

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: P1306150

Luminaire Tested: P3SQAS17R659024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306150
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: P3SQAS17R659024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

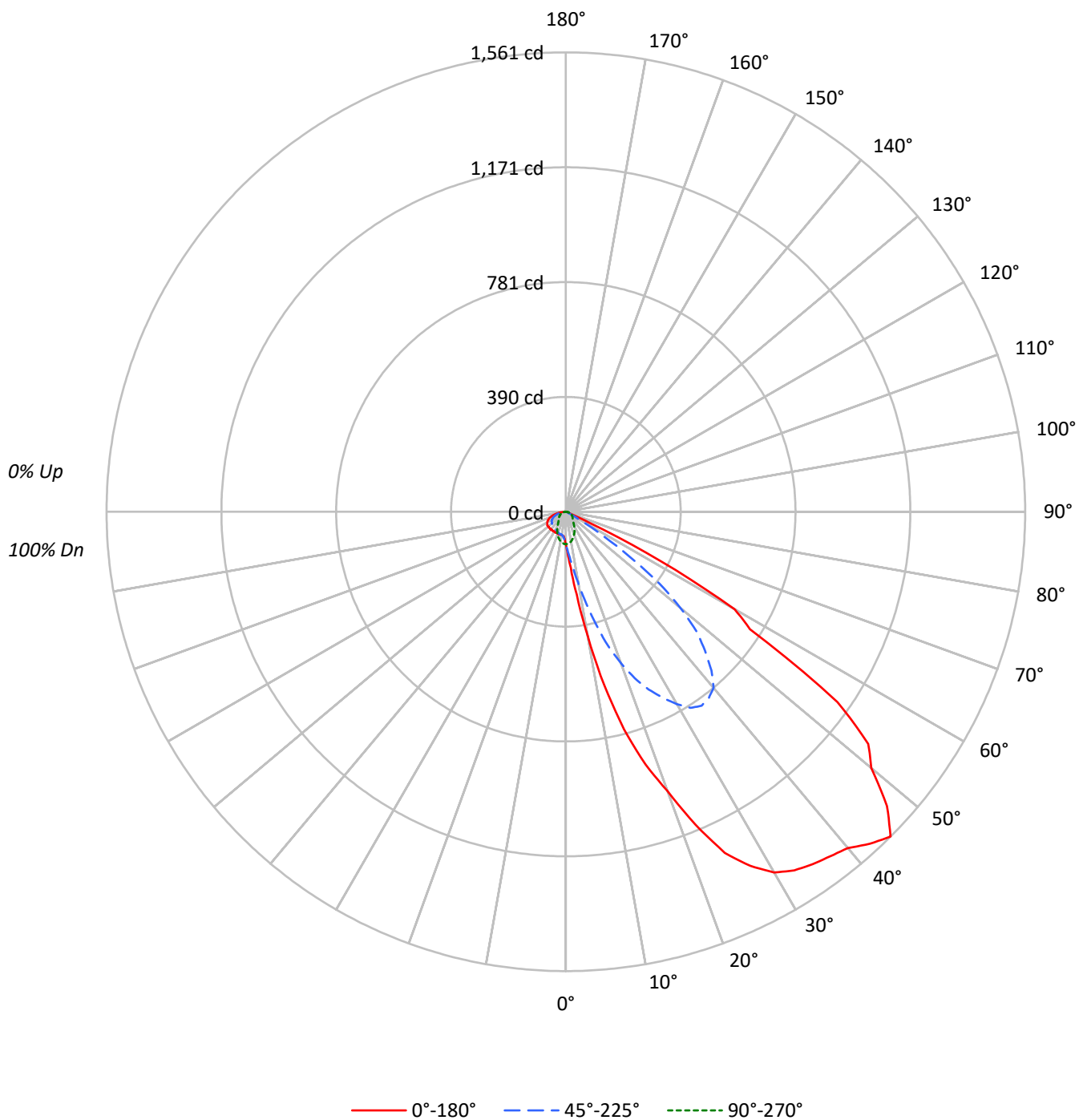
Lumens per Lamp: N/A
Luminaire Lumens: 1132.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306150

CATALOG NUMBER: P3SQAS17R659024DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306150

CATALOG NUMBER: P3SQAS17R659024DE010 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	65	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°	18962	18962	18962	18962	18962
5°	33158	27073	18637	15110	14522
10°	75023	43667	17873	13903	14095
15°	136398	70232	16600	13961	14371
20°	184925	100270	14974	13929	14570
25°	243082	126615	13150	13587	14879
30°	281474	150104	11296	13543	15571
35°	307357	169184	9545	13834	16462
40°	335298	175562	8431	14546	17603
45°	380099	162820	8013	15490	19071
50°	363100	135948	7904	16424	20979
55°	338424	76326	8167	17715	23180
60°	227919	16430	8198	18772	25007
65°	35168	4157	7865	19438	27303
70°	3978	3978	7452	19991	29155
75°	3793	3793	6787	19630	29478
80°	3372	4463	6744	18051	29258
85°	2174	4545	6719	17982	26874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 380099 cd/sqm

TEST NUMBER: P1306150

CATALOG NUMBER: P3SQAS17R659024DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	1.2
10°-20°	72.0	6.4
20°-30°	169.1	14.9
30°-40°	255.5	22.6
40°-50°	293.7	25.9
50°-60°	233.2	20.6
60°-70°	69.8	6.2
70°-80°	19.0	1.7
80°-90°	6.4	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°	254.4	22.5
0°-40°	509.9	45.0
0°-60°	1036.8	91.6
0°-90°	1132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	110	110	110	110	110	
5°	192	157	108	87	84	26
15°	765	394	93	78	81	220
25°	1279	666	69	72	78	584
35°	1462	805	45	66	78	917
45°	1561	668	33	64	78	1159
55°	1127	254	27	59	77	929
65°	86	10	19	48	67	193
75°	6	6	10	30	44	6
85°	1	2	3	9	14	2
90°	0	0	0	0	0	

TEST NUMBER: P1306150

CATALOG NUMBER: P3SQAS17R659024DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
2.5°	139.6	140.7	139.6	139.6	138.5	137.3	129.4	120.3	110.1	102.2	96.5
5°	191.8	193.0	189.5	189.5	187.3	183.9	156.6	130.5	107.8	95.3	87.4
7.5°	283.8	288.3	282.6	275.8	263.3	261.1	195.2	140.7	105.6	88.5	81.7
10°	429.0	425.6	420.0	406.3	384.8	374.6	249.7	151.0	102.2	84.0	79.5
12.5°	605.0	595.9	589.1	564.1	534.6	517.6	317.8	160.0	97.6	79.5	78.3
15°	765.0	758.2	742.3	718.5	682.1	668.5	393.9	165.7	93.1	76.0	78.3
17.5°	900.1	893.3	884.2	860.3	822.9	802.5	479.0	169.1	87.4	73.8	77.2
20°	1009.0	1004.5	992.0	972.7	935.3	916.0	547.1	169.1	81.7	71.5	76.0
22.5°	1149.8	1139.6	1123.7	1095.3	1048.8	1019.2	611.8	165.7	76.0	69.2	73.8
25°	1279.2	1272.4	1251.9	1217.9	1167.9	1138.4	666.3	158.9	69.2	65.8	71.5
27.5°	1356.3	1351.8	1332.5	1297.3	1241.7	1219.0	711.7	148.7	62.4	62.4	70.4
30°	1415.4	1406.3	1387.0	1352.9	1296.2	1268.9	754.8	136.2	56.8	59.0	68.1
32.5°	1444.9	1441.5	1424.4	1394.9	1339.3	1308.7	790.0	120.3	49.9	56.8	67.0
35°	1461.9	1458.5	1444.9	1416.5	1364.3	1334.8	804.7	105.6	45.4	54.5	65.8
37.5°	1475.5	1472.1	1455.1	1426.7	1374.5	1343.9	797.9	89.7	40.9	52.2	64.7
40°	1491.4	1478.9	1452.8	1424.4	1376.8	1347.3	780.9	74.9	37.5	51.1	64.7
42.5°	1530.0	1486.9	1446.0	1419.9	1374.5	1340.5	732.1	59.0	34.1	48.8	63.6
45°	1560.6	1484.6	1432.4	1412.0	1365.4	1326.8	668.5	43.1	32.9	47.7	63.6
47.5°	1480.1	1433.5	1409.7	1398.3	1348.4	1306.4	602.7	29.5	31.8	46.5	62.4
50°	1355.2	1349.5	1340.5	1341.6	1296.2	1262.1	507.4	20.4	29.5	45.4	61.3
52.5°	1295.1	1288.2	1272.4	1261.0	1215.6	1186.1	401.8	15.9	28.4	44.3	60.2
55°	1127.1	1131.6	1114.6	1121.4	1107.8	1093.0	254.2	14.8	27.2	42.0	59.0
57.5°	742.3	765.0	804.7	852.4	895.5	925.0	137.3	14.8	25.0	40.9	56.8
60°	661.7	656.0	654.9	664.0	683.3	699.2	47.7	13.6	23.8	37.5	54.5
62.5°	362.1	359.8	393.9	451.7	485.8	489.2	13.6	13.6	21.6	35.2	51.1
65°	86.3	89.7	99.9	124.9	147.6	162.3	10.2	12.5	19.3	32.9	47.7
67.5°	13.6	14.8	14.8	18.2	20.4	20.4	9.1	11.4	17.0	29.5	44.3
70°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.2	14.8	26.1	39.7
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	7.9	9.1	12.5	22.7	34.1
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.9	10.2	18.2	29.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	5.7	6.8	9.1	14.8	23.8
80°	3.4	3.4	3.4	3.4	3.4	3.4	4.5	5.7	6.8	11.4	18.2
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	4.5	5.7	9.1	13.6
85°	1.1	1.1	1.1	1.1	2.3	2.3	2.3	3.4	3.4	5.7	9.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	3.4	4.5
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: P1306150

CATALOG NUMBER: P3SQAS17R659024DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	110.1	110.1
2.5°	93.1	91.9
5°	84.0	84.0
7.5°	80.6	80.6
10°	79.5	80.6
12.5°	79.5	80.6
15°	79.5	80.6
17.5°	79.5	80.6
20°	78.3	79.5
22.5°	77.2	78.3
25°	76.0	78.3
27.5°	74.9	78.3
30°	74.9	78.3
32.5°	74.9	78.3
35°	73.8	78.3
37.5°	73.8	78.3
40°	73.8	78.3
42.5°	73.8	78.3
45°	73.8	78.3
47.5°	73.8	78.3
50°	73.8	78.3
52.5°	72.6	78.3
55°	72.6	77.2
57.5°	70.4	74.9
60°	68.1	72.6
62.5°	65.8	70.4
65°	62.4	67.0
67.5°	59.0	62.4
70°	53.3	57.9
72.5°	47.7	51.1
75°	40.9	44.3
77.5°	34.1	37.5
80°	27.2	29.5
82.5°	19.3	21.6
85°	12.5	13.6
87.5°	5.7	5.7
90°	0.0	0.0

(END OF REPORT)