

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: P1311284

Luminaire Tested: P3SQAS13R209050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R209050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

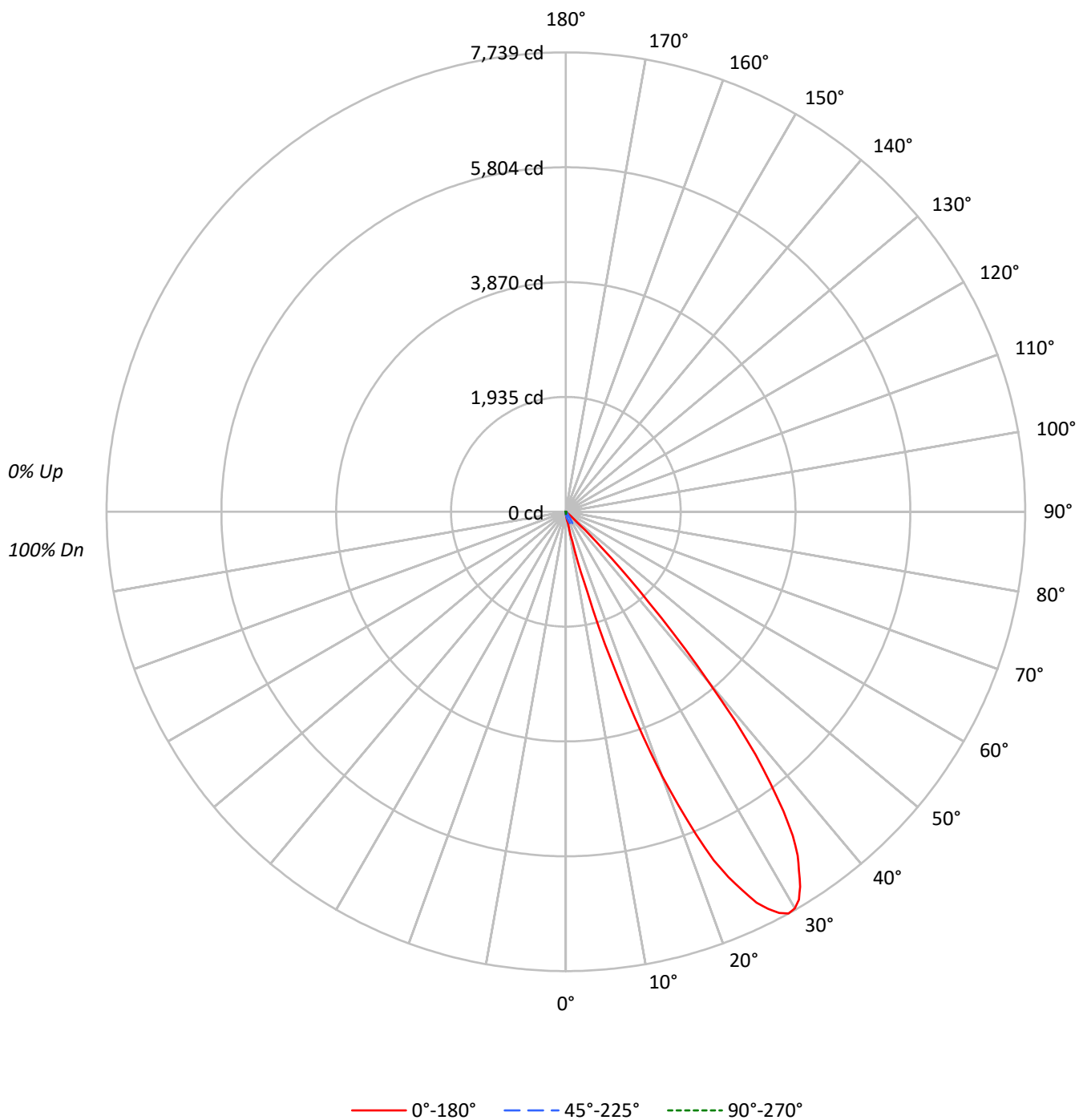
Lumens per Lamp: N/A
Luminaire Lumens: 1068.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1311284

CATALOG NUMBER: P3SQAS13R209050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311284

CATALOG NUMBER: P3SQAS13R209050DE010 E3SQCA301MMS

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	93	93	93	92
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	63	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	57	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	46	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6579	6579	6579	6579	6579
5°	14315	10096	6068	2749	2023
10°	35658	17838	4267	560	0
15°	250937	24427	2461	0	0
20°	867241	41072	971	0	0
25°	1336781	52485	399	0	0
30°	1534367	40549	0	0	0
35°	1401304	15411	0	0	0
40°	840087	7172	0	0	0
45°	206441	3361	0	0	0
50°	22774	857	0	0	0
55°	3183	0	330	0	0
60°	0	0	723	0	0
65°	0	0	856	0	0
70°	0	554	1611	0	0
75°	0	732	2129	0	0
80°	0	1091	3174	0	0
85°	0	2174	6323	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 220154 cd/sqm

TEST NUMBER: P1311284

CATALOG NUMBER: P3SQAS13R209050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.4
10°-20°	83.4	7.8
20°-30°	421.9	39.5
30°-40°	456.5	42.7
40°-50°	96.4	9.0
50°-60°	2.9	0.3
60°-70°	0.7	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	509.7	47.7
0°-40°	966.1	90.5
0°-60°	1065.4	99.8
0°-90°	1068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1068.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	83	58	35	16	12	12
15°	1407	137	14	0	0	587
25°	7035	276	2	0	0	3180
35°	6665	73	0	0	0	3930
45°	848	14	0	0	0	932
55°	11	0	1	0	0	19
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311284

CATALOG NUMBER: P3SQAS13R209050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
2.5°	52.0	51.0	52.0	51.0	52.0	52.0	52.0	51.0	51.0	51.0	51.0
5°	82.8	82.8	81.8	82.8	82.8	82.8	82.8	81.8	81.8	80.7	80.7
7.5°	130.6	130.6	129.6	129.6	130.6	131.7	127.5	129.6	129.6	129.6	128.5
10°	203.9	208.2	203.9	209.2	205.0	201.8	207.1	201.8	201.8	200.7	197.6
12.5°	514.1	502.4	495.0	476.9	495.0	481.2	484.3	481.2	470.5	456.7	448.2
15°	1407.4	1407.4	1365.9	1421.2	1380.8	1395.7	1319.2	1320.3	1281.0	1238.5	1215.1
17.5°	2942.2	2968.7	2941.1	2924.1	2888.0	2836.0	2814.7	2760.6	2689.4	2606.5	2597.0
20°	4731.9	4620.4	4672.5	4624.7	4594.9	4531.2	4460.0	4415.4	4352.7	4247.6	4092.5
21°	5294.9	5290.6	5289.6	5288.5	5245.0	5140.9	5076.1	4986.9	4898.7	4790.4	4660.8
22°	5862.1	5882.3	5890.8	5829.2	5739.9	5693.2	5648.6	5526.4	5387.3	5331.0	5177.0
23°	6382.5	6363.4	6308.2	6279.5	6210.5	6196.7	6063.9	5986.4	5850.4	5788.8	5606.1
24°	6737.3	6727.7	6702.3	6659.8	6604.5	6519.6	6439.9	6317.7	6206.2	6105.3	5935.4
25°	7034.7	7043.2	6996.5	6967.8	6908.3	6812.7	6715.0	6581.2	6477.1	6359.2	6162.7
26°	7328.9	7269.4	7232.3	7189.8	7125.0	7015.6	6921.1	6801.0	6674.6	6542.9	6350.7
27°	7510.6	7457.5	7401.2	7359.7	7285.4	7181.3	7080.4	6947.6	6806.3	6673.6	6476.0
28°	7654.0	7595.5	7540.3	7490.4	7405.4	7293.9	7172.8	7037.9	6891.3	6754.3	6552.5
29°	7738.9	7669.9	7610.4	7554.1	7476.6	7355.5	7233.3	7088.9	6947.6	6804.2	6598.2
30°	7715.6	7656.1	7598.7	7541.4	7462.8	7349.1	7228.0	7089.9	6947.6	6806.3	6597.1
31°	7624.2	7550.9	7509.5	7452.1	7384.2	7268.4	7164.3	7013.5	6884.9	6732.0	6522.7
32°	7449.0	7402.2	7347.0	7302.4	7236.5	7113.3	7011.3	6888.1	6736.2	6610.9	6391.0
33°	7211.0	7167.5	7139.9	7087.8	7024.1	6939.1	6817.0	6704.4	6533.4	6404.8	6185.0
34°	6983.7	6928.5	6859.5	6844.6	6789.3	6679.9	6569.5	6454.8	6301.8	6138.2	5916.3
35°	6665.1	6607.7	6544.0	6549.3	6483.4	6356.0	6243.4	6114.9	5969.4	5777.1	5566.8
36°	6239.1	6200.9	6191.4	6165.9	6090.4	5938.6	5831.3	5669.8	5547.7	5312.9	5132.4
37°	5719.8	5733.6	5664.5	5631.6	5543.4	5437.2	5376.7	5169.6	5027.2	4850.9	4606.6
38°	5195.0	5174.9	5093.1	5113.3	4992.2	4881.7	4710.7	4587.5	4428.2	4264.6	4069.1
39°	4539.7	4489.8	4392.0	4396.3	4304.9	4180.7	4015.0	3869.5	3773.9	3616.7	3429.7
40°	3736.7	3715.4	3681.5	3625.2	3505.1	3451.0	3303.3	3146.1	3065.4	2847.7	2756.3
42.5°	2073.3	2044.7	1987.3	1967.1	1903.4	1839.7	1753.6	1648.5	1597.5	1532.7	1388.2
45°	847.6	903.9	890.1	874.2	825.3	828.5	766.9	774.3	718.0	679.8	653.2
47.5°	186.9	202.9	203.9	196.5	203.9	197.6	194.4	189.1	190.1	193.3	185.9
50°	85.0	83.9	86.0	85.0	83.9	82.8	81.8	78.6	80.7	78.6	76.5
52.5°	32.9	34.0	34.0	31.9	32.9	32.9	32.9	31.9	31.9	31.9	31.9
55°	10.6	10.6	10.6	9.6	9.6	10.6	10.6	10.6	10.6	10.6	9.6
57.5°	1.1	2.1	1.1	2.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
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



TEST NUMBER: P1311284

CATALOG NUMBER: P3SQAS13R209050DE010 E3SQCA301MMS

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

TEST NUMBER: P1311284

CATALOG NUMBER: P3SQAS13R209050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
2.5°	48.9	44.6	41.4	38.2	31.9	26.6	24.4	24.4
5°	75.4	58.4	43.5	35.1	24.4	15.9	12.7	11.7
7.5°	113.7	78.6	45.7	29.7	15.9	8.5	5.3	4.2
10°	164.6	102.0	47.8	24.4	9.6	3.2	0.0	0.0
12.5°	287.8	122.1	47.8	19.1	4.2	0.0	0.0	0.0
15°	659.6	137.0	45.7	13.8	1.1	0.0	0.0	0.0
17.5°	1370.2	172.1	40.4	9.6	0.0	0.0	0.0	0.0
20°	2188.1	224.1	31.9	5.3	0.0	0.0	0.0	0.0
21°	2524.8	242.2	28.7	4.2	0.0	0.0	0.0	0.0
22°	2766.9	259.2	25.5	3.2	0.0	0.0	0.0	0.0
23°	3033.5	269.8	22.3	2.1	0.0	0.0	0.0	0.0
24°	3230.0	276.2	19.1	2.1	0.0	0.0	0.0	0.0
25°	3352.2	276.2	17.0	2.1	0.0	0.0	0.0	0.0
26°	3424.4	269.8	14.9	1.1	0.0	0.0	0.0	0.0
27°	3441.4	259.2	12.7	1.1	0.0	0.0	0.0	0.0
28°	3420.2	245.4	10.6	0.0	0.0	0.0	0.0	0.0
29°	3353.3	225.2	9.6	0.0	0.0	0.0	0.0	0.0
30°	3281.0	203.9	7.4	0.0	0.0	0.0	0.0	0.0
31°	3157.8	175.3	6.4	0.0	0.0	0.0	0.0	0.0
32°	3015.5	145.5	5.3	0.0	0.0	0.0	0.0	0.0
33°	2825.4	114.7	4.2	0.0	0.0	0.0	0.0	0.0
34°	2544.9	90.3	4.2	0.0	0.0	0.0	0.0	0.0
35°	2293.2	73.3	3.2	0.0	0.0	0.0	0.0	0.0
36°	1963.9	58.4	3.2	0.0	0.0	0.0	0.0	0.0
37°	1682.5	48.9	3.2	0.0	0.0	0.0	0.0	0.0
38°	1408.4	41.4	2.1	0.0	0.0	0.0	0.0	0.0
39°	1142.9	36.1	2.1	0.0	0.0	0.0	0.0	0.0
40°	911.3	31.9	2.1	0.0	0.0	0.0	0.0	0.0
42.5°	491.8	21.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	271.9	13.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	120.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	40.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9.6	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	2.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.1	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.1	2.1	1.1	0.0	0.0	0.0
67.5°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.1	3.2	1.1	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	1.1	2.1	3.2	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.1	3.2	1.1	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)