

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: P1314588

Luminaire Tested: P3SQAS17R559735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314588
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: P3SQAS17R559735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

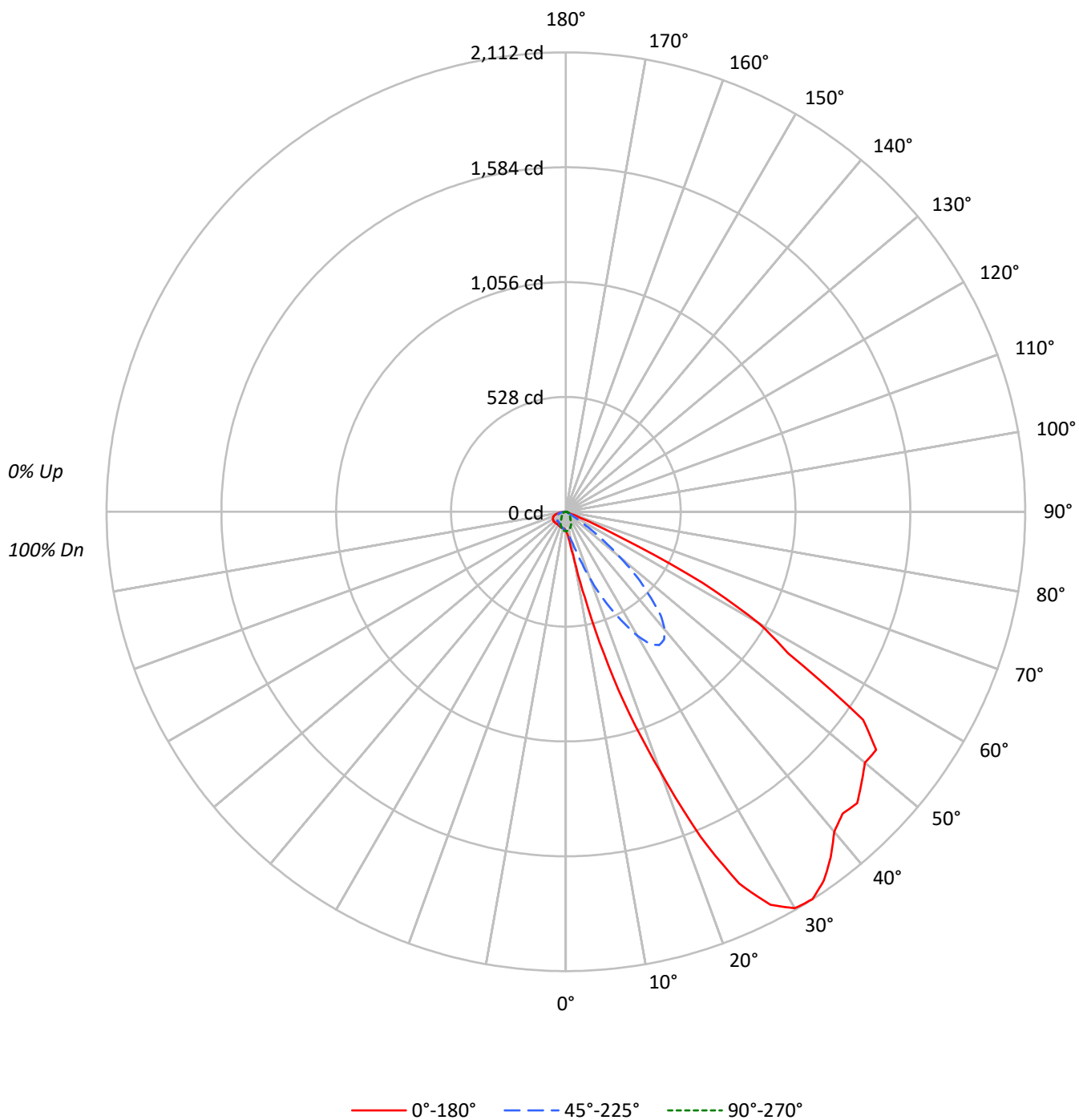
Lumens per Lamp: N/A
Luminaire Lumens: 1358.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1314588

CATALOG NUMBER: P3SQAS17R559735DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314588

CATALOG NUMBER: P3SQAS17R559735DE010 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°	15087	15087	15087	15087	15087
5°	19293	17634	15144	14107	13692
10°	39243	22455	14690	13431	13431
15°	120440	34447	13693	13051	13479
20°	232888	60261	12316	12756	13416
25°	358428	93702	10718	12314	13454
30°	418532	130993	8830	12171	13841
35°	434913	157410	7317	12110	14381
40°	431611	158881	6745	12680	15648
45°	461448	131498	6430	13737	16952
50°	480936	86810	6430	14790	18970
55°	500775	37833	6486	16214	20898
60°	353780	8680	6613	17773	23560
65°	115408	2934	6357	19072	26407
70°	3626	3021	6647	20545	30213
75°	3194	3194	5590	21560	33537
80°	2380	3570	5951	21423	35704
85°	2371	4742	7114	21341	35569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 508836 cd/sqm

TEST NUMBER: P1314588

CATALOG NUMBER: P3SQAS17R559735DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.7
10°-20°	57.7	4.2
20°-30°	193.3	14.2
30°-40°	317.4	23.4
40°-50°	354.1	26.1
50°-60°	298.0	21.9
60°-70°	101.1	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°	260.2	19.2
0°-40°	577.7	42.5
0°-60°	1229.7	90.6
0°-90°	1358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	112	102	88	82	79	14
15°	676	193	77	73	76	214
25°	1886	493	56	65	71	848
35°	2069	749	35	58	68	1284
45°	1895	540	26	56	70	1447
55°	1668	126	22	54	70	1358
65°	283	7	16	47	65	383
75°	5	5	8	32	50	5
85°	1	2	4	11	18	2
90°	0	0	0	0	0	

TEST NUMBER: P1314588

CATALOG NUMBER: P3SQAS17R559735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.5°	96.0	96.0	96.0	96.0	96.0	96.0	94.8	91.2	88.8	85.2	84.0
5°	111.6	111.6	111.6	110.4	110.4	108.0	102.0	93.6	87.6	82.8	81.6
7.5°	144.0	142.8	140.4	139.2	135.6	134.4	112.8	96.0	86.4	80.4	79.2
10°	224.4	222.0	218.4	205.2	193.2	184.8	128.4	97.2	84.0	78.0	76.8
12.5°	404.4	399.6	381.6	354.0	320.4	303.6	153.6	98.4	80.4	75.6	75.6
15°	675.5	669.5	635.9	597.5	536.3	502.7	193.2	97.2	76.8	72.0	73.2
17.5°	975.5	958.7	923.9	873.5	790.7	751.1	252.0	94.8	72.0	69.6	72.0
20°	1270.7	1265.9	1208.3	1139.9	1037.9	985.1	328.8	91.2	67.2	66.0	69.6
22.5°	1616.2	1595.8	1534.6	1461.4	1321.1	1251.5	411.6	86.4	62.4	62.4	67.2
25°	1886.2	1862.2	1814.2	1729.0	1595.8	1521.4	493.1	80.4	56.4	58.8	64.8
27.5°	2037.4	2009.8	1973.8	1900.6	1797.4	1731.4	574.7	73.2	50.4	55.2	62.4
30°	2104.6	2097.4	2071.0	2017.0	1922.2	1863.4	658.7	64.8	44.4	51.6	61.2
32.5°	2111.8	2115.4	2104.6	2069.8	1997.8	1947.4	721.1	57.6	39.6	49.2	58.8
35°	2068.6	2081.8	2089.0	2074.6	2027.8	1987.0	748.7	49.2	34.8	46.8	57.6
37.5°	2001.4	2025.4	2049.4	2053.0	2024.2	1997.8	741.5	42.0	32.4	45.6	57.6
40°	1919.8	1941.4	1990.6	2021.8	2012.2	1993.0	706.7	34.8	30.0	43.2	56.4
42.5°	1882.6	1887.4	1940.2	1993.0	1990.6	1975.0	645.5	27.6	27.6	43.2	56.4
45°	1894.6	1873.0	1907.8	1969.0	1965.4	1945.0	539.9	21.6	26.4	42.0	56.4
47.5°	1844.2	1814.2	1873.0	1945.0	1931.8	1901.8	446.4	15.6	25.2	40.8	55.2
50°	1795.0	1790.2	1835.8	1871.8	1853.8	1837.0	324.0	12.0	24.0	39.6	55.2
52.5°	1798.6	1790.2	1795.0	1793.8	1757.8	1739.8	222.0	9.6	22.8	38.4	55.2
55°	1667.8	1641.4	1616.2	1623.4	1625.8	1613.8	126.0	8.4	21.6	38.4	54.0
57.5°	1211.9	1204.7	1232.3	1310.3	1371.5	1378.7	61.2	8.4	20.4	37.2	52.8
60°	1027.1	1022.3	1023.5	1046.3	1078.7	1058.3	25.2	8.4	19.2	36.0	51.6
62.5°	707.9	754.7	773.9	826.7	805.1	776.3	9.6	9.6	18.0	33.6	50.4
65°	283.2	282.0	308.4	333.6	326.4	304.8	7.2	8.4	15.6	31.2	46.8
67.5°	66.0	60.0	51.6	44.4	37.2	30.0	7.2	8.4	14.4	28.8	44.4
70°	7.2	7.2	7.2	7.2	7.2	6.0	6.0	8.4	13.2	26.4	40.8
72.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.2	10.8	22.8	37.2
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.0	8.4	19.2	32.4
77.5°	3.6	3.6	3.6	4.8	3.6	4.8	4.8	6.0	7.2	15.6	27.6
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

TEST NUMBER: P1314588

CATALOG NUMBER: P3SQAS17R559735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	87.6	87.6
2.5°	82.8	82.8
5°	80.4	79.2
7.5°	78.0	78.0
10°	76.8	76.8
12.5°	75.6	76.8
15°	75.6	75.6
17.5°	73.2	74.4
20°	72.0	73.2
22.5°	70.8	72.0
25°	69.6	70.8
27.5°	68.4	69.6
30°	67.2	69.6
32.5°	66.0	68.4
35°	66.0	68.4
37.5°	66.0	69.6
40°	66.0	69.6
42.5°	66.0	69.6
45°	66.0	69.6
47.5°	66.0	69.6
50°	66.0	70.8
52.5°	66.0	70.8
55°	66.0	69.6
57.5°	64.8	69.6
60°	64.8	68.4
62.5°	63.6	67.2
65°	61.2	64.8
67.5°	58.8	63.6
70°	55.2	60.0
72.5°	51.6	55.2
75°	46.8	50.4
77.5°	40.8	43.2
80°	32.4	36.0
82.5°	25.2	27.6
85°	16.8	18.0
87.5°	7.2	8.4
90°	0.0	0.0

(END OF REPORT)