

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: P1314762

Luminaire Tested: P3SQAS20R659735D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R659735D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

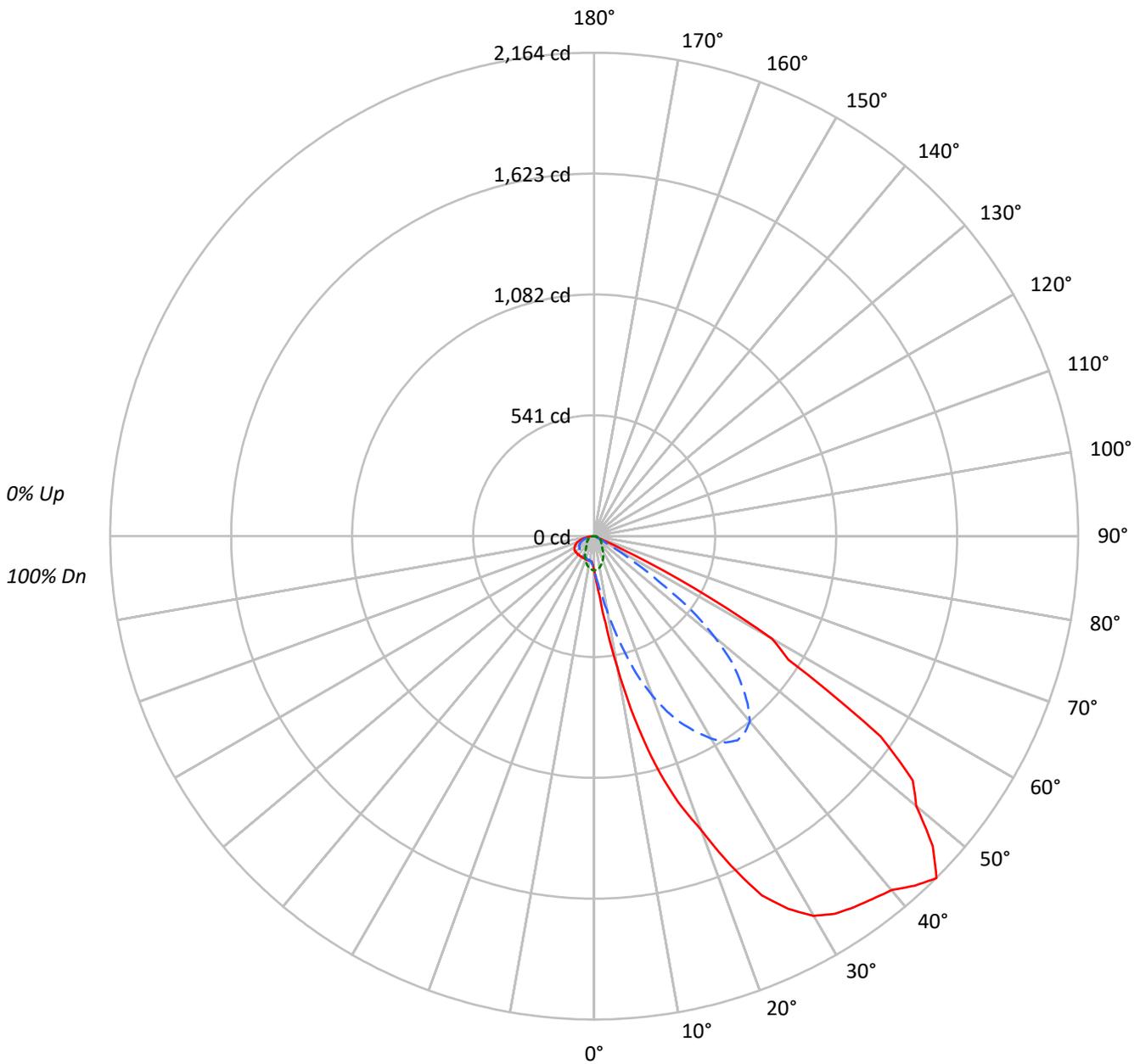
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1570.0 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1314762
CATALOG NUMBER: P3SQAS20R659735D010 E3SQCA451MW

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - - - - 90°-270°



TEST NUMBER: P1314762

CATALOG NUMBER: P3SQAS20R659735D010 E3SQCA451MW

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26298	26298	26298	26298	26298
5°	45986	37550	25846	20953	20141
10°	104053	60561	24780	19272	19552
15°	189174	97386	23018	19363	19934
20°	256476	139069	20765	19336	20197
25°	337126	175585	18243	18851	20637
30°	390373	208172	15651	18793	21597
35°	426272	234654	13245	19195	22833
40°	465042	243481	11668	20166	24416
45°	527185	225828	11131	21482	26451
50°	503603	188543	10958	22774	29097
55°	469368	105872	11350	24591	32128
60°	316097	22768	11401	26040	34686
65°	48739	5787	10921	26937	37858
70°	5539	5539	10323	27745	40435
75°	5257	5257	9449	27216	40857
80°	4661	6248	9323	24993	40564
85°	3162	6126	9287	24898	37347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 527185 cd/sqm



TEST NUMBER: P1314762

CATALOG NUMBER: P3SQAS20R659735D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	1.2
10°-20°	99.8	6.4
20°-30°	234.6	14.9
30°-40°	354.4	22.6
40°-50°	407.3	25.9
50°-60°	323.4	20.6
60°-70°	96.9	6.2
70°-80°	26.3	1.7
80°-90°	8.8	0.6
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°	352.9	22.5
0°-40°	707.2	45.0
0°-60°	1438.0	91.6
0°-90°	1570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	153	153	153	153	153	
5°	266	217	150	121	116	36
15°	1061	546	129	109	112	305
25°	1774	924	96	99	109	810
35°	2028	1116	63	91	109	1272
45°	2164	927	46	88	109	1608
55°	1563	353	38	82	107	1288
65°	120	14	27	66	93	268
75°	8	8	14	41	61	8
85°	2	3	5	13	19	2
90°	0	0	0	0	0	



TEST NUMBER: P1314762

CATALOG NUMBER: P3SQAS20R659735D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7
2.5°	193.6	195.2	193.6	193.6	192.1	190.5	179.5	166.9	152.7	141.7	133.8
5°	266.0	267.6	262.9	262.9	259.7	255.0	217.2	181.0	149.5	132.2	121.2
7.5°	393.5	399.8	392.0	382.5	365.2	362.1	270.8	195.2	146.4	122.8	113.3
10°	595.0	590.3	582.4	563.6	533.6	519.5	346.3	209.4	141.7	116.5	110.2
12.5°	839.0	826.4	817.0	782.4	741.4	717.8	440.8	222.0	135.4	110.2	108.6
15°	1061.0	1051.6	1029.5	996.5	946.1	927.2	546.2	229.8	129.1	105.5	108.6
17.5°	1248.3	1238.9	1226.3	1193.2	1141.3	1112.9	664.3	234.6	121.2	102.3	107.0
20°	1399.4	1393.2	1375.8	1349.1	1297.1	1270.4	758.8	234.6	113.3	99.2	105.5
22.5°	1594.6	1580.5	1558.4	1519.1	1454.5	1413.6	848.5	229.8	105.5	96.0	102.3
25°	1774.1	1764.7	1736.3	1689.1	1619.8	1578.9	924.0	220.4	96.0	91.3	99.2
27.5°	1881.2	1874.9	1848.1	1799.3	1722.2	1690.7	987.0	206.2	86.6	86.6	97.6
30°	1963.0	1950.4	1923.7	1876.4	1797.7	1759.9	1046.8	188.9	78.7	81.9	94.5
32.5°	2003.9	1999.2	1975.6	1934.7	1857.5	1815.0	1095.6	166.9	69.3	78.7	92.9
35°	2027.5	2022.8	2003.9	1964.6	1892.2	1851.2	1116.1	146.4	63.0	75.6	91.3
37.5°	2046.4	2041.7	2018.1	1978.7	1906.3	1863.8	1106.7	124.4	56.7	72.4	89.7
40°	2068.5	2051.2	2015.0	1975.6	1909.5	1868.6	1083.0	103.9	51.9	70.8	89.7
42.5°	2122.0	2062.2	2005.5	1969.3	1906.3	1859.1	1015.3	81.9	47.2	67.7	88.2
45°	2164.5	2059.0	1986.6	1958.3	1893.7	1840.2	927.2	59.8	45.7	66.1	88.2
47.5°	2052.7	1988.2	1955.1	1939.4	1870.1	1811.9	835.9	40.9	44.1	64.5	86.6
50°	1879.6	1871.7	1859.1	1860.7	1797.7	1750.5	703.7	28.3	40.9	63.0	85.0
52.5°	1796.1	1786.7	1764.7	1748.9	1686.0	1645.0	557.3	22.0	39.4	61.4	83.4
55°	1563.2	1569.5	1545.8	1555.3	1536.4	1515.9	352.6	20.5	37.8	58.2	81.9
57.5°	1029.5	1061.0	1116.1	1182.2	1242.0	1283.0	190.5	20.5	34.6	56.7	78.7
60°	917.7	909.9	908.3	920.9	947.7	969.7	66.1	18.9	33.1	51.9	75.6
62.5°	502.2	499.0	546.2	626.5	673.8	678.5	18.9	18.9	29.9	48.8	70.8
65°	119.6	124.4	138.5	173.2	204.6	225.1	14.2	17.3	26.8	45.7	66.1
67.5°	18.9	20.5	20.5	25.2	28.3	28.3	12.6	15.7	23.6	40.9	61.4
70°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.2	20.5	36.2	55.1
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	11.0	12.6	17.3	31.5	47.2
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	11.0	14.2	25.2	40.9
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.9	9.4	12.6	20.5	33.1
80°	4.7	4.7	4.7	4.7	4.7	4.7	6.3	7.9	9.4	15.7	25.2
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.7	6.3	7.9	12.6	18.9
85°	1.6	1.6	1.6	1.6	3.1	3.1	3.1	4.7	4.7	7.9	12.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1	4.7	6.3
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: P1314762
CATALOG NUMBER: P3SQAS20R659735D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	152.7	152.7
2.5°	129.1	127.5
5°	116.5	116.5
7.5°	111.8	111.8
10°	110.2	111.8
12.5°	110.2	111.8
15°	110.2	111.8
17.5°	110.2	111.8
20°	108.6	110.2
22.5°	107.0	108.6
25°	105.5	108.6
27.5°	103.9	108.6
30°	103.9	108.6
32.5°	103.9	108.6
35°	102.3	108.6
37.5°	102.3	108.6
40°	102.3	108.6
42.5°	102.3	108.6
45°	102.3	108.6
47.5°	102.3	108.6
50°	102.3	108.6
52.5°	100.7	108.6
55°	100.7	107.0
57.5°	97.6	103.9
60°	94.5	100.7
62.5°	91.3	97.6
65°	86.6	92.9
67.5°	81.9	86.6
70°	74.0	80.3
72.5°	66.1	70.8
75°	56.7	61.4
77.5°	47.2	51.9
80°	37.8	40.9
82.5°	26.8	29.9
85°	17.3	18.9
87.5°	7.9	7.9
90°	0.0	0.0

(END OF REPORT)