

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: P1305978

Luminaire Tested: P3SQASS13R559024DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS13R559024DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

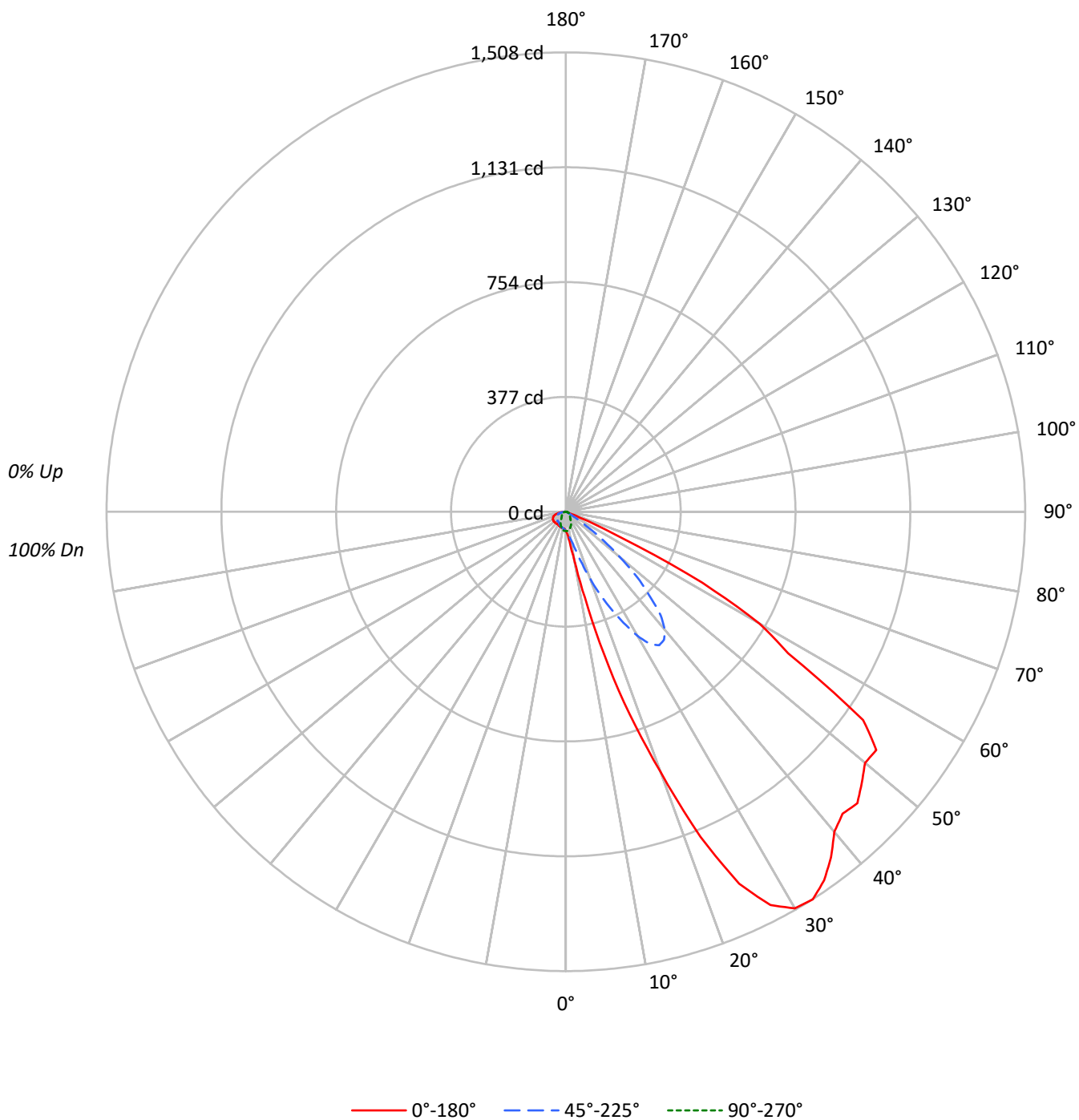
Lumens per Lamp: N/A
Luminaire Lumens: 970.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1305978

CATALOG NUMBER: P3SQASS13R559024DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1305978

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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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10781	10781	10781	10781	10781
5°	13779	12586	10822	10079	9785
10°	28033	16036	10493	9601	9601
15°	86029	24605	9789	9325	9628
20°	166341	43033	8797	9109	9585
25°	256023	66927	7658	8798	9615
30°	298955	93566	6304	8690	9884
35°	310658	112439	5235	8641	10281
40°	308297	113489	4811	9060	11174
45°	329609	93941	4603	9815	12105
50°	343541	61999	4582	10556	13557
55°	357701	27023	4624	11590	14923
60°	252685	6200	4719	12710	16843
65°	82440	2078	4523	13611	18868
70°	2568	2165	4733	14653	21602
75°	2262	2262	3993	15371	23955
80°	1686	2579	4265	15274	25489
85°	1778	3359	5138	15215	25491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 363450 cd/sqm

TEST NUMBER: P1305978

CATALOG NUMBER: P3SQASS13R559024DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.7
10°-20°	41.2	4.2
20°-30°	138.1	14.2
30°-40°	226.7	23.4
40°-50°	252.9	26.1
50°-60°	212.9	21.9
60°-70°	72.2	7.4
70°-80°	14.1	1.5
80°-90°	5.3	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°	185.9	19.2
0°-40°	412.6	42.5
0°-60°	878.4	90.6
0°-90°	970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	970.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	80	73	63	58	57	10
15°	482	138	55	52	54	153
25°	1347	352	40	46	51	606
35°	1478	535	25	41	49	917
45°	1353	386	19	40	50	1033
55°	1191	90	15	39	50	970
65°	202	5	11	33	46	274
75°	3	3	6	23	36	4
85°	1	2	3	8	13	1
90°	0	0	0	0	0	

TEST NUMBER: P1305978

CATALOG NUMBER: P3SQASS13R559024DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	68.6	68.6	68.6	68.6	68.6	68.6	67.7	65.1	63.4	60.9	60.0
5°	79.7	79.7	79.7	78.8	78.8	77.1	72.8	66.9	62.6	59.1	58.3
7.5°	102.8	102.0	100.3	99.4	96.8	96.0	80.6	68.6	61.7	57.4	56.6
10°	160.3	158.6	156.0	146.6	138.0	132.0	91.7	69.4	60.0	55.7	54.9
12.5°	288.8	285.4	272.5	252.8	228.8	216.8	109.7	70.3	57.4	54.0	54.0
15°	482.5	478.2	454.2	426.8	383.1	359.1	138.0	69.4	54.9	51.4	52.3
17.5°	696.8	684.8	659.9	623.9	564.8	536.5	180.0	67.7	51.4	49.7	51.4
20°	907.6	904.2	863.1	814.2	741.4	703.6	234.8	65.1	48.0	47.1	49.7
22.5°	1154.5	1139.9	1096.2	1043.9	943.6	893.9	294.0	61.7	44.6	44.6	48.0
25°	1347.3	1330.1	1295.9	1235.0	1139.9	1086.7	352.2	57.4	40.3	42.0	46.3
27.5°	1455.3	1435.6	1409.9	1357.6	1283.9	1236.7	410.5	52.3	36.0	39.4	44.6
30°	1503.3	1498.1	1479.3	1440.7	1373.0	1331.0	470.5	46.3	31.7	36.9	43.7
32.5°	1508.4	1511.0	1503.3	1478.4	1427.0	1391.0	515.1	41.1	28.3	35.1	42.0
35°	1477.6	1487.0	1492.1	1481.8	1448.4	1419.3	534.8	35.1	24.9	33.4	41.1
37.5°	1429.6	1446.7	1463.8	1466.4	1445.8	1427.0	529.7	30.0	23.1	32.6	41.1
40°	1371.3	1386.7	1421.9	1444.1	1437.3	1423.6	504.8	24.9	21.4	30.9	40.3
42.5°	1344.7	1348.1	1385.9	1423.6	1421.9	1410.7	461.1	19.7	19.7	30.9	40.3
45°	1353.3	1337.9	1362.7	1406.4	1403.9	1389.3	385.7	15.4	18.9	30.0	40.3
47.5°	1317.3	1295.9	1337.9	1389.3	1379.9	1358.4	318.8	11.1	18.0	29.1	39.4
50°	1282.2	1278.7	1311.3	1337.0	1324.1	1312.1	231.4	8.6	17.1	28.3	39.4
52.5°	1284.7	1278.7	1282.2	1281.3	1255.6	1242.7	158.6	6.9	16.3	27.4	39.4
55°	1191.3	1172.4	1154.5	1159.6	1161.3	1152.7	90.0	6.0	15.4	27.4	38.6
57.5°	865.6	860.5	880.2	935.9	979.6	984.8	43.7	6.0	14.6	26.6	37.7
60°	733.6	730.2	731.1	747.4	770.5	755.9	18.0	6.0	13.7	25.7	36.9
62.5°	505.7	539.1	552.8	590.5	575.1	554.5	6.9	6.9	12.9	24.0	36.0
65°	202.3	201.4	220.3	238.3	233.1	217.7	5.1	6.0	11.1	22.3	33.4
67.5°	47.1	42.9	36.9	31.7	26.6	21.4	5.1	6.0	10.3	20.6	31.7
70°	5.1	5.1	5.1	5.1	5.1	4.3	4.3	6.0	9.4	18.9	29.1
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	7.7	16.3	26.6
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.3	6.0	13.7	23.1
77.5°	2.6	2.6	2.6	3.4	2.6	3.4	3.4	4.3	5.1	11.1	19.7
80°	1.7	1.7	2.6	2.6	2.6	2.6	2.6	3.4	4.3	9.4	15.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.4	6.9	11.1
85°	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	5.1	7.7
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	3.4
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: P1305978

CATALOG NUMBER: P3SQASS13R559024DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	62.6	62.6
2.5°	59.1	59.1
5°	57.4	56.6
7.5°	55.7	55.7
10°	54.9	54.9
12.5°	54.0	54.9
15°	54.0	54.0
17.5°	52.3	53.1
20°	51.4	52.3
22.5°	50.6	51.4
25°	49.7	50.6
27.5°	48.9	49.7
30°	48.0	49.7
32.5°	47.1	48.9
35°	47.1	48.9
37.5°	47.1	49.7
40°	47.1	49.7
42.5°	47.1	49.7
45°	47.1	49.7
47.5°	47.1	49.7
50°	47.1	50.6
52.5°	47.1	50.6
55°	47.1	49.7
57.5°	46.3	49.7
60°	46.3	48.9
62.5°	45.4	48.0
65°	43.7	46.3
67.5°	42.0	45.4
70°	39.4	42.9
72.5°	36.9	39.4
75°	33.4	36.0
77.5°	29.1	30.9
80°	23.1	25.7
82.5°	18.0	19.7
85°	12.0	12.9
87.5°	5.1	6.0
90°	0.0	0.0

(END OF REPORT)