

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: P1310459

Luminaire Tested: P3SQAS17R559040DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310459
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: P3SQAS17R559040DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

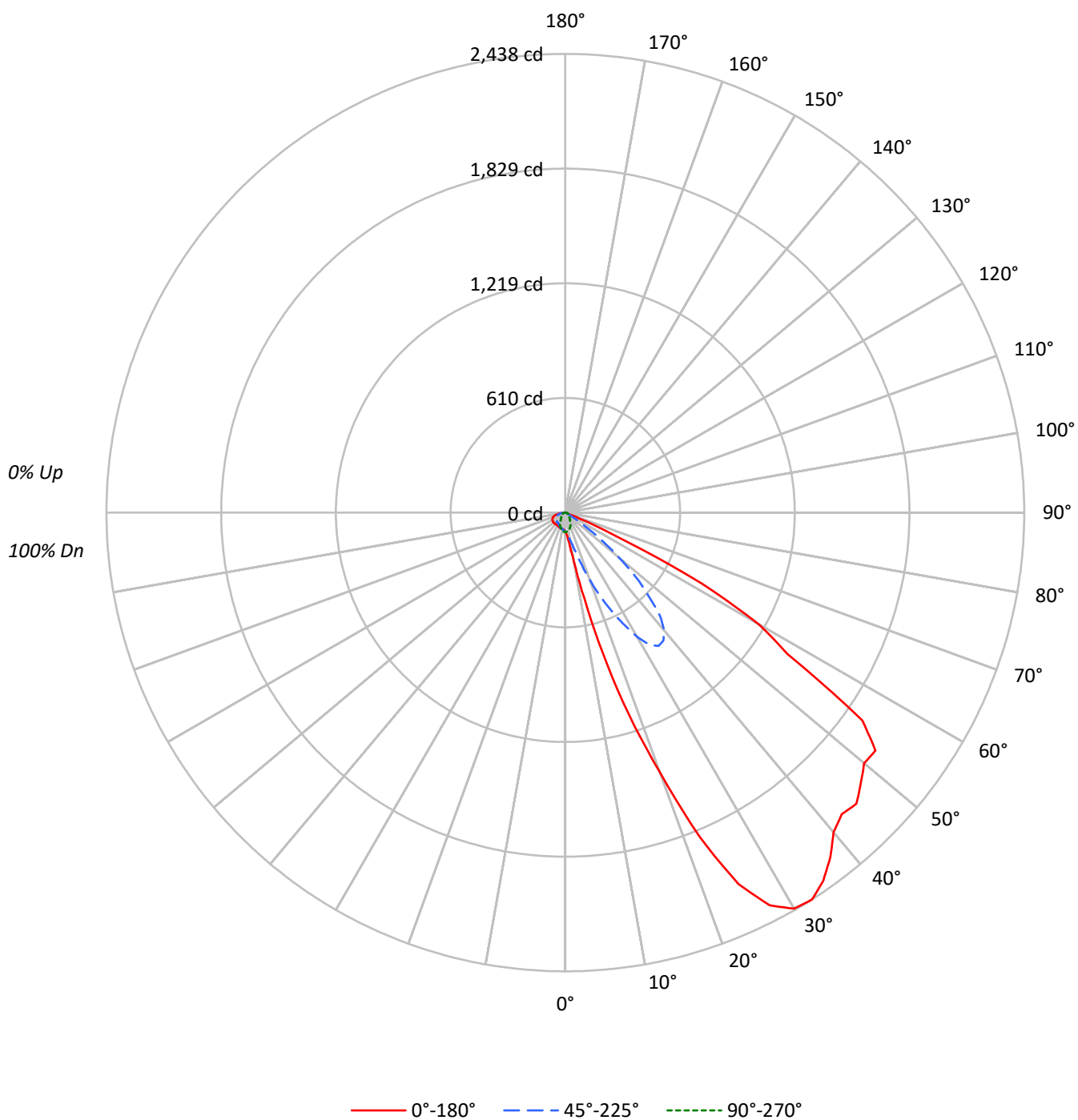
Lumens per Lamp: N/A
Luminaire Lumens: 1568.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1310459

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1310459

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA451MB

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°	17412	17412	17412	17412	17412
5°	22267	20365	17478	16285	15801
10°	45311	25917	16963	15512	15512
15°	139072	39778	15815	15066	15565
20°	268902	69571	14222	14735	15487
25°	413859	108201	12371	14214	15525
30°	483243	151257	10202	14060	15989
35°	502170	181757	8452	13981	16609
40°	498360	183454	7779	14636	18076
45°	532811	151835	7429	15856	19582
50°	555314	100233	7422	17067	21890
55°	578213	43688	7476	18706	24141
60°	408478	10023	7647	20529	27211
65°	133257	3382	7335	22006	30482
70°	4179	3474	7654	23717	34896
75°	3660	3660	6455	24887	38727
80°	2777	4166	6843	24696	41258
85°	2766	5533	8299	24700	41101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 587512 cd/sqm

TEST NUMBER: P1310459

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.7
10°-20°	66.6	4.2
20°-30°	223.2	14.2
30°-40°	366.5	23.4
40°-50°	408.8	26.1
50°-60°	344.1	21.9
60°-70°	116.7	7.4
70°-80°	22.8	1.5
80°-90°	8.6	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°	300.5	19.2
0°-40°	667.0	42.5
0°-60°	1419.9	90.6
0°-90°	1568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	101	101	101	101	101	
5°	129	118	101	94	91	16
15°	780	223	89	84	87	247
25°	2178	569	65	75	82	979
35°	2388	864	40	66	79	1483
45°	2188	623	30	65	80	1671
55°	1926	146	25	62	80	1568
65°	327	8	18	54	75	443
75°	6	6	10	37	58	6
85°	1	3	4	12	21	2
90°	0	0	0	0	0	

TEST NUMBER: P1310459

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2.5°	110.8	110.8	110.8	110.8	110.8	110.8	109.4	105.3	102.5	98.4	97.0
5°	128.8	128.8	128.8	127.5	127.5	124.7	117.8	108.1	101.1	95.6	94.2
7.5°	166.3	164.9	162.1	160.7	156.6	155.2	130.2	110.8	99.8	92.8	91.4
10°	259.1	256.3	252.1	236.9	223.1	213.4	148.2	112.2	97.0	90.1	88.7
12.5°	466.9	461.3	440.6	408.7	369.9	350.5	177.3	113.6	92.8	87.3	87.3
15°	780.0	773.1	734.3	689.9	619.3	580.5	223.1	112.2	88.7	83.1	84.5
17.5°	1126.3	1107.0	1066.8	1008.6	913.0	867.3	290.9	109.4	83.1	80.4	83.1
20°	1467.2	1461.6	1395.1	1316.2	1198.4	1137.4	379.6	105.3	77.6	76.2	80.4
22.5°	1866.2	1842.6	1772.0	1687.4	1525.3	1445.0	475.2	99.8	72.0	72.0	77.6
25°	2177.9	2150.2	2094.8	1996.4	1842.6	1756.7	569.4	92.8	65.1	67.9	74.8
27.5°	2352.4	2320.6	2279.0	2194.5	2075.4	1999.2	663.6	84.5	58.2	63.7	72.0
30°	2430.0	2421.7	2391.2	2328.9	2219.4	2151.6	760.6	74.8	51.3	59.6	70.7
32.5°	2438.3	2442.5	2430.0	2389.9	2306.7	2248.5	832.6	66.5	45.7	56.8	67.9
35°	2388.5	2403.7	2412.0	2395.4	2341.4	2294.3	864.5	56.8	40.2	54.0	66.5
37.5°	2310.9	2338.6	2366.3	2370.5	2337.2	2306.7	856.2	48.5	37.4	52.6	66.5
40°	2216.7	2241.6	2298.4	2334.4	2323.4	2301.2	816.0	40.2	34.6	49.9	65.1
42.5°	2173.7	2179.3	2240.2	2301.2	2298.4	2280.4	745.4	31.9	31.9	49.9	65.1
45°	2187.6	2162.6	2202.8	2273.5	2269.3	2245.8	623.4	24.9	30.5	48.5	65.1
47.5°	2129.4	2094.8	2162.6	2245.8	2230.5	2195.9	515.4	18.0	29.1	47.1	63.7
50°	2072.6	2067.0	2119.7	2161.3	2140.5	2121.1	374.1	13.9	27.7	45.7	63.7
52.5°	2076.7	2067.0	2072.6	2071.2	2029.6	2008.9	256.3	11.1	26.3	44.3	63.7
55°	1925.7	1895.3	1866.2	1874.5	1877.2	1863.4	145.5	9.7	24.9	44.3	62.3
57.5°	1399.3	1391.0	1422.8	1512.9	1583.5	1591.8	70.7	9.7	23.6	42.9	61.0
60°	1185.9	1180.4	1181.8	1208.1	1245.5	1221.9	29.1	9.7	22.2	41.6	59.6
62.5°	817.4	871.4	893.6	954.6	929.6	896.4	11.1	11.1	20.8	38.8	58.2
65°	327.0	325.6	356.1	385.1	376.8	351.9	8.3	9.7	18.0	36.0	54.0
67.5°	76.2	69.3	59.6	51.3	42.9	34.6	8.3	9.7	16.6	33.3	51.3
70°	8.3	8.3	8.3	8.3	8.3	6.9	6.9	9.7	15.2	30.5	47.1
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.3	12.5	26.3	42.9
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.9	9.7	22.2	37.4
77.5°	4.2	4.2	4.2	5.5	4.2	5.5	5.5	6.9	8.3	18.0	31.9
80°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	5.5	6.9	15.2	24.9
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.5	11.1	18.0
85°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2	4.2	8.3	12.5
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2	4.2	5.5
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: P1310459

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	101.1	101.1
2.5°	95.6	95.6
5°	92.8	91.4
7.5°	90.1	90.1
10°	88.7	88.7
12.5°	87.3	88.7
15°	87.3	87.3
17.5°	84.5	85.9
20°	83.1	84.5
22.5°	81.7	83.1
25°	80.4	81.7
27.5°	79.0	80.4
30°	77.6	80.4
32.5°	76.2	79.0
35°	76.2	79.0
37.5°	76.2	80.4
40°	76.2	80.4
42.5°	76.2	80.4
45°	76.2	80.4
47.5°	76.2	80.4
50°	76.2	81.7
52.5°	76.2	81.7
55°	76.2	80.4
57.5°	74.8	80.4
60°	74.8	79.0
62.5°	73.4	77.6
65°	70.7	74.8
67.5°	67.9	73.4
70°	63.7	69.3
72.5°	59.6	63.7
75°	54.0	58.2
77.5°	47.1	49.9
80°	37.4	41.6
82.5°	29.1	31.9
85°	19.4	20.8
87.5°	8.3	9.7
90°	0.0	0.0

(END OF REPORT)