.3	1033.2	656.7	29.6	31.7
50°	1335.2	1329.8	1352.7	1418.4	1419.5	1296.9	1127.3	957.6	577.9	20.8	30.6
52.5°	1303.5	1306.8	1327.6	1361.5	1329.8	1208.3	1044.1	894.2	478.3	16.4	29.6
55°	1177.6	1183.1	1202.8	1223.6	1200.6	1099.9	943.4	817.6	316.3	15.3	27.4
57.5°	886.5	900.7	936.9	955.5	957.6	896.4	854.8	704.8	178.4	15.3	26.3
60°	814.3	795.7	779.2	740.9	705.9	698.3	702.6	528.6	65.7	14.2	25.2
62.5°	425.7	417.0	442.2	458.6	463.0	487.0	455.3	279.1	14.2	14.2	23.0
65°	43.8	43.8	53.6	71.1	118.2	157.6	149.9	81.0	9.9	13.1	20.8
67.5°	13.1	13.1	13.1	15.3	19.7	19.7	16.4	12.0	9.9	12.0	18.6
70°	7.7	7.7	7.7	7.7	7.7	7.7	8.8	7.7	8.8	10.9	16.4
72.5°	6.6	6.6	6.6	6.6	7.7	7.7	7.7	7.7	7.7	9.9	14.2
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.6	6.6	7.7	10.9
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	5.5	5.5	5.5	6.6	8.8
80°	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4	4.4	5.5	7.7
82.5°	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	3.3	4.4	5.5
85°	1.1	2.2	2.2	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	2.2	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°	119.3	119.3	119.3	119.3
2.5°	108.4	100.7	96.3	94.1
5°	98.5	88.7	85.4	84.3
7.5°	89.7	83.2	82.1	82.1
10°	84.3	79.9	81.0	81.0
12.5°	81.0	79.9	81.0	82.1
15°	77.7	78.8	81.0	81.0
17.5°	75.5	77.7	79.9	81.0
20°	72.2	76.6	79.9	79.9
22.5°	70.0	75.5	78.8	79.9
25°	67.9	73.3	77.7	79.9
27.5°	64.6	72.2	77.7	78.8
30°	61.3	70.0	76.6	79.9
32.5°	58.0	69.0	76.6	78.8
35°	55.8	67.9	76.6	78.8
37.5°	53.6	66.8	76.6	79.9
40°	52.5	65.7	75.5	79.9
42.5°	50.3	65.7	75.5	79.9
45°	49.3	64.6	75.5	79.9
47.5°	48.2	63.5	75.5	79.9
50°	46.0	62.4	74.4	79.9
52.5°	44.9	61.3	74.4	79.9
55°	42.7	60.2	73.3	78.8
57.5°	41.6	58.0	72.2	76.6
60°	39.4	55.8	70.0	74.4
62.5°	36.1	52.5	66.8	72.2
65°	32.8	48.2	63.5	67.9
67.5°	29.6	44.9	59.1	63.5
70°	26.3	40.5	53.6	58.0
72.5°	23.0	35.0	48.2	51.4
75°	19.7	29.6	40.5	44.9
77.5°	15.3	24.1	33.9	37.2
80°	12.0	19.7	26.3	28.5
82.5°	9.9	14.2	19.7	20.8
85°	6.6	8.8	12.0	14.2
87.5°	3.3	4.4	5.5	6.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)