

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: P1309342

Luminaire Tested: P3SQAS17R559035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309342
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: P3SQAS17R559035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

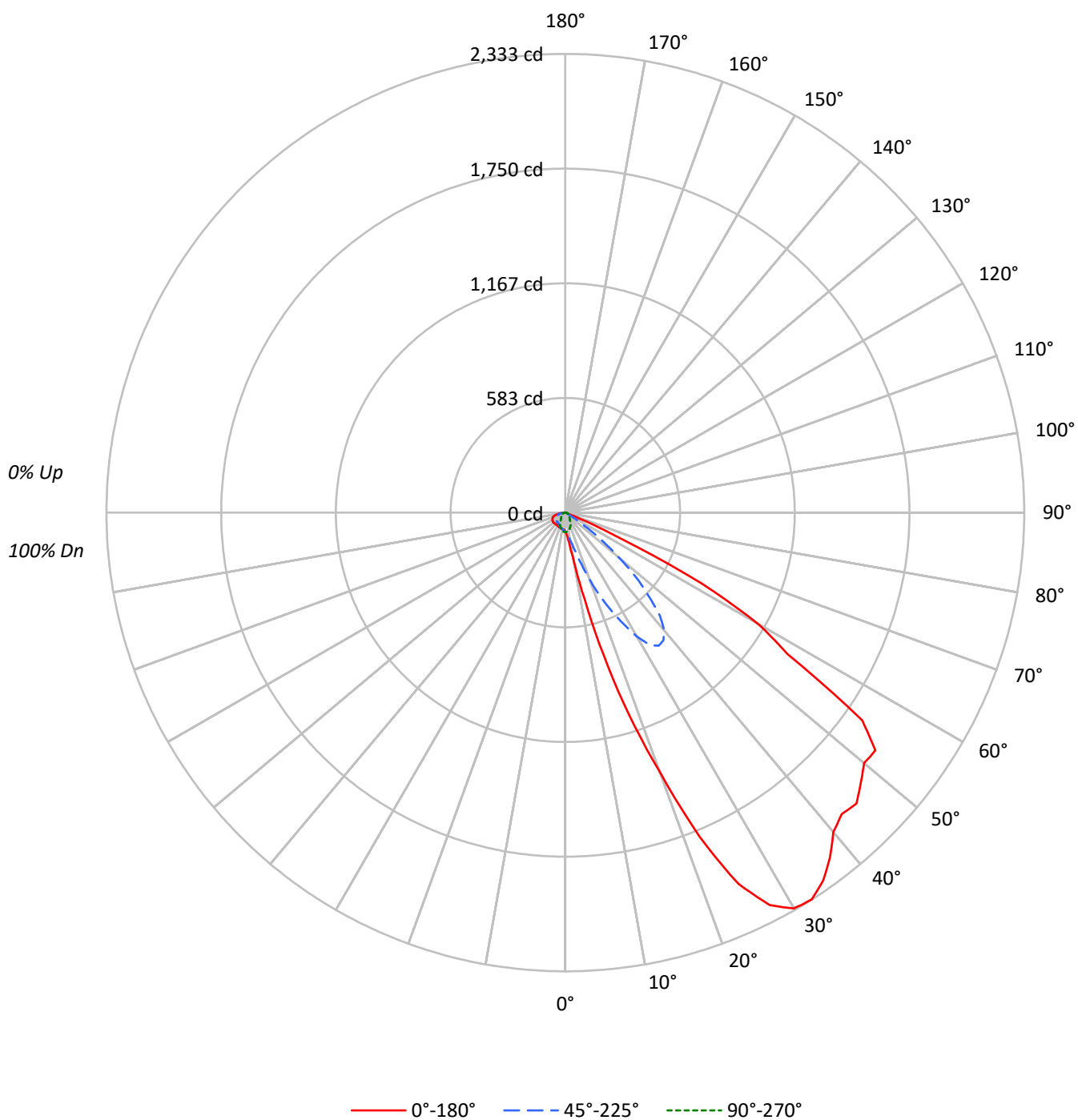
Lumens per Lamp: N/A
Luminaire Lumens: 1500.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1309342

CATALOG NUMBER: P3SQAS17R559035DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1309342

CATALOG NUMBER: P3SQAS17R559035DE010 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	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°	16654	16654	16654	16654	16654
5°	21316	19484	16718	15577	15127
10°	43335	24798	16229	14830	14830
15°	133046	38049	15120	14406	14888
20°	257227	66547	13599	14094	14809
25°	395902	103508	11839	13606	14860
30°	462283	144695	9744	13443	15293
35°	480389	173873	8073	13372	15873
40°	476732	175495	7442	14006	17289
45°	509697	145259	7112	15174	18730
50°	531227	95866	7100	16344	20952
55°	553141	41796	7176	17896	23090
60°	390773	9576	7302	19633	26006
65°	127470	3260	7009	21068	29178
70°	4028	3323	7352	22710	33385
75°	3527	3527	6188	23822	37064
80°	2678	3967	6546	23704	39473
85°	2569	5335	7904	23515	39323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 562051 cd/sqm

TEST NUMBER: P1309342

CATALOG NUMBER: P3SQAS17R559035DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.7
10°-20°	63.7	4.2
20°-30°	213.5	14.2
30°-40°	350.6	23.4
40°-50°	391.1	26.1
50°-60°	329.2	21.9
60°-70°	111.7	7.4
70°-80°	21.9	1.5
80°-90°	8.2	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°	287.4	19.2
0°-40°	638.1	42.5
0°-60°	1358.3	90.6
0°-90°	1500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1500.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	97	97	97	97	97	
5°	123	113	97	90	88	15
15°	746	213	85	81	84	237
25°	2083	545	62	72	78	936
35°	2285	827	38	64	76	1419
45°	2093	596	29	62	77	1598
55°	1842	139	24	60	77	1500
65°	313	8	17	52	72	424
75°	5	5	9	36	56	6
85°	1	3	4	12	20	2
90°	0	0	0	0	0	

TEST NUMBER: P1309342

CATALOG NUMBER: P3SQAS17R559035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2.5°	106.0	106.0	106.0	106.0	106.0	106.0	104.7	100.7	98.1	94.1	92.8
5°	123.3	123.3	123.3	121.9	121.9	119.3	112.7	103.4	96.7	91.4	90.1
7.5°	159.0	157.7	155.1	153.7	149.8	148.4	124.6	106.0	95.4	88.8	87.5
10°	247.8	245.2	241.2	226.6	213.4	204.1	141.8	107.4	92.8	86.1	84.8
12.5°	446.6	441.3	421.5	391.0	353.9	335.3	169.6	108.7	88.8	83.5	83.5
15°	746.2	739.5	702.4	660.0	592.4	555.3	213.4	107.4	84.8	79.5	80.8
17.5°	1077.5	1058.9	1020.5	964.8	873.4	829.7	278.3	104.7	79.5	76.9	79.5
20°	1403.5	1398.2	1334.6	1259.1	1146.4	1088.1	363.1	100.7	74.2	72.9	76.9
22.5°	1785.2	1762.7	1695.1	1614.3	1459.2	1382.3	454.6	95.4	68.9	68.9	74.2
25°	2083.4	2056.9	2003.9	1909.8	1762.7	1680.5	544.7	88.8	62.3	64.9	71.6
27.5°	2250.4	2219.9	2180.2	2099.3	1985.4	1912.5	634.8	80.8	55.7	61.0	68.9
30°	2324.6	2316.7	2287.5	2227.9	2123.2	2058.3	727.6	71.6	49.0	57.0	67.6
32.5°	2332.6	2336.6	2324.6	2286.2	2206.7	2151.0	796.5	63.6	43.7	54.3	64.9
35°	2284.9	2299.5	2307.4	2291.5	2239.8	2194.8	827.0	54.3	38.4	51.7	63.6
37.5°	2210.7	2237.2	2263.7	2267.7	2235.8	2206.7	819.1	46.4	35.8	50.4	63.6
40°	2120.5	2144.4	2198.7	2233.2	2222.6	2201.4	780.6	38.4	33.1	47.7	62.3
42.5°	2079.5	2084.8	2143.1	2201.4	2198.7	2181.5	713.0	30.5	30.5	47.7	62.3
45°	2092.7	2068.9	2107.3	2174.9	2170.9	2148.4	596.4	23.9	29.2	46.4	62.3
47.5°	2037.0	2003.9	2068.9	2148.4	2133.8	2100.7	493.0	17.2	27.8	45.1	61.0
50°	1982.7	1977.4	2027.8	2067.5	2047.6	2029.1	357.8	13.3	26.5	43.7	61.0
52.5°	1986.7	1977.4	1982.7	1981.4	1941.6	1921.7	245.2	10.6	25.2	42.4	61.0
55°	1842.2	1813.1	1785.2	1793.2	1795.8	1782.6	139.2	9.3	23.9	42.4	59.6
57.5°	1338.6	1330.6	1361.1	1447.3	1514.9	1522.8	67.6	9.3	22.5	41.1	58.3
60°	1134.5	1129.2	1130.5	1155.7	1191.5	1168.9	27.8	9.3	21.2	39.8	57.0
62.5°	782.0	833.6	854.8	913.2	889.3	857.5	10.6	10.6	19.9	37.1	55.7
65°	312.8	311.5	340.6	368.4	360.5	336.6	8.0	9.3	17.2	34.5	51.7
67.5°	72.9	66.3	57.0	49.0	41.1	33.1	8.0	9.3	15.9	31.8	49.0
70°	8.0	8.0	8.0	8.0	8.0	6.6	6.6	9.3	14.6	29.2	45.1
72.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.0	11.9	25.2	41.1
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.6	9.3	21.2	35.8
77.5°	4.0	4.0	4.0	5.3	4.0	5.3	5.3	6.6	8.0	17.2	30.5
80°	2.7	2.7	4.0	4.0	4.0	4.0	4.0	5.3	6.6	14.6	23.9
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	4.0	4.0	5.3	10.6	17.2
85°	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0	4.0	8.0	11.9
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0	4.0	5.3
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: P1309342

CATALOG NUMBER: P3SQAS17R559035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	96.7	96.7
2.5°	91.4	91.4
5°	88.8	87.5
7.5°	86.1	86.1
10°	84.8	84.8
12.5°	83.5	84.8
15°	83.5	83.5
17.5°	80.8	82.2
20°	79.5	80.8
22.5°	78.2	79.5
25°	76.9	78.2
27.5°	75.5	76.9
30°	74.2	76.9
32.5°	72.9	75.5
35°	72.9	75.5
37.5°	72.9	76.9
40°	72.9	76.9
42.5°	72.9	76.9
45°	72.9	76.9
47.5°	72.9	76.9
50°	72.9	78.2
52.5°	72.9	78.2
55°	72.9	76.9
57.5°	71.6	76.9
60°	71.6	75.5
62.5°	70.2	74.2
65°	67.6	71.6
67.5°	64.9	70.2
70°	61.0	66.3
72.5°	57.0	61.0
75°	51.7	55.7
77.5°	45.1	47.7
80°	35.8	39.8
82.5°	27.8	30.5
85°	18.6	19.9
87.5°	8.0	9.3
90°	0.0	0.0

(END OF REPORT)