

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: P1317405

Luminaire Tested: P3SQAS20R309830D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309830D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

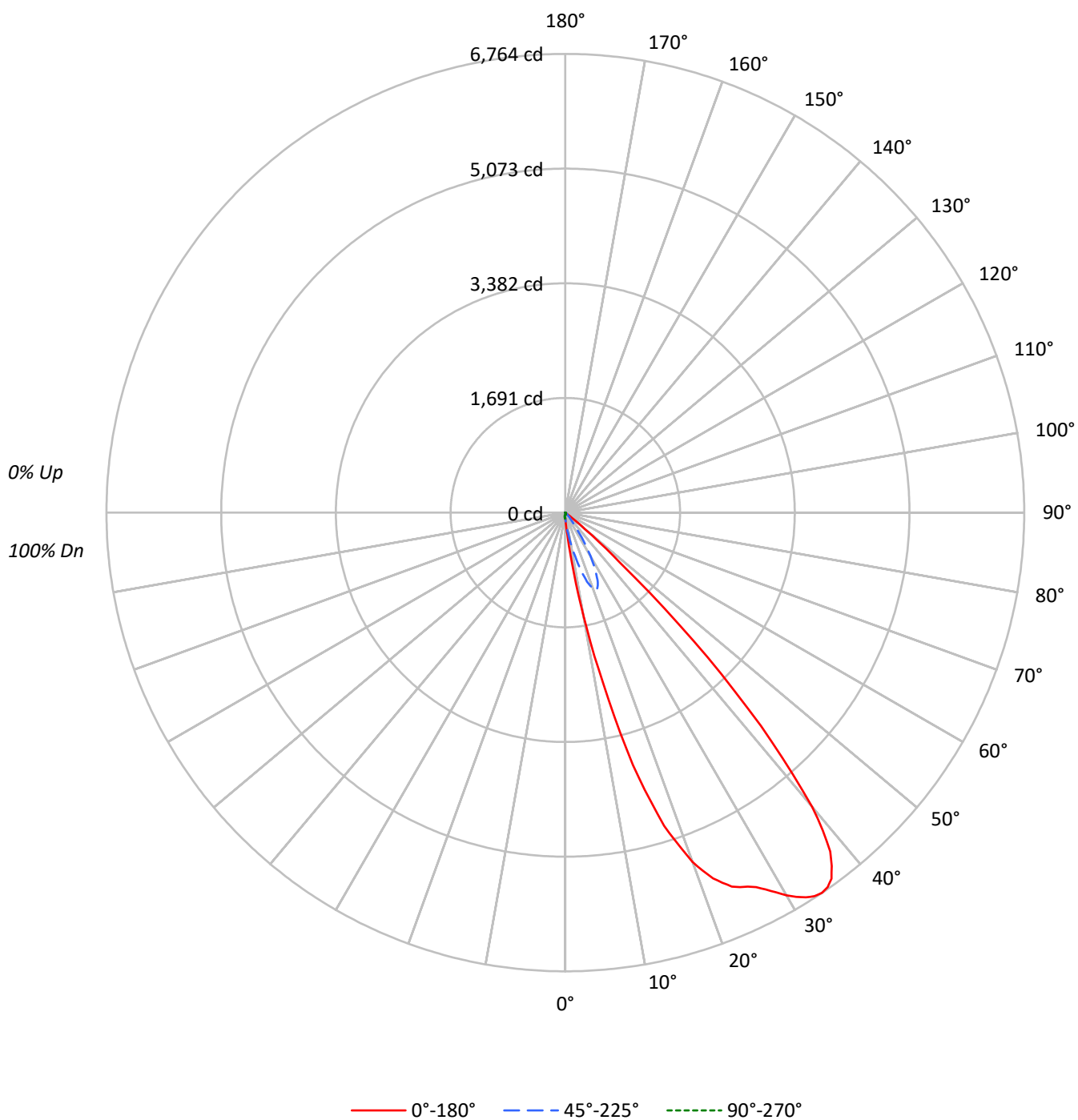
Lumens per Lamp: N/A
Luminaire Lumens: 1628.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

TEST NUMBER: P1317405

CATALOG NUMBER: P3SQAS20R309830D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317405

CATALOG NUMBER: P3SQAS20R309830D010 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	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15001	15001	15001	15001	15001
5°	54405	33815	13727	5549	3959
10°	269314	80952	10685	1067	0
15°	687000	154174	6811	0	0
20°	1003818	219252	2804	0	0
25°	1158098	215129	589	0	0
30°	1296106	147658	0	0	0
35°	1417493	63599	0	0	0
40°	1272238	24730	0	0	0
45°	649695	10059	0	0	0
50°	100287	1232	0	0	0
55°	5975	0	450	0	0
60°	0	0	517	0	0
65°	0	0	1263	0	0
70°	0	755	1561	0	0
75°	0	998	3061	0	0
80°	0	1488	4562	0	0
85°	0	2964	9090	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 649695 cd/sqm

TEST NUMBER: P1317405

CATALOG NUMBER: P3SQAS20R309830D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	1.1
10°-20°	216.9	13.3
20°-30°	536.1	32.9
30°-40°	616.5	37.9
40°-50°	228.7	14.0
50°-60°	8.3	0.5
60°-70°	0.8	0.0
70°-80°	1.4	0.1
80°-90°	1.2	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°	771.1	47.4
0°-40°	1387.6	85.2
0°-60°	1624.6	99.8
0°-90°	1628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	315	196	79	32	23	68
15°	3853	865	38	0	0	1108
25°	6094	1132	3	0	0	2816
35°	6742	302	0	0	0	4088
45°	2668	41	0	0	0	2077
55°	20	0	2	0	0	68
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1317405

CATALOG NUMBER: P3SQAS20R309830D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2.5°	154.3	155.8	155.8	151.3	149.7	148.2	143.6	129.9	108.5	87.1	70.3
5°	314.7	316.3	316.3	307.1	288.8	270.4	255.1	195.6	125.3	79.4	51.9
7.5°	742.5	744.0	711.9	675.3	601.9	563.8	493.5	301.0	142.1	71.8	33.6
10°	1540.0	1506.4	1422.4	1315.4	1202.4	1055.7	907.5	462.9	154.3	61.1	21.4
12.5°	2574.3	2542.2	2433.8	2281.0	2059.5	1772.2	1491.1	650.8	155.8	48.9	12.2
15°	3853.1	3762.9	3633.1	3379.5	3052.5	2607.9	2143.5	864.7	149.7	38.2	3.1
17.5°	4844.6	4762.1	4597.1	4300.7	3894.3	3400.9	2831.0	1067.9	132.9	24.4	0.0
20°	5477.1	5390.0	5235.7	4974.5	4542.1	3963.1	3310.7	1196.3	110.0	15.3	0.0
21°	5657.4	5573.4	5422.1	5162.4	4731.6	4154.1	3428.4	1223.8	99.3	12.2	0.0
22°	5816.3	5750.6	5610.0	5327.4	4888.9	4294.6	3547.5	1226.8	91.7	9.2	0.0
23°	5927.8	5880.5	5739.9	5480.2	5043.2	4409.2	3611.7	1208.5	82.5	6.1	0.0
24°	6034.8	5976.7	5856.0	5614.6	5165.5	4505.5	3669.7	1174.9	73.3	4.6	0.0
25°	6094.4	6027.1	5933.9	5707.8	5266.3	4566.6	3704.9	1132.1	64.2	3.1	0.0
26°	6135.6	6083.7	5981.3	5762.8	5309.1	4606.3	3709.5	1069.5	58.1	1.5	0.0
27°	6198.2	6146.3	6047.0	5811.7	5327.4	4600.2	3682.0	997.6	50.4	0.0	0.0
28°	6293.0	6224.2	6124.9	5863.7	5335.0	4574.2	3620.9	919.7	42.8	0.0	0.0
29°	6401.4	6331.2	6222.7	5932.4	5336.6	4522.3	3524.6	834.2	38.2	0.0	0.0
30°	6517.5	6456.4	6346.4	5999.6	5353.4	4455.0	3413.1	742.5	30.6	0.0	0.0
31°	6609.2	6554.2	6436.6	6060.7	5367.1	4397.0	3275.6	650.8	26.0	0.0	0.0
32°	6688.7	6639.8	6494.6	6074.5	5339.6	4314.5	3128.9	562.2	21.4	0.0	0.0
33°	6743.7	6682.5	6513.0	6039.4	5260.2	4178.5	2965.4	478.2	16.8	0.0	0.0
34°	6763.5	6690.2	6485.5	5947.7	5099.8	3972.3	2753.1	391.1	13.8	0.0	0.0
35°	6742.1	6652.0	6386.2	5790.3	4882.8	3726.3	2497.9	302.5	10.7	0.0	0.0
36°	6673.4	6558.8	6244.1	5565.7	4572.7	3436.0	2242.8	235.3	7.6	0.0	0.0
37°	6525.2	6398.4	6001.2	5269.3	4265.6	3102.9	1952.5	183.3	4.6	0.0	0.0
38°	6343.4	6160.0	5677.3	4895.0	3868.4	2728.6	1665.3	151.3	3.1	0.0	0.0
39°	6033.2	5831.6	5292.3	4464.2	3478.8	2372.7	1385.7	131.4	1.5	0.0	0.0
40°	5658.9	5419.1	4852.3	4002.8	3018.9	1999.9	1156.5	110.0	1.5	0.0	0.0
42.5°	4268.6	4065.4	3455.9	2722.5	1845.6	1179.5	641.7	71.8	0.0	0.0	0.0
45°	2667.5	2455.2	2042.7	1492.7	999.2	611.1	308.6	41.3	0.0	0.0	0.0
47.5°	1089.3	999.2	822.0	632.5	452.2	287.2	128.3	18.3	0.0	0.0	0.0
50°	374.3	333.1	279.6	204.7	145.1	99.3	67.2	4.6	0.0	0.0	0.0
52.5°	108.5	110.0	96.3	82.5	64.2	45.8	33.6	0.0	0.0	0.0	0.0
55°	19.9	16.8	19.9	18.3	19.9	16.8	12.2	0.0	0.0	1.5	0.0
57.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	0.0	1.5	1.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	4.6	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	4.6	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	4.6	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	4.6	1.5



TEST NUMBER: P1317405

CATALOG NUMBER: P3SQAS20R309830D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	4.6	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	4.6	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	4.6	1.5
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: P1317405

CATALOG NUMBER: P3SQAS20R309830D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	87.1	87.1	87.1
2.5°	56.5	50.4	47.4
5°	32.1	24.4	22.9
7.5°	16.8	10.7	9.2
10°	6.1	1.5	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



TEST NUMBER: P1317405

CATALOG NUMBER: P3SQAS20R309830D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	0.0	0.0

(END OF REPORT)