

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: P1318053

Luminaire Tested: P3SQAS13R559835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318053
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: P3SQAS13R559835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

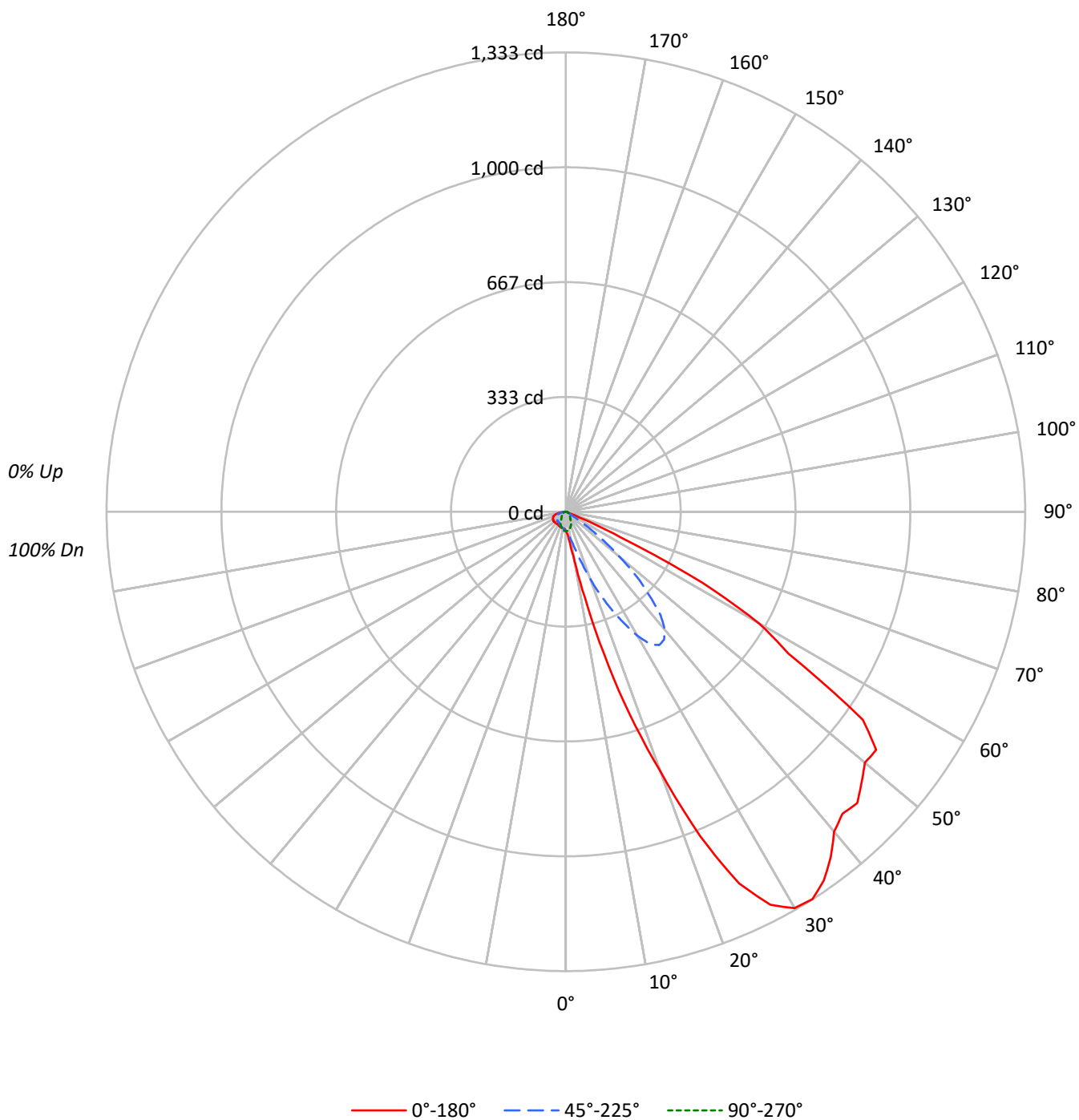
Lumens per Lamp: N/A
Luminaire Lumens: 857.0 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1318053

CATALOG NUMBER: P3SQAS13R559835DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1318053

CATALOG NUMBER: P3SQAS13R559835DE010 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	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°	9524	9524	9524	9524	9524
5°	12171	11134	9560	8903	8644
10°	24763	14165	9269	8482	8482
15°	76008	21735	8647	8237	8505
20°	146969	38030	7771	8046	8467
25°	226189	59136	6765	7772	8494
30°	264113	82668	5568	7676	8730
35°	274454	99341	4625	7632	9083
40°	272370	100270	4249	8004	9870
45°	291200	82981	4067	8671	10692
50°	303512	54765	4046	9324	11977
55°	316025	23871	4084	10239	13181
60°	223269	5477	4168	11229	14880
65°	72823	1834	3994	12022	16667
70°	2266	1913	4179	12941	19084
75°	1996	1996	3527	13575	21160
80°	1488	2281	3769	13488	22514
85°	1581	2964	4545	13437	22527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 321127 cd/sqm

TEST NUMBER: P1318053

CATALOG NUMBER: P3SQAS13R559835DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.7
10°-20°	36.4	4.2
20°-30°	122.0	14.2
30°-40°	200.3	23.4
40°-50°	223.4	26.1
50°-60°	188.1	21.9
60°-70°	63.8	7.4
70°-80°	12.5	1.5
80°-90°	4.7	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°	164.2	19.2
0°-40°	364.5	42.5
0°-60°	776.0	90.6
0°-90°	857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	857.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	70	64	55	52	50	9
15°	426	122	48	46	48	135
25°	1190	311	36	41	45	535
35°	1305	472	22	36	43	811
45°	1196	341	17	36	44	913
55°	1052	80	14	34	44	857
65°	179	4	10	30	41	242
75°	3	3	5	20	32	3
85°	1	2	2	7	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1318053

CATALOG NUMBER: P3SQAS13R559835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2.5°	60.6	60.6	60.6	60.6	60.6	60.6	59.8	57.5	56.0	53.8	53.0
5°	70.4	70.4	70.4	69.7	69.7	68.1	64.4	59.1	55.3	52.2	51.5
7.5°	90.9	90.1	88.6	87.8	85.6	84.8	71.2	60.6	54.5	50.7	50.0
10°	141.6	140.1	137.8	129.5	121.9	116.6	81.0	61.3	53.0	49.2	48.5
12.5°	255.2	252.2	240.8	223.4	202.2	191.6	96.9	62.1	50.7	47.7	47.7
15°	426.3	422.5	401.3	377.1	338.5	317.3	121.9	61.3	48.5	45.4	46.2
17.5°	615.6	605.0	583.1	551.2	499.0	474.0	159.0	59.8	45.4	43.9	45.4
20°	801.9	798.9	762.5	719.4	655.0	621.7	207.5	57.5	42.4	41.6	43.9
22.5°	1020.0	1007.1	968.5	922.3	833.7	789.8	259.7	54.5	39.4	39.4	42.4
25°	1190.3	1175.2	1144.9	1091.1	1007.1	960.1	311.2	50.7	35.6	37.1	40.9
27.5°	1285.7	1268.3	1245.6	1199.4	1134.3	1092.7	362.7	46.2	31.8	34.8	39.4
30°	1328.1	1323.6	1306.9	1272.9	1213.1	1175.9	415.7	40.9	28.0	32.6	38.6
32.5°	1332.7	1335.0	1328.1	1306.2	1260.8	1229.0	455.1	36.3	25.0	31.0	37.1
35°	1305.4	1313.8	1318.3	1309.2	1279.7	1253.9	472.5	31.0	22.0	29.5	36.3
37.5°	1263.0	1278.2	1293.3	1295.6	1277.4	1260.8	468.0	26.5	20.4	28.8	36.3
40°	1211.5	1225.2	1256.2	1275.9	1269.8	1257.7	446.0	22.0	18.9	27.3	35.6
42.5°	1188.1	1191.1	1224.4	1257.7	1256.2	1246.4	407.4	17.4	17.4	27.3	35.6
45°	1195.6	1182.0	1204.0	1242.6	1240.3	1227.4	340.7	13.6	16.7	26.5	35.6
47.5°	1163.8	1144.9	1182.0	1227.4	1219.1	1200.2	281.7	9.8	15.9	25.7	34.8
50°	1132.8	1129.8	1158.5	1181.2	1169.9	1159.3	204.4	7.6	15.1	25.0	34.8
52.5°	1135.1	1129.8	1132.8	1132.0	1109.3	1098.0	140.1	6.1	14.4	24.2	34.8
55°	1052.5	1035.9	1020.0	1024.5	1026.0	1018.4	79.5	5.3	13.6	24.2	34.1
57.5°	764.8	760.2	777.7	826.9	865.5	870.0	38.6	5.3	12.9	23.5	33.3
60°	648.2	645.1	645.9	660.3	680.7	667.9	15.9	5.3	12.1	22.7	32.6
62.5°	446.8	476.3	488.4	521.7	508.1	489.9	6.1	6.1	11.4	21.2	31.8
65°	178.7	177.9	194.6	210.5	206.0	192.3	4.5	5.3	9.8	19.7	29.5
67.5°	41.6	37.9	32.6	28.0	23.5	18.9	4.5	5.3	9.1	18.2	28.0
70°	4.5	4.5	4.5	4.5	4.5	3.8	3.8	5.3	8.3	16.7	25.7
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	6.8	14.4	23.5
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	5.3	12.1	20.4
77.5°	2.3	2.3	2.3	3.0	2.3	3.0	3.0	3.8	4.5	9.8	17.4
80°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	3.0	3.8	8.3	13.6
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.0	6.1	9.8
85°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3	4.5	6.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3	3.0
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: P1318053

CATALOG NUMBER: P3SQAS13R559835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	55.3	55.3
2.5°	52.2	52.2
5°	50.7	50.0
7.5°	49.2	49.2
10°	48.5	48.5
12.5°	47.7	48.5
15°	47.7	47.7
17.5°	46.2	46.9
20°	45.4	46.2
22.5°	44.7	45.4
25°	43.9	44.7
27.5°	43.2	43.9
30°	42.4	43.9
32.5°	41.6	43.2
35°	41.6	43.2
37.5°	41.6	43.9
40°	41.6	43.9
42.5°	41.6	43.9
45°	41.6	43.9
47.5°	41.6	43.9
50°	41.6	44.7
52.5°	41.6	44.7
55°	41.6	43.9
57.5°	40.9	43.9
60°	40.9	43.2
62.5°	40.1	42.4
65°	38.6	40.9
67.5°	37.1	40.1
70°	34.8	37.9
72.5°	32.6	34.8
75°	29.5	31.8
77.5°	25.7	27.3
80°	20.4	22.7
82.5°	15.9	17.4
85°	10.6	11.4
87.5°	4.5	5.3
90°	0.0	0.0

(END OF REPORT)