

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: P1313373

Luminaire Tested: P3SQAS13R209730DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313373
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: P3SQAS13R209730DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

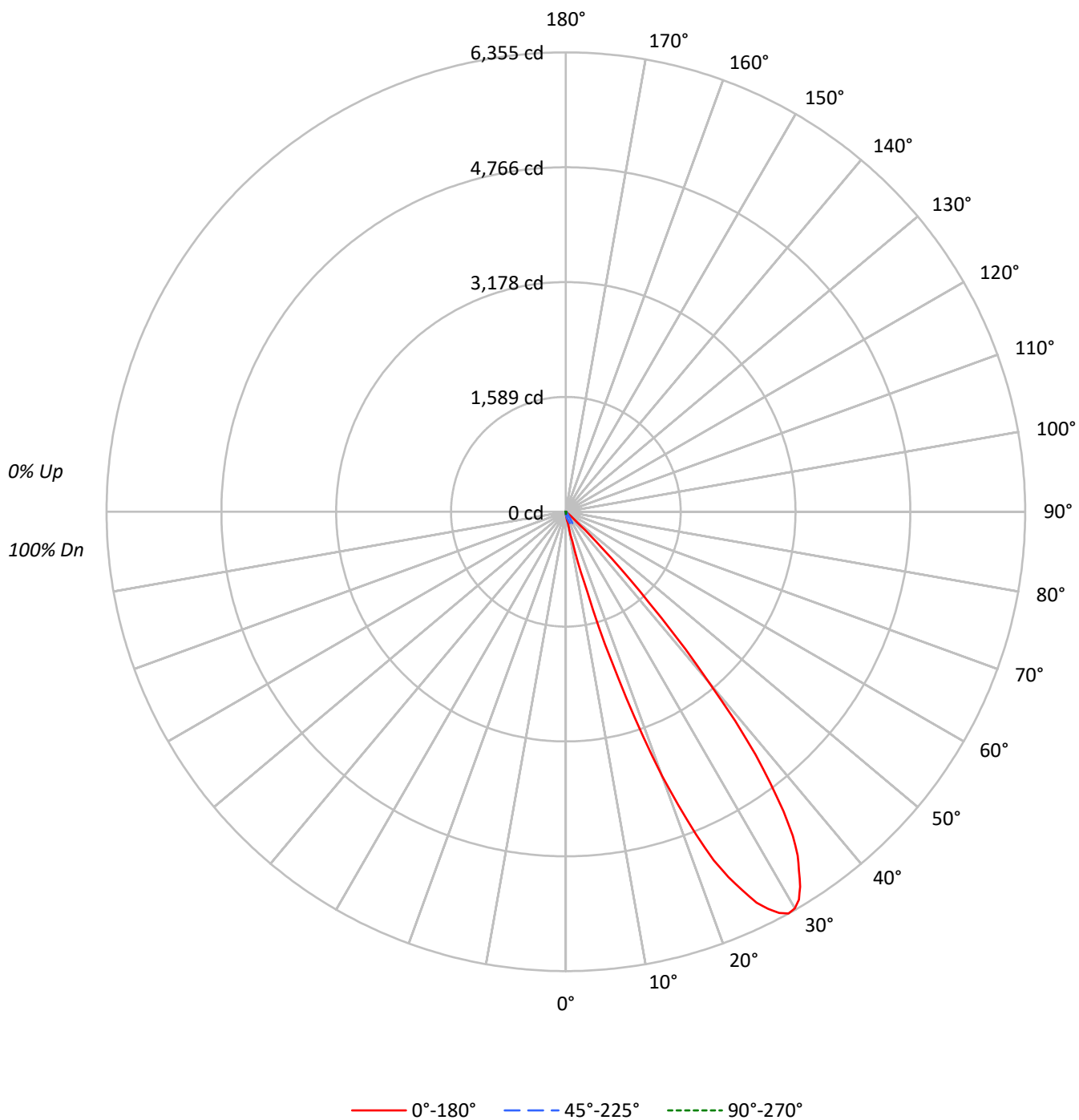
Lumens per Lamp: N/A
Luminaire Lumens: 877.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	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	50
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°	5408	5408	5408	5408	5408
5°	11756	8298	4979	2265	1660
10°	29292	14637	3515	455	0
15°	206059	20059	2015	0	0
20°	712154	33723	806	0	0
25°	1097708	43098	323	0	0
30°	1259953	33310	0	0	0
35°	1150692	12657	0	0	0
40°	689840	5890	0	0	0
45°	169517	2752	0	0	0
50°	18702	697	0	0	0
55°	2612	0	270	0	0
60°	0	0	586	0	0
65°	0	0	693	0	0
70°	0	453	1309	0	0
75°	0	599	1730	0	0
80°	0	893	2579	0	0
85°	0	1778	5138	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 180770 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.4
10°-20°	68.5	7.8
20°-30°	346.5	39.5
30°-40°	374.8	42.7
40°-50°	79.2	9.0
50°-60°	2.4	0.3
60°-70°	0.6	0.1
70°-80°	0.8	0.1
80°-90°	0.7	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°	418.5	47.7
0°-40°	793.3	90.5
0°-60°	874.9	99.8
0°-90°	877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	68	48	29	13	10	10
15°	1156	112	11	0	0	482
25°	5777	227	2	0	0	2611
35°	5473	60	0	0	0	3227
45°	696	11	0	0	0	766
55°	9	0	1	0	0	15
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	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	42.7	41.9	42.7	41.9	42.7	42.7	42.7	41.9	41.9	41.9	41.9
5°	68.0	68.0	67.2	68.0	68.0	68.0	68.0	67.2	67.2	66.3	66.3
7.5°	107.3	107.3	106.4	106.4	107.3	108.2	104.7	106.4	106.4	106.4	105.5
10°	167.5	171.0	167.5	171.8	168.3	165.7	170.1	165.7	165.7	164.8	162.2
12.5°	422.1	412.6	406.4	391.6	406.4	395.1	397.7	395.1	386.4	375.0	368.1
15°	1155.7	1155.7	1121.7	1167.0	1133.9	1146.1	1083.3	1084.2	1051.9	1017.0	997.8
17.5°	2416.0	2437.8	2415.1	2401.2	2371.5	2328.8	2311.3	2266.9	2208.4	2140.4	2132.5
20°	3885.7	3794.1	3836.8	3797.6	3773.2	3720.8	3662.4	3625.8	3574.3	3488.0	3360.6
21°	4348.0	4344.5	4343.6	4342.7	4307.0	4221.5	4168.3	4095.0	4022.6	3933.7	3827.2
22°	4813.7	4830.3	4837.3	4786.7	4713.4	4675.0	4638.4	4538.1	4423.8	4377.6	4251.1
23°	5241.1	5225.4	5180.0	5156.5	5099.8	5088.5	4979.4	4915.8	4804.1	4753.5	4603.5
24°	5532.4	5524.6	5503.6	5468.7	5423.4	5353.6	5288.2	5187.9	5096.3	5013.4	4873.9
25°	5776.6	5783.6	5745.2	5721.7	5672.8	5594.3	5514.1	5404.2	5318.7	5221.9	5060.5
26°	6018.2	5969.4	5938.9	5904.0	5850.8	5760.9	5683.3	5584.7	5481.0	5372.8	5214.9
27°	6167.4	6123.8	6077.5	6043.5	5982.5	5897.0	5814.1	5705.1	5589.1	5480.1	5317.8
28°	6285.1	6237.2	6191.8	6150.8	6081.0	5989.4	5890.0	5779.2	5658.9	5546.4	5380.6
29°	6354.9	6298.2	6249.4	6203.1	6139.5	6040.0	5939.7	5821.1	5705.1	5587.4	5418.2
30°	6335.7	6286.9	6239.8	6192.7	6128.1	6034.8	5935.4	5822.0	5705.1	5589.1	5417.3
31°	6260.7	6200.5	6166.5	6119.4	6063.6	5968.5	5883.0	5759.2	5653.6	5528.1	5356.2
32°	6116.8	6078.4	6033.1	5996.4	5942.3	5841.2	5757.4	5656.3	5531.5	5428.6	5248.1
33°	5921.4	5885.7	5863.0	5820.2	5767.9	5698.1	5597.8	5505.4	5364.9	5259.4	5078.9
34°	5734.8	5689.4	5632.7	5620.5	5575.1	5485.3	5394.6	5300.4	5174.8	5040.5	4858.2
35°	5473.1	5426.0	5373.7	5378.0	5324.0	5219.3	5126.8	5021.3	4901.8	4743.9	4571.2
36°	5123.3	5091.9	5084.1	5063.2	5001.2	4876.5	4788.4	4655.8	4555.5	4362.8	4214.5
37°	4696.8	4708.2	4651.5	4624.4	4552.1	4464.8	4415.1	4245.0	4128.2	3983.4	3782.8
38°	4266.0	4249.4	4182.2	4198.8	4099.4	4008.7	3868.2	3767.1	3636.2	3501.9	3341.4
39°	3727.8	3686.8	3606.6	3610.1	3535.1	3433.0	3296.9	3177.5	3099.0	2969.9	2816.4
40°	3068.4	3051.0	3023.1	2976.8	2878.3	2833.8	2712.6	2583.5	2517.2	2338.4	2263.4
42.5°	1702.5	1679.0	1631.9	1615.3	1563.0	1510.7	1440.0	1353.7	1311.8	1258.6	1140.0
45°	696.0	742.2	730.9	717.8	677.7	680.3	629.7	635.8	589.6	558.2	536.4
47.5°	153.5	166.6	167.5	161.4	167.5	162.2	159.6	155.3	156.1	158.7	152.6
50°	69.8	68.9	70.6	69.8	68.9	68.0	67.2	64.5	66.3	64.5	62.8
52.5°	27.0	27.9	27.9	26.2	27.0	27.0	27.0	26.2	26.2	26.2	26.2
55°	8.7	8.7	8.7	7.8	7.8	8.7	8.7	8.7	8.7	8.7	7.8
57.5°	0.9	1.7	0.9	1.7	0.9	0.9	0.9	0.9	0.9	1.7	1.7
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°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	40.1	36.6	34.0	31.4	26.2	21.8	20.1	20.1
5°	61.9	48.0	35.8	28.8	20.1	13.1	10.5	9.6
7.5°	93.3	64.5	37.5	24.4	13.1	7.0	4.4	3.5
10°	135.2	83.7	39.2	20.1	7.8	2.6	0.0	0.0
12.5°	236.4	100.3	39.2	15.7	3.5	0.0	0.0	0.0
15°	541.6	112.5	37.5	11.3	0.9	0.0	0.0	0.0
17.5°	1125.1	141.3	33.1	7.8	0.0	0.0	0.0	0.0
20°	1796.7	184.0	26.2	4.4	0.0	0.0	0.0	0.0
21°	2073.2	198.9	23.5	3.5	0.0	0.0	0.0	0.0
22°	2272.1	212.8	20.9	2.6	0.0	0.0	0.0	0.0
23°	2491.0	221.5	18.3	1.7	0.0	0.0	0.0	0.0
24°	2652.4	226.8	15.7	1.7	0.0	0.0	0.0	0.0
25°	2752.7	226.8	14.0	1.7	0.0	0.0	0.0	0.0
26°	2812.0	221.5	12.2	0.9	0.0	0.0	0.0	0.0
27°	2826.0	212.8	10.5	0.9	0.0	0.0	0.0	0.0
28°	2808.5	201.5	8.7	0.0	0.0	0.0	0.0	0.0
29°	2753.6	184.9	7.8	0.0	0.0	0.0	0.0	0.0
30°	2694.2	167.5	6.1	0.0	0.0	0.0	0.0	0.0
31°	2593.1	143.9	5.2	0.0	0.0	0.0	0.0	0.0
32°	2476.2	119.5	4.4	0.0	0.0	0.0	0.0	0.0
33°	2320.1	94.2	3.5	0.0	0.0	0.0	0.0	0.0
34°	2089.8	74.1	3.5	0.0	0.0	0.0	0.0	0.0
35°	1883.1	60.2	2.6	0.0	0.0	0.0	0.0	0.0
36°	1612.7	48.0	2.6	0.0	0.0	0.0	0.0	0.0
37°	1381.6	40.1	2.6	0.0	0.0	0.0	0.0	0.0
38°	1156.5	34.0	1.7	0.0	0.0	0.0	0.0	0.0
39°	938.5	29.7	1.7	0.0	0.0	0.0	0.0	0.0
40°	748.4	26.2	1.7	0.0	0.0	0.0	0.0	0.0
42.5°	403.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	223.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	98.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	33.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.8	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	1.7	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.7	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.7	1.7	0.9	0.0	0.0	0.0
67.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.7	2.6	0.9	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	0.9	1.7	2.6	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.7	2.6	0.9	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)