

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: P1307107

Luminaire Tested: P3SQAS17R559027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307107
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: P3SQAS17R559027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

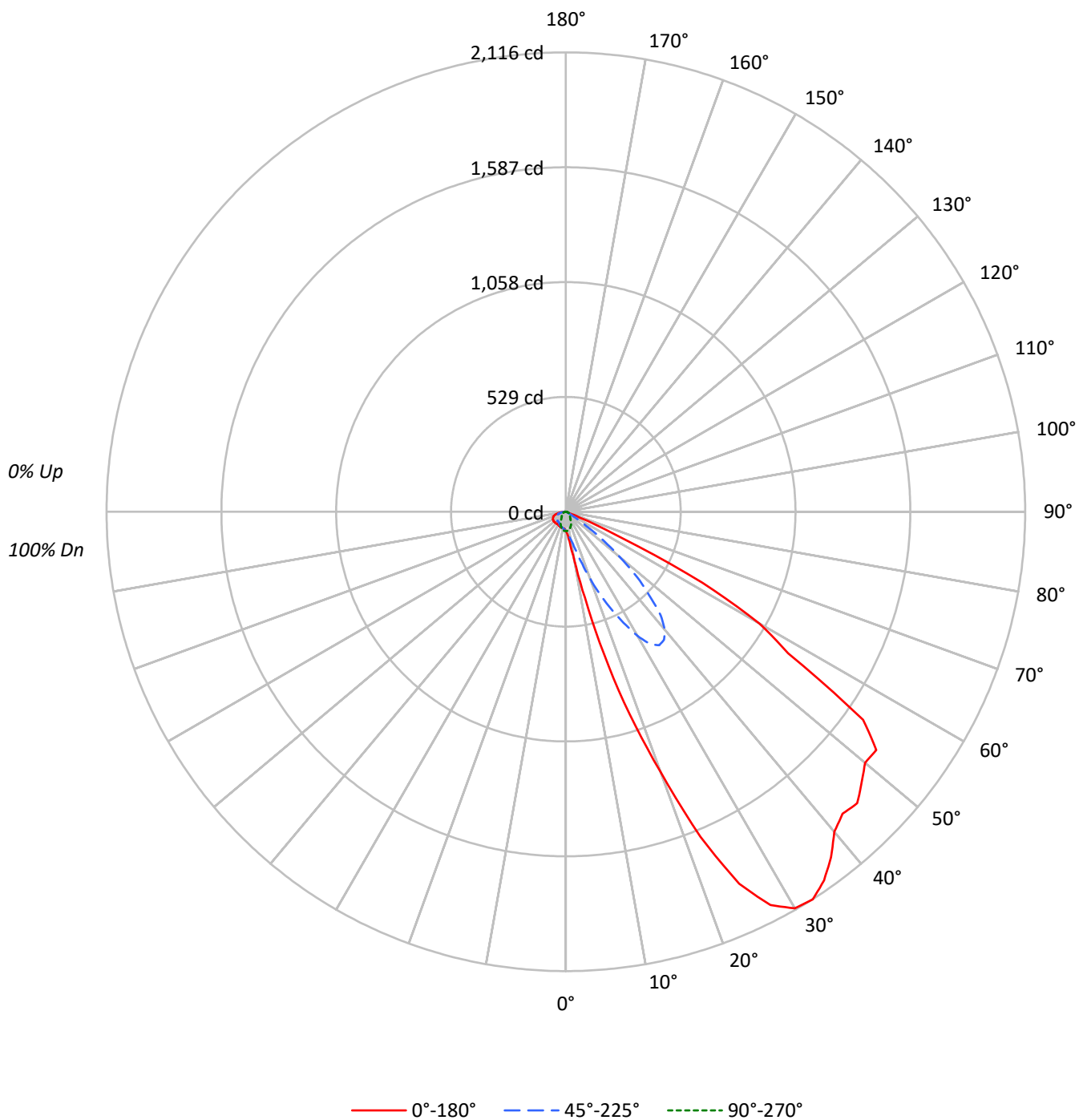
Lumens per Lamp: N/A
Luminaire Lumens: 1361.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



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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	0
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°	15121	15121	15121	15121	15121
5°	19328	17668	15179	14142	13727
10°	39330	22507	14725	13466	13466
15°	120708	34518	13729	13087	13515
20°	233401	60389	12334	12774	13452
25°	359226	93911	10737	12333	13473
30°	419447	131291	8850	12190	13861
35°	435880	157768	7338	12131	14402
40°	432555	159240	6767	12702	15670
45°	462471	131790	6454	13761	16976
50°	482008	86997	6457	14817	18996
55°	501886	37923	6486	16244	20928
60°	354572	8714	6613	17808	23595
65°	115652	2934	6357	19112	26448
70°	3626	3021	6647	20595	30263
75°	3194	3194	5590	21626	33604
80°	2380	3570	5951	21423	35804
85°	2371	4742	7114	21341	35569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 509967 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.7
10°-20°	57.8	4.2
20°-30°	193.7	14.2
30°-40°	318.1	23.4
40°-50°	354.8	26.1
50°-60°	298.7	21.9
60°-70°	101.3	7.4
70°-80°	19.8	1.5
80°-90°	7.4	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°	260.8	19.2
0°-40°	578.9	42.5
0°-60°	1232.4	90.6
0°-90°	1361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	112	102	88	82	79	14
15°	677	194	77	73	76	215
25°	1890	494	56	65	71	850
35°	2073	750	35	58	68	1287
45°	1899	541	26	56	70	1450
55°	1672	126	22	54	70	1361
65°	284	7	16	47	65	384
75°	5	5	8	32	50	5
85°	1	2	4	11	18	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
2.5°	96.2	96.2	96.2	96.2	96.2	96.2	95.0	91.4	89.0	85.4	84.2
5°	111.8	111.8	111.8	110.6	110.6	108.2	102.2	93.8	87.8	83.0	81.8
7.5°	144.3	143.1	140.7	139.5	135.9	134.7	113.0	96.2	86.6	80.6	79.4
10°	224.9	222.5	218.9	205.6	193.6	185.2	128.7	97.4	84.2	78.2	77.0
12.5°	405.3	400.4	382.4	354.7	321.1	304.2	153.9	98.6	80.6	75.8	75.8
15°	677.0	671.0	637.3	598.9	537.5	503.9	193.6	97.4	77.0	72.2	73.4
17.5°	977.7	960.8	925.9	875.4	792.5	752.8	252.5	95.0	72.2	69.7	72.2
20°	1273.5	1268.7	1210.9	1142.4	1040.2	987.3	329.5	91.4	67.3	66.1	69.7
22.5°	1619.8	1599.4	1538.0	1464.7	1324.0	1254.2	412.5	86.6	62.5	62.5	67.3
25°	1890.4	1866.3	1818.2	1732.8	1599.4	1524.8	494.2	80.6	56.5	58.9	64.9
27.5°	2041.9	2014.2	1978.2	1904.8	1801.4	1735.2	576.0	73.4	50.5	55.3	62.5
30°	2109.2	2102.0	2075.6	2021.4	1926.4	1867.5	660.2	64.9	44.5	51.7	61.3
32.5°	2116.4	2120.1	2109.2	2074.4	2002.2	1951.7	722.7	57.7	39.7	49.3	58.9
35°	2073.2	2086.4	2093.6	2079.2	2032.3	1991.4	750.4	49.3	34.9	46.9	57.7
37.5°	2005.8	2029.9	2053.9	2057.5	2028.7	2002.2	743.2	42.1	32.5	45.7	57.7
40°	1924.0	1945.7	1995.0	2026.3	2016.6	1997.4	708.3	34.9	30.1	43.3	56.5
42.5°	1886.8	1891.6	1944.5	1997.4	1995.0	1979.4	647.0	27.7	27.7	43.3	56.5
45°	1898.8	1877.1	1912.0	1973.3	1969.7	1949.3	541.1	21.6	26.5	42.1	56.5
47.5°	1848.3	1818.2	1877.1	1949.3	1936.1	1906.0	447.3	15.6	25.3	40.9	55.3
50°	1799.0	1794.2	1839.9	1875.9	1857.9	1841.1	324.7	12.0	24.1	39.7	55.3
52.5°	1802.6	1794.2	1799.0	1797.8	1761.7	1743.7	222.5	9.6	22.8	38.5	55.3
55°	1671.5	1645.1	1619.8	1627.0	1629.4	1617.4	126.3	8.4	21.6	38.5	54.1
57.5°	1214.6	1207.3	1235.0	1313.2	1374.5	1381.7	61.3	8.4	20.4	37.3	52.9
60°	1029.4	1024.6	1025.8	1048.6	1081.1	1060.6	25.3	8.4	19.2	36.1	51.7
62.5°	709.5	756.4	775.6	828.5	806.9	778.0	9.6	9.6	18.0	33.7	50.5
65°	283.8	282.6	309.0	334.3	327.1	305.4	7.2	8.4	15.6	31.3	46.9
67.5°	66.1	60.1	51.7	44.5	37.3	30.1	7.2	8.4	14.4	28.9	44.5
70°	7.2	7.2	7.2	7.2	7.2	6.0	6.0	8.4	13.2	26.5	40.9
72.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.2	10.8	22.8	37.3
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.0	8.4	19.2	32.5
77.5°	3.6	3.6	3.6	4.8	3.6	4.8	4.8	6.0	7.2	15.6	27.7
80°	2.4	2.4	3.6	3.6	3.6	3.6	3.6	4.8	6.0	13.2	21.6
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	9.6	15.6
85°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6	3.6	7.2	10.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6	3.6	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	87.8	87.8
2.5°	83.0	83.0
5°	80.6	79.4
7.5°	78.2	78.2
10°	77.0	77.0
12.5°	75.8	77.0
15°	75.8	75.8
17.5°	73.4	74.6
20°	72.2	73.4
22.5°	70.9	72.2
25°	69.7	70.9
27.5°	68.5	69.7
30°	67.3	69.7
32.5°	66.1	68.5
35°	66.1	68.5
37.5°	66.1	69.7
40°	66.1	69.7
42.5°	66.1	69.7
45°	66.1	69.7
47.5°	66.1	69.7
50°	66.1	70.9
52.5°	66.1	70.9
55°	66.1	69.7
57.5°	64.9	69.7
60°	64.9	68.5
62.5°	63.7	67.3
65°	61.3	64.9
67.5°	58.9	63.7
70°	55.3	60.1
72.5°	51.7	55.3
75°	46.9	50.5
77.5°	40.9	43.3
80°	32.5	36.1
82.5°	25.3	27.7
85°	16.8	18.0
87.5°	7.2	8.4
90°	0.0	0.0

(END OF REPORT)