

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: P1311537

Luminaire Tested: P3SQAS17R559050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311537
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: P3SQAS17R559050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

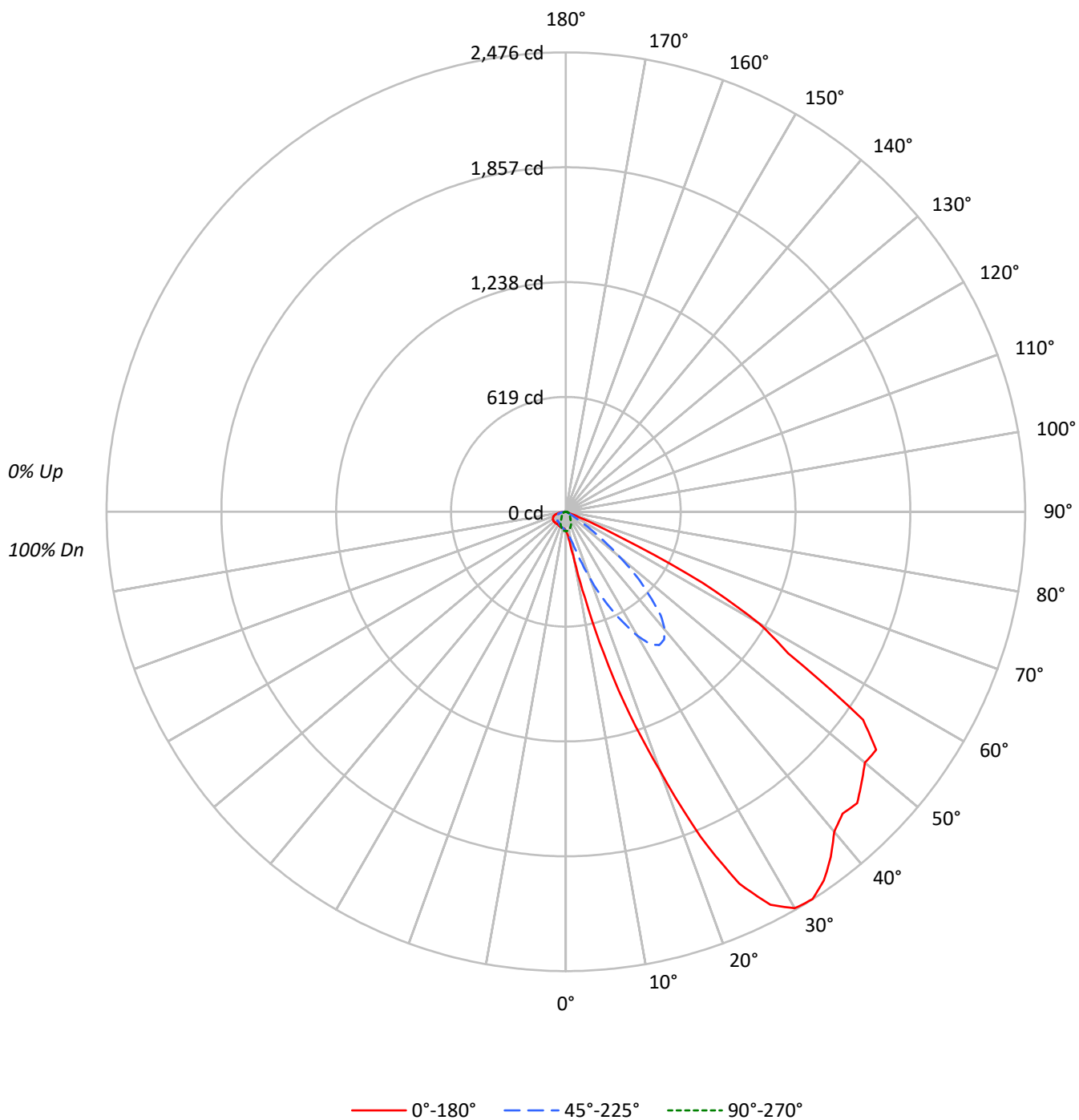
Lumens per Lamp: N/A
Luminaire Lumens: 1592.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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°	17687	17687	17687	17687	17687
5°	22613	20677	17755	16545	16043
10°	45993	26319	17226	15739	15739
15°	141194	40384	16047	15298	15797
20°	273007	70634	14442	14955	15725
25°	420187	109854	12561	14442	15772
30°	490641	153564	10341	14259	16227
35°	509844	184532	8578	14192	16862
40°	505981	186264	7914	14861	18345
45°	540970	154173	7526	16099	19874
50°	563807	101760	7529	17335	22238
55°	587070	44349	7597	19007	24501
60°	414747	10161	7750	20839	27625
65°	135294	3423	7457	22372	30971
70°	4230	3525	7805	24069	35399
75°	3726	3726	6521	25286	39326
80°	2777	4166	6943	25092	41854
85°	2766	5533	8299	25096	41694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 596509 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.7
10°-20°	67.6	4.2
20°-30°	226.6	14.2
30°-40°	372.1	23.4
40°-50°	415.1	26.1
50°-60°	349.4	21.9
60°-70°	118.5	7.4
70°-80°	23.2	1.5
80°-90°	8.7	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°	305.1	19.2
0°-40°	677.2	42.5
0°-60°	1441.6	90.6
0°-90°	1592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1592.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	103	103	103	103	103	
5°	131	120	103	96	93	16
15°	792	226	90	86	89	251
25°	2211	578	66	76	83	994
35°	2425	878	41	68	80	1506
45°	2221	633	31	66	82	1696
55°	1955	148	25	63	82	1592
65°	332	8	18	55	76	450
75°	6	6	10	38	59	6
85°	1	3	4	13	21	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7
2.5°	112.5	112.5	112.5	112.5	112.5	112.5	111.1	106.9	104.1	99.9	98.5
5°	130.8	130.8	130.8	129.4	129.4	126.6	119.6	109.7	102.7	97.1	95.7
7.5°	168.8	167.4	164.6	163.2	158.9	157.5	132.2	112.5	101.3	94.2	92.8
10°	263.0	260.2	256.0	240.5	226.5	216.6	150.5	113.9	98.5	91.4	90.0
12.5°	474.0	468.4	447.3	415.0	375.6	355.9	180.0	115.3	94.2	88.6	88.6
15°	791.9	784.9	745.5	700.5	628.8	589.4	226.5	113.9	90.0	84.4	85.8
17.5°	1143.6	1123.9	1083.1	1024.0	927.0	880.5	295.4	111.1	84.4	81.6	84.4
20°	1489.6	1484.0	1416.5	1336.3	1216.7	1154.8	385.4	106.9	78.8	77.4	81.6
22.5°	1894.7	1870.8	1799.1	1713.3	1548.7	1467.1	482.5	101.3	73.1	73.1	78.8
25°	2211.2	2183.1	2126.8	2026.9	1870.8	1783.6	578.1	94.2	66.1	68.9	76.0
27.5°	2388.5	2356.1	2313.9	2228.1	2107.1	2029.8	673.8	85.8	59.1	64.7	73.1
30°	2467.2	2458.8	2427.8	2364.5	2253.4	2184.5	772.2	76.0	52.0	60.5	71.7
32.5°	2475.7	2479.9	2467.2	2426.4	2342.0	2283.0	845.4	67.5	46.4	57.7	68.9
35°	2425.0	2440.5	2448.9	2432.1	2377.2	2329.4	877.7	57.7	40.8	54.9	67.5
37.5°	2346.3	2374.4	2402.5	2406.7	2373.0	2342.0	869.3	49.2	38.0	53.5	67.5
40°	2250.6	2275.9	2333.6	2370.2	2358.9	2336.4	828.5	40.8	35.2	50.6	66.1
42.5°	2207.0	2212.6	2274.5	2336.4	2333.6	2315.3	756.8	32.4	32.4	50.6	66.1
45°	2221.1	2195.7	2236.5	2308.3	2304.1	2280.1	633.0	25.3	30.9	49.2	66.1
47.5°	2162.0	2126.8	2195.7	2280.1	2264.7	2229.5	523.3	18.3	29.5	47.8	64.7
50°	2104.3	2098.7	2152.1	2194.3	2173.2	2153.5	379.8	14.1	28.1	46.4	64.7
52.5°	2108.5	2098.7	2104.3	2102.9	2060.7	2039.6	260.2	11.3	26.7	45.0	64.7
55°	1955.2	1924.3	1894.7	1903.2	1906.0	1891.9	147.7	9.8	25.3	45.0	63.3
57.5°	1420.7	1412.3	1444.6	1536.0	1607.8	1616.2	71.7	9.8	23.9	43.6	61.9
60°	1204.1	1198.4	1199.9	1226.6	1264.6	1240.6	29.5	9.8	22.5	42.2	60.5
62.5°	829.9	884.8	907.3	969.2	943.8	910.1	11.3	11.3	21.1	39.4	59.1
65°	332.0	330.6	361.5	391.0	382.6	357.3	8.4	9.8	18.3	36.6	54.9
67.5°	77.4	70.3	60.5	52.0	43.6	35.2	8.4	9.8	16.9	33.8	52.0
70°	8.4	8.4	8.4	8.4	8.4	7.0	7.0	9.8	15.5	30.9	47.8
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.4	12.7	26.7	43.6
75°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.0	9.8	22.5	38.0
77.5°	4.2	4.2	4.2	5.6	4.2	5.6	5.6	7.0	8.4	18.3	32.4
80°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	5.6	7.0	15.5	25.3
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.6	11.3	18.3
85°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2	4.2	8.4	12.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2	4.2	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	102.7	102.7
2.5°	97.1	97.1
5°	94.2	92.8
7.5°	91.4	91.4
10°	90.0	90.0
12.5°	88.6	90.0
15°	88.6	88.6
17.5°	85.8	87.2
20°	84.4	85.8
22.5°	83.0	84.4
25°	81.6	83.0
27.5°	80.2	81.6
30°	78.8	81.6
32.5°	77.4	80.2
35°	77.4	80.2
37.5°	77.4	81.6
40°	77.4	81.6
42.5°	77.4	81.6
45°	77.4	81.6
47.5°	77.4	81.6
50°	77.4	83.0
52.5°	77.4	83.0
55°	77.4	81.6
57.5°	76.0	81.6
60°	76.0	80.2
62.5°	74.6	78.8
65°	71.7	76.0
67.5°	68.9	74.6
70°	64.7	70.3
72.5°	60.5	64.7
75°	54.9	59.1
77.5°	47.8	50.6
80°	38.0	42.2
82.5°	29.5	32.4
85°	19.7	21.1
87.5°	8.4	9.8
90°	0.0	0.0

(END OF REPORT)