

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: P1316292

Luminaire Tested: P3SQAS13R509827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R509827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

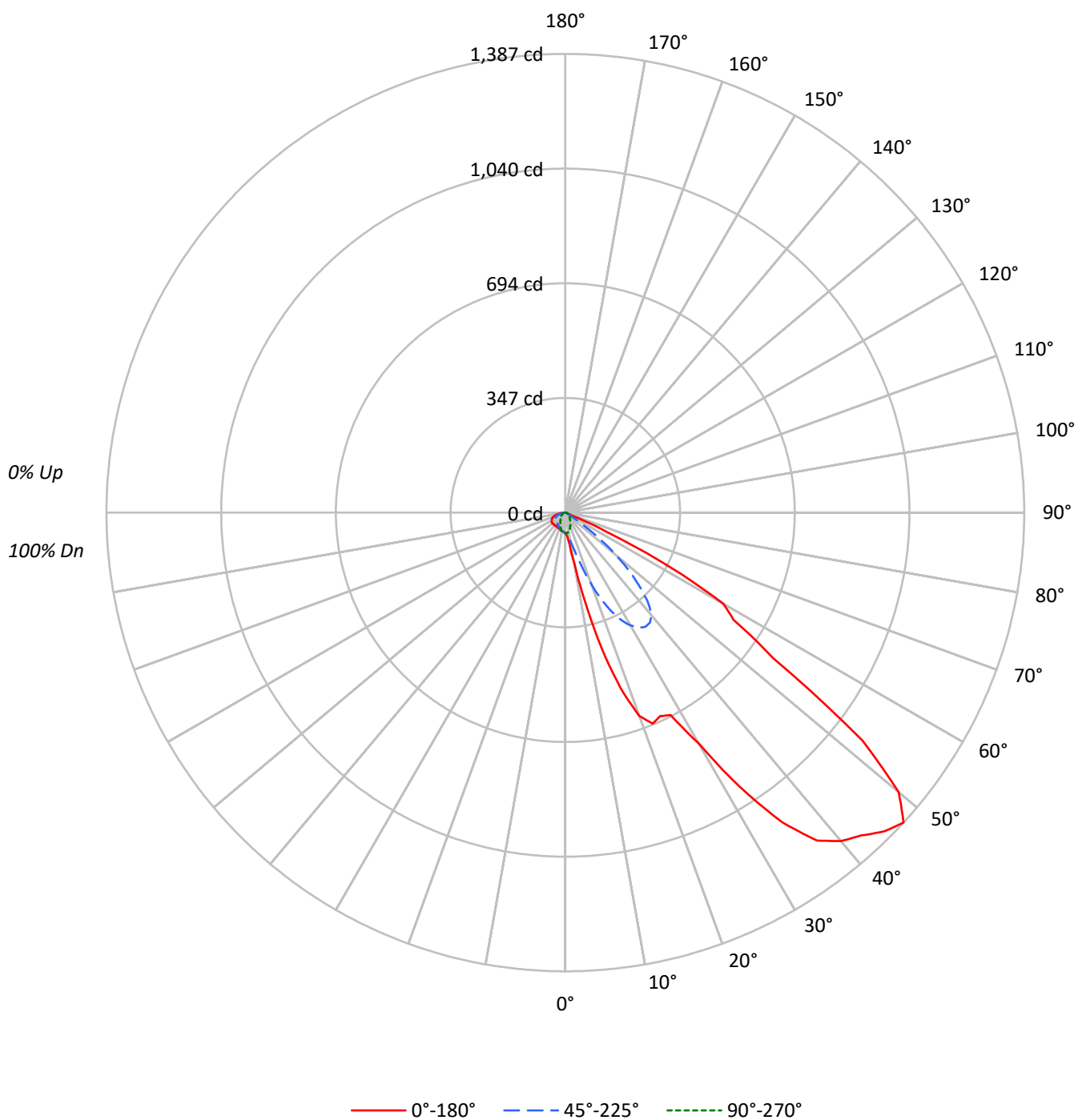
Lumens per Lamp: N/A
Luminaire Lumens: 782.0 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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			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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	83	71	63	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25		37	30	25		36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22		34	27	22		33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10695	10695	10695	10695	10695
5°	12724	11911	10632	10165	10044
10°	27404	14760	10160	9811	9916
15°	75866	24213	9147	9396	9753
20°	119954	42465	7918	9035	9530
25°	128990	62386	6803	8722	9634
30°	160107	78313	5906	8591	9943
35°	240289	88618	5109	8662	10512
40°	291413	91120	4564	8970	11084
45°	331972	78134	4433	9548	12178
50°	352356	53934	4528	10315	13584
55°	230180	21709	4474	11140	15013
60°	189858	3720	4409	12090	16533
65°	57256	1915	4116	12918	18175
70°	2367	2065	4079	13243	19739
75°	2262	2262	4059	13508	21560
80°	1984	1984	4066	13389	22117
85°	1383	2766	5335	13437	21341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 353500 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.8
10°-20°	37.0	4.7
20°-30°	95.2	12.2
30°-40°	171.0	21.9
40°-50°	228.4	29.2
50°-60°	174.0	22.2
60°-70°	52.8	6.8
70°-80°	12.6	1.6
80°-90°	4.6	0.6
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°	138.7	17.7
0°-40°	309.7	39.6
0°-60°	712.0	91.1
0°-90°	782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	74	69	62	59	58	9
15°	426	136	51	53	55	125
25°	679	328	36	46	51	324
35°	1143	422	24	41	50	702
45°	1363	321	18	39	50	1042
55°	767	72	15	37	50	763
65°	140	5	10	32	45	194
75°	3	3	6	20	32	4
85°	1	1	3	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	66.2	66.2	66.2	66.2	66.2	66.2	65.5	65.5	65.5	64.2	62.8
5°	73.6	74.3	73.6	73.6	72.3	72.3	70.9	70.9	68.9	64.8	61.5
7.5°	96.6	95.9	95.2	92.5	90.5	85.8	83.8	80.4	74.3	64.8	60.1
10°	156.7	152.7	149.9	143.9	131.0	122.9	112.1	101.3	84.4	64.8	58.1
12.5°	272.2	271.5	263.4	243.2	224.9	199.9	173.6	147.2	104.0	63.5	55.4
15°	425.5	419.5	408.0	384.3	351.9	312.7	265.4	218.8	135.8	61.5	51.3
17.5°	556.6	549.1	540.4	516.7	479.6	430.3	373.5	309.4	179.0	58.8	47.3
20°	654.5	649.8	642.3	623.4	588.3	543.7	480.2	402.6	231.7	55.4	43.2
22.5°	690.3	689.6	691.0	684.2	666.7	631.5	570.8	489.7	283.7	51.3	39.2
25°	678.8	678.1	686.9	695.7	699.8	685.6	639.0	559.9	328.3	48.0	35.8
27.5°	689.6	687.6	683.5	684.9	696.4	704.5	682.9	614.0	366.8	43.2	32.4
30°	805.1	793.6	775.4	744.3	721.4	719.3	709.9	656.5	393.8	38.5	29.7
32.5°	985.5	971.3	938.2	880.8	826.1	784.2	754.5	692.3	412.7	33.8	26.3
35°	1142.9	1132.7	1094.2	1037.5	959.1	880.8	826.7	745.0	421.5	29.7	24.3
37.5°	1249.6	1245.5	1207.7	1146.9	1067.2	974.7	903.1	799.1	419.5	25.0	22.3
40°	1296.2	1284.0	1252.3	1200.9	1120.6	1037.5	961.8	833.5	405.3	20.3	20.3
42.5°	1323.9	1310.4	1275.9	1227.3	1148.3	1059.8	968.6	818.6	371.5	16.2	19.6
45°	1363.0	1348.9	1303.6	1251.6	1171.9	1069.2	942.2	766.0	320.8	12.2	18.2
47.5°	1386.7	1377.2	1343.5	1291.4	1194.9	1055.7	881.5	716.6	264.8	9.5	17.6
50°	1315.1	1305.6	1280.6	1244.8	1180.0	1010.5	828.1	636.9	201.3	7.4	16.9
52.5°	1132.0	1140.1	1144.9	1155.0	1107.7	909.1	748.4	573.5	135.8	6.1	15.5
55°	766.6	778.8	792.3	832.8	888.2	809.2	664.6	495.8	72.3	6.1	14.9
57.5°	602.5	598.4	594.4	591.7	634.9	667.3	584.3	396.5	31.1	6.1	13.5
60°	551.2	539.0	530.9	532.9	554.5	541.7	462.7	258.7	10.8	6.1	12.8
62.5°	361.4	370.8	389.1	420.1	405.3	347.9	268.8	102.7	5.4	6.1	11.5
65°	140.5	135.8	140.5	149.3	129.0	95.9	60.1	18.2	4.7	5.4	10.1
67.5°	18.9	16.9	12.8	8.1	7.4	6.8	5.4	4.7	4.7	5.4	9.5
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.1	4.1	4.7	8.1
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.7	6.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	6.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.7
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	4.1
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	3.4
85°	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.0	2.0
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):

	112.5°	135°	157.5°	180°
0°	62.1	62.1	62.1	62.1
2.5°	61.5	60.1	60.1	60.1
5°	60.1	58.8	58.8	58.1
7.5°	58.1	57.4	57.4	57.4
10°	56.7	56.1	56.7	56.7
12.5°	54.0	54.7	55.4	55.4
15°	51.3	52.7	54.0	54.7
17.5°	48.6	51.3	52.7	53.4
20°	45.9	49.3	51.3	52.0
22.5°	43.9	47.3	50.0	51.3
25°	41.2	45.9	49.3	50.7
27.5°	38.5	43.9	48.0	50.0
30°	36.5	43.2	48.0	50.0
32.5°	34.4	41.9	47.3	49.3
35°	33.1	41.2	47.3	50.0
37.5°	31.7	40.5	47.3	49.3
40°	31.1	39.9	47.3	49.3
42.5°	30.4	39.9	47.3	50.0
45°	29.0	39.2	47.3	50.0
47.5°	28.4	39.2	47.3	50.0
50°	27.7	38.5	47.3	50.7
52.5°	27.0	37.8	47.3	50.7
55°	25.7	37.1	46.6	50.0
57.5°	25.0	36.5	45.9	48.6
60°	23.6	35.1	44.6	48.0
62.5°	22.3	33.8	43.2	45.9
65°	20.3	31.7	41.2	44.6
67.5°	18.2	29.0	39.2	42.6
70°	16.2	26.3	36.5	39.2
72.5°	14.2	23.6	33.8	35.8
75°	12.2	20.3	29.7	32.4
77.5°	10.1	17.6	25.0	27.0
80°	7.4	13.5	20.3	22.3
82.5°	6.1	10.1	14.9	16.2
85°	4.1	6.8	9.5	10.8
87.5°	2.0	3.4	4.7	5.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)