

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: P1312507

Luminaire Tested: P3SQAS13R609727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312507
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: P3SQAS13R609727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

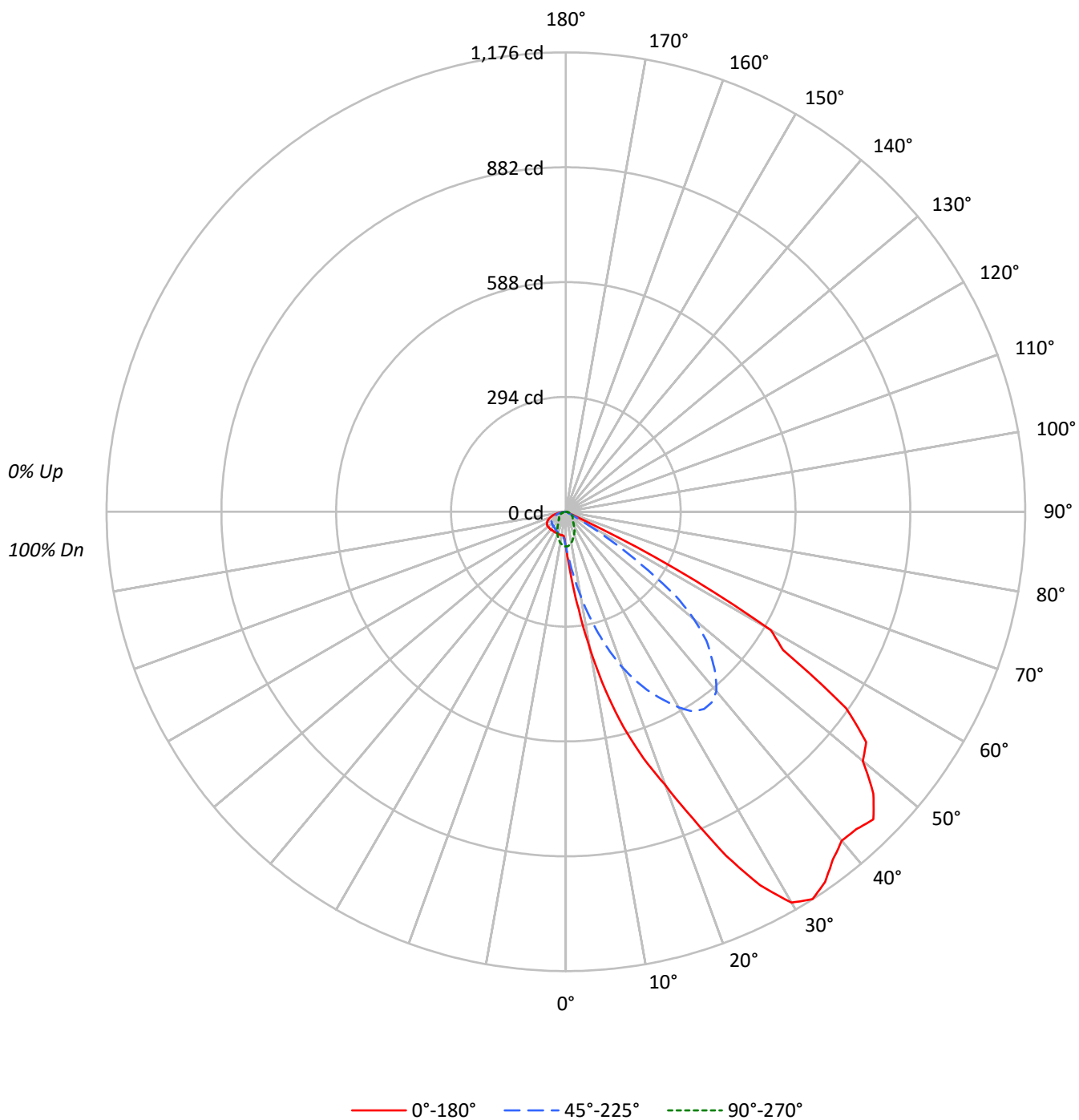
Lumens per Lamp: N/A
Luminaire Lumens: 895.0 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1312507

CATALOG NUMBER: P3SQAS13R609727DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312507

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15276	15276	15276	15276	15276
5°	30098	23494	15058	11393	10822
10°	62170	38264	14078	10388	10528
15°	101683	57448	12623	10448	10734
20°	136430	77837	11326	10428	10887
25°	184592	96629	9900	10356	11288
30°	229749	115024	8253	10361	11813
35°	243232	129658	7022	10596	12320
40°	247100	134802	6407	10971	13354
45°	271277	128405	6138	11691	14467
50°	265948	115103	6109	12432	15915
55°	262848	70591	6095	13422	17595
60°	208493	16809	6441	14294	19048
65°	13244	2975	6316	14589	20539
70°	2870	3273	6143	15157	21703
75°	2728	3261	5390	14639	22225
80°	2380	3273	5653	14480	21026
85°	1581	3162	6521	12844	20946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 286330 cd/sqm

TEST NUMBER: P1312507

CATALOG NUMBER: P3SQAS13R609727DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	1.2
10°-20°	55.8	6.2
20°-30°	129.4	14.5
30°-40°	201.2	22.5
40°-50°	229.2	25.6
50°-60°	193.1	21.6
60°-70°	56.0	6.3
70°-80°	14.4	1.6
80°-90°	4.8	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°	196.3	21.9
0°-40°	397.5	44.4
0°-60°	819.8	91.6
0°-90°	895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	89	89	89	89	89	
5°	174	136	87	66	63	22
15°	570	322	71	59	60	165
25°	971	508	52	54	59	451
35°	1157	617	33	50	59	719
45°	1114	527	25	48	59	837
55°	875	235	20	45	59	737
65°	32	7	16	36	50	161
75°	4	5	8	22	33	4
85°	1	2	3	6	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1312507

CATALOG NUMBER: P3SQAS13R609727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
2.5°	119.6	118.8	118.8	118.0	117.2	116.3	113.9	113.1	108.2	98.4	88.7
5°	174.1	173.3	170.8	170.0	166.0	160.3	154.6	148.9	135.9	108.2	87.1
7.5°	252.2	253.8	252.2	243.3	237.6	228.6	211.5	199.3	173.3	118.0	83.8
10°	355.5	355.5	353.1	339.3	327.1	310.0	288.0	266.8	218.8	126.9	80.5
12.5°	467.8	470.2	458.0	446.6	424.7	403.5	373.4	341.7	270.9	134.2	76.5
15°	570.3	568.7	556.5	541.8	519.1	489.8	458.0	417.4	322.2	139.1	70.8
17.5°	661.4	658.2	647.6	631.3	603.7	571.1	530.4	486.5	375.1	143.2	66.7
20°	744.4	733.0	720.8	703.7	676.9	642.7	600.4	550.8	424.7	143.2	61.8
22.5°	849.4	838.0	820.9	794.9	759.1	716.8	667.1	611.0	468.6	139.9	56.9
25°	971.4	962.4	933.2	899.8	853.4	803.0	745.2	669.6	508.5	135.1	52.1
27.5°	1078.0	1068.2	1038.9	990.1	934.0	873.8	812.8	735.5	543.5	126.1	46.4
30°	1155.3	1143.1	1120.3	1073.9	1005.6	932.3	859.9	785.9	578.4	115.5	41.5
32.5°	1175.6	1174.0	1156.9	1122.7	1061.7	981.2	894.9	814.4	606.1	101.7	37.4
35°	1156.9	1159.3	1156.1	1139.0	1094.2	1015.3	917.7	829.8	616.7	87.9	33.4
37.5°	1122.7	1126.0	1131.7	1134.1	1105.6	1035.7	930.7	836.3	614.2	74.0	30.9
40°	1099.1	1097.5	1097.5	1113.8	1108.1	1044.6	932.3	831.5	599.6	59.4	28.5
42.5°	1101.6	1083.7	1071.5	1097.5	1105.6	1040.6	921.8	818.4	567.9	45.6	26.0
45°	1113.8	1075.5	1054.4	1087.7	1100.8	1026.7	902.2	798.9	527.2	31.7	25.2
47.5°	1068.2	1043.0	1039.7	1086.9	1091.8	1003.1	872.1	768.0	488.1	22.0	23.6
50°	992.6	988.5	1005.6	1054.4	1055.2	964.1	838.0	711.9	429.6	15.5	22.8
52.5°	969.0	971.4	986.9	1012.1	988.5	898.2	776.1	664.7	355.5	12.2	22.0
55°	875.4	879.5	894.1	909.6	892.5	817.6	701.3	607.7	235.1	11.4	20.3
57.5°	659.0	669.6	696.4	710.2	711.9	666.3	635.4	523.9	132.6	11.4	19.5
60°	605.3	591.5	579.3	550.8	524.8	519.1	522.3	393.0	48.8	10.6	18.7
62.5°	316.5	310.0	328.7	340.9	344.1	362.0	338.4	207.5	10.6	10.6	17.1
65°	32.5	32.5	39.9	52.9	87.9	117.2	111.5	60.2	7.3	9.8	15.5
67.5°	9.8	9.8	9.8	11.4	14.6	14.6	12.2	8.9	7.3	8.9	13.8
70°	5.7	5.7	5.7	5.7	5.7	5.7	6.5	5.7	6.5	8.1	12.2
72.5°	4.9	4.9	4.9	4.9	5.7	5.7	5.7	5.7	5.7	7.3	10.6
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.9	4.9	5.7	8.1
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.1	4.1	4.1	4.9	6.5
80°	2.4	2.4	2.4	2.4	2.4	3.3	3.3	3.3	3.3	4.1	5.7
82.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.3	4.1
85°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4
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: P1312507

CATALOG NUMBER: P3SQAS13R609727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	88.7	88.7	88.7	88.7
2.5°	80.5	74.8	71.6	70.0
5°	73.2	65.9	63.5	62.6
7.5°	66.7	61.8	61.0	61.0
10°	62.6	59.4	60.2	60.2
12.5°	60.2	59.4	60.2	61.0
15°	57.8	58.6	60.2	60.2
17.5°	56.1	57.8	59.4	60.2
20°	53.7	56.9	59.4	59.4
22.5°	52.1	56.1	58.6	59.4
25°	50.4	54.5	57.8	59.4
27.5°	48.0	53.7	57.8	58.6
30°	45.6	52.1	56.9	59.4
32.5°	43.1	51.3	56.9	58.6
35°	41.5	50.4	56.9	58.6
37.5°	39.9	49.6	56.9	59.4
40°	39.1	48.8	56.1	59.4
42.5°	37.4	48.8	56.1	59.4
45°	36.6	48.0	56.1	59.4
47.5°	35.8	47.2	56.1	59.4
50°	34.2	46.4	55.3	59.4
52.5°	33.4	45.6	55.3	59.4
55°	31.7	44.7	54.5	58.6
57.5°	30.9	43.1	53.7	56.9
60°	29.3	41.5	52.1	55.3
62.5°	26.8	39.1	49.6	53.7
65°	24.4	35.8	47.2	50.4
67.5°	22.0	33.4	43.9	47.2
70°	19.5	30.1	39.9	43.1
72.5°	17.1	26.0	35.8	38.2
75°	14.6	22.0	30.1	33.4
77.5°	11.4	17.9	25.2	27.7
80°	8.9	14.6	19.5	21.2
82.5°	7.3	10.6	14.6	15.5
85°	4.9	6.5	8.9	10.6
87.5°	2.4	3.3	4.1	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)