

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: P1316386

Luminaire Tested: P3SQAS17R309827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R309827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

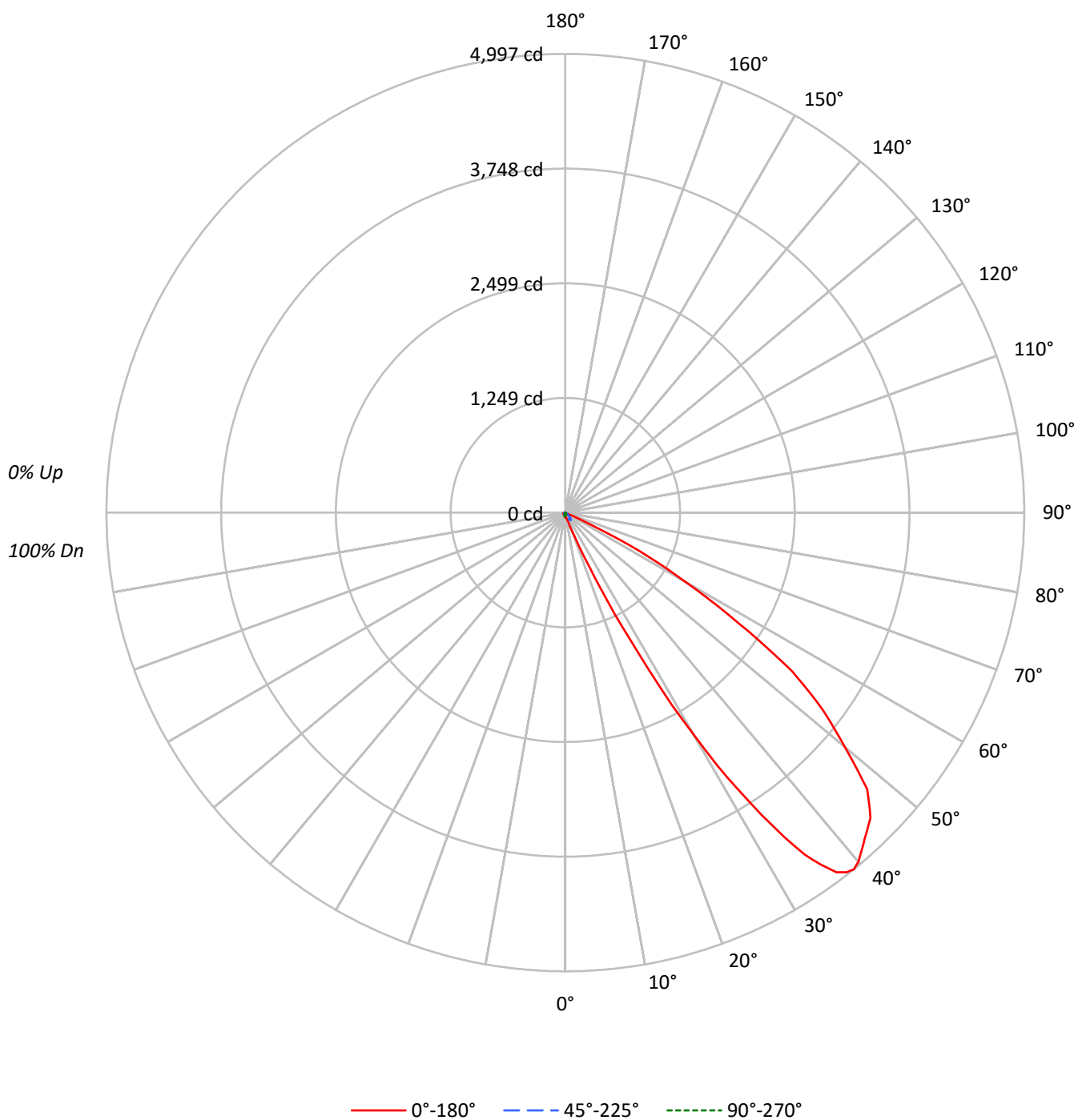
Lumens per Lamp: N/A
Luminaire Lumens: 1299.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8663	8663	8663	8663	8663
5°	9266	9076	8506	7762	7572
10°	10143	8989	7467	6698	6506
15°	14834	8968	6240	5652	5848
20°	37297	9824	4820	4820	5407
25°	173209	12276	3744	4371	4998
30°	551414	16963	2824	4136	5011
35°	956804	20709	2292	3911	5067
40°	1115875	20661	1731	3934	5171
45°	1144389	14662	1875	4262	5602
50°	1064221	8199	1474	4394	6457
55°	904506	4264	1651	4924	7236
60°	522386	1137	1894	5270	7922
65°	106565	0	2241	6235	8925
70°	1662	554	2769	7150	10474
75°	1464	732	2928	7253	12377
80°	1091	1091	4364	8728	14083
85°	0	2174	8695	8695	17389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1144389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.4
10°-20°	13.1	1.0
20°-30°	74.9	5.8
30°-40°	349.9	26.9
40°-50°	494.8	38.1
50°-60°	304.4	23.4
60°-70°	46.4	3.6
70°-80°	7.3	0.6
80°-90°	3.7	0.3
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°	92.6	7.1
0°-40°	442.4	34.1
0°-60°	1241.6	95.6
0°-90°	1299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1299.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	54	52	49	45	44	5
15°	83	50	35	32	33	30
25°	912	65	20	23	26	561
35°	4551	98	11	19	24	2731
45°	4699	60	8	18	23	3562
55°	3012	14	6	16	24	2563
65°	262	0	6	15	22	473
75°	2	1	4	11	19	2
85°	0	1	4	4	9	0
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°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	51.4	51.4	52.5	52.5	51.4	52.5	52.5	52.5	50.3	49.2	47.1
5°	53.6	53.6	53.6	54.7	53.6	53.6	52.5	51.4	49.2	46.0	44.9
7.5°	55.8	55.8	54.7	55.8	54.7	54.7	52.5	50.3	47.1	43.8	41.6
10°	58.0	58.0	56.9	56.9	55.8	55.8	51.4	48.1	42.7	39.4	38.3
12.5°	64.6	64.6	63.5	62.4	60.2	59.1	50.3	44.9	38.3	35.0	33.9
15°	83.2	82.1	79.9	76.6	71.1	70.0	50.3	41.6	35.0	31.7	31.7
17.5°	113.8	112.7	109.4	100.7	90.8	87.5	50.3	37.2	30.6	28.4	28.4
20°	203.5	194.8	178.4	156.5	133.5	121.5	53.6	32.8	26.3	25.2	26.3
21°	265.9	257.1	236.4	200.2	159.8	146.6	55.8	31.7	25.2	24.1	26.3
22°	362.2	352.3	309.7	260.4	202.4	179.5	56.9	29.5	23.0	23.0	25.2
23°	505.5	489.1	416.9	338.1	252.8	219.9	59.1	28.4	21.9	23.0	24.1
24°	662.0	647.8	565.7	447.5	322.8	275.7	61.3	27.4	20.8	20.8	23.0
25°	911.5	895.1	749.5	564.6	409.2	331.5	64.6	25.2	19.7	19.7	23.0
26°	1234.3	1158.8	965.1	727.7	504.4	415.8	67.8	24.1	18.6	19.7	21.9
27°	1540.7	1478.3	1260.5	933.4	623.7	511.0	72.2	23.0	17.5	18.6	21.9
28°	1943.3	1855.8	1581.2	1180.7	785.7	618.2	76.6	21.9	16.4	18.6	20.8
29°	2394.2	2271.6	1940.1	1458.6	968.4	738.6	81.0	20.8	15.3	17.5	20.8
30°	2772.8	2657.9	2326.3	1788.0	1178.5	897.3	85.3	19.7	14.2	17.5	20.8
31°	3217.0	3043.0	2641.5	2067.0	1359.0	1055.9	89.7	17.5	13.1	16.4	19.7
32°	3577.0	3455.6	3028.8	2382.1	1596.5	1231.0	93.0	16.4	13.1	16.4	19.7
33°	3925.0	3761.9	3349.4	2684.1	1810.9	1410.5	96.3	15.3	12.0	15.3	19.7
34°	4257.6	4107.7	3652.5	2928.1	2013.4	1581.2	98.5	13.1	12.0	15.3	18.6
35°	4550.9	4376.9	3919.5	3166.7	2221.3	1736.5	98.5	12.0	10.9	14.2	18.6
36°	4741.3	4616.5	4151.5	3401.9	2409.5	1884.3	98.5	10.9	9.8	14.2	17.5
37°	4904.3	4758.8	4337.5	3582.5	2548.4	2002.4	98.5	9.8	9.8	14.2	17.5
38°	4971.1	4846.3	4465.5	3742.2	2678.7	2122.8	97.4	8.8	8.8	13.1	17.5
39°	4997.3	4885.7	4561.8	3857.1	2774.9	2203.8	95.2	7.7	8.8	13.1	17.5
40°	4963.4	4879.1	4611.1	3931.5	2851.5	2262.9	91.9	6.6	7.7	13.1	17.5
42.5°	4823.3	4767.5	4600.1	4005.9	2917.2	2306.6	79.9	4.4	7.7	12.0	17.5
45°	4698.6	4637.3	4489.6	3928.3	2831.8	2220.2	60.2	2.2	7.7	12.0	17.5
47.5°	4456.8	4418.5	4302.5	3730.2	2644.7	2025.4	42.7	1.1	6.6	10.9	16.4
50°	3972.0	3935.9	3782.7	3238.9	2274.9	1712.5	30.6	1.1	5.5	10.9	16.4
52.5°	3537.6	3499.3	3279.4	2692.9	1747.5	1255.1	19.7	1.1	5.5	10.9	16.4
55°	3012.4	2945.6	2656.8	2044.0	1238.7	841.5	14.2	1.1	5.5	9.8	16.4
57.5°	2230.0	2132.6	1874.4	1394.0	713.4	456.3	7.7	1.1	5.5	9.8	16.4
60°	1516.6	1458.6	1173.0	735.3	304.2	192.6	3.3	1.1	5.5	9.8	15.3
62.5°	919.1	845.8	589.8	312.9	131.3	87.5	0.0	2.2	5.5	9.8	15.3
65°	261.5	232.0	154.3	71.1	37.2	28.4	0.0	2.2	5.5	9.8	15.3
67.5°	8.8	8.8	8.8	7.7	5.5	5.5	1.1	2.2	5.5	9.8	14.2
70°	3.3	3.3	3.3	2.2	2.2	1.1	1.1	2.2	5.5	8.8	14.2
72.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	2.2	4.4	7.7	13.1
75°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.3	4.4	7.7	10.9
77.5°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.3	4.4	6.6	10.9
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.3	4.4	6.6	8.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	3.3	4.4	4.4	6.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	4.4	3.3	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	3.3	3.3	2.2
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°	50.3	50.3
2.5°	47.1	47.1
5°	43.8	43.8
7.5°	40.5	40.5
10°	37.2	37.2
12.5°	35.0	35.0
15°	31.7	32.8
17.5°	29.5	30.6
20°	28.4	29.5
21°	28.4	29.5
22°	27.4	28.4
23°	27.4	28.4
24°	26.3	27.4
25°	25.2	26.3
26°	25.2	26.3
27°	25.2	26.3
28°	24.1	26.3
29°	24.1	25.2
30°	24.1	25.2
31°	23.0	25.2
32°	23.0	25.2
33°	23.0	24.1
34°	21.9	24.1
35°	21.9	24.1
36°	21.9	24.1
37°	21.9	23.0
38°	21.9	24.1
39°	21.9	23.0
40°	21.9	23.0
42.5°	21.9	23.0
45°	21.9	23.0
47.5°	21.9	24.1
50°	21.9	24.1
52.5°	21.9	24.1
55°	21.9	24.1
57.5°	21.9	23.0
60°	21.9	23.0
62.5°	20.8	23.0
65°	20.8	21.9
67.5°	20.8	21.9
70°	19.7	20.8
72.5°	18.6	19.7
75°	16.4	18.6
77.5°	15.3	16.4
80°	13.1	14.2

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	10.9	10.9
85°	7.7	8.8
87.5°	4.4	4.4
90°	0.0	0.0

(END OF REPORT)