

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: P1317186

Luminaire Tested: P3SQAS13R609830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317186
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: P3SQAS13R609830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

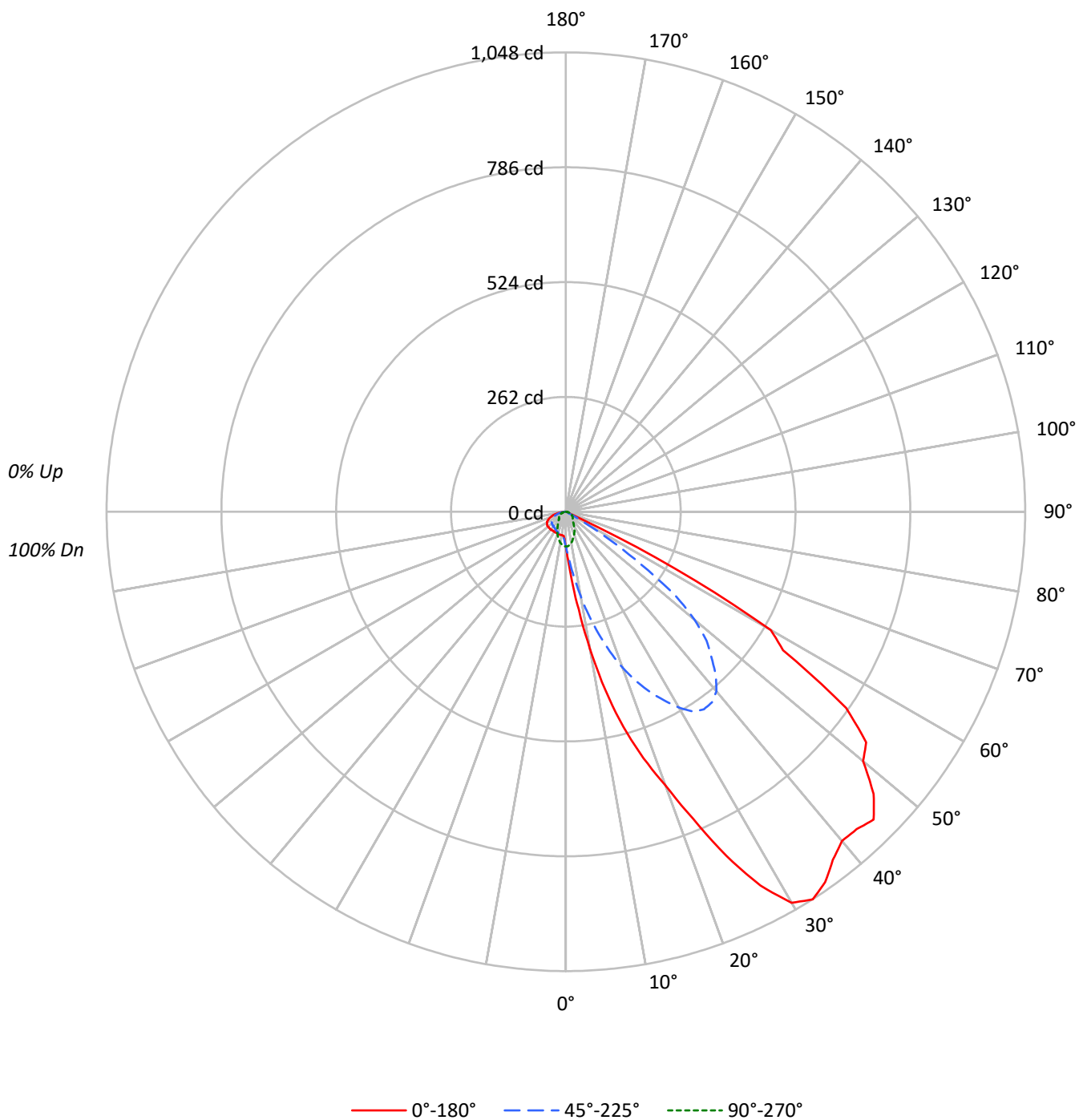
Lumens per Lamp: N/A
Luminaire Lumens: 798.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1317186

CATALOG NUMBER: P3SQAS13R609830DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317186

CATALOG NUMBER: P3SQAS13R609830DE010 E3SQCA451MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13623	13623	13623	13623	13623
5°	26831	20936	13416	10165	9664
10°	55437	34119	12556	9269	9391
15°	90665	51225	11251	9307	9575
20°	121640	69406	10098	9310	9714
25°	164582	86158	8817	9235	10071
30°	204851	102575	7358	9227	10540
35°	216868	115593	6244	9461	10975
40°	220324	120189	5710	9780	11915
45°	241879	114497	5480	10424	12909
50°	237119	102618	5439	11066	14200
55°	234354	62935	5435	11980	15674
60°	185897	14983	5752	12744	16981
65°	11818	2649	5624	13000	18338
70°	2568	2921	5489	13495	19336
75°	2396	2928	4858	13042	19763
80°	2182	2876	5058	12992	18745
85°	1383	2964	5730	11461	18575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 255295 cd/sqm

TEST NUMBER: P1317186

CATALOG NUMBER: P3SQAS13R609830DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	1.2
10°-20°	49.7	6.2
20°-30°	115.4	14.5
30°-40°	179.4	22.5
40°-50°	204.4	25.6
50°-60°	172.1	21.6
60°-70°	49.9	6.3
70°-80°	12.8	1.6
80°-90°	4.3	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°	175.0	21.9
0°-40°	354.4	44.4
0°-60°	730.9	91.6
0°-90°	798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	798.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	155	121	78	59	56	20
15°	508	287	63	52	54	147
25°	866	453	46	49	53	402
35°	1032	550	30	45	52	641
45°	993	470	22	43	53	747
55°	780	210	18	40	52	657
65°	29	6	14	32	45	144
75°	4	4	7	20	30	4
85°	1	2	3	6	9	1
90°	0	0	0	0	0	

TEST NUMBER: P1317186

CATALOG NUMBER: P3SQAS13R609830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
2.5°	106.6	105.9	105.9	105.2	104.5	103.7	101.6	100.8	96.5	87.8	79.1
5°	155.2	154.5	152.3	151.6	148.0	142.9	137.8	132.7	121.1	96.5	77.6
7.5°	224.9	226.3	224.9	216.9	211.8	203.8	188.6	177.7	154.5	105.2	74.7
10°	317.0	317.0	314.8	302.5	291.6	276.4	256.8	237.9	195.1	113.2	71.8
12.5°	417.1	419.3	408.4	398.2	378.7	359.8	333.0	304.7	241.6	119.7	68.2
15°	508.5	507.0	496.2	483.1	462.8	436.7	408.4	372.1	287.3	124.0	63.1
17.5°	589.7	586.8	577.4	562.9	538.2	509.2	473.0	433.8	334.4	127.7	59.5
20°	663.7	653.6	642.7	627.5	603.5	573.1	535.3	491.1	378.7	127.7	55.1
22.5°	757.3	747.2	731.9	708.7	676.8	639.1	594.8	544.8	417.8	124.8	50.8
25°	866.1	858.1	832.0	802.3	760.9	716.0	664.5	597.0	453.4	120.4	46.4
27.5°	961.1	952.4	926.3	882.8	832.8	779.1	724.7	655.8	484.6	112.4	41.3
30°	1030.1	1019.2	998.9	957.5	896.6	831.3	766.7	700.7	515.8	103.0	37.0
32.5°	1048.2	1046.7	1031.5	1001.0	946.6	874.8	797.9	726.1	540.4	90.7	33.4
35°	1031.5	1033.7	1030.8	1015.5	975.7	905.3	818.2	739.9	549.8	78.3	29.7
37.5°	1001.0	1003.9	1009.0	1011.2	985.8	923.4	829.8	745.7	547.7	66.0	27.6
40°	980.0	978.6	978.6	993.1	988.0	931.4	831.3	741.4	534.6	53.0	25.4
42.5°	982.2	966.2	955.3	978.6	985.8	927.8	821.9	729.7	506.3	40.6	23.2
45°	993.1	959.0	940.1	969.8	981.5	915.4	804.5	712.3	470.1	28.3	22.5
47.5°	952.4	930.0	927.1	969.1	973.5	894.4	777.6	684.8	435.2	19.6	21.0
50°	885.0	881.4	896.6	940.1	940.8	859.6	747.2	634.7	383.0	13.8	20.3
52.5°	863.9	866.1	879.9	902.4	881.4	800.8	692.0	592.6	317.0	10.9	19.6
55°	780.5	784.1	797.2	811.0	795.8	729.0	625.3	541.9	209.6	10.2	18.1
57.5°	587.6	597.0	620.9	633.3	634.7	594.1	566.5	467.2	118.2	10.2	17.4
60°	539.7	527.4	516.5	491.1	467.9	462.8	465.7	350.4	43.5	9.4	16.7
62.5°	282.2	276.4	293.1	303.9	306.8	322.8	301.8	185.0	9.4	9.4	15.2
65°	29.0	29.0	35.5	47.2	78.3	104.5	99.4	53.7	6.5	8.7	13.8
67.5°	8.7	8.7	8.7	10.2	13.1	13.1	10.9	8.0	6.5	8.0	12.3
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.8	5.1	5.8	7.3	10.9
72.5°	4.4	4.4	4.4	4.4	5.1	5.1	5.1	5.1	5.1	6.5	9.4
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.4	4.4	5.1	7.3
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.6	3.6	3.6	4.4	5.8
80°	2.2	2.2	2.2	2.2	2.2	2.9	2.9	2.9	2.9	3.6	5.1
82.5°	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.9	3.6
85°	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.9
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2
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: P1317186

CATALOG NUMBER: P3SQAS13R609830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	79.1	79.1	79.1	79.1
2.5°	71.8	66.7	63.8	62.4
5°	65.3	58.8	56.6	55.9
7.5°	59.5	55.1	54.4	54.4
10°	55.9	53.0	53.7	53.7
12.5°	53.7	53.0	53.7	54.4
15°	51.5	52.2	53.7	53.7
17.5°	50.1	51.5	53.0	53.7
20°	47.9	50.8	53.0	53.0
22.5°	46.4	50.1	52.2	53.0
25°	45.0	48.6	51.5	53.0
27.5°	42.8	47.9	51.5	52.2
30°	40.6	46.4	50.8	53.0
32.5°	38.4	45.7	50.8	52.2
35°	37.0	45.0	50.8	52.2
37.5°	35.5	44.2	50.8	53.0
40°	34.8	43.5	50.1	53.0
42.5°	33.4	43.5	50.1	53.0
45°	32.6	42.8	50.1	53.0
47.5°	31.9	42.1	50.1	53.0
50°	30.5	41.3	49.3	53.0
52.5°	29.7	40.6	49.3	53.0
55°	28.3	39.9	48.6	52.2
57.5°	27.6	38.4	47.9	50.8
60°	26.1	37.0	46.4	49.3
62.5°	23.9	34.8	44.2	47.9
65°	21.8	31.9	42.1	45.0
67.5°	19.6	29.7	39.2	42.1
70°	17.4	26.8	35.5	38.4
72.5°	15.2	23.2	31.9	34.1
75°	13.1	19.6	26.8	29.7
77.5°	10.2	16.0	22.5	24.7
80°	8.0	13.1	17.4	18.9
82.5°	6.5	9.4	13.1	13.8
85°	4.4	5.8	8.0	9.4
87.5°	2.2	2.9	3.6	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)