

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: P1311213

Luminaire Tested: P3SQAS09R559050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311213
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: P3SQAS09R559050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

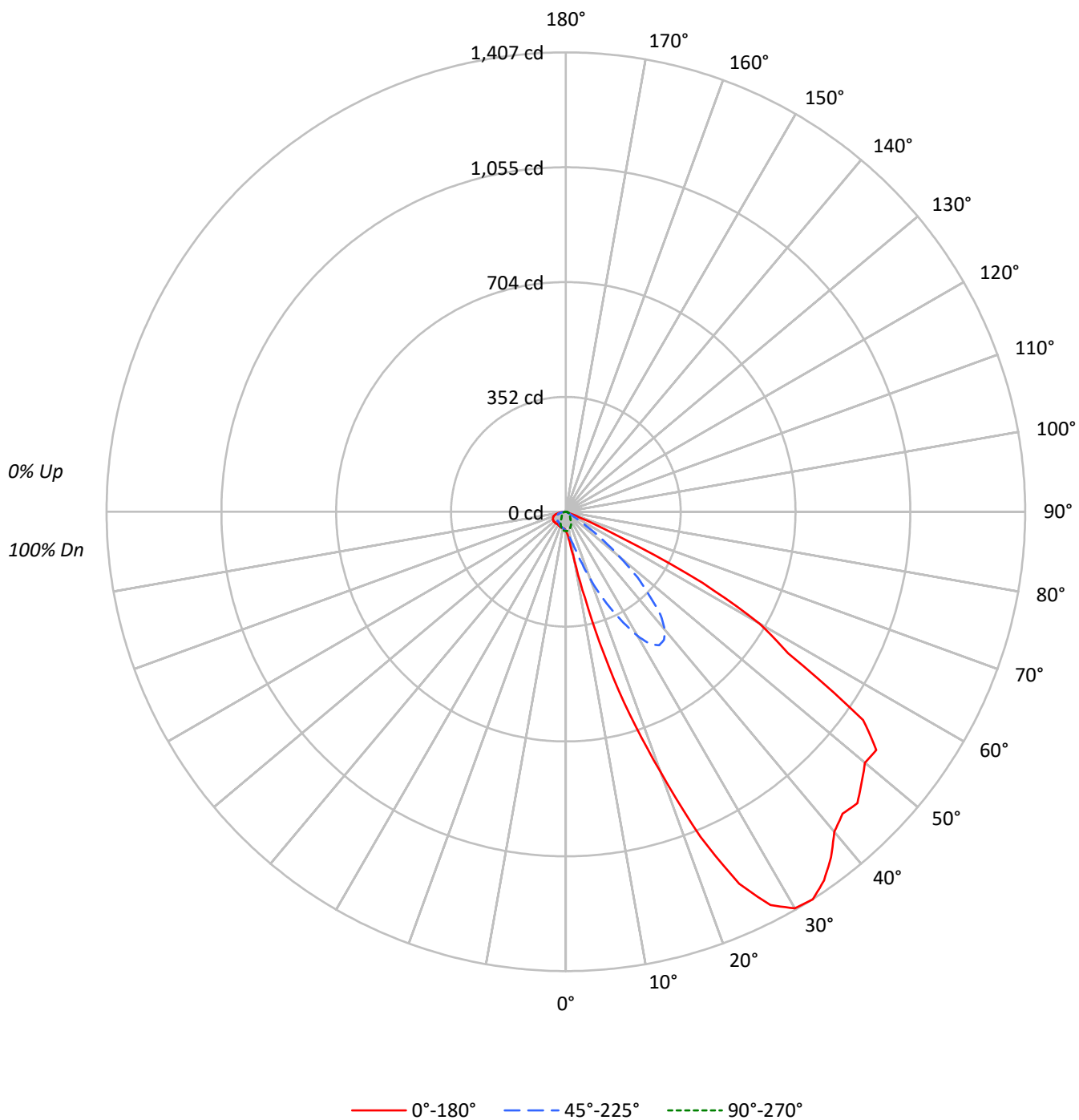
Lumens per Lamp: N/A
Luminaire Lumens: 905.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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°	10058	10058	10058	10058	10058
5°	12862	11756	10096	9405	9128
10°	26144	14970	9793	8954	8954
15°	80270	22947	9129	8701	8986
20°	155198	40156	8211	8504	8944
25°	238864	62443	7145	8209	8969
30°	278909	87302	5886	8114	9227
35°	289823	104912	4878	8073	9587
40°	287636	105891	4496	8453	10432
45°	307518	87633	4287	9158	11301
50°	320499	57846	4287	9860	12646
55°	333740	25222	4324	10809	13932
60°	235773	5787	4409	11849	15707
65°	76898	1956	4238	12714	17605
70°	2417	2014	4431	13696	20142
75°	2129	2129	3726	14373	22358
80°	1587	2380	3967	14282	23803
85°	1581	3162	4742	14227	23712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 339092 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.7
10°-20°	38.4	4.2
20°-30°	128.8	14.2
30°-40°	211.5	23.4
40°-50°	236.0	26.1
50°-60°	198.6	21.9
60°-70°	67.4	7.4
70°-80°	13.2	1.5
80°-90°	4.9	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°	173.4	19.2
0°-40°	385.0	42.5
0°-60°	819.6	90.6
0°-90°	905.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	74	68	58	54	53	9
15°	450	129	51	49	50	143
25°	1257	329	38	43	47	565
35°	1378	499	23	38	46	856
45°	1263	360	18	38	46	964
55°	1112	84	14	36	46	905
65°	189	5	10	31	43	256
75°	3	3	6	22	34	3
85°	1	2	2	7	12	1
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°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	64.0	64.0	64.0	64.0	64.0	64.0	63.2	60.8	59.2	56.8	56.0
5°	74.4	74.4	74.4	73.6	73.6	72.0	68.0	62.4	58.4	55.2	54.4
7.5°	96.0	95.2	93.6	92.8	90.4	89.6	75.2	64.0	57.6	53.6	52.8
10°	149.5	147.9	145.5	136.7	128.7	123.1	85.6	64.8	56.0	52.0	51.2
12.5°	269.5	266.3	254.3	235.9	213.5	202.3	102.4	65.6	53.6	50.4	50.4
15°	450.2	446.2	423.8	398.2	357.4	335.0	128.7	64.8	51.2	48.0	48.8
17.5°	650.1	638.9	615.7	582.1	527.0	500.6	167.9	63.2	48.0	46.4	48.0
20°	846.8	843.6	805.2	759.6	691.7	656.5	219.1	60.8	44.8	44.0	46.4
22.5°	1077.1	1063.5	1022.7	973.9	880.4	834.0	274.3	57.6	41.6	41.6	44.8
25°	1257.0	1241.0	1209.0	1152.3	1063.5	1013.9	328.6	53.6	37.6	39.2	43.2
27.5°	1357.8	1339.4	1315.4	1266.6	1197.8	1153.9	383.0	48.8	33.6	36.8	41.6
30°	1402.5	1397.7	1380.1	1344.2	1281.0	1241.8	439.0	43.2	29.6	34.4	40.8
32.5°	1407.3	1409.7	1402.5	1379.3	1331.4	1297.8	480.6	38.4	26.4	32.8	39.2
35°	1378.5	1387.3	1392.1	1382.5	1351.4	1324.2	499.0	32.8	23.2	31.2	38.4
37.5°	1333.8	1349.8	1365.8	1368.2	1349.0	1331.4	494.2	28.0	21.6	30.4	38.4
40°	1279.4	1293.8	1326.6	1347.4	1341.0	1328.2	471.0	23.2	20.0	28.8	37.6
42.5°	1254.6	1257.8	1293.0	1328.2	1326.6	1316.2	430.2	18.4	18.4	28.8	37.6
45°	1262.6	1248.2	1271.4	1312.2	1309.8	1296.2	359.8	14.4	17.6	28.0	37.6
47.5°	1229.0	1209.0	1248.2	1296.2	1287.4	1267.4	297.5	10.4	16.8	27.2	36.8
50°	1196.2	1193.0	1223.4	1247.4	1235.4	1224.2	215.9	8.0	16.0	26.4	36.8
52.5°	1198.6	1193.0	1196.2	1195.4	1171.4	1159.5	147.9	6.4	15.2	25.6	36.8
55°	1111.5	1093.9	1077.1	1081.9	1083.5	1075.5	84.0	5.6	14.4	25.6	36.0
57.5°	807.6	802.8	821.2	873.2	914.0	918.8	40.8	5.6	13.6	24.8	35.2
60°	684.5	681.3	682.1	697.3	718.9	705.3	16.8	5.6	12.8	24.0	34.4
62.5°	471.8	503.0	515.8	550.9	536.5	517.4	6.4	6.4	12.0	22.4	33.6
65°	188.7	187.9	205.5	222.3	217.5	203.1	4.8	5.6	10.4	20.8	31.2
67.5°	44.0	40.0	34.4	29.6	24.8	20.0	4.8	5.6	9.6	19.2	29.6
70°	4.8	4.8	4.8	4.8	4.8	4.0	4.0	5.6	8.8	17.6	27.2
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	7.2	15.2	24.8
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0	5.6	12.8	21.6
77.5°	2.4	2.4	2.4	3.2	2.4	3.2	3.2	4.0	4.8	10.4	18.4
80°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2	4.0	8.8	14.4
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.2	6.4	10.4
85°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	2.4	4.8	7.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	2.4	3.2
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°	58.4	58.4
2.5°	55.2	55.2
5°	53.6	52.8
7.5°	52.0	52.0
10°	51.2	51.2
12.5°	50.4	51.2
15°	50.4	50.4
17.5°	48.8	49.6
20°	48.0	48.8
22.5°	47.2	48.0
25°	46.4	47.2
27.5°	45.6	46.4
30°	44.8	46.4
32.5°	44.0	45.6
35°	44.0	45.6
37.5°	44.0	46.4
40°	44.0	46.4
42.5°	44.0	46.4
45°	44.0	46.4
47.5°	44.0	46.4
50°	44.0	47.2
52.5°	44.0	47.2
55°	44.0	46.4
57.5°	43.2	46.4
60°	43.2	45.6
62.5°	42.4	44.8
65°	40.8	43.2
67.5°	39.2	42.4
70°	36.8	40.0
72.5°	34.4	36.8
75°	31.2	33.6
77.5°	27.2	28.8
80°	21.6	24.0
82.5°	16.8	18.4
85°	11.2	12.0
87.5°	4.8	5.6
90°	0.0	0.0

(END OF REPORT)