

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: P1312654

Luminaire Tested: P3SQAS17R609727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312654
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: P3SQAS17R609727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

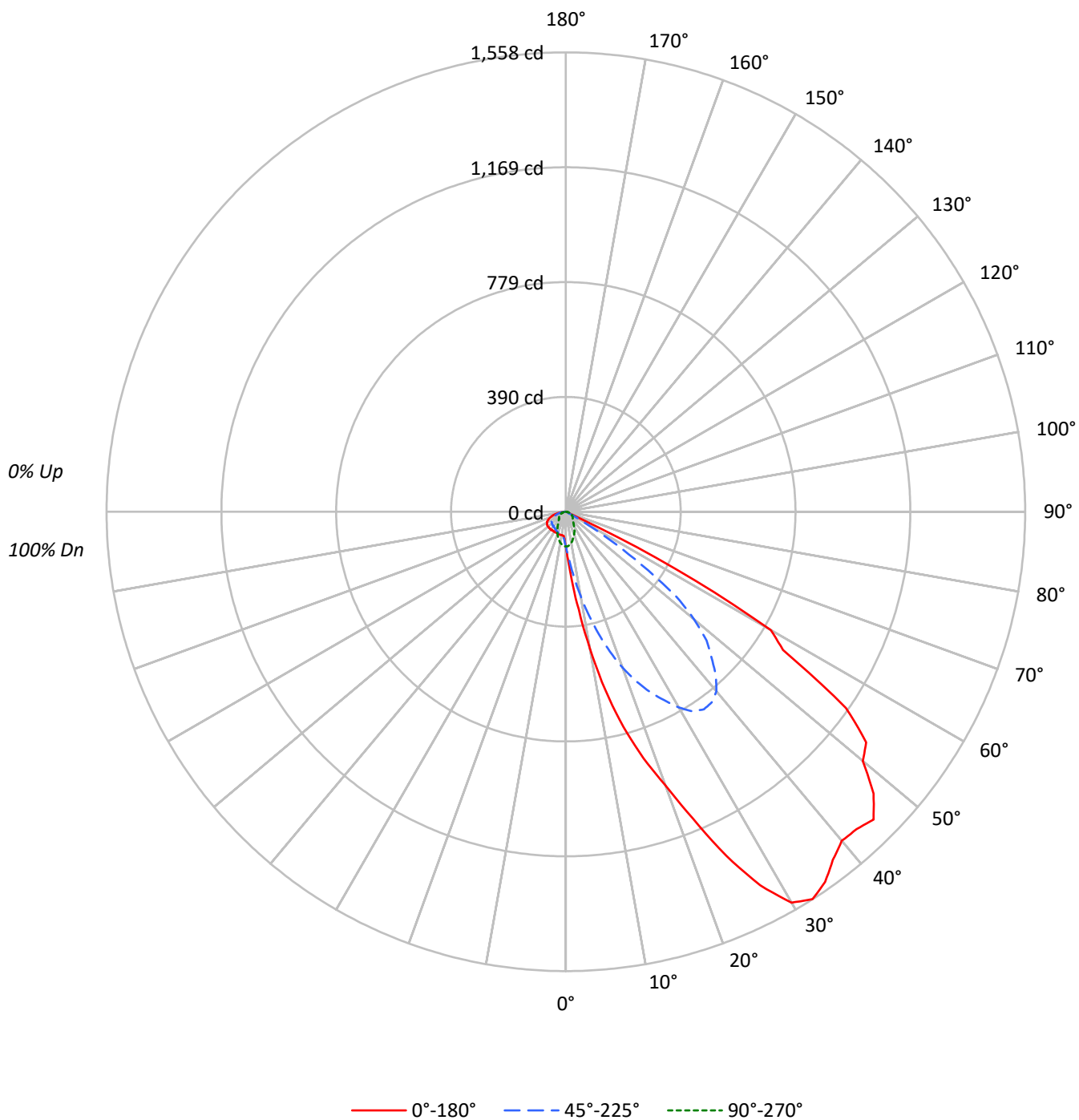
Lumens per Lamp: N/A
Luminaire Lumens: 1186.0 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1312654

CATALOG NUMBER: P3SQAS17R609727DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312654

CATALOG NUMBER: P3SQAS17R609727DE010 E3SQCA451MW

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	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°	20236	20236	20236	20236	20236
5°	39884	31118	19950	15092	14349
10°	82386	50715	18660	13763	13955
15°	134740	76115	16724	13836	14228
20°	180801	103147	15010	13837	14424
25°	244602	128040	13112	13720	14955
30°	304443	152430	10938	13722	15651
35°	322306	171812	9293	14044	16315
40°	327451	178643	8476	14546	17693
45°	359470	170151	8135	15490	19168
50°	352409	152506	8092	16478	21086
55°	348303	93561	8107	17805	23300
60°	276280	22286	8542	18944	25248
65°	17564	3953	8354	19316	27222
70°	3777	4330	8157	20091	28752
75°	3593	4325	7187	19364	29411
80°	3174	4265	7438	19241	27770
85°	2174	4347	8497	16994	27664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 379406 cd/sqm

TEST NUMBER: P1312654

CATALOG NUMBER: P3SQAS17R609727DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	1.2
10°-20°	73.9	6.2
20°-30°	171.5	14.5
30°-40°	266.6	22.5
40°-50°	303.8	25.6
50°-60°	255.8	21.6
60°-70°	74.2	6.3
70°-80°	19.0	1.6
80°-90°	6.4	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°	260.1	21.9
0°-40°	526.7	44.4
0°-60°	1086.3	91.6
0°-90°	1186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	231	180	115	87	83	30
15°	756	427	94	78	80	219
25°	1287	674	69	72	79	598
35°	1533	817	44	67	78	952
45°	1476	699	33	64	79	1109
55°	1160	312	27	59	78	976
65°	43	10	20	47	67	213
75°	5	6	11	29	44	6
85°	1	2	4	9	14	2
90°	0	0	0	0	0	

TEST NUMBER: P1312654

CATALOG NUMBER: P3SQAS17R609727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5
2.5°	158.5	157.4	157.4	156.3	155.2	154.2	150.9	149.9	143.4	130.4	117.5
5°	230.7	229.6	226.4	225.3	219.9	212.4	204.8	197.3	180.0	143.4	115.4
7.5°	334.2	336.4	334.2	322.3	314.8	302.9	280.3	264.1	229.6	156.3	111.0
10°	471.1	471.1	467.9	449.6	433.4	410.8	381.6	353.6	290.0	168.2	106.7
12.5°	619.9	623.1	607.0	591.9	562.8	534.7	494.8	452.8	359.0	177.9	101.3
15°	755.7	753.6	737.4	718.0	687.8	649.0	607.0	553.1	426.9	184.4	93.8
17.5°	876.5	872.2	858.2	836.6	799.9	756.8	702.9	644.7	497.0	189.7	88.4
20°	986.5	971.4	955.2	932.5	897.0	851.7	795.6	729.9	562.8	189.7	81.9
22.5°	1125.5	1110.4	1087.8	1053.3	1005.9	949.8	884.0	809.6	621.0	185.4	75.5
25°	1287.2	1275.4	1236.6	1192.4	1130.9	1064.1	987.5	887.3	673.8	179.0	69.0
27.5°	1428.5	1415.5	1376.7	1312.0	1237.6	1157.9	1077.0	974.6	720.2	167.1	61.5
30°	1530.9	1514.7	1484.5	1423.1	1332.5	1235.5	1139.5	1041.4	766.5	153.1	55.0
32.5°	1557.8	1555.7	1533.0	1487.8	1406.9	1300.2	1185.9	1079.2	803.2	134.8	49.6
35°	1533.0	1536.3	1532.0	1509.3	1450.0	1345.5	1216.1	1099.7	817.2	116.4	44.2
37.5°	1487.8	1492.1	1499.6	1502.9	1465.1	1372.4	1233.3	1108.3	814.0	98.1	41.0
40°	1456.5	1454.3	1454.3	1475.9	1468.4	1384.3	1235.5	1101.8	794.6	78.7	37.7
42.5°	1459.7	1436.0	1419.8	1454.3	1465.1	1378.9	1221.5	1084.6	752.5	60.4	34.5
45°	1475.9	1425.2	1397.2	1441.4	1458.7	1360.5	1195.6	1058.7	698.6	42.0	33.4
47.5°	1415.5	1382.1	1377.8	1440.3	1446.8	1329.3	1155.7	1017.7	646.9	29.1	31.3
50°	1315.3	1309.9	1332.5	1397.2	1398.3	1277.5	1110.4	943.3	569.2	20.5	30.2
52.5°	1284.0	1287.2	1307.7	1341.1	1309.9	1190.2	1028.5	880.8	471.1	16.2	29.1
55°	1160.0	1165.4	1184.8	1205.3	1182.7	1083.5	929.3	805.3	311.6	15.1	27.0
57.5°	873.3	887.3	922.8	941.2	943.3	883.0	842.0	694.3	175.7	15.1	25.9
60°	802.1	783.8	767.6	729.9	695.4	687.8	692.1	520.7	64.7	14.0	24.8
62.5°	419.4	410.8	435.5	451.7	456.0	479.7	448.5	274.9	14.0	14.0	22.6
65°	43.1	43.1	52.8	70.1	116.4	155.2	147.7	79.8	9.7	12.9	20.5
67.5°	12.9	12.9	12.9	15.1	19.4	19.4	16.2	11.9	9.7	11.9	18.3
70°	7.5	7.5	7.5	7.5	7.5	7.5	8.6	7.5	8.6	10.8	16.2
72.5°	6.5	6.5	6.5	6.5	7.5	7.5	7.5	7.5	7.5	9.7	14.0
75°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	6.5	7.5	10.8
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.4	5.4	6.5	8.6
80°	3.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3	4.3	5.4	7.5
82.5°	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4
85°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1312654

CATALOG NUMBER: P3SQAS17R609727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	117.5	117.5	117.5	117.5
2.5°	106.7	99.2	94.9	92.7
5°	97.0	87.3	84.1	83.0
7.5°	88.4	81.9	80.9	80.9
10°	83.0	78.7	79.8	79.8
12.5°	79.8	78.7	79.8	80.9
15°	76.5	77.6	79.8	79.8
17.5°	74.4	76.5	78.7	79.8
20°	71.2	75.5	78.7	78.7
22.5°	69.0	74.4	77.6	78.7
25°	66.8	72.2	76.5	78.7
27.5°	63.6	71.2	76.5	77.6
30°	60.4	69.0	75.5	78.7
32.5°	57.1	67.9	75.5	77.6
35°	55.0	66.8	75.5	77.6
37.5°	52.8	65.8	75.5	78.7
40°	51.7	64.7	74.4	78.7
42.5°	49.6	64.7	74.4	78.7
45°	48.5	63.6	74.4	78.7
47.5°	47.4	62.5	74.4	78.7
50°	45.3	61.5	73.3	78.7
52.5°	44.2	60.4	73.3	78.7
55°	42.0	59.3	72.2	77.6
57.5°	41.0	57.1	71.2	75.5
60°	38.8	55.0	69.0	73.3
62.5°	35.6	51.7	65.8	71.2
65°	32.3	47.4	62.5	66.8
67.5°	29.1	44.2	58.2	62.5
70°	25.9	39.9	52.8	57.1
72.5°	22.6	34.5	47.4	50.7
75°	19.4	29.1	39.9	44.2
77.5°	15.1	23.7	33.4	36.7
80°	11.9	19.4	25.9	28.0
82.5°	9.7	14.0	19.4	20.5
85°	6.5	8.6	11.9	14.0
87.5°	3.2	4.3	5.4	6.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)