

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: P1305993

Luminaire Tested: P3SQAS13R659024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

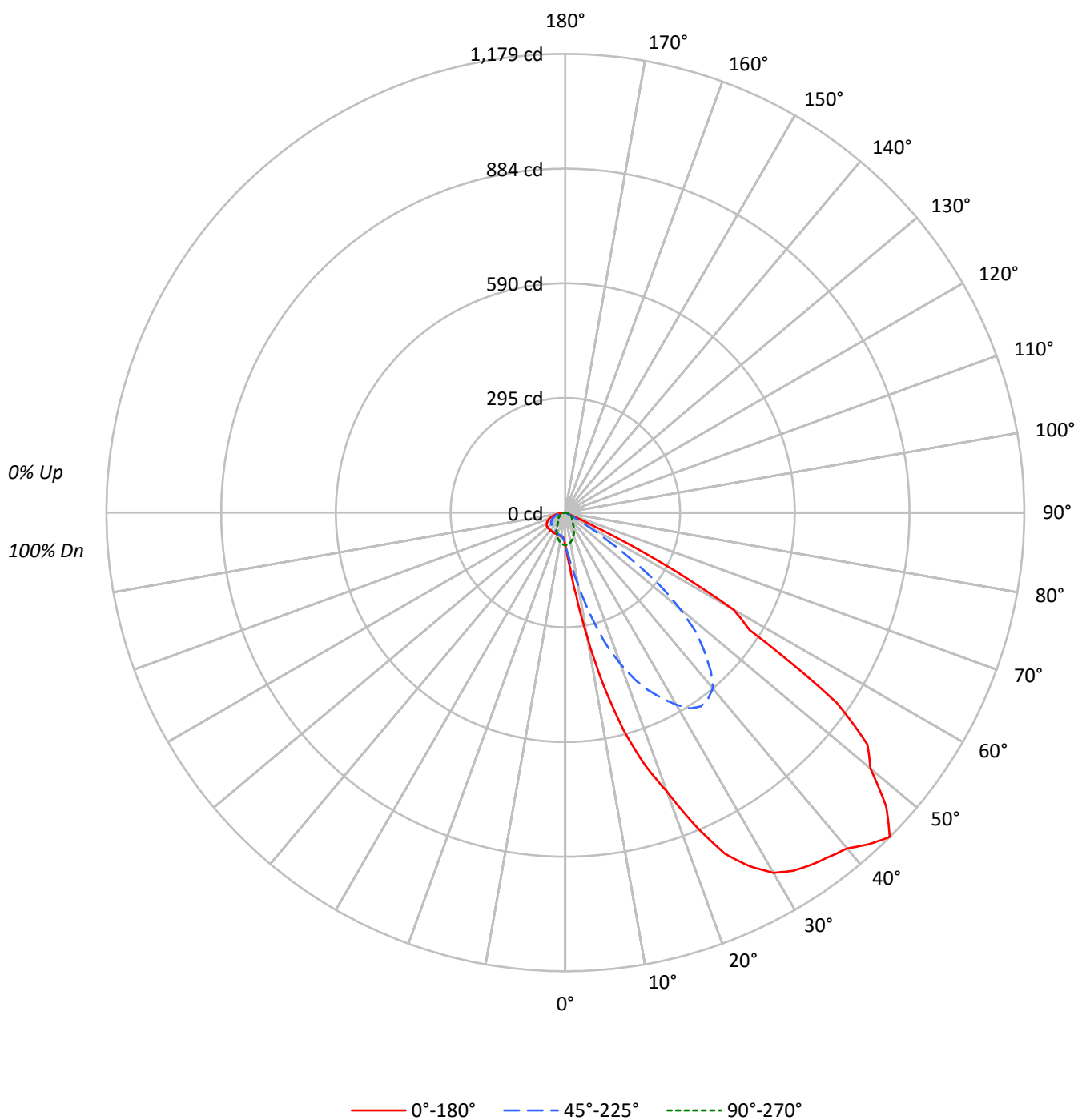
Lumens per Lamp: N/A
Luminaire Lumens: 855.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
RW	70	50	30	10	70	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
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14329	14329	14329	14329	14329
5°	25050	20452	14072	11410	10961
10°	56678	32982	13501	10493	10650
15°	103021	53044	12534	10555	10858
20°	139674	75729	11308	10520	10997
25°	183604	95621	9938	10261	11250
30°	212587	113373	8531	10222	11773
35°	232153	127787	7211	10449	12447
40°	253261	132599	6362	10994	13309
45°	287108	122973	6065	11691	14419
50°	274254	102671	5975	12405	15862
55°	255612	57650	6185	13392	17505
60°	172154	12400	6200	14157	18910
65°	26570	3138	5950	14670	20620
70°	3021	3021	5589	15106	22005
75°	2861	2861	5124	14839	22225
80°	2579	3372	5058	13588	22117
85°	1778	3359	5138	13635	20353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 287108 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	1.2
10°-20°	54.4	6.4
20°-30°	127.7	14.9
30°-40°	193.0	22.6
40°-50°	221.8	25.9
50°-60°	176.1	20.6
60°-70°	52.8	6.2
70°-80°	14.3	1.7
80°-90°	4.8	0.6
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°	192.2	22.5
0°-40°	385.2	45.0
0°-60°	783.1	91.6
0°-90°	855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	855.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	145	118	81	66	63	19
15°	578	298	70	59	61	166
25°	966	503	52	54	59	441
35°	1104	608	34	50	59	693
45°	1179	505	25	48	59	876
55°	851	192	21	45	58	701
65°	65	8	15	36	51	146
75°	4	4	8	22	33	5
85°	1	2	3	7	10	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°	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2.5°	105.4	106.3	105.4	105.4	104.6	103.7	97.7	90.9	83.2	77.2	72.9
5°	144.9	145.7	143.2	143.2	141.5	138.9	118.3	98.6	81.4	72.0	66.0
7.5°	214.3	217.7	213.5	208.3	198.9	197.2	147.5	106.3	79.7	66.9	61.7
10°	324.1	321.5	317.2	306.9	290.6	282.9	188.6	114.0	77.2	63.4	60.0
12.5°	456.9	450.1	444.9	426.1	403.8	390.9	240.0	120.9	73.7	60.0	59.2
15°	577.8	572.7	560.7	542.7	515.2	504.9	297.5	125.2	70.3	57.4	59.2
17.5°	679.8	674.7	667.8	649.8	621.5	606.1	361.8	127.7	66.0	55.7	58.3
20°	762.1	758.7	749.3	734.7	706.4	691.8	413.2	127.7	61.7	54.0	57.4
22.5°	868.4	860.7	848.7	827.3	792.1	769.8	462.1	125.2	57.4	52.3	55.7
25°	966.2	961.0	945.6	919.9	882.1	859.9	503.2	120.0	52.3	49.7	54.0
27.5°	1024.4	1021.0	1006.4	979.9	937.9	920.7	537.5	112.3	47.2	47.2	53.2
30°	1069.0	1062.2	1047.6	1021.9	979.0	958.4	570.1	102.9	42.9	44.6	51.4
32.5°	1091.3	1088.7	1075.9	1053.6	1011.6	988.4	596.7	90.9	37.7	42.9	50.6
35°	1104.2	1101.6	1091.3	1069.9	1030.4	1008.2	607.8	79.7	34.3	41.1	49.7
37.5°	1114.5	1111.9	1099.0	1077.6	1038.2	1015.0	602.7	67.7	30.9	39.4	48.9
40°	1126.5	1117.0	1097.3	1075.9	1039.9	1017.6	589.8	56.6	28.3	38.6	48.9
42.5°	1155.6	1123.0	1092.2	1072.5	1038.2	1012.4	552.9	44.6	25.7	36.9	48.0
45°	1178.8	1121.3	1081.9	1066.5	1031.3	1002.2	504.9	32.6	24.9	36.0	48.0
47.5°	1117.9	1082.7	1064.7	1056.2	1018.4	986.7	455.2	22.3	24.0	35.1	47.2
50°	1023.6	1019.3	1012.4	1013.3	979.0	953.3	383.2	15.4	22.3	34.3	46.3
52.5°	978.2	973.0	961.0	952.4	918.1	895.9	303.5	12.0	21.4	33.4	45.4
55°	851.3	854.7	841.8	847.0	836.7	825.6	192.0	11.1	20.6	31.7	44.6
57.5°	560.7	577.8	607.8	643.8	676.4	698.7	103.7	11.1	18.9	30.9	42.9
60°	499.8	495.5	494.6	501.5	516.1	528.1	36.0	10.3	18.0	28.3	41.1
62.5°	273.5	271.8	297.5	341.2	366.9	369.5	10.3	10.3	16.3	26.6	38.6
65°	65.2	67.7	75.4	94.3	111.4	122.6	7.7	9.4	14.6	24.9	36.0
67.5°	10.3	11.1	11.1	13.7	15.4	15.4	6.9	8.6	12.9	22.3	33.4
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.7	11.1	19.7	30.0
72.5°	5.1	5.1	5.1	5.1	5.1	5.1	6.0	6.9	9.4	17.1	25.7
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	6.0	7.7	13.7	22.3
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.3	5.1	6.9	11.1	18.0
80°	2.6	2.6	2.6	2.6	2.6	2.6	3.4	4.3	5.1	8.6	13.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.4	4.3	6.9	10.3
85°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6	2.6	4.3	6.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6	3.4
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°	83.2	83.2
2.5°	70.3	69.4
5°	63.4	63.4
7.5°	60.9	60.9
10°	60.0	60.9
12.5°	60.0	60.9
15°	60.0	60.9
17.5°	60.0	60.9
20°	59.2	60.0
22.5°	58.3	59.2
25°	57.4	59.2
27.5°	56.6	59.2
30°	56.6	59.2
32.5°	56.6	59.2
35°	55.7	59.2
37.5°	55.7	59.2
40°	55.7	59.2
42.5°	55.7	59.2
45°	55.7	59.2
47.5°	55.7	59.2
50°	55.7	59.2
52.5°	54.9	59.2
55°	54.9	58.3
57.5°	53.2	56.6
60°	51.4	54.9
62.5°	49.7	53.2
65°	47.2	50.6
67.5°	44.6	47.2
70°	40.3	43.7
72.5°	36.0	38.6
75°	30.9	33.4
77.5°	25.7	28.3
80°	20.6	22.3
82.5°	14.6	16.3
85°	9.4	10.3
87.5°	4.3	4.3
90°	0.0	0.0

(END OF REPORT)