

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: P1317339

Luminaire Tested: P3SQAS17R659830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R659830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

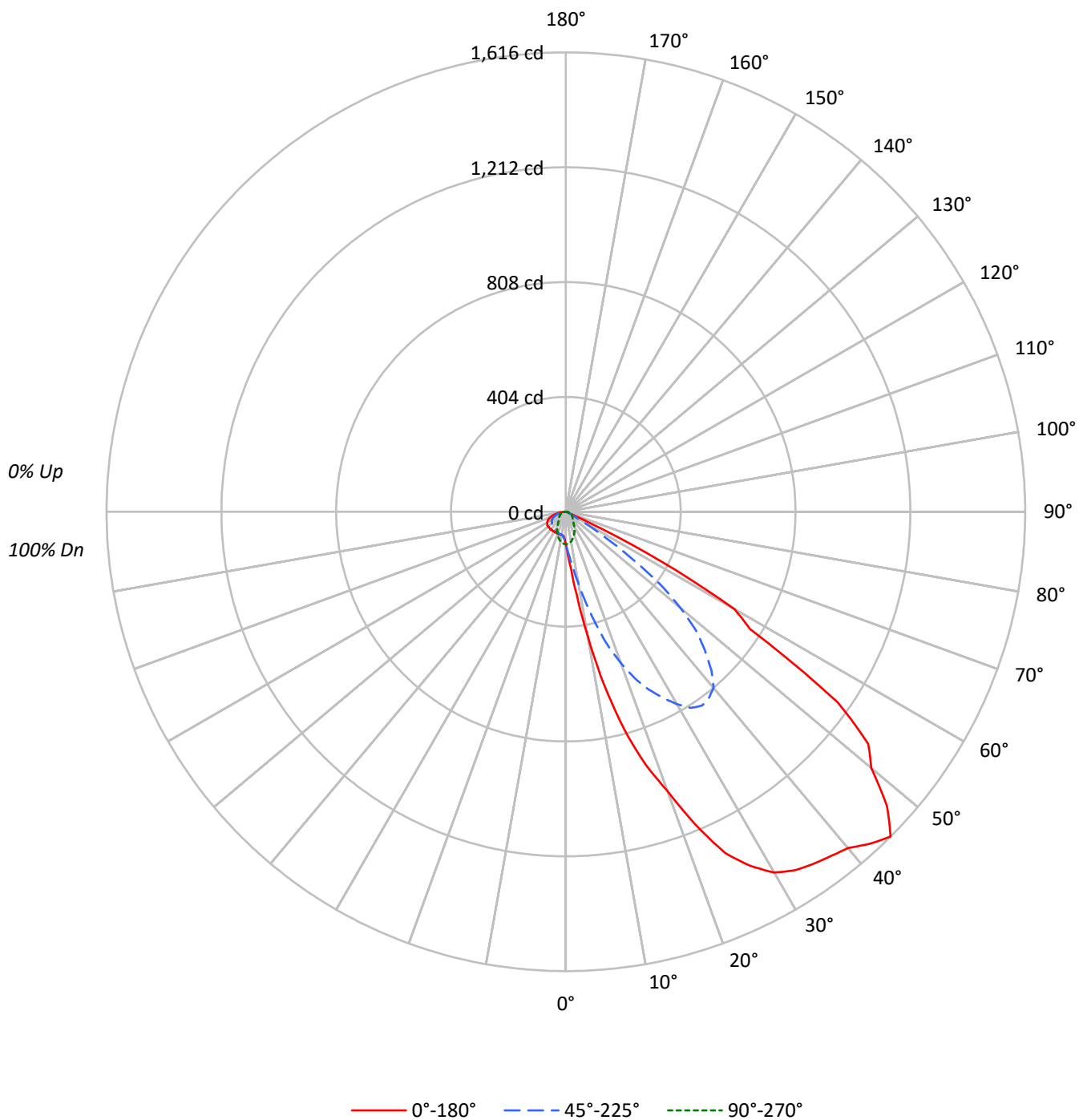
Lumens per Lamp: N/A
Luminaire Lumens: 1172.1 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1317339

CATALOG NUMBER: P3SQAS17R659830DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317339

CATALOG NUMBER: P3SQAS17R659830DE010 E3SQCA451MMS

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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19633	19633	19633	19633	19633
5°	34334	28041	19293	15646	15041
10°	77681	45206	18502	14393	14585
15°	141212	72710	17188	14460	14870
20°	191468	103807	15505	14424	15084
25°	251671	131080	13625	14062	15411
30°	291418	155413	11693	14020	16128
35°	318227	175176	9882	14339	17051
40°	347146	181768	8723	15063	18233
45°	393544	168568	8305	16026	19753
50°	375934	140744	8199	17014	21729
55°	350375	79029	8467	18346	23991
60°	235979	17016	8508	19427	25902
65°	36391	4320	8150	20131	28241
70°	4129	4129	7704	20696	30162
75°	3926	3926	7053	20362	30476
80°	3471	4661	7042	18646	30349
85°	2371	4742	6916	18575	27862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 393544 cd/sqm

TEST NUMBER: P1317339

CATALOG NUMBER: P3SQAS17R659830DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	1.2
10°-20°	74.5	6.4
20°-30°	175.1	14.9
30°-40°	264.5	22.6
40°-50°	304.1	25.9
50°-60°	241.4	20.6
60°-70°	72.3	6.2
70°-80°	19.7	1.7
80°-90°	6.6	0.6
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°	263.4	22.5
0°-40°	528.0	45.0
0°-60°	1073.5	91.6
0°-90°	1172.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1172.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	114	114	114	114	114	
5°	199	162	112	90	87	27
15°	792	408	96	81	83	228
25°	1324	690	72	74	81	604
35°	1514	833	47	68	81	950
45°	1616	692	34	66	81	1200
55°	1167	263	28	61	80	961
65°	89	11	20	49	69	200
75°	6	6	11	31	46	6
85°	1	2	4	9	14	2
90°	0	0	0	0	0	

TEST NUMBER: P1317339

CATALOG NUMBER: P3SQAS17R659830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
2.5°	144.5	145.7	144.5	144.5	143.4	142.2	134.0	124.6	114.0	105.8	99.9
5°	198.6	199.8	196.2	196.2	193.9	190.4	162.2	135.1	111.6	98.7	90.5
7.5°	293.8	298.5	292.6	285.6	272.6	270.3	202.1	145.7	109.3	91.7	84.6
10°	444.2	440.7	434.8	420.7	398.4	387.8	258.5	156.3	105.8	87.0	82.3
12.5°	626.3	616.9	609.9	584.0	553.5	535.9	329.0	165.7	101.1	82.3	81.1
15°	792.0	785.0	768.5	743.9	706.2	692.1	407.8	171.6	96.4	78.7	81.1
17.5°	931.9	924.8	915.4	890.7	852.0	830.8	495.9	175.1	90.5	76.4	79.9
20°	1044.7	1040.0	1027.1	1007.1	968.3	948.3	566.4	175.1	84.6	74.0	78.7
22.5°	1190.4	1179.8	1163.4	1134.0	1085.8	1055.3	633.4	171.6	78.7	71.7	76.4
25°	1324.4	1317.3	1296.2	1260.9	1209.2	1178.6	689.8	164.5	71.7	68.2	74.0
27.5°	1404.3	1399.6	1379.6	1343.2	1285.6	1262.1	736.8	153.9	64.6	64.6	72.9
30°	1465.4	1456.0	1436.0	1400.7	1342.0	1313.8	781.5	141.0	58.8	61.1	70.5
32.5°	1495.9	1492.4	1474.8	1444.2	1386.6	1354.9	817.9	124.6	51.7	58.8	69.3
35°	1513.6	1510.0	1495.9	1466.6	1412.5	1381.9	833.2	109.3	47.0	56.4	68.2
37.5°	1527.7	1524.1	1506.5	1477.1	1423.1	1391.3	826.1	92.8	42.3	54.1	67.0
40°	1544.1	1531.2	1504.2	1474.8	1425.4	1394.9	808.5	77.6	38.8	52.9	67.0
42.5°	1584.1	1539.4	1497.1	1470.1	1423.1	1387.8	758.0	61.1	35.3	50.5	65.8
45°	1615.8	1537.1	1483.0	1461.9	1413.7	1373.7	692.1	44.7	34.1	49.4	65.8
47.5°	1532.4	1484.2	1459.5	1447.8	1396.0	1352.6	624.0	30.6	32.9	48.2	64.6
50°	1403.1	1397.2	1387.8	1389.0	1342.0	1306.7	525.3	21.2	30.6	47.0	63.5
52.5°	1340.8	1333.8	1317.3	1305.6	1258.6	1228.0	416.0	16.5	29.4	45.8	62.3
55°	1166.9	1171.6	1154.0	1161.0	1146.9	1131.6	263.2	15.3	28.2	43.5	61.1
57.5°	768.5	792.0	833.2	882.5	927.2	957.7	142.2	15.3	25.9	42.3	58.8
60°	685.1	679.2	678.0	687.4	707.4	723.9	49.4	14.1	24.7	38.8	56.4
62.5°	374.9	372.5	407.8	467.7	503.0	506.5	14.1	14.1	22.3	36.4	52.9
65°	89.3	92.8	103.4	129.3	152.8	168.0	10.6	12.9	20.0	34.1	49.4
67.5°	14.1	15.3	15.3	18.8	21.2	21.2	9.4	11.8	17.6	30.6	45.8
70°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.6	15.3	27.0	41.1
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	8.2	9.4	12.9	23.5	35.3
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	8.2	10.6	18.8	30.6
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	5.9	7.1	9.4	15.3	24.7
80°	3.5	3.5	3.5	3.5	3.5	3.5	4.7	5.9	7.1	11.8	18.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.5	4.7	5.9	9.4	14.1
85°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.5	3.5	5.9	9.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.5	4.7
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: P1317339

CATALOG NUMBER: P3SQAS17R659830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	114.0	114.0
2.5°	96.4	95.2
5°	87.0	87.0
7.5°	83.4	83.4
10°	82.3	83.4
12.5°	82.3	83.4
15°	82.3	83.4
17.5°	82.3	83.4
20°	81.1	82.3
22.5°	79.9	81.1
25°	78.7	81.1
27.5°	77.6	81.1
30°	77.6	81.1
32.5°	77.6	81.1
35°	76.4	81.1
37.5°	76.4	81.1
40°	76.4	81.1
42.5°	76.4	81.1
45°	76.4	81.1
47.5°	76.4	81.1
50°	76.4	81.1
52.5°	75.2	81.1
55°	75.2	79.9
57.5°	72.9	77.6
60°	70.5	75.2
62.5°	68.2	72.9
65°	64.6	69.3
67.5°	61.1	64.6
70°	55.2	59.9
72.5°	49.4	52.9
75°	42.3	45.8
77.5°	35.3	38.8
80°	28.2	30.6
82.5°	20.0	22.3
85°	12.9	14.1
87.5°	5.9	5.9
90°	0.0	0.0

(END OF REPORT)