

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: P1306134

Luminaire Tested: P3SQAS17R559024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306134
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: P3SQAS17R559024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

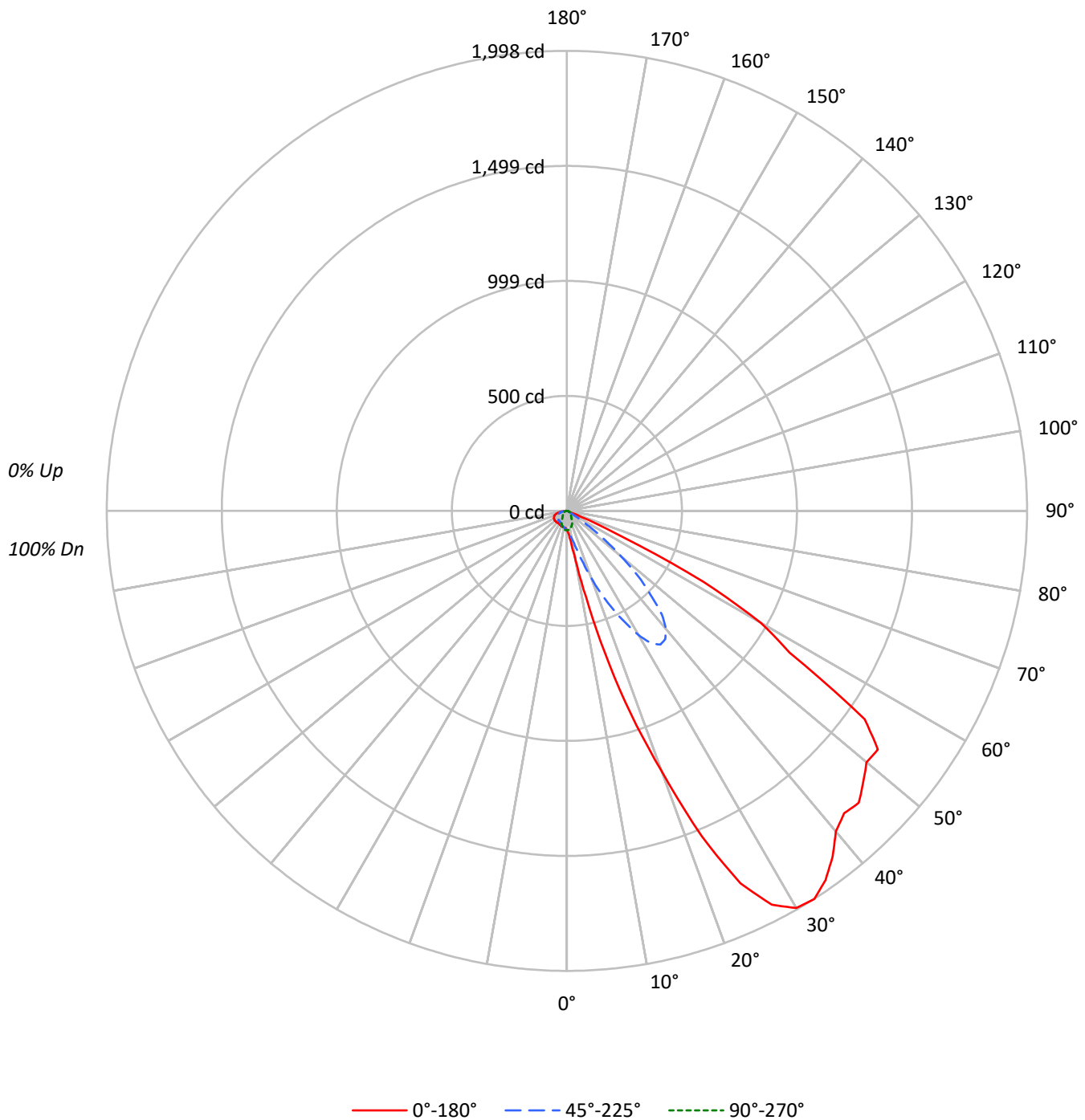
Lumens per Lamp: N/A
Luminaire Lumens: 1285.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1306134

CATALOG NUMBER: P3SQAS17R559024DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306134

CATALOG NUMBER: P3SQAS17R559024DE010 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°	14277	14277	14277	14277	14277
5°	18256	16683	14332	13346	12949
10°	37127	21248	13903	12714	12714
15°	113968	32593	12962	12356	12748
20°	220370	57017	11656	12078	12701
25°	339160	88666	10147	11649	12732
30°	396021	123953	8352	11514	13105
35°	411534	148959	6917	11458	13603
40°	408409	150338	6385	12005	14816
45°	436654	124435	6089	13006	16051
50°	455081	82148	6082	13986	17951
55°	473872	35791	6125	15343	19787
60°	334766	8198	6269	16809	22286
65°	109173	2771	6031	18053	24981
70°	3424	2870	6294	19437	28601
75°	2994	2994	5257	20428	31740
80°	2281	3372	5653	20233	33820
85°	2174	4545	6719	20156	33593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 481479 cd/sqm

TEST NUMBER: P1306134

CATALOG NUMBER: P3SQAS17R559024DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.7
10°-20°	54.6	4.2
20°-30°	182.9	14.2
30°-40°	300.4	23.4
40°-50°	335.0	26.1
50°-60°	282.0	21.9
60°-70°	95.7	7.4
70°-80°	18.7	1.5
80°-90°	7.0	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°	246.2	19.2
0°-40°	546.6	42.5
0°-60°	1163.6	90.6
0°-90°	1285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	106	96	83	77	75	13
15°	639	183	73	69	72	203
25°	1785	467	53	61	67	802
35°	1957	708	33	54	65	1215
45°	1793	511	25	53	66	1369
55°	1578	119	20	51	66	1285
65°	268	7	15	44	61	363
75°	4	4	8	31	48	5
85°	1	2	3	10	17	2
90°	0	0	0	0	0	

TEST NUMBER: P1306134

CATALOG NUMBER: P3SQAS17R559024DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
2.5°	90.8	90.8	90.8	90.8	90.8	90.8	89.7	86.3	84.0	80.6	79.5
5°	105.6	105.6	105.6	104.5	104.5	102.2	96.5	88.6	82.9	78.3	77.2
7.5°	136.2	135.1	132.8	131.7	128.3	127.2	106.7	90.8	81.7	76.1	74.9
10°	212.3	210.0	206.6	194.1	182.8	174.8	121.5	92.0	79.5	73.8	72.7
12.5°	382.6	378.1	361.0	334.9	303.1	287.2	145.3	93.1	76.1	71.5	71.5
15°	639.2	633.5	601.7	565.4	507.5	475.7	182.8	92.0	72.7	68.1	69.3
17.5°	923.1	907.2	874.2	826.6	748.2	710.7	238.4	89.7	68.1	65.9	68.1
20°	1202.4	1197.8	1143.3	1078.6	982.1	932.1	311.1	86.3	63.6	62.4	65.9
22.5°	1529.3	1510.0	1452.1	1382.9	1250.0	1184.2	389.4	81.7	59.0	59.0	63.6
25°	1784.8	1762.1	1716.7	1636.1	1510.0	1439.7	466.6	76.1	53.4	55.6	61.3
27.5°	1927.9	1901.8	1867.7	1798.4	1700.8	1638.3	543.8	69.3	47.7	52.2	59.0
30°	1991.4	1984.6	1959.7	1908.6	1818.9	1763.2	623.3	61.3	42.0	48.8	57.9
32.5°	1998.3	2001.7	1991.4	1958.5	1890.4	1842.7	682.4	54.5	37.5	46.6	55.6
35°	1957.4	1969.9	1976.7	1963.1	1918.8	1880.2	708.5	46.6	32.9	44.3	54.5
37.5°	1893.8	1916.5	1939.2	1942.6	1915.4	1890.4	701.7	39.7	30.7	43.1	54.5
40°	1816.6	1837.0	1883.6	1913.1	1904.0	1885.9	668.7	32.9	28.4	40.9	53.4
42.5°	1781.4	1785.9	1835.9	1885.9	1883.6	1868.8	610.8	26.1	26.1	40.9	53.4
45°	1792.8	1772.3	1805.2	1863.1	1859.7	1840.4	510.9	20.4	25.0	39.7	53.4
47.5°	1745.1	1716.7	1772.3	1840.4	1828.0	1799.6	422.4	14.8	23.8	38.6	52.2
50°	1698.5	1694.0	1737.1	1771.2	1754.2	1738.3	306.6	11.4	22.7	37.5	52.2
52.5°	1701.9	1694.0	1698.5	1697.4	1663.3	1646.3	210.0	9.1	21.6	36.3	52.2
55°	1578.2	1553.2	1529.3	1536.2	1538.4	1527.1	119.2	7.9	20.4	36.3	51.1
57.5°	1146.7	1139.9	1166.0	1239.8	1297.7	1304.5	57.9	7.9	19.3	35.2	50.0
60°	971.9	967.3	968.5	990.0	1020.7	1001.4	23.8	7.9	18.2	34.1	48.8
62.5°	669.9	714.2	732.3	782.3	761.8	734.6	9.1	9.1	17.0	31.8	47.7
65°	267.9	266.8	291.8	315.6	308.8	288.4	6.8	7.9	14.8	29.5	44.3
67.5°	62.4	56.8	48.8	42.0	35.2	28.4	6.8	7.9	13.6	27.2	42.0
70°	6.8	6.8	6.8	6.8	6.8	5.7	5.7	7.9	12.5	25.0	38.6
72.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.8	10.2	21.6	35.2
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.7	7.9	18.2	30.7
77.5°	3.4	3.4	3.4	4.5	3.4	4.5	4.5	5.7	6.8	14.8	26.1
80°	2.3	2.3	3.4	3.4	3.4	3.4	3.4	4.5	5.7	12.5	20.4
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.5	9.1	14.8
85°	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	3.4	6.8	10.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	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: P1306134

CATALOG NUMBER: P3SQAS17R559024DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	82.9	82.9
2.5°	78.3	78.3
5°	76.1	74.9
7.5°	73.8	73.8
10°	72.7	72.7
12.5°	71.5	72.7
15°	71.5	71.5
17.5°	69.3	70.4
20°	68.1	69.3
22.5°	67.0	68.1
25°	65.9	67.0
27.5°	64.7	65.9
30°	63.6	65.9
32.5°	62.4	64.7
35°	62.4	64.7
37.5°	62.4	65.9
40°	62.4	65.9
42.5°	62.4	65.9
45°	62.4	65.9
47.5°	62.4	65.9
50°	62.4	67.0
52.5°	62.4	67.0
55°	62.4	65.9
57.5°	61.3	65.9
60°	61.3	64.7
62.5°	60.2	63.6
65°	57.9	61.3
67.5°	55.6	60.2
70°	52.2	56.8
72.5°	48.8	52.2
75°	44.3	47.7
77.5°	38.6	40.9
80°	30.7	34.1
82.5°	23.8	26.1
85°	15.9	17.0
87.5°	6.8	7.9
90°	0.0	0.0

(END OF REPORT)