

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: P1317323

Luminaire Tested: P3SQAS17R559830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317323
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: P3SQAS17R559830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

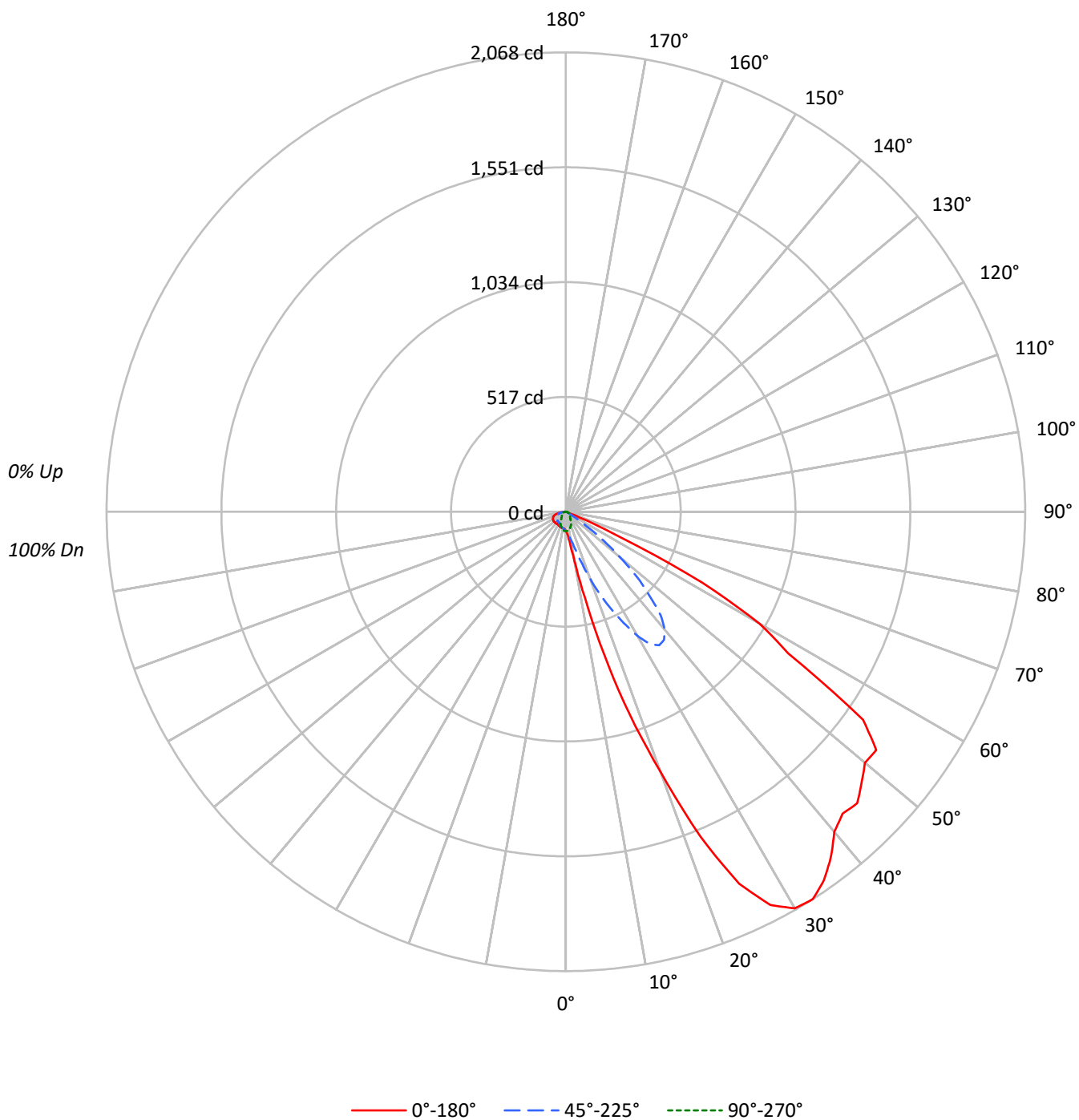
Lumens per Lamp: N/A
Luminaire Lumens: 1330.0 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1317323

CATALOG NUMBER: P3SQAS17R559830DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317323

CATALOG NUMBER: P3SQAS17R559830DE010 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°	14777	14777	14777	14777	14777
5°	18896	17271	14833	13813	13416
10°	38439	21982	14393	13151	13151
15°	117962	33734	13408	12784	13194
20°	228086	59015	12060	12499	13141
25°	351036	91783	10489	12067	13169
30°	409902	128288	8651	11912	13563
35°	425935	154173	7169	11858	14086
40°	422708	155621	6610	12410	15333
45°	451925	128794	6308	13444	16611
50°	471022	85014	6296	14495	18568
55°	490446	37052	6366	15884	20478
60°	346478	8508	6476	17394	23078
65°	113003	2893	6235	18664	25877
70°	3575	2971	6496	20142	29608
75°	3127	3127	5456	21094	32872
80°	2380	3471	5852	21026	35010
85°	2371	4742	6916	20946	34778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 498340 cd/sqm

TEST NUMBER: P1317323

CATALOG NUMBER: P3SQAS17R559830DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	0.7
10°-20°	56.5	4.2
20°-30°	189.3	14.2
30°-40°	310.9	23.4
40°-50°	346.8	26.1
50°-60°	291.9	21.9
60°-70°	99.0	7.4
70°-80°	19.4	1.5
80°-90°	7.3	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°	254.9	19.2
0°-40°	565.8	42.5
0°-60°	1204.4	90.6
0°-90°	1330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1330.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	109	100	86	80	78	14
15°	662	189	75	72	74	210
25°	1847	483	55	64	69	830
35°	2026	733	34	56	67	1258
45°	1856	529	26	55	68	1417
55°	1633	123	21	53	68	1330
65°	277	7	15	46	64	376
75°	5	5	8	32	49	5
85°	1	2	4	11	18	2
90°	0	0	0	0	0	

TEST NUMBER: P1317323

CATALOG NUMBER: P3SQAS17R559830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2.5°	94.0	94.0	94.0	94.0	94.0	94.0	92.8	89.3	87.0	83.4	82.3
5°	109.3	109.3	109.3	108.1	108.1	105.8	99.9	91.7	85.8	81.1	79.9
7.5°	141.0	139.8	137.5	136.3	132.8	131.6	110.5	94.0	84.6	78.7	77.6
10°	219.8	217.4	213.9	200.9	189.2	181.0	125.7	95.2	82.3	76.4	75.2
12.5°	396.0	391.3	373.7	346.7	313.8	297.3	150.4	96.4	78.7	74.0	74.0
15°	661.6	655.7	622.8	585.2	525.3	492.4	189.2	95.2	75.2	70.5	71.7
17.5°	955.4	938.9	904.9	855.5	774.4	735.6	246.8	92.8	70.5	68.2	70.5
20°	1244.5	1239.8	1183.4	1116.4	1016.5	964.8	322.0	89.3	65.8	64.6	68.2
22.5°	1582.9	1562.9	1503.0	1431.3	1293.8	1225.7	403.1	84.6	61.1	61.1	65.8
25°	1847.3	1823.8	1776.8	1693.4	1562.9	1490.1	483.0	78.7	55.2	57.6	63.5
27.5°	1995.4	1968.4	1933.1	1861.4	1760.4	1695.7	562.9	71.7	49.4	54.1	61.1
30°	2061.2	2054.1	2028.3	1975.4	1882.6	1825.0	645.1	63.5	43.5	50.5	59.9
32.5°	2068.2	2071.8	2061.2	2027.1	1956.6	1907.2	706.3	56.4	38.8	48.2	57.6
35°	2025.9	2038.9	2045.9	2031.8	1986.0	1946.0	733.3	48.2	34.1	45.8	56.4
37.5°	1960.1	1983.6	2007.1	2010.7	1982.5	1956.6	726.2	41.1	31.7	44.7	56.4
40°	1880.2	1901.4	1949.5	1980.1	1970.7	1951.9	692.2	34.1	29.4	42.3	55.2
42.5°	1843.8	1848.5	1900.2	1951.9	1949.5	1934.3	632.2	27.0	27.0	42.3	55.2
45°	1855.5	1834.4	1868.5	1928.4	1924.9	1904.9	528.8	21.2	25.9	41.1	55.2
47.5°	1806.2	1776.8	1834.4	1904.9	1892.0	1862.6	437.2	15.3	24.7	40.0	54.1
50°	1758.0	1753.3	1798.0	1833.2	1815.6	1799.1	317.3	11.8	23.5	38.8	54.1
52.5°	1761.5	1753.3	1758.0	1756.8	1721.6	1703.9	217.4	9.4	22.3	37.6	54.1
55°	1633.4	1607.6	1582.9	1590.0	1592.3	1580.6	123.4	8.2	21.2	37.6	52.9
57.5°	1186.9	1179.8	1206.9	1283.2	1343.2	1350.2	59.9	8.2	20.0	36.4	51.7
60°	1005.9	1001.2	1002.4	1024.7	1056.4	1036.5	24.7	8.2	18.8	35.3	50.5
62.5°	693.3	739.2	758.0	809.7	788.5	760.3	9.4	9.4	17.6	32.9	49.4
65°	277.3	276.2	302.0	326.7	319.6	298.5	7.1	8.2	15.3	30.6	45.8
67.5°	64.6	58.8	50.5	43.5	36.4	29.4	7.1	8.2	14.1	28.2	43.5
70°	7.1	7.1	7.1	7.1	7.1	5.9	5.9	8.2	12.9	25.9	40.0
72.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.1	10.6	22.3	36.4
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.9	8.2	18.8	31.7
77.5°	3.5	3.5	3.5	4.7	3.5	4.7	4.7	5.9	7.1	15.3	27.0
80°	2.4	2.4	3.5	3.5	3.5	3.5	3.5	4.7	5.9	12.9	21.2
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5	4.7	9.4	15.3
85°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.5	3.5	7.1	10.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.5	3.5	4.7
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: P1317323

CATALOG NUMBER: P3SQAS17R559830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	85.8	85.8
2.5°	81.1	81.1
5°	78.7	77.6
7.5°	76.4	76.4
10°	75.2	75.2
12.5°	74.0	75.2
15°	74.0	74.0
17.5°	71.7	72.9
20°	70.5	71.7
22.5°	69.3	70.5
25°	68.2	69.3
27.5°	67.0	68.2
30°	65.8	68.2
32.5°	64.6	67.0
35°	64.6	67.0
37.5°	64.6	68.2
40°	64.6	68.2
42.5°	64.6	68.2
45°	64.6	68.2
47.5°	64.6	68.2
50°	64.6	69.3
52.5°	64.6	69.3
55°	64.6	68.2
57.5°	63.5	68.2
60°	63.5	67.0
62.5°	62.3	65.8
65°	59.9	63.5
67.5°	57.6	62.3
70°	54.1	58.8
72.5°	50.5	54.1
75°	45.8	49.4
77.5°	40.0	42.3
80°	31.7	35.3
82.5°	24.7	27.0
85°	16.5	17.6
87.5°	7.1	8.2
90°	0.0	0.0

(END OF REPORT)