

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: P1307122

Luminaire Tested: P3SQAS17R659027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307122
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: P3SQAS17R659027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

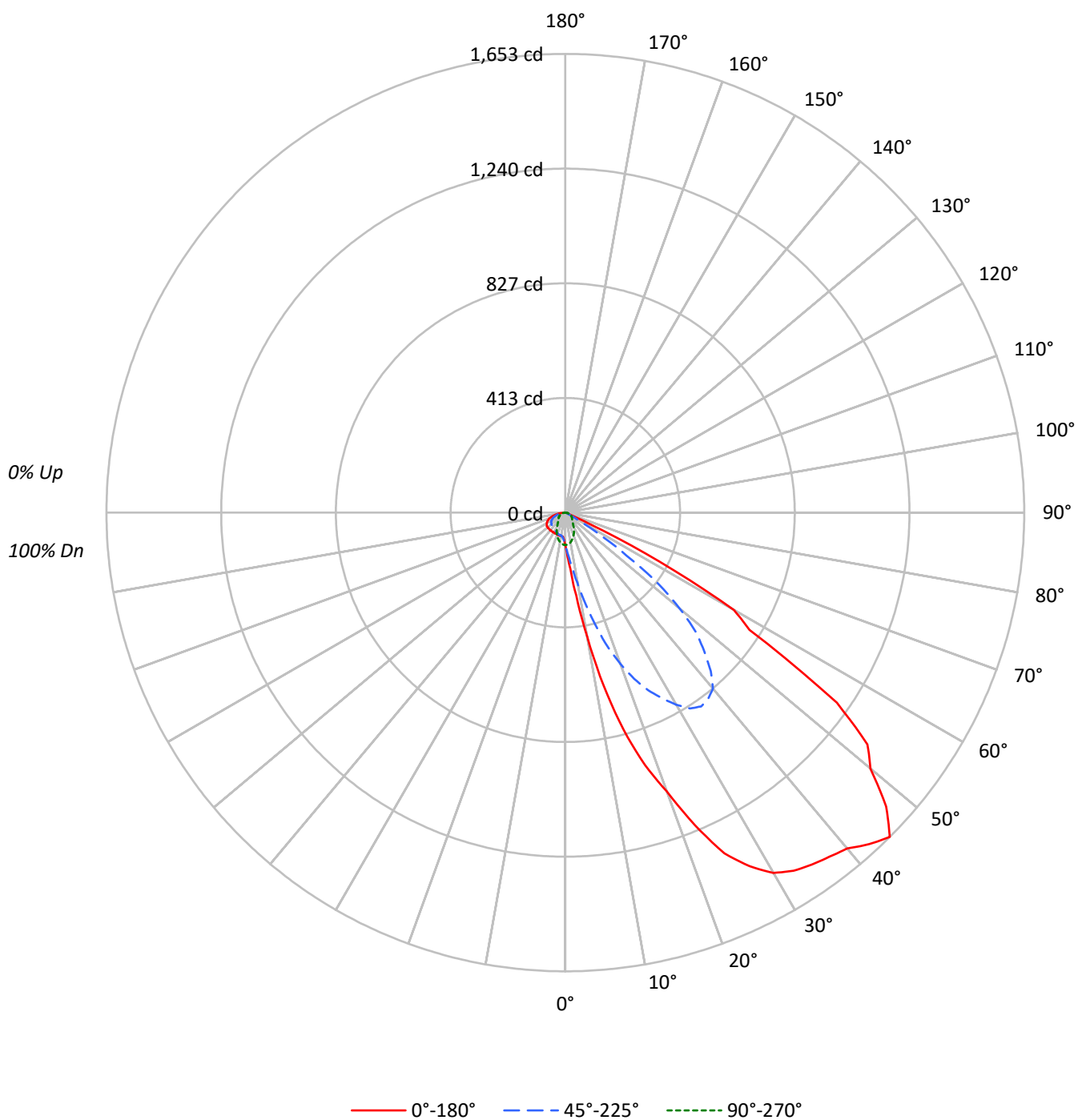
Lumens per Lamp: N/A
Luminaire Lumens: 1199.0 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1307122

CATALOG NUMBER: P3SQAS17R659027DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1307122

CATALOG NUMBER: P3SQAS17R659027DE010 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	94	91	92	90	89	87	87	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	53	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20081	20081	20081	20081	20081
5°	35129	28681	19743	16009	15386
10°	79465	46256	18922	14725	14935
15°	144475	74386	17580	14799	15227
20°	195885	106208	15872	14754	15432
25°	257467	134102	13929	14385	15772
30°	298119	158993	11952	14338	16506
35°	325543	179213	10113	14654	17450
40°	355149	185949	8925	15400	18660
45°	402604	172465	8500	16392	20215
50°	384588	143986	8386	17389	22238
55°	358452	80860	8678	18766	24531
60°	241422	17394	8680	19874	26488
65°	37247	4401	8313	20579	28893
70°	4230	4230	7855	21199	30867
75°	3993	3993	7187	20828	31208
80°	3570	4761	7141	19042	31043
85°	2371	4742	7114	18970	28455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 402604 cd/sqm

TEST NUMBER: P1307122

CATALOG NUMBER: P3SQAS17R659027DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	1.2
10°-20°	76.2	6.4
20°-30°	179.1	14.9
30°-40°	270.6	22.6
40°-50°	311.1	25.9
50°-60°	247.0	20.6
60°-70°	74.0	6.2
70°-80°	20.1	1.7
80°-90°	6.7	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°	269.5	22.5
0°-40°	540.1	45.0
0°-60°	1098.2	91.6
0°-90°	1199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	117	117	117	117	117	
5°	203	166	114	93	89	27
15°	810	417	99	83	85	233
25°	1355	706	73	76	83	618
35°	1548	852	48	70	83	972
45°	1653	708	35	67	83	1228
55°	1194	269	29	62	82	984
65°	91	11	20	50	71	205
75°	6	6	11	31	47	6
85°	1	2	4	10	14	2
90°	0	0	0	0	0	

TEST NUMBER: P1307122

CATALOG NUMBER: P3SQAS17R659027DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6
2.5°	147.9	149.1	147.9	147.9	146.7	145.5	137.1	127.4	116.6	108.2	102.2
5°	203.2	204.4	200.8	200.8	198.4	194.8	165.9	138.3	114.2	101.0	92.6
7.5°	300.5	305.4	299.3	292.1	278.9	276.5	206.8	149.1	111.8	93.8	86.6
10°	454.4	450.8	444.8	430.4	407.5	396.7	264.5	159.9	108.2	89.0	84.2
12.5°	640.8	631.2	623.9	597.5	566.2	548.2	336.6	169.5	103.4	84.2	83.0
15°	810.3	803.1	786.2	761.0	722.5	708.1	417.2	175.5	98.6	80.5	83.0
17.5°	953.3	946.1	936.5	911.3	871.6	850.0	507.3	179.1	92.6	78.1	81.7
20°	1068.8	1063.9	1050.7	1030.3	990.6	970.2	579.5	179.1	86.6	75.7	80.5
22.5°	1217.8	1207.0	1190.2	1160.1	1110.8	1079.6	648.0	175.5	80.5	73.3	78.1
25°	1354.9	1347.7	1326.0	1290.0	1237.1	1205.8	705.7	168.3	73.3	69.7	75.7
27.5°	1436.6	1431.8	1411.4	1374.1	1315.2	1291.2	753.8	157.5	66.1	66.1	74.5
30°	1499.1	1489.5	1469.1	1433.0	1372.9	1344.1	799.5	144.3	60.1	62.5	72.1
32.5°	1530.4	1526.8	1508.8	1477.5	1418.6	1386.1	836.7	127.4	52.9	60.1	70.9
35°	1548.4	1544.8	1530.4	1500.3	1445.0	1413.8	852.4	111.8	48.1	57.7	69.7
37.5°	1562.9	1559.2	1541.2	1511.2	1455.9	1423.4	845.1	95.0	43.3	55.3	68.5
40°	1579.7	1566.5	1538.8	1508.8	1458.3	1427.0	827.1	79.3	39.7	54.1	68.5
42.5°	1620.6	1574.9	1531.6	1503.9	1455.9	1419.8	775.4	62.5	36.1	51.7	67.3
45°	1653.0	1572.5	1517.2	1495.5	1446.2	1405.4	708.1	45.7	34.9	50.5	67.3
47.5°	1567.7	1518.4	1493.1	1481.1	1428.2	1383.7	638.4	31.3	33.7	49.3	66.1
50°	1435.4	1429.4	1419.8	1421.0	1372.9	1336.8	537.4	21.6	31.3	48.1	64.9
52.5°	1371.7	1364.5	1347.7	1335.6	1287.6	1256.3	425.6	16.8	30.1	46.9	63.7
55°	1193.8	1198.6	1180.6	1187.8	1173.3	1157.7	269.3	15.6	28.9	44.5	62.5
57.5°	786.2	810.3	852.4	902.8	948.5	979.8	145.5	15.6	26.4	43.3	60.1
60°	700.9	694.9	693.7	703.3	723.7	740.6	50.5	14.4	25.2	39.7	57.7
62.5°	383.5	381.1	417.2	478.5	514.5	518.1	14.4	14.4	22.8	37.3	54.1
65°	91.4	95.0	105.8	132.2	156.3	171.9	10.8	13.2	20.4	34.9	50.5
67.5°	14.4	15.6	15.6	19.2	21.6	21.6	9.6	12.0	18.0	31.3	46.9
70°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	10.8	15.6	27.7	42.1
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	8.4	9.6	13.2	24.0	36.1
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.4	10.8	19.2	31.3
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	6.0	7.2	9.6	15.6	25.2
80°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	6.0	7.2	12.0	19.2
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	9.6	14.4
85°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.6	3.6	6.0	9.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.6	4.8
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: P1307122

CATALOG NUMBER: P3SQAS17R659027DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	116.6	116.6
2.5°	98.6	97.4
5°	89.0	89.0
7.5°	85.4	85.4
10°	84.2	85.4
12.5°	84.2	85.4
15°	84.2	85.4
17.5°	84.2	85.4
20°	83.0	84.2
22.5°	81.7	83.0
25°	80.5	83.0
27.5°	79.3	83.0
30°	79.3	83.0
32.5°	79.3	83.0
35°	78.1	83.0
37.5°	78.1	83.0
40°	78.1	83.0
42.5°	78.1	83.0
45°	78.1	83.0
47.5°	78.1	83.0
50°	78.1	83.0
52.5°	76.9	83.0
55°	76.9	81.7
57.5°	74.5	79.3
60°	72.1	76.9
62.5°	69.7	74.5
65°	66.1	70.9
67.5°	62.5	66.1
70°	56.5	61.3
72.5°	50.5	54.1
75°	43.3	46.9
77.5°	36.1	39.7
80°	28.9	31.3
82.5°	20.4	22.8
85°	13.2	14.4
87.5°	6.0	6.0
90°	0.0	0.0

(END OF REPORT)