

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: P1317047

Luminaire Tested: P3SQAS09R659830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317047
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: P3SQAS09R659830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

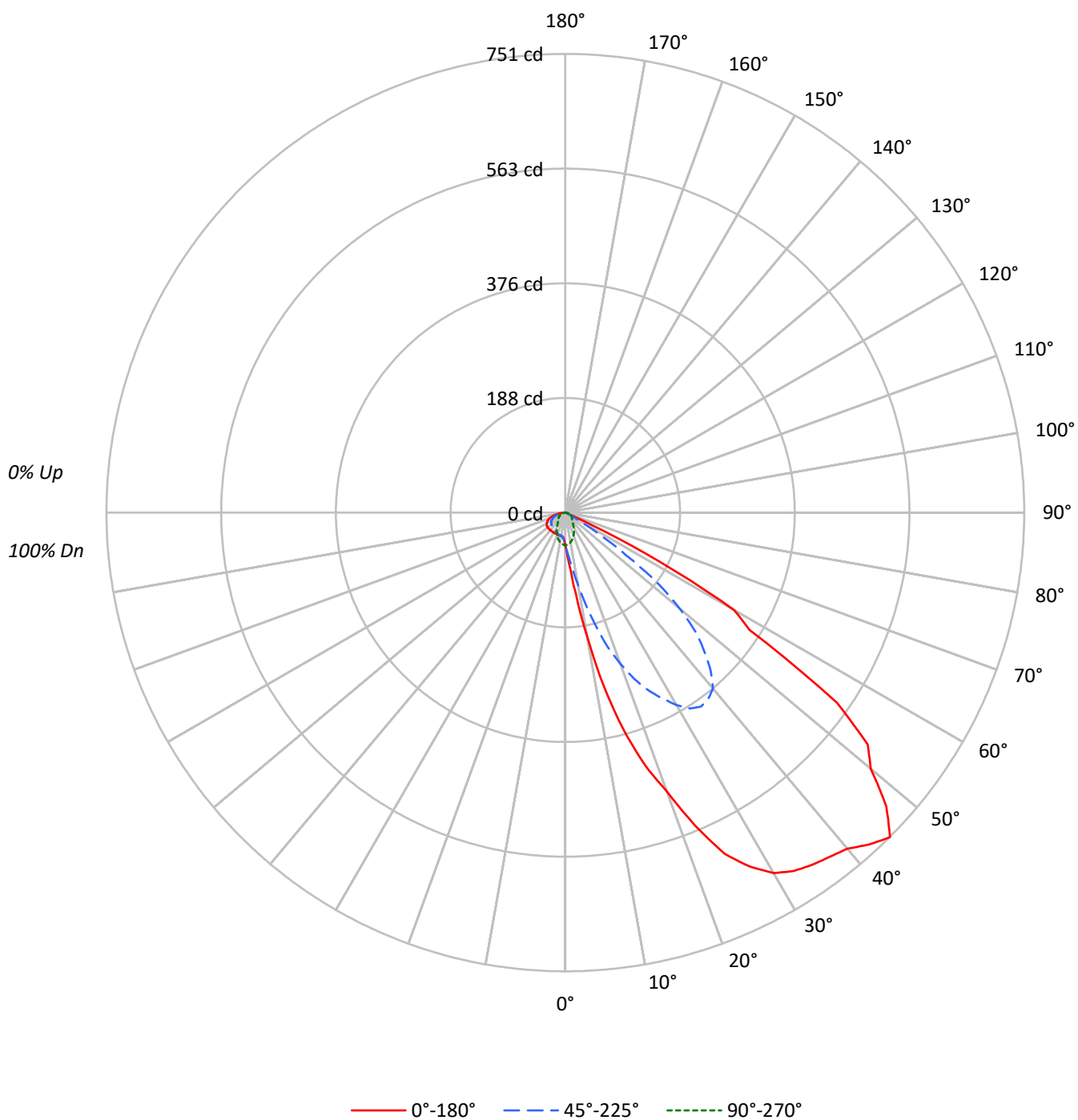
Lumens per Lamp: N/A
Luminaire Lumens: 545.0 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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			
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°	9128	9128	9128	9128	9128
5°	15974	13035	8972	7278	6984
10°	36130	21021	8604	6698	6785
15°	65667	33805	7988	6722	6918
20°	89035	48275	7203	6708	7019
25°	117037	60961	6328	6537	7164
30°	135507	72268	5429	6523	7497
35°	147970	81449	4604	6665	7926
40°	161421	84533	4047	6992	8476
45°	183011	78402	3848	7453	9182
50°	174825	65456	3805	7904	10101
55°	162922	36752	3933	8527	11170
60°	109740	7922	3961	9024	12056
65°	16912	1997	3790	9373	13122
70°	1913	1913	3575	9618	14049
75°	1797	1797	3261	9449	14173
80°	1587	2182	3273	8629	14083
85°	988	2174	3162	8695	13042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 183011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	1.2
10°-20°	34.7	6.4
20°-30°	81.4	14.9
30°-40°	123.0	22.6
40°-50°	141.4	25.9
50°-60°	112.3	20.6
60°-70°	33.6	6.2
70°-80°	9.1	1.7
80°-90°	3.1	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°	122.5	22.5
0°-40°	245.5	45.0
0°-60°	499.2	91.6
0°-90°	545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	92	75	52	42	40	12
15°	368	190	45	38	39	106
25°	616	321	33	34	38	281
35°	704	387	22	32	38	442
45°	751	322	16	31	38	558
55°	543	122	13	28	37	447
65°	42	5	9	23	32	93
75°	3	3	5	14	21	3
85°	0	1	2	4	7	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°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2.5°	67.2	67.8	67.2	67.2	66.7	66.1	62.3	57.9	53.0	49.2	46.4
5°	92.4	92.9	91.3	91.3	90.2	88.5	75.4	62.8	51.9	45.9	42.1
7.5°	136.6	138.8	136.1	132.8	126.8	125.7	94.0	67.8	50.8	42.6	39.3
10°	206.6	204.9	202.2	195.6	185.2	180.3	120.2	72.7	49.2	40.4	38.3
12.5°	291.3	286.9	283.6	271.6	257.4	249.2	153.0	77.0	47.0	38.3	37.7
15°	368.3	365.0	357.4	345.9	328.4	321.9	189.6	79.8	44.8	36.6	37.7
17.5°	433.3	430.1	425.7	414.2	396.2	386.3	230.6	81.4	42.1	35.5	37.2
20°	485.8	483.6	477.6	468.3	450.3	441.0	263.4	81.4	39.3	34.4	36.6
22.5°	553.6	548.6	541.0	527.3	504.9	490.7	294.5	79.8	36.6	33.3	35.5
25°	615.9	612.6	602.7	586.3	562.3	548.1	320.8	76.5	33.3	31.7	34.4
27.5°	653.0	650.8	641.5	624.6	597.8	586.9	342.6	71.6	30.1	30.1	33.9
30°	681.4	677.1	667.8	651.4	624.0	610.9	363.4	65.6	27.3	28.4	32.8
32.5°	695.6	694.0	685.8	671.6	644.8	630.1	380.3	57.9	24.0	27.3	32.2
35°	703.8	702.2	695.6	682.0	656.8	642.6	387.4	50.8	21.9	26.2	31.7
37.5°	710.4	708.7	700.6	686.9	661.8	647.0	384.2	43.2	19.7	25.1	31.1
40°	718.0	712.0	699.5	685.8	662.8	648.6	376.0	36.1	18.0	24.6	31.1
42.5°	736.6	715.9	696.2	683.6	661.8	645.4	352.5	28.4	16.4	23.5	30.6
45°	751.4	714.8	689.6	679.8	657.4	638.8	321.9	20.8	15.8	23.0	30.6
47.5°	712.6	690.2	678.7	673.2	649.2	629.0	290.2	14.2	15.3	22.4	30.1
50°	652.5	649.7	645.4	645.9	624.0	607.7	244.3	9.8	14.2	21.9	29.5
52.5°	623.5	620.2	612.6	607.1	585.3	571.0	193.4	7.7	13.7	21.3	29.0
55°	542.6	544.8	536.6	539.9	533.3	526.2	122.4	7.1	13.1	20.2	28.4
57.5°	357.4	368.3	387.4	410.4	431.2	445.4	66.1	7.1	12.0	19.7	27.3
60°	318.6	315.8	315.3	319.7	329.0	336.6	23.0	6.6	11.5	18.0	26.2
62.5°	174.3	173.2	189.6	217.5	233.9	235.5	6.6	6.6	10.4	16.9	24.6
65°	41.5	43.2	48.1	60.1	71.0	78.1	4.9	6.0	9.3	15.8	23.0
67.5°	6.6	7.1	7.1	8.7	9.8	9.8	4.4	5.5	8.2	14.2	21.3
70°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.9	7.1	12.6	19.1
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.8	4.4	6.0	10.9	16.4
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.8	4.9	8.7	14.2
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.3	4.4	7.1	11.5
80°	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.7	3.3	5.5	8.7
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.2	2.7	4.4	6.6
85°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6	1.6	2.7	4.4
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6	2.2
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°	53.0	53.0
2.5°	44.8	44.3
5°	40.4	40.4
7.5°	38.8	38.8
10°	38.3	38.8
12.5°	38.3	38.8
15°	38.3	38.8
17.5°	38.3	38.8
20°	37.7	38.3
22.5°	37.2	37.7
25°	36.6	37.7
27.5°	36.1	37.7
30°	36.1	37.7
32.5°	36.1	37.7
35°	35.5	37.7
37.5°	35.5	37.7
40°	35.5	37.7
42.5°	35.5	37.7
45°	35.5	37.7
47.5°	35.5	37.7
50°	35.5	37.7
52.5°	35.0	37.7
55°	35.0	37.2
57.5°	33.9	36.1
60°	32.8	35.0
62.5°	31.7	33.9
65°	30.1	32.2
67.5°	28.4	30.1
70°	25.7	27.9
72.5°	23.0	24.6
75°	19.7	21.3
77.5°	16.4	18.0
80°	13.1	14.2
82.5°	9.3	10.4
85°	6.0	6.6
87.5°	2.7	2.7
90°	0.0	0.0

(END OF REPORT)