

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: P1311717

Luminaire Tested: P3SQAS24R159050D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R159050D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

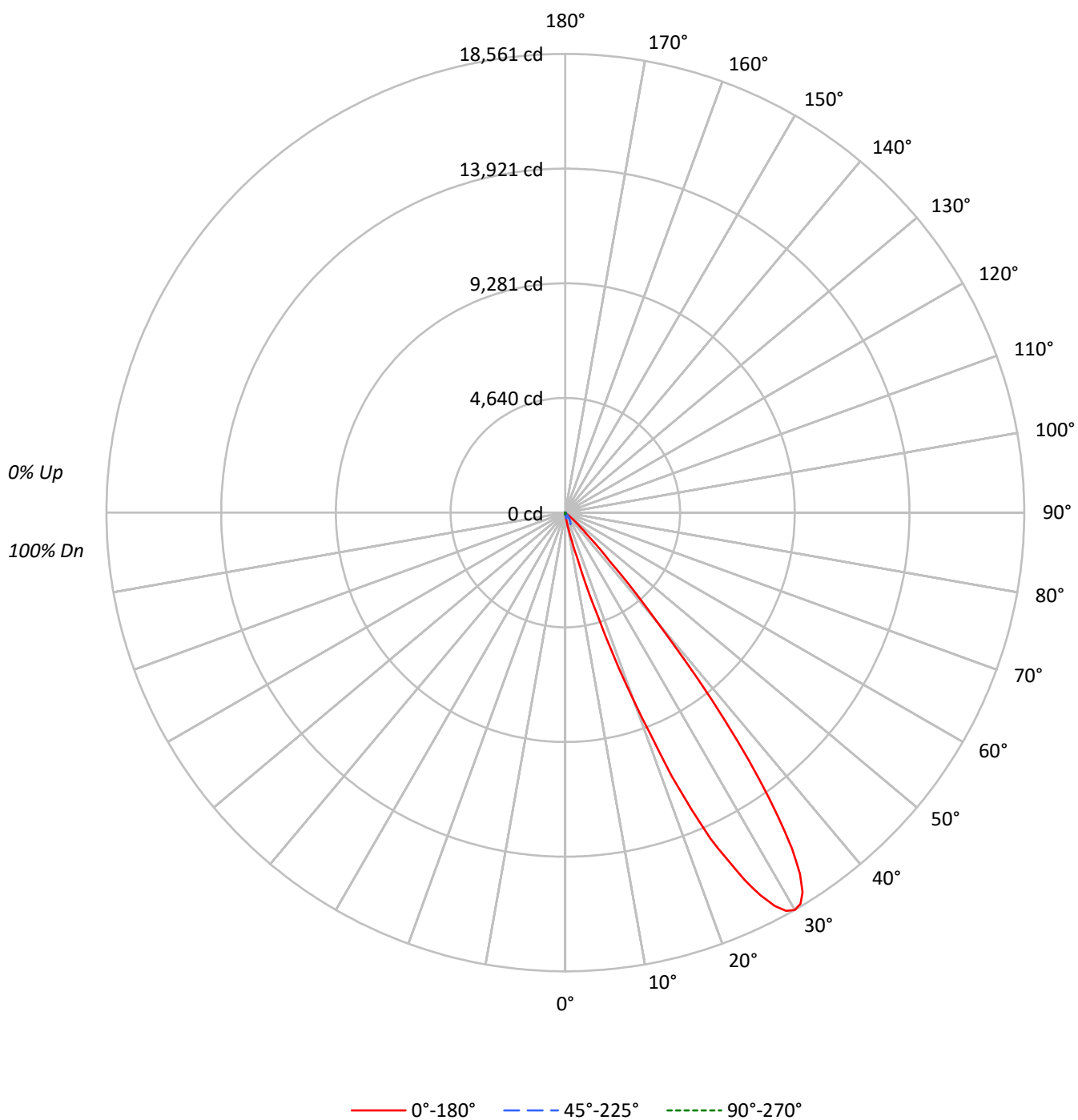
Lumens per Lamp: N/A
Luminaire Lumens: 1963.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12090	12090	12090	12090	12090
5°	34974	26416	10356	4287	2853
10°	90972	39348	6855	0	0
15°	363621	64401	3673	0	0
20°	1485650	94955	1136	0	0
25°	2936805	94139	0	0	0
30°	3691204	74296	0	0	0
35°	3149449	45560	0	0	0
40°	1296631	14389	0	0	0
45°	280532	6040	0	0	0
50°	35956	0	0	0	0
55°	3093	0	631	0	0
60°	0	0	1412	0	0
65°	0	0	1671	0	0
70°	0	1057	3122	0	0
75°	0	1397	4126	0	0
80°	0	2083	6149	0	0
85°	0	4150	12251	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 293611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.5
10°-20°	137.6	7.0
20°-30°	801.8	40.8
30°-40°	859.8	43.8
40°-50°	145.1	7.4
50°-60°	4.4	0.2
60°-70°	1.3	0.1
70°-80°	1.9	0.1
80°-90°	1.7	0.1
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°	948.8	48.3
0°-40°	1808.6	92.1
0°-60°	1958.1	99.7
0°-90°	1963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	202	153	60	25	16	28
15°	2039	361	21	0	0	943
25°	15455	495	0	0	0	6992
35°	14980	217	0	0	0	8609
45°	1152	25	0	0	0	1361
55°	10	0	2	0	0	26
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	128.0	130.0	132.1	132.1	132.1	132.1	130.0	130.0	130.0	130.0	128.0
5°	202.3	202.3	202.3	202.3	202.3	202.3	200.2	200.2	200.2	200.2	200.2
7.5°	289.0	284.9	286.9	280.7	284.9	282.8	280.7	284.9	284.9	274.5	274.5
10°	520.2	518.1	497.5	501.6	505.7	503.7	503.7	491.3	489.2	481.0	472.7
12.5°	1003.2	1025.9	1042.4	1042.4	1003.2	1017.7	990.8	997.0	1001.1	988.8	945.4
15°	2039.4	2076.6	2037.4	2074.5	2060.1	2006.4	1946.5	1866.0	1897.0	1841.3	1822.7
17.5°	4466.9	4551.6	4516.5	4345.1	4400.9	4268.8	4186.2	4155.2	4068.5	3810.5	3703.2
20°	8106.1	8209.3	8112.3	7912.1	7976.1	7726.3	7662.3	7602.5	7218.5	7078.1	6628.1
21°	9637.8	9722.4	9759.5	9551.1	9423.1	9224.9	9059.8	9006.1	8772.9	8502.4	8040.1
22°	11487.3	11388.2	11165.3	11194.2	11004.3	10841.2	10612.1	10395.3	10135.2	9757.5	9375.6
23°	13018.9	12903.3	12798.0	12670.1	12465.7	12350.1	12021.9	11784.5	11446.0	11041.4	10674.0
24°	14445.3	14267.8	14201.7	13974.6	13916.8	13656.8	13390.5	13080.8	12672.1	12240.7	11834.1
25°	15454.7	15481.5	15423.7	15396.9	15101.7	14835.4	14571.2	14094.4	13745.5	13363.6	12738.2
26°	16536.3	16548.7	16519.8	16321.6	16055.4	15795.3	15454.7	15039.8	14534.0	14110.9	13545.3
27°	17364.1	17314.5	17273.2	17037.9	16819.1	16490.9	16181.3	15690.0	15196.6	14693.0	14036.6
28°	18024.6	17931.7	17880.1	17677.8	17421.9	17019.3	16639.5	16181.3	15687.9	15147.1	14437.0
29°	18423.0	18323.9	18266.1	18043.2	17748.0	17395.0	17011.1	16507.4	15976.9	15374.2	14660.0
30°	18561.3	18503.5	18412.7	18181.5	17876.0	17508.6	17114.3	16567.3	16012.0	15394.8	14639.3
31°	18470.5	18396.2	18309.5	18059.7	17729.4	17378.5	16920.3	16346.4	15762.2	15173.9	14373.0
32°	18109.2	18063.8	17958.5	17624.1	17355.8	16901.7	16449.6	15912.9	15275.1	14643.4	13918.9
33°	17432.2	17357.9	17267.0	16961.5	16618.9	16183.3	15733.3	15184.3	14550.6	13883.8	13087.0
34°	16400.1	16305.1	16191.6	15987.2	15549.6	15171.9	14651.7	14009.7	13485.4	12845.5	12125.1
35°	14979.9	14841.6	14705.4	14550.6	14059.3	13710.4	13359.5	12800.1	12294.4	11691.6	10876.3
36°	13386.3	13332.7	13221.2	12812.5	12653.6	12178.8	11896.0	11254.0	10845.3	10254.9	9582.0
37°	11584.3	11268.5	11429.5	11200.4	10721.5	10572.8	10236.4	9685.2	9243.5	8620.1	8133.0
38°	9652.2	9445.8	9559.3	9328.1	9078.4	8735.7	8479.7	8077.2	7581.8	7092.6	6630.2
39°	7649.9	7482.7	7606.6	7449.7	7069.9	6927.5	6700.4	6392.8	5994.4	5612.6	5175.0
40°	5767.4	5552.7	5717.8	5494.9	5321.5	5088.3	4972.7	4689.9	4442.2	4213.0	3934.4
42.5°	2633.9	2611.2	2574.1	2493.6	2475.0	2477.0	2334.6	2241.7	2115.8	1969.2	1880.5
45°	1151.8	1180.7	1205.5	1160.1	1158.0	1133.2	1125.0	1063.1	1038.3	990.8	933.0
47.5°	567.7	578.0	571.8	584.2	573.8	557.3	553.2	544.9	520.2	518.1	491.3
50°	134.2	132.1	132.1	134.2	132.1	132.1	130.0	125.9	123.9	125.9	119.7
52.5°	43.3	45.4	43.3	41.3	43.3	45.4	43.3	43.3	43.3	43.3	43.3
55°	10.3	10.3	10.3	10.3	10.3	10.3	8.3	8.3	10.3	10.3	10.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	125.9	107.3	88.8	70.2	51.6	41.3	39.2	37.2
5°	189.9	152.8	101.1	59.9	35.1	24.8	18.6	16.5
7.5°	256.0	189.9	111.5	49.5	24.8	10.3	4.1	2.1
10°	367.4	225.0	115.6	39.2	12.4	0.0	0.0	0.0
12.5°	720.4	258.0	113.5	31.0	2.1	0.0	0.0	0.0
15°	1197.2	361.2	105.3	20.6	0.0	0.0	0.0	0.0
17.5°	1961.0	466.5	90.8	14.4	0.0	0.0	0.0	0.0
20°	3040.6	518.1	70.2	6.2	0.0	0.0	0.0	0.0
21°	3564.9	522.2	61.9	4.1	0.0	0.0	0.0	0.0
22°	4019.0	522.2	53.7	2.1	0.0	0.0	0.0	0.0
23°	4440.1	516.1	47.5	0.0	0.0	0.0	0.0	0.0
24°	4786.9	507.8	43.3	0.0	0.0	0.0	0.0	0.0
25°	5047.0	495.4	39.2	0.0	0.0	0.0	0.0	0.0
26°	5166.7	478.9	33.0	0.0	0.0	0.0	0.0	0.0
27°	5226.6	456.2	28.9	0.0	0.0	0.0	0.0	0.0
28°	5185.3	431.4	24.8	0.0	0.0	0.0	0.0	0.0
29°	5082.1	404.6	18.6	0.0	0.0	0.0	0.0	0.0
30°	4947.9	373.6	14.4	0.0	0.0	0.0	0.0	0.0
31°	4751.8	342.7	10.3	0.0	0.0	0.0	0.0	0.0
32°	4483.4	311.7	8.3	0.0	0.0	0.0	0.0	0.0
33°	4124.3	278.7	4.1	0.0	0.0	0.0	0.0	0.0
34°	3680.5	245.6	2.1	0.0	0.0	0.0	0.0	0.0
35°	3183.0	216.7	0.0	0.0	0.0	0.0	0.0	0.0
36°	2755.7	185.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	2326.4	148.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	1948.6	117.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	1612.1	95.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1335.5	64.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	739.0	43.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	447.9	24.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	260.1	8.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	99.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8.3	0.0	0.0	2.1	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	2.1	4.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	2.1	4.1	2.1	0.0	0.0	0.0
65°	0.0	0.0	4.1	4.1	2.1	0.0	0.0	0.0
67.5°	0.0	0.0	4.1	6.2	2.1	0.0	0.0	0.0
70°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
72.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
75°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
77.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
80°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
85°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
87.5°	0.0	2.1	4.1	6.2	2.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)