

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: P1306853

Luminaire Tested: P3SQAS13R209027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306853
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: P3SQAS13R209027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

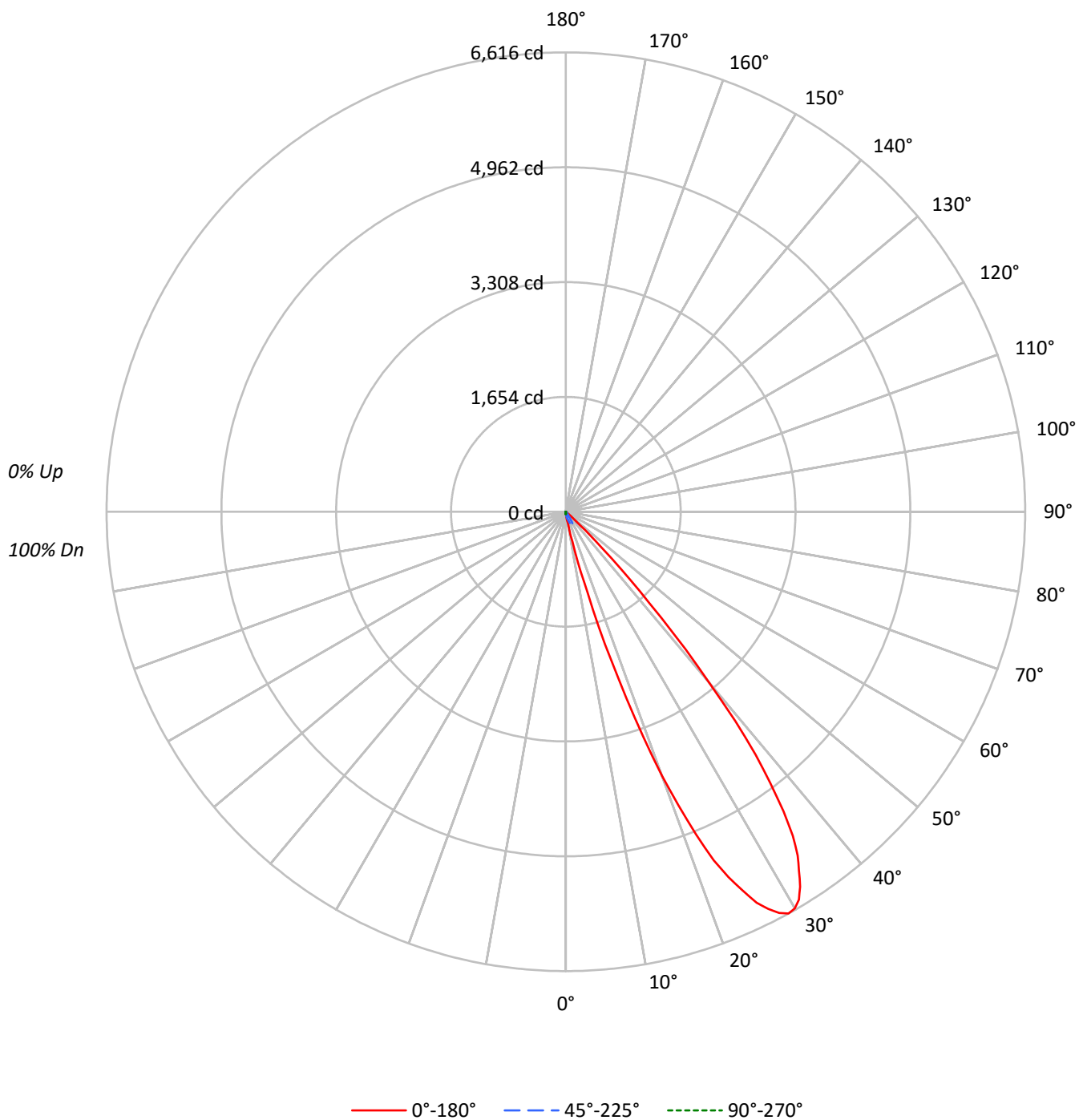
Lumens per Lamp: N/A
Luminaire Lumens: 913.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306853

CATALOG NUMBER: P3SQAS13R209027DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306853

CATALOG NUMBER: P3SQAS13R209027DE010 E3SQCA301MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	50
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°	5632	5632	5632	5632	5632
5°	12240	8627	5186	2351	1729
10°	30481	15249	3655	472	0
15°	214510	20879	2104	0	0
20°	741386	35116	825	0	0
25°	1142782	44865	342	0	0
30°	1311678	34662	0	0	0
35°	1197934	13182	0	0	0
40°	718167	6115	0	0	0
45°	176483	2874	0	0	0
50°	19452	723	0	0	0
55°	2732	0	270	0	0
60°	0	0	620	0	0
65°	0	0	734	0	0
70°	0	453	1360	0	0
75°	0	599	1797	0	0
80°	0	893	2678	0	0
85°	0	1778	5335	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 188198 cd/sqm

TEST NUMBER: P1306853

CATALOG NUMBER: P3SQAS13R209027DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.4
10°-20°	71.3	7.8
20°-30°	360.7	39.5
30°-40°	390.2	42.7
40°-50°	82.4	9.0
50°-60°	2.5	0.3
60°-70°	0.6	0.1
70°-80°	0.8	0.1
80°-90°	0.8	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°	435.7	47.7
0°-40°	825.9	90.5
0°-60°	910.8	99.8
0°-90°	913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	71	50	30	14	10	10
15°	1203	117	12	0	0	502
25°	6014	236	2	0	0	2718
35°	5698	63	0	0	0	3360
45°	725	12	0	0	0	797
55°	9	0	1	0	0	16
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: P1306853

CATALOG NUMBER: P3SQAS13R209027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	44.5	43.6	44.5	43.6	44.5	44.5	44.5	43.6	43.6	43.6	43.6
5°	70.8	70.8	69.9	70.8	70.8	70.8	70.8	69.9	69.9	69.0	69.0
7.5°	111.7	111.7	110.8	110.8	111.7	112.6	109.0	110.8	110.8	110.8	109.9
10°	174.3	178.0	174.3	178.9	175.2	172.5	177.1	172.5	172.5	171.6	168.9
12.5°	439.5	429.5	423.1	407.7	423.1	411.3	414.1	411.3	402.2	390.4	383.2
15°	1203.1	1203.1	1167.7	1214.9	1180.4	1193.1	1127.7	1128.7	1095.1	1058.7	1038.8
17.5°	2515.2	2537.9	2514.3	2499.8	2468.9	2424.4	2406.2	2359.9	2299.1	2228.3	2220.1
20°	4045.2	3949.8	3994.3	3953.5	3928.1	3873.6	3812.7	3774.6	3721.0	3631.1	3498.6
21°	4526.4	4522.8	4521.9	4521.0	4483.8	4394.8	4339.4	4263.1	4187.7	4095.1	3984.4
22°	5011.3	5028.6	5035.8	4983.2	4906.9	4866.9	4828.8	4724.4	4605.4	4557.3	4425.6
23°	5456.2	5439.9	5392.7	5368.2	5309.1	5297.3	5183.8	5117.5	5001.3	4948.7	4792.5
24°	5759.5	5751.3	5729.5	5693.2	5646.0	5573.4	5505.3	5400.8	5305.5	5219.2	5074.0
25°	6013.8	6021.0	5981.1	5956.5	5905.7	5824.0	5740.4	5626.0	5537.0	5436.3	5268.3
26°	6265.3	6214.4	6182.6	6146.3	6090.9	5997.4	5916.6	5814.0	5705.9	5593.3	5429.0
27°	6420.5	6375.1	6327.0	6291.6	6228.0	6139.1	6052.8	5939.3	5818.5	5705.0	5536.1
28°	6543.1	6493.2	6446.0	6403.3	6330.6	6235.3	6131.8	6016.5	5891.2	5774.0	5601.5
29°	6615.8	6556.7	6505.9	6457.8	6391.5	6288.0	6183.6	6060.1	5939.3	5816.7	5640.6
30°	6595.8	6544.9	6495.9	6446.9	6379.7	6282.5	6179.0	6061.0	5939.3	5818.5	5639.7
31°	6517.7	6455.0	6419.6	6370.6	6312.5	6213.5	6124.5	5995.6	5885.7	5755.0	5576.1
32°	6367.9	6327.9	6280.7	6242.6	6186.3	6080.9	5993.8	5888.4	5758.6	5651.5	5463.5
33°	6164.5	6127.3	6103.6	6059.2	6004.7	5932.0	5827.6	5731.4	5585.2	5475.3	5287.3
34°	5970.2	5923.0	5863.9	5851.2	5804.0	5710.5	5616.0	5518.0	5387.2	5247.4	5057.6
35°	5697.8	5648.7	5594.3	5598.8	5542.5	5433.5	5337.3	5227.4	5103.0	4938.7	4758.9
36°	5333.7	5301.0	5292.8	5271.0	5206.5	5076.7	4985.0	4847.0	4742.5	4541.9	4387.5
37°	4889.6	4901.4	4842.4	4814.3	4738.9	4648.1	4596.3	4419.3	4297.6	4146.9	3938.0
38°	4441.1	4423.8	4353.9	4371.2	4267.6	4173.2	4027.0	3921.7	3785.5	3645.7	3478.6
39°	3880.8	3838.2	3754.6	3758.3	3680.2	3573.9	3432.3	3307.9	3226.2	3091.8	2932.0
40°	3194.4	3176.2	3147.2	3099.0	2996.4	2950.1	2823.9	2689.5	2620.5	2434.4	2356.3
42.5°	1772.4	1747.9	1698.9	1681.6	1627.2	1572.7	1499.1	1409.2	1365.6	1310.3	1186.8
45°	724.6	772.7	760.9	747.3	705.5	708.2	655.6	661.9	613.8	581.1	558.4
47.5°	159.8	173.4	174.3	168.0	174.3	168.9	166.2	161.6	162.5	165.3	158.9
50°	72.6	71.7	73.5	72.6	71.7	70.8	69.9	67.2	69.0	67.2	65.4
52.5°	28.1	29.1	29.1	27.2	28.1	28.1	28.1	27.2	27.2	27.2	27.2
55°	9.1	9.1	9.1	8.2	8.2	9.1	9.1	9.1	9.1	9.1	8.2
57.5°	0.9	1.8	0.9	1.8	0.9	0.9	0.9	0.9	0.9	1.8	1.8
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: P1306853

CATALOG NUMBER: P3SQAS13R209027DE010 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: P1306853

CATALOG NUMBER: P3SQAS13R209027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	41.8	38.1	35.4	32.7	27.2	22.7	20.9	20.9
5°	64.5	49.9	37.2	30.0	20.9	13.6	10.9	10.0
7.5°	97.2	67.2	39.0	25.4	13.6	7.3	4.5	3.6
10°	140.7	87.2	40.9	20.9	8.2	2.7	0.0	0.0
12.5°	246.1	104.4	40.9	16.3	3.6	0.0	0.0	0.0
15°	563.9	117.1	39.0	11.8	0.9	0.0	0.0	0.0
17.5°	1171.3	147.1	34.5	8.2	0.0	0.0	0.0	0.0
20°	1870.5	191.6	27.2	4.5	0.0	0.0	0.0	0.0
21°	2158.3	207.0	24.5	3.6	0.0	0.0	0.0	0.0
22°	2365.4	221.6	21.8	2.7	0.0	0.0	0.0	0.0
23°	2593.3	230.6	19.1	1.8	0.0	0.0	0.0	0.0
24°	2761.3	236.1	16.3	1.8	0.0	0.0	0.0	0.0
25°	2865.7	236.1	14.5	1.8	0.0	0.0	0.0	0.0
26°	2927.4	230.6	12.7	0.9	0.0	0.0	0.0	0.0
27°	2942.0	221.6	10.9	0.9	0.0	0.0	0.0	0.0
28°	2923.8	209.8	9.1	0.0	0.0	0.0	0.0	0.0
29°	2866.6	192.5	8.2	0.0	0.0	0.0	0.0	0.0
30°	2804.8	174.3	6.4	0.0	0.0	0.0	0.0	0.0
31°	2699.5	149.8	5.4	0.0	0.0	0.0	0.0	0.0
32°	2577.8	124.4	4.5	0.0	0.0	0.0	0.0	0.0
33°	2415.3	98.1	3.6	0.0	0.0	0.0	0.0	0.0
34°	2175.6	77.2	3.6	0.0	0.0	0.0	0.0	0.0
35°	1960.4	62.7	2.7	0.0	0.0	0.0	0.0	0.0
36°	1678.9	49.9	2.7	0.0	0.0	0.0	0.0	0.0
37°	1438.3	41.8	2.7	0.0	0.0	0.0	0.0	0.0
38°	1204.0	35.4	1.8	0.0	0.0	0.0	0.0	0.0
39°	977.0	30.9	1.8	0.0	0.0	0.0	0.0	0.0
40°	779.1	27.2	1.8	0.0	0.0	0.0	0.0	0.0
42.5°	420.4	18.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	232.5	11.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	102.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	34.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8.2	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	1.8	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.8	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.8	1.8	0.9	0.0	0.0	0.0
67.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0



TEST NUMBER: P1306853

CATALOG NUMBER: P3SQAS13R209027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.8	2.7	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)