

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: P1314442

Luminaire Tested: P3SQAS13R559735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314442
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: P3SQAS13R559735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

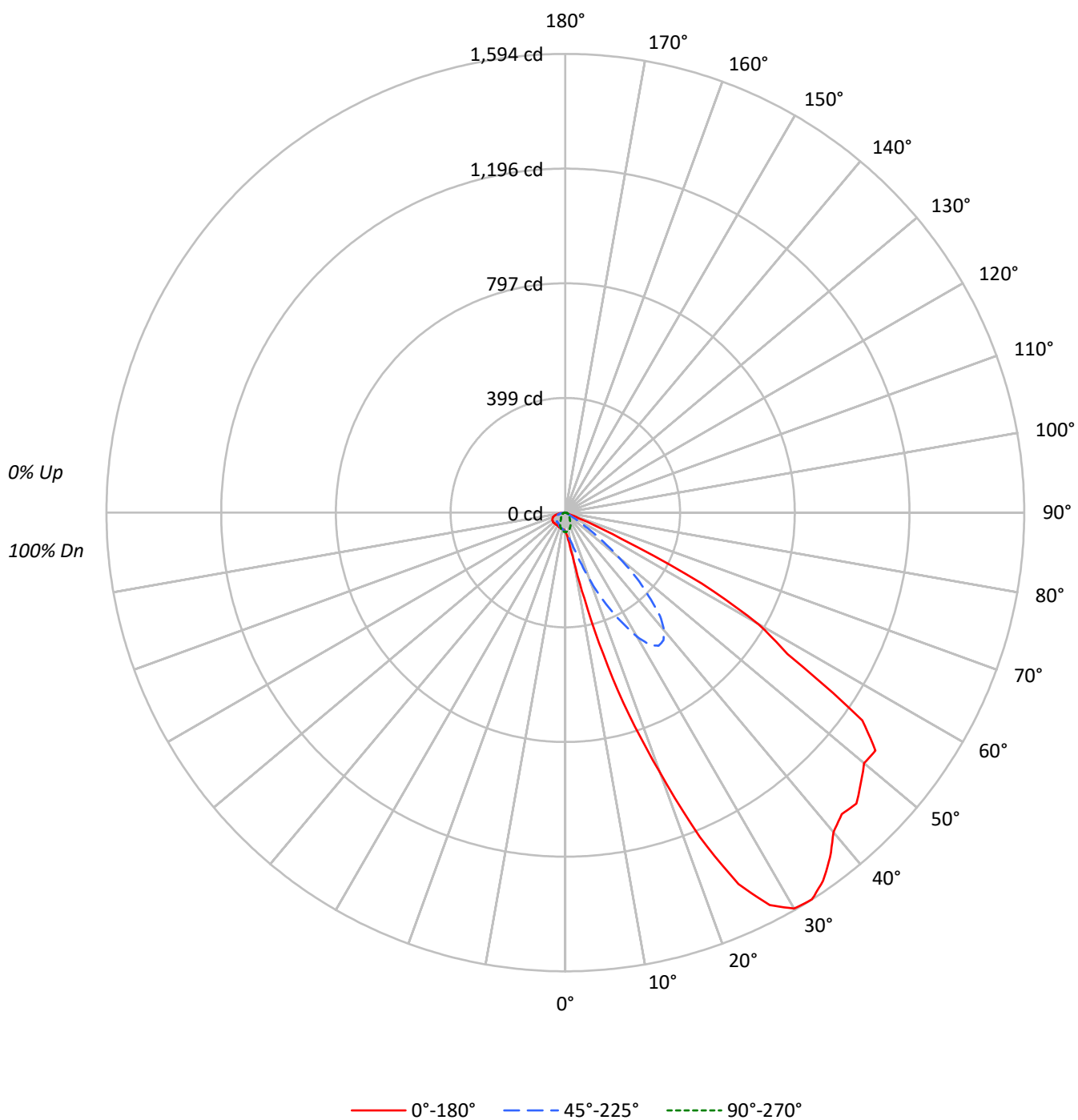
Lumens per Lamp: N/A
Luminaire Lumens: 1025.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314442

CATALOG NUMBER: P3SQAS13R559735DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314442

CATALOG NUMBER: P3SQAS13R559735DE010 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°	11384	11384	11384	11384	11384
5°	14557	13312	11427	10649	10338
10°	29625	16946	11087	10143	10143
15°	90914	25996	10341	9842	10181
20°	175780	45471	9292	9622	10117
25°	270541	70728	8095	9292	10147
30°	315898	98876	6662	9188	10440
35°	328256	118809	5529	9146	10849
40°	325765	119919	5081	9577	11803
45°	348290	99251	4847	10376	12787
50°	363020	65509	4850	11173	14308
55°	377999	28555	4894	12251	15764
60°	267014	6544	4994	13399	17773
65°	87086	2201	4809	14385	19927
70°	2719	2266	5035	15509	22811
75°	2396	2396	4192	16303	25286
80°	1785	2678	4463	16166	26977
85°	1778	3557	5335	16203	26874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 384074 cd/sqm

TEST NUMBER: P1314442

CATALOG NUMBER: P3SQAS13R559735DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.7
10°-20°	43.5	4.2
20°-30°	145.9	14.2
30°-40°	239.6	23.4
40°-50°	267.2	26.1
50°-60°	224.9	21.9
60°-70°	76.3	7.4
70°-80°	14.9	1.5
80°-90°	5.6	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°	196.4	19.2
0°-40°	436.0	42.5
0°-60°	928.2	90.6
0°-90°	1025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1025.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	84	77	66	62	60	10
15°	510	146	58	55	57	162
25°	1424	372	43	49	53	640
35°	1561	565	26	44	52	969
45°	1430	408	20	43	52	1092
55°	1259	95	16	41	52	1025
65°	214	5	12	35	49	289
75°	4	4	6	24	38	4
85°	1	2	3	8	14	1
90°	0	0	0	0	0	

TEST NUMBER: P1314442

CATALOG NUMBER: P3SQAS13R559735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	72.5	72.5	72.5	72.5	72.5	72.5	71.5	68.8	67.0	64.3	63.4
5°	84.2	84.2	84.2	83.3	83.3	81.5	77.0	70.6	66.1	62.5	61.6
7.5°	108.7	107.8	106.0	105.1	102.3	101.4	85.1	72.5	65.2	60.7	59.8
10°	169.4	167.5	164.8	154.9	145.8	139.5	96.9	73.4	63.4	58.9	58.0
12.5°	305.2	301.6	288.0	267.2	241.8	229.1	115.9	74.3	60.7	57.1	57.1
15°	509.9	505.4	480.0	451.0	404.8	379.5	145.8	73.4	58.0	54.3	55.2
17.5°	736.3	723.6	697.3	659.3	596.8	566.9	190.2	71.5	54.3	52.5	54.3
20°	959.1	955.5	912.0	860.4	783.4	743.5	248.1	68.8	50.7	49.8	52.5
22.5°	1219.9	1204.5	1158.3	1103.1	997.1	944.6	310.6	65.2	47.1	47.1	50.7
25°	1423.7	1405.6	1369.3	1305.0	1204.5	1148.4	372.2	60.7	42.6	44.4	48.9
27.5°	1537.8	1517.0	1489.8	1434.5	1356.7	1306.9	433.8	55.2	38.0	41.7	47.1
30°	1588.5	1583.1	1563.1	1522.4	1450.8	1406.5	497.2	48.9	33.5	38.9	46.2
32.5°	1593.9	1596.7	1588.5	1562.2	1507.9	1469.9	544.3	43.5	29.9	37.1	44.4
35°	1561.3	1571.3	1576.7	1565.9	1530.5	1499.8	565.1	37.1	26.3	35.3	43.5
37.5°	1510.6	1528.7	1546.8	1549.6	1527.8	1507.9	559.7	31.7	24.5	34.4	43.5
40°	1449.0	1465.3	1502.5	1526.0	1518.8	1504.3	533.4	26.3	22.6	32.6	42.6
42.5°	1421.0	1424.6	1464.4	1504.3	1502.5	1490.7	487.2	20.8	20.8	32.6	42.6
45°	1430.0	1413.7	1440.0	1486.2	1483.5	1468.1	407.5	16.3	19.9	31.7	42.6
47.5°	1392.0	1369.3	1413.7	1468.1	1458.1	1435.5	336.9	11.8	19.0	30.8	41.7
50°	1354.9	1351.2	1385.6	1412.8	1399.2	1386.5	244.5	9.1	18.1	29.9	41.7
52.5°	1357.6	1351.2	1354.9	1353.9	1326.8	1313.2	167.5	7.2	17.2	29.0	41.7
55°	1258.9	1238.9	1219.9	1225.3	1227.2	1218.1	95.1	6.3	16.3	29.0	40.8
57.5°	914.7	909.3	930.1	989.0	1035.2	1040.6	46.2	6.3	15.4	28.1	39.8
60°	775.2	771.6	772.5	789.7	814.2	798.8	19.0	6.3	14.5	27.2	38.9
62.5°	534.3	569.7	584.1	624.0	607.7	586.0	7.2	7.2	13.6	25.4	38.0
65°	213.7	212.8	232.8	251.8	246.3	230.0	5.4	6.3	11.8	23.5	35.3
67.5°	49.8	45.3	38.9	33.5	28.1	22.6	5.4	6.3	10.9	21.7	33.5
70°	5.4	5.4	5.4	5.4	5.4	4.5	4.5	6.3	10.0	19.9	30.8
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	8.2	17.2	28.1
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.5	6.3	14.5	24.5
77.5°	2.7	2.7	2.7	3.6	2.7	3.6	3.6	4.5	5.4	11.8	20.8
80°	1.8	1.8	2.7	2.7	2.7	2.7	2.7	3.6	4.5	10.0	16.3
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.6	7.2	11.8
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	2.7	5.4	8.2
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	2.7	3.6
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: P1314442

CATALOG NUMBER: P3SQAS13R559735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	66.1	66.1
2.5°	62.5	62.5
5°	60.7	59.8
7.5°	58.9	58.9
10°	58.0	58.0
12.5°	57.1	58.0
15°	57.1	57.1
17.5°	55.2	56.2
20°	54.3	55.2
22.5°	53.4	54.3
25°	52.5	53.4
27.5°	51.6	52.5
30°	50.7	52.5
32.5°	49.8	51.6
35°	49.8	51.6
37.5°	49.8	52.5
40°	49.8	52.5
42.5°	49.8	52.5
45°	49.8	52.5
47.5°	49.8	52.5
50°	49.8	53.4
52.5°	49.8	53.4
55°	49.8	52.5
57.5°	48.9	52.5
60°	48.9	51.6
62.5°	48.0	50.7
65°	46.2	48.9
67.5°	44.4	48.0
70°	41.7	45.3
72.5°	38.9	41.7
75°	35.3	38.0
77.5°	30.8	32.6
80°	24.5	27.2
82.5°	19.0	20.8
85°	12.7	13.6
87.5°	5.4	6.3
90°	0.0	0.0

(END OF REPORT)