

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: P1316290

Luminaire Tested: P3SQAS13R509827DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R509827DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

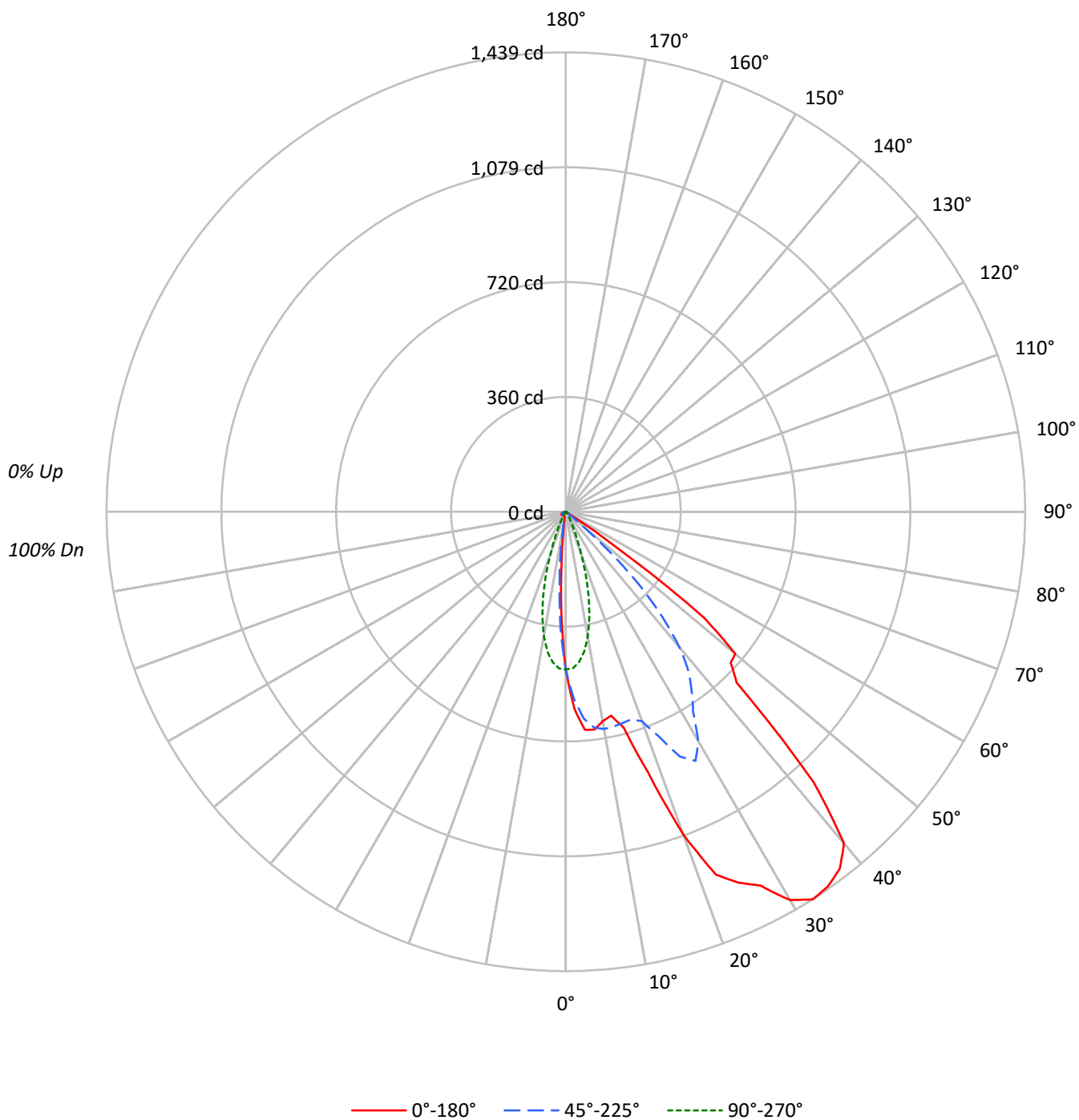
Lumens per Lamp: N/A
Luminaire Lumens: 768.0 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1316290

CATALOG NUMBER: P3SQAS13R509827DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1316290

CATALOG NUMBER: P3SQAS13R509827DE010 E3SQCA301MW

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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	85044	85044	85044	85044	85044
5°	118579	112493	81738	39296	25500
10°	116400	120894	69077	8272	3550
15°	124826	122170	48836	2888	2781
20°	197094	127926	25787	2474	2603
25°	243557	160668	10280	2318	2565
30°	279247	164780	4176	2287	2685
35°	301050	144628	1850	2418	2985
40°	304744	124551	1371	2743	3350
45°	184180	80716	1315	2971	3800
50°	185569	13959	1447	3456	4340
55°	54828	811	1621	3873	4864
60°	930	930	1619	4202	5373
65°	815	815	1671	4401	5787
70°	1007	1007	1712	4784	6496
75°	932	932	1797	4924	6721
80°	694	1389	1984	4661	7339
85°	1383	2766	2766	5335	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 210362 cd/sqm

TEST NUMBER: P1316290

CATALOG NUMBER: P3SQAS13R509827DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	5.2
10°-20°	99.1	12.9
20°-30°	185.7	24.2
30°-40°	222.1	28.9
40°-50°	159.1	20.7
50°-60°	49.1	6.4
60°-70°	6.4	0.8
70°-80°	4.7	0.6
80°-90°	1.9	0.3
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°	324.8	42.3
0°-40°	546.9	71.2
0°-60°	755.1	98.3
0°-90°	768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	494	494	494	494	494	
5°	686	651	473	227	148	64
15°	700	685	274	16	16	224
25°	1282	846	54	12	14	591
35°	1432	688	9	12	14	888
45°	756	331	5	12	16	695
55°	183	3	5	13	16	235
65°	2	2	4	11	14	2
75°	1	1	3	7	10	1
85°	1	1	1	3	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1316290

CATALOG NUMBER: P3SQAS13R509827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	617.5	618.9	620.9	615.5	612.1	609.4	604.7	603.3	591.8	587.1	582.4
5°	685.9	684.5	685.9	683.8	682.5	678.4	674.4	667.6	660.1	650.7	639.9
7.5°	687.9	686.5	689.2	689.2	691.9	691.9	691.9	692.6	688.6	681.8	672.3
10°	665.6	665.6	668.3	666.9	671.6	673.7	678.4	686.5	690.6	691.3	688.6
12.5°	654.1	654.1	654.7	652.0	653.4	655.4	660.8	670.3	679.8	689.2	694.6
15°	700.1	701.4	691.9	678.4	668.3	657.4	654.1	660.1	670.3	685.2	697.3
17.5°	856.3	858.3	848.2	815.7	784.6	740.0	700.1	680.4	669.6	681.8	698.0
20°	1075.4	1068.0	1050.4	1015.9	970.6	901.6	839.4	776.5	716.3	698.0	703.4
22.5°	1230.3	1227.6	1213.4	1174.9	1135.6	1071.4	992.3	904.3	817.1	761.6	732.5
25°	1281.7	1279.7	1266.9	1243.9	1222.2	1173.5	1102.5	1013.9	922.6	845.5	772.4
27.5°	1320.3	1317.6	1297.3	1271.6	1249.3	1199.9	1135.0	1068.0	984.1	880.0	767.7
30°	1404.2	1396.7	1368.3	1322.3	1279.7	1211.4	1139.7	1056.5	942.9	828.6	719.0
32.5°	1439.3	1435.3	1410.9	1373.7	1327.1	1237.8	1128.9	989.5	840.1	741.3	661.5
35°	1431.9	1425.8	1400.8	1358.2	1301.4	1215.5	1070.0	878.6	756.9	687.9	597.9
37.5°	1409.6	1400.8	1371.0	1321.0	1252.0	1139.7	949.6	788.7	710.2	632.4	511.3
40°	1355.5	1341.3	1306.8	1254.7	1185.7	1038.2	840.1	734.6	661.5	554.0	414.6
42.5°	1148.5	1141.1	1158.0	1149.2	1088.3	914.5	762.3	685.2	584.4	447.8	300.3
45°	756.2	769.0	799.5	851.6	863.7	786.6	698.7	604.0	480.9	331.4	173.2
47.5°	700.1	697.3	704.8	714.9	717.0	684.5	604.7	499.2	357.1	189.4	48.0
50°	692.6	688.6	682.5	670.3	644.6	581.7	491.1	363.9	206.3	52.1	3.4
52.5°	547.2	543.1	543.1	525.5	492.4	431.5	338.9	200.2	57.5	3.4	2.7
55°	182.6	194.8	192.8	192.1	207.0	190.7	146.1	51.4	4.7	2.7	2.7
57.5°	3.4	3.4	3.4	6.1	9.5	13.5	8.1	4.1	2.7	2.7	2.7
60°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0
77.5°	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
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: P1316290

CATALOG NUMBER: P3SQAS13R509827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	571.5	562.1	543.8	491.7	434.2	368.6	324.0	318.6
5°	622.9	608.7	579.0	472.8	341.6	227.3	169.1	147.5
7.5°	656.8	637.8	601.3	441.7	248.9	119.7	64.3	51.4
10°	677.1	659.5	612.8	395.0	158.3	47.3	21.6	20.3
12.5°	687.9	671.0	616.9	338.9	89.3	21.6	16.9	16.9
15°	695.3	677.1	610.8	273.9	44.6	16.2	15.6	15.6
17.5°	698.7	676.4	593.2	206.3	23.7	14.9	14.9	14.9
20°	700.7	668.9	560.7	140.7	16.2	13.5	14.2	14.2
22.5°	702.8	650.7	518.1	89.3	12.9	12.9	13.5	13.5
25°	698.7	618.9	457.9	54.1	11.5	12.2	12.9	13.5
27.5°	669.6	570.9	384.9	33.1	10.1	11.5	12.9	13.5
30°	619.6	500.5	300.3	21.0	9.5	11.5	12.9	13.5
32.5°	554.6	420.0	214.4	12.9	9.5	11.5	12.9	13.5
35°	467.4	321.3	139.3	8.8	9.5	11.5	13.5	14.2
37.5°	369.3	224.6	75.1	6.8	9.5	11.5	13.5	14.2
40°	265.8	134.6	27.1	6.1	8.8	12.2	14.2	14.9
42.5°	155.6	50.1	4.7	5.4	8.8	12.2	14.2	14.9
45°	44.6	5.4	2.7	5.4	8.8	12.2	14.9	15.6
47.5°	3.4	2.0	2.7	5.4	8.8	12.2	14.9	16.2
50°	2.0	2.0	2.0	5.4	8.8	12.9	15.6	16.2
52.5°	2.7	2.7	2.7	5.4	8.8	12.9	15.6	16.2
55°	2.7	2.7	2.7	5.4	8.8	12.9	15.6	16.2
57.5°	2.7	2.7	2.7	5.4	8.8	12.2	15.6	16.2
60°	2.7	2.7	2.7	4.7	8.1	12.2	14.9	15.6
62.5°	2.7	2.7	2.7	4.7	8.1	11.5	14.9	14.9
65°	2.7	2.7	2.7	4.1	7.4	10.8	13.5	14.2
67.5°	2.7	2.7	2.7	4.1	6.8	10.1	12.9	13.5
70°	2.0	2.7	2.7	3.4	6.1	9.5	12.2	12.9
72.5°	2.0	2.0	2.7	3.4	5.4	8.1	10.8	11.5
75°	2.0	2.0	2.0	2.7	4.7	7.4	9.5	10.1
77.5°	2.0	2.0	2.0	2.7	4.1	6.1	8.8	8.8
80°	1.4	2.0	2.0	2.0	3.4	4.7	6.8	7.4
82.5°	1.4	1.4	1.4	2.0	2.7	4.1	5.4	5.4
85°	1.4	1.4	1.4	1.4	2.0	2.7	3.4	3.4
87.5°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)