

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: P1312548

Luminaire Tested: P3SQAS17R209727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312548
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: P3SQAS17R209727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

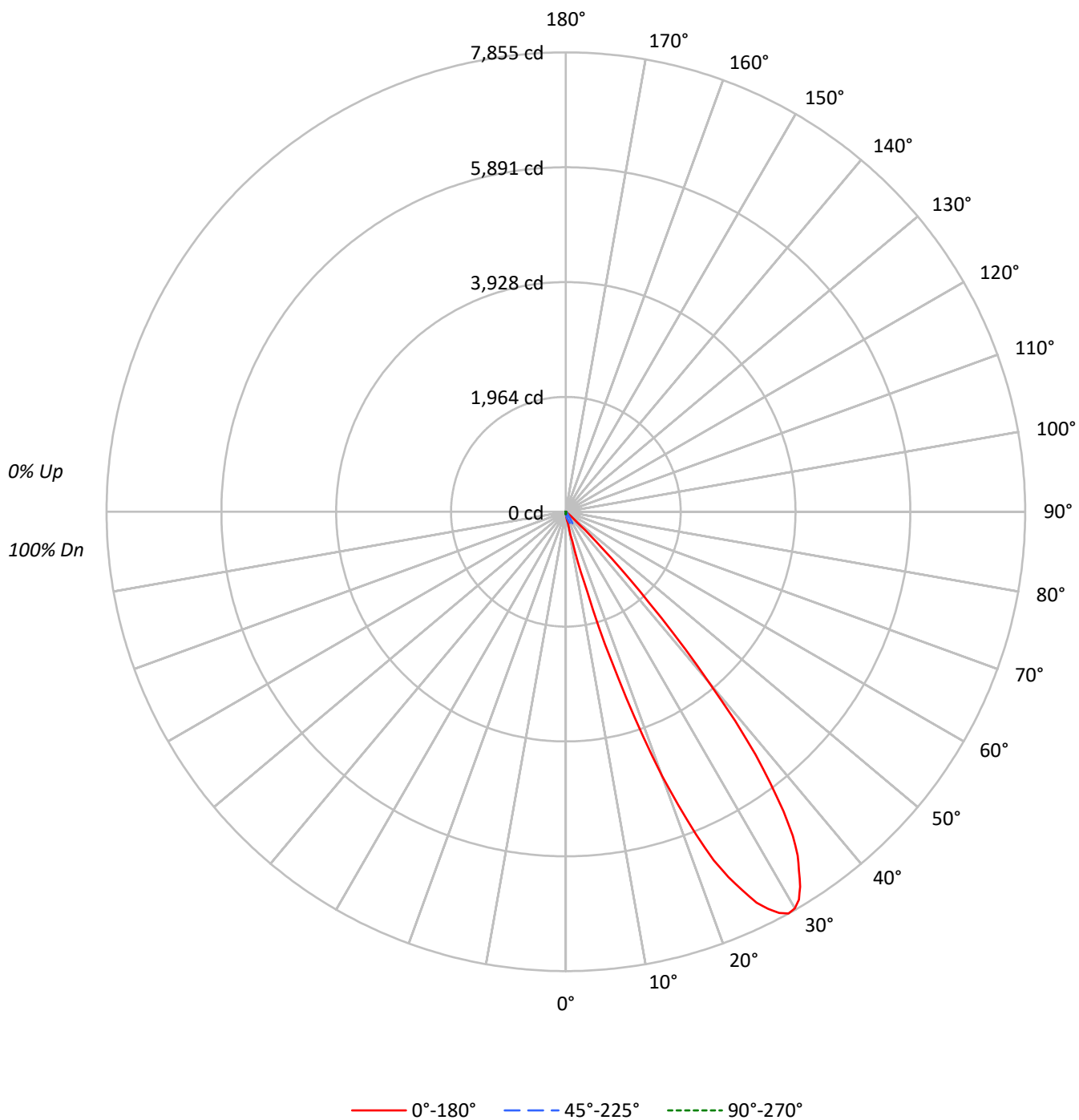
Lumens per Lamp: N/A
Luminaire Lumens: 1084.0 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1312548

CATALOG NUMBER: P3SQAS17R209727DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312548

CATALOG NUMBER: P3SQAS17R209727DE010 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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6682	6682	6682	6682	6682
5°	14539	10252	6155	2801	2057
10°	36200	18100	4337	560	0
15°	254699	24801	2496	0	0
20°	880236	41695	990	0	0
25°	1356809	53264	418	0	0
30°	1557336	41165	0	0	0
35°	1422287	15642	0	0	0
40°	852677	7262	0	0	0
45°	209534	3410	0	0	0
50°	23096	857	0	0	0
55°	3243	0	330	0	0
60°	0	0	758	0	0
65°	0	0	897	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: 223442 cd/sqm

TEST NUMBER: P1312548

CATALOG NUMBER: P3SQAS17R209727DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.4
10°-20°	84.7	7.8
20°-30°	428.2	39.5
30°-40°	463.3	42.7
40°-50°	97.9	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°	517.3	47.7
0°-40°	980.6	90.5
0°-60°	1081.4	99.8
0°-90°	1084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	84	59	36	16	12	12
15°	1428	139	14	0	0	596
25°	7140	280	2	0	0	3227
35°	6765	74	0	0	0	3989
45°	860	14	0	0	0	946
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: P1312548

CATALOG NUMBER: P3SQAS17R209727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	52.8	51.7	52.8	51.7	52.8	52.8	52.8	51.7	51.7	51.7	51.7
5°	84.1	84.1	83.0	84.1	84.1	84.1	84.1	83.0	83.0	81.9	81.9
7.5°	132.6	132.6	131.5	131.5	132.6	133.7	129.4	131.5	131.5	131.5	130.4
10°	207.0	211.3	207.0	212.4	208.1	204.8	210.2	204.8	204.8	203.8	200.5
12.5°	521.8	509.9	502.4	484.1	502.4	488.4	491.6	488.4	477.6	463.6	454.9
15°	1428.5	1428.5	1386.4	1442.5	1401.5	1416.6	1339.0	1340.0	1300.2	1257.0	1233.3
17.5°	2986.3	3013.2	2985.2	2967.9	2931.3	2878.5	2856.9	2801.9	2729.7	2645.6	2635.9
20°	4802.8	4689.6	4742.5	4693.9	4663.8	4599.1	4526.8	4481.6	4418.0	4311.2	4153.8
21°	5374.2	5369.9	5368.8	5367.7	5323.5	5217.9	5152.1	5061.6	4972.1	4862.1	4730.6
22°	5949.9	5970.4	5979.0	5916.5	5825.9	5778.5	5733.2	5609.2	5468.0	5410.9	5254.5
23°	6478.2	6458.8	6402.7	6373.6	6303.5	6289.5	6154.7	6076.0	5938.0	5875.5	5690.1
24°	6838.2	6828.5	6802.7	6759.5	6703.5	6617.2	6536.4	6412.4	6299.2	6196.8	6024.3
25°	7140.1	7148.7	7101.3	7072.2	7011.8	6914.8	6815.6	6679.8	6574.1	6454.4	6255.0
26°	7438.7	7378.4	7340.6	7297.5	7231.7	7120.7	7024.7	6902.9	6774.6	6640.9	6445.8
27°	7623.1	7569.2	7512.0	7470.0	7394.5	7288.9	7186.5	7051.7	6908.3	6773.6	6573.0
28°	7768.6	7709.3	7653.3	7602.6	7516.3	7403.1	7280.2	7143.3	6994.6	6855.5	6650.7
29°	7854.9	7784.8	7724.4	7667.3	7588.6	7465.7	7341.7	7195.1	7051.7	6906.2	6697.0
30°	7831.1	7770.8	7712.6	7654.3	7574.6	7459.2	7336.3	7196.2	7051.7	6908.3	6695.9
31°	7738.4	7664.0	7622.0	7563.8	7494.8	7377.3	7271.6	7118.5	6988.1	6832.8	6620.5
32°	7560.5	7513.1	7457.1	7411.8	7344.9	7219.9	7116.4	6991.3	6837.2	6709.9	6486.8
33°	7319.1	7274.9	7246.8	7194.0	7129.3	7043.1	6919.1	6804.8	6631.2	6500.8	6277.6
34°	7088.4	7032.3	6962.2	6947.1	6891.1	6780.0	6667.9	6551.5	6396.2	6230.2	6004.9
35°	6764.9	6706.7	6642.0	6647.4	6580.6	6451.2	6336.9	6206.5	6058.8	5863.7	5650.2
36°	6332.6	6293.8	6284.1	6258.2	6181.7	6027.5	5918.6	5754.8	5630.8	5392.5	5209.3
37°	5805.4	5819.5	5749.4	5716.0	5626.5	5518.7	5457.2	5247.0	5102.5	4923.6	4675.6
38°	5272.9	5252.4	5169.4	5189.9	5067.0	4954.8	4781.3	4656.2	4494.5	4328.5	4130.1
39°	4607.7	4557.0	4457.8	4462.2	4369.4	4243.3	4075.1	3927.4	3830.4	3670.8	3481.1
40°	3792.7	3771.1	3736.6	3679.5	3557.7	3502.7	3352.8	3193.3	3111.3	2890.3	2797.6
42.5°	2104.4	2075.3	2017.1	1996.6	1931.9	1867.2	1779.9	1673.2	1621.4	1555.7	1409.0
45°	860.3	917.4	903.4	887.3	837.7	840.9	778.4	785.9	728.8	690.0	663.0
47.5°	189.7	205.9	207.0	199.4	207.0	200.5	197.3	191.9	193.0	196.2	188.7
50°	86.2	85.2	87.3	86.2	85.2	84.1	83.0	79.8	81.9	79.8	77.6
52.5°	33.4	34.5	34.5	32.3	33.4	33.4	33.4	32.3	32.3	32.3	32.3
55°	10.8	10.8	10.8	9.7	9.7	10.8	10.8	10.8	10.8	10.8	9.7
57.5°	1.1	2.2	1.1	2.2	1.1	1.1	1.1	1.1	1.1	2.2	2.2
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: P1312548

CATALOG NUMBER: P3SQAS17R209727DE010 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: P1312548

CATALOG NUMBER: P3SQAS17R209727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	49.6	45.3	42.0	38.8	32.3	27.0	24.8	24.8
5°	76.5	59.3	44.2	35.6	24.8	16.2	12.9	11.9
7.5°	115.4	79.8	46.4	30.2	16.2	8.6	5.4	4.3
10°	167.1	103.5	48.5	24.8	9.7	3.2	0.0	0.0
12.5°	292.2	124.0	48.5	19.4	4.3	0.0	0.0	0.0
15°	669.5	139.1	46.4	14.0	1.1	0.0	0.0	0.0
17.5°	1390.7	174.6	41.0	9.7	0.0	0.0	0.0	0.0
20°	2220.8	227.5	32.3	5.4	0.0	0.0	0.0	0.0
21°	2562.6	245.8	29.1	4.3	0.0	0.0	0.0	0.0
22°	2808.4	263.1	25.9	3.2	0.0	0.0	0.0	0.0
23°	3079.0	273.8	22.6	2.2	0.0	0.0	0.0	0.0
24°	3278.4	280.3	19.4	2.2	0.0	0.0	0.0	0.0
25°	3402.4	280.3	17.2	2.2	0.0	0.0	0.0	0.0
26°	3475.7	273.8	15.1	1.1	0.0	0.0	0.0	0.0
27°	3493.0	263.1	12.9	1.1	0.0	0.0	0.0	0.0
28°	3471.4	249.0	10.8	0.0	0.0	0.0	0.0	0.0
29°	3403.5	228.6	9.7	0.0	0.0	0.0	0.0	0.0
30°	3330.2	207.0	7.5	0.0	0.0	0.0	0.0	0.0
31°	3205.1	177.9	6.5	0.0	0.0	0.0	0.0	0.0
32°	3060.7	147.7	5.4	0.0	0.0	0.0	0.0	0.0
33°	2867.7	116.4	4.3	0.0	0.0	0.0	0.0	0.0
34°	2583.1	91.6	4.3	0.0	0.0	0.0	0.0	0.0
35°	2327.6	74.4	3.2	0.0	0.0	0.0	0.0	0.0
36°	1993.4	59.3	3.2	0.0	0.0	0.0	0.0	0.0
37°	1707.7	49.6	3.2	0.0	0.0	0.0	0.0	0.0
38°	1429.5	42.0	2.2	0.0	0.0	0.0	0.0	0.0
39°	1160.0	36.7	2.2	0.0	0.0	0.0	0.0	0.0
40°	925.0	32.3	2.2	0.0	0.0	0.0	0.0	0.0
42.5°	499.1	21.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	276.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	121.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	41.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9.7	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	2.2	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.2	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.2	2.2	1.1	0.0	0.0	0.0
67.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0



TEST NUMBER: P1312548

CATALOG NUMBER: P3SQAS17R209727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.2	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)