

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: P1309201

Luminaire Tested: P3SQAS13R659035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

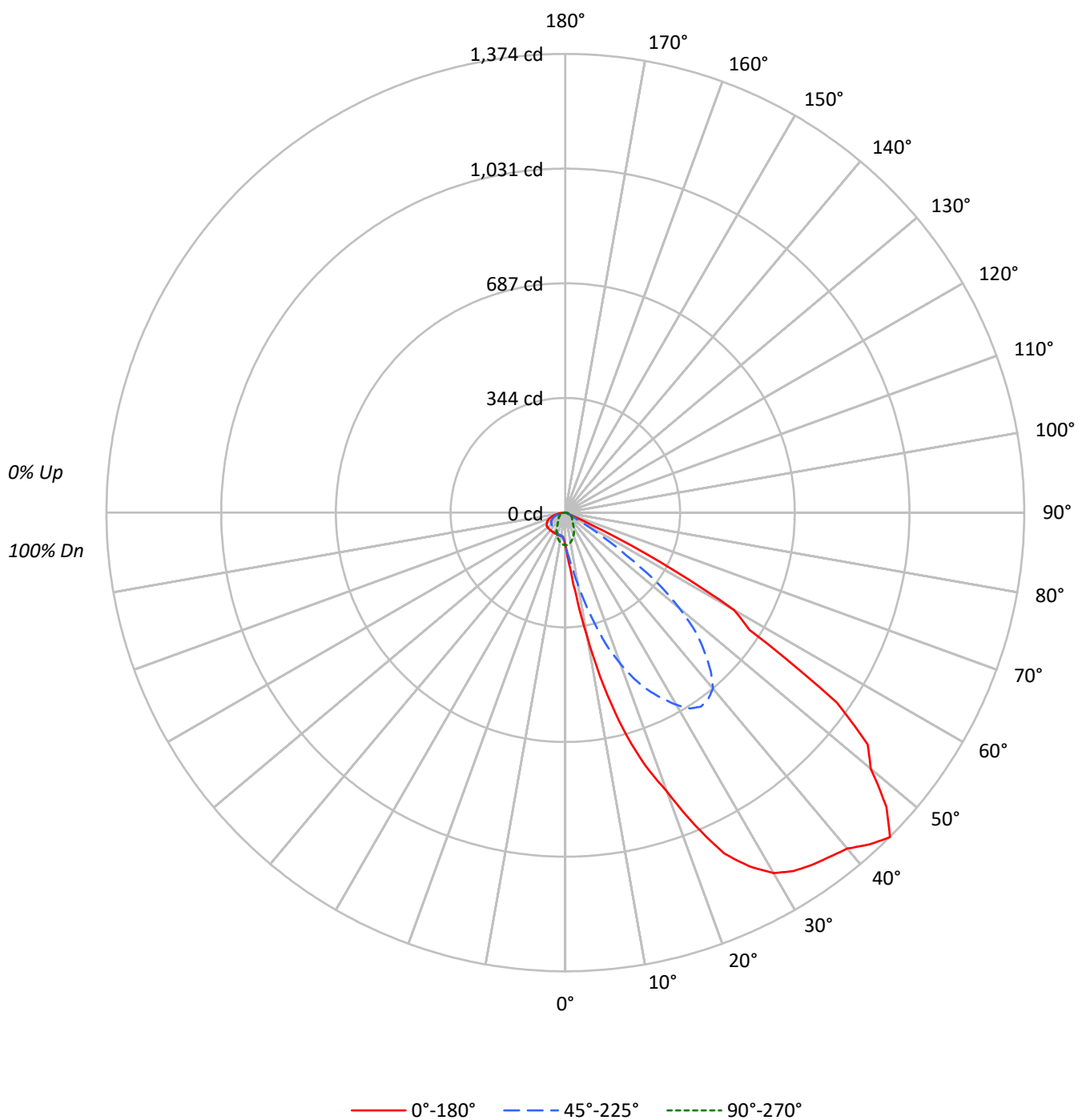
Lumens per Lamp: N/A
Luminaire Lumens: 997.1 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	99	108	104	100	97	100	97	94		96	94	91		92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	33	28		38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16706	16706	16706	16706	16706
5°	29200	23858	16424	13312	12793
10°	66087	38456	15739	12242	12416
15°	120137	61852	14620	12303	12659
20°	162877	88302	13196	12279	12829
25°	214084	111508	11592	11972	13112
30°	247906	132206	9943	11932	13722
35°	270711	149022	8410	12194	14507
40°	295302	154632	7419	12815	15513
45°	334773	143408	7063	13639	16806
50°	319802	119712	6966	14468	18487
55°	298069	67228	7206	15614	20418
60°	200743	14467	7233	16533	22044
65°	30971	3668	6928	17116	24043
70°	3525	3525	6546	17624	25681
75°	3327	3327	5989	17301	25951
80°	2975	3967	5951	15869	25787
85°	1976	3952	5928	15808	23712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 334773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	1.2
10°-20°	63.4	6.4
20°-30°	149.0	14.9
30°-40°	225.0	22.6
40°-50°	258.7	25.9
50°-60°	205.4	20.6
60°-70°	61.5	6.2
70°-80°	16.7	1.7
80°-90°	5.6	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°	224.1	22.5
0°-40°	449.1	45.0
0°-60°	913.2	91.6
0°-90°	997.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	997.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	97	97	97	97	97	
5°	169	138	95	77	74	23
15°	674	347	82	69	71	194
25°	1127	587	61	63	69	514
35°	1288	709	40	58	69	808
45°	1374	589	29	56	69	1021
55°	993	224	24	52	68	818
65°	76	9	17	42	59	170
75°	5	5	9	26	39	5
85°	1	2	3	8	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	123.0	124.0	123.0	123.0	122.0	121.0	114.0	106.0	97.0	90.0	85.0
5°	168.9	169.9	166.9	166.9	164.9	161.9	138.0	115.0	95.0	84.0	77.0
7.5°	249.9	253.9	248.9	242.9	231.9	229.9	171.9	124.0	93.0	78.0	72.0
10°	377.9	374.9	369.9	357.9	338.9	329.9	219.9	133.0	90.0	74.0	70.0
12.5°	532.8	524.8	518.8	496.8	470.8	455.8	279.9	141.0	86.0	70.0	69.0
15°	673.8	667.8	653.8	632.8	600.8	588.8	346.9	145.9	82.0	67.0	69.0
17.5°	792.7	786.7	778.7	757.7	724.8	706.8	421.9	148.9	77.0	65.0	68.0
20°	888.7	884.7	873.7	856.7	823.7	806.7	481.8	148.9	72.0	63.0	67.0
22.5°	1012.7	1003.7	989.7	964.7	923.7	897.7	538.8	145.9	67.0	61.0	65.0
25°	1126.6	1120.6	1102.6	1072.6	1028.6	1002.7	586.8	140.0	61.0	58.0	63.0
27.5°	1194.6	1190.6	1173.6	1142.6	1093.6	1073.6	626.8	131.0	55.0	55.0	62.0
30°	1246.6	1238.6	1221.6	1191.6	1141.6	1117.6	664.8	120.0	50.0	52.0	60.0
32.5°	1272.6	1269.6	1254.6	1228.6	1179.6	1152.6	695.8	106.0	44.0	50.0	59.0
35°	1287.6	1284.6	1272.6	1247.6	1201.6	1175.6	708.8	93.0	40.0	48.0	58.0
37.5°	1299.6	1296.6	1281.6	1256.6	1210.6	1183.6	702.8	79.0	36.0	46.0	57.0
40°	1313.5	1302.6	1279.6	1254.6	1212.6	1186.6	687.8	66.0	33.0	45.0	57.0
42.5°	1347.5	1309.6	1273.6	1250.6	1210.6	1180.6	644.8	52.0	30.0	43.0	56.0
45°	1374.5	1307.6	1261.6	1243.6	1202.6	1168.6	588.8	38.0	29.0	42.0	56.0
47.5°	1303.6	1262.6	1241.6	1231.6	1187.6	1150.6	530.8	26.0	28.0	41.0	55.0
50°	1193.6	1188.6	1180.6	1181.6	1141.6	1111.6	446.8	18.0	26.0	40.0	54.0
52.5°	1140.6	1134.6	1120.6	1110.6	1070.6	1044.6	353.9	14.0	25.0	39.0	53.0
55°	992.7	996.7	981.7	987.7	975.7	962.7	223.9	13.0	24.0	37.0	52.0
57.5°	653.8	673.8	708.8	750.7	788.7	814.7	121.0	13.0	22.0	36.0	50.0
60°	582.8	577.8	576.8	584.8	601.8	615.8	42.0	12.0	21.0	33.0	48.0
62.5°	318.9	316.9	346.9	397.9	427.9	430.9	12.0	12.0	19.0	31.0	45.0
65°	76.0	79.0	88.0	110.0	130.0	143.0	9.0	11.0	17.0	29.0	42.0
67.5°	12.0	13.0	13.0	16.0	18.0	18.0	8.0	10.0	15.0	26.0	39.0
70°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.0	13.0	23.0	35.0
72.5°	6.0	6.0	6.0	6.0	6.0	6.0	7.0	8.0	11.0	20.0	30.0
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.0	9.0	16.0	26.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	5.0	6.0	8.0	13.0	21.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	4.0	5.0	6.0	10.0	16.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	4.0	5.0	8.0	12.0
85°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	5.0	8.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0	4.0
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):

	157.5°	180°
0°	97.0	97.0
2.5°	82.0	81.0
5°	74.0	74.0
7.5°	71.0	71.0
10°	70.0	71.0
12.5°	70.0	71.0
15°	70.0	71.0
17.5°	70.0	71.0
20°	69.0	70.0
22.5°	68.0	69.0
25°	67.0	69.0
27.5°	66.0	69.0
30°	66.0	69.0
32.5°	66.0	69.0
35°	65.0	69.0
37.5°	65.0	69.0
40°	65.0	69.0
42.5°	65.0	69.0
45°	65.0	69.0
47.5°	65.0	69.0
50°	65.0	69.0
52.5°	64.0	69.0
55°	64.0	68.0
57.5°	62.0	66.0
60°	60.0	64.0
62.5°	58.0	62.0
65°	55.0	59.0
67.5°	52.0	55.0
70°	47.0	51.0
72.5°	42.0	45.0
75°	36.0	39.0
77.5°	30.0	33.0
80°	24.0	26.0
82.5°	17.0	19.0
85°	11.0	12.0
87.5°	5.0	5.0
90°	0.0	0.0

(END OF REPORT)