

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: P1305661

Luminaire Tested: P3SQAS05R609024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R609024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

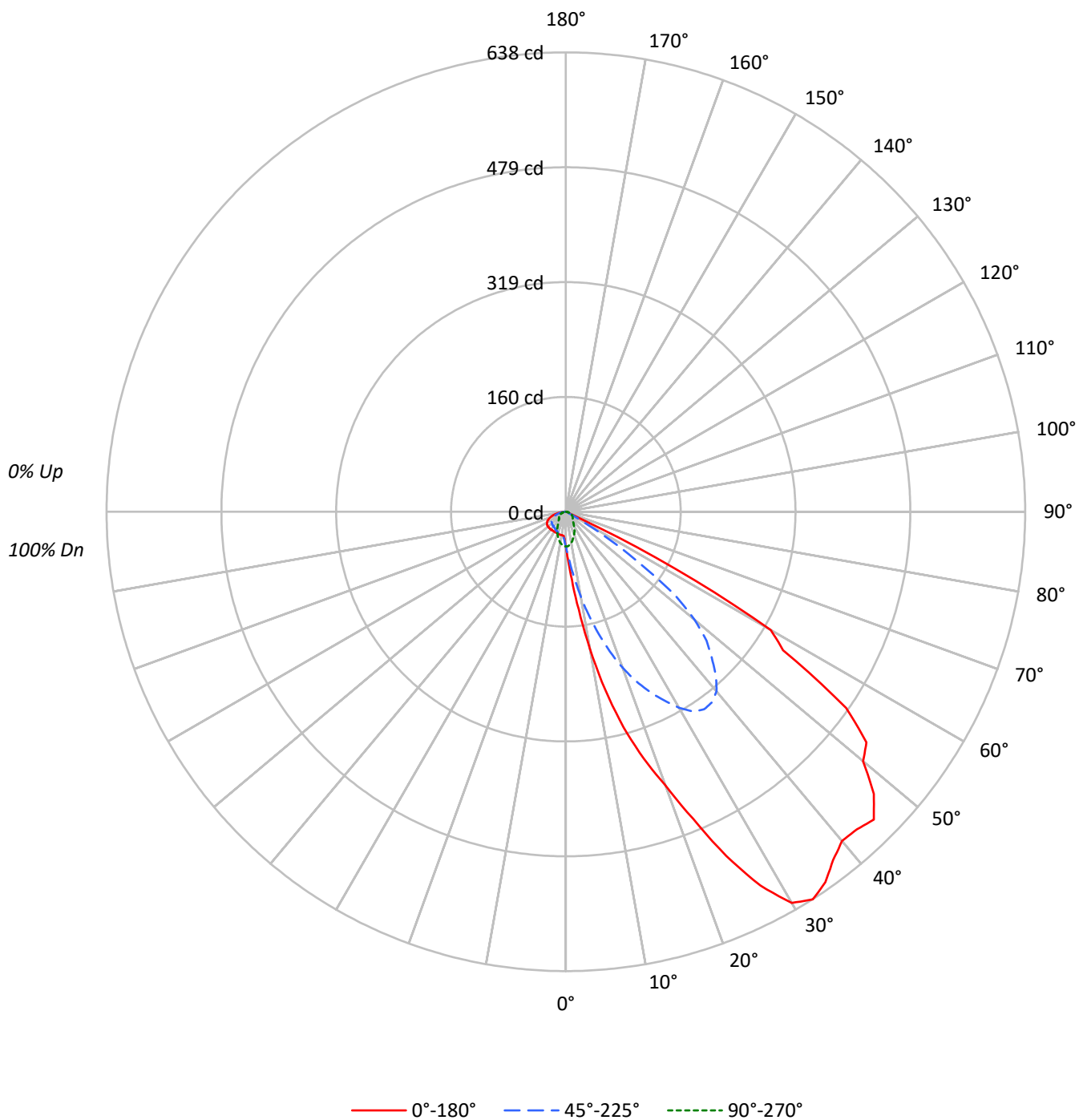
Lumens per Lamp: N/A
Luminaire Lumens: 486.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

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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	50	30	10
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	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8301	8301	8301	8301	8301
5°	16337	12759	8177	6189	5878
10°	33769	20776	7642	5631	5719
15°	55219	31184	6847	5670	5830
20°	74080	42263	6158	5663	5901
25°	100239	52466	5378	5625	6119
30°	124748	62464	4474	5628	6403
35°	132076	70411	3805	5761	6686
40°	134173	73202	3485	5958	7239
45°	147305	69731	3337	6357	7843
50°	144415	62508	3322	6752	8627
55°	142744	38343	3303	7296	9548
60°	113219	9128	3513	7750	10333
65°	7213	1630	3423	7906	11166
70°	1561	1762	3323	8208	11783
75°	1464	1797	2928	7918	12044
80°	1289	1785	3075	7934	11406
85°	790	1778	3557	6916	11263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 155485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	1.2
10°-20°	30.3	6.2
20°-30°	70.3	14.5
30°-40°	109.2	22.5
40°-50°	124.5	25.6
50°-60°	104.8	21.6
60°-70°	30.4	6.3
70°-80°	7.8	1.6
80°-90°	2.6	0.5
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°	106.6	21.9
0°-40°	215.8	44.4
0°-60°	445.1	91.6
0°-90°	486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	94	74	47	36	34	12
15°	310	175	38	32	33	90
25°	528	276	28	30	32	245
35°	628	335	18	27	32	390
45°	605	286	14	26	32	455
55°	475	128	11	24	32	400
65°	18	4	8	19	27	87
75°	2	3	4	12	18	2
85°	0	1	2	4	6	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°	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
2.5°	64.9	64.5	64.5	64.1	63.6	63.2	61.8	61.4	58.8	53.5	48.2
5°	94.5	94.1	92.8	92.3	90.1	87.0	83.9	80.8	73.8	58.8	47.3
7.5°	137.0	137.8	137.0	132.1	129.0	124.1	114.9	108.2	94.1	64.1	45.5
10°	193.1	193.1	191.7	184.2	177.6	168.3	156.4	144.9	118.8	68.9	43.7
12.5°	254.0	255.3	248.7	242.5	230.6	219.1	202.8	185.5	147.1	72.9	41.5
15°	309.7	308.8	302.2	294.2	281.9	266.0	248.7	226.6	174.9	75.5	38.4
17.5°	359.2	357.4	351.7	342.8	327.8	310.1	288.0	264.2	203.7	77.8	36.2
20°	404.2	398.0	391.4	382.1	367.6	349.0	326.0	299.1	230.6	77.8	33.6
22.5°	461.2	455.0	445.8	431.6	412.2	389.2	362.3	331.8	254.5	76.0	30.9
25°	527.5	522.6	506.7	488.6	463.4	436.0	404.7	363.6	276.1	73.3	28.3
27.5°	585.4	580.1	564.2	537.6	507.2	474.5	441.3	399.4	295.1	68.5	25.2
30°	627.3	620.7	608.3	583.2	546.0	506.3	467.0	426.8	314.1	62.7	22.5
32.5°	638.4	637.5	628.2	609.7	576.5	532.8	486.0	442.2	329.1	55.2	20.3
35°	628.2	629.5	627.8	618.5	594.2	551.3	498.3	450.6	334.9	47.7	18.1
37.5°	609.7	611.4	614.5	615.8	600.4	562.4	505.4	454.2	333.5	40.2	16.8
40°	596.8	596.0	596.0	604.8	601.7	567.2	506.3	451.5	325.6	32.2	15.5
42.5°	598.2	588.5	581.8	596.0	600.4	565.0	500.5	444.4	308.4	24.7	14.1
45°	604.8	584.0	572.5	590.7	597.7	557.5	489.9	433.8	286.3	17.2	13.7
47.5°	580.1	566.4	564.6	590.2	592.9	544.7	473.6	417.0	265.1	11.9	12.8
50°	539.0	536.8	546.0	572.5	573.0	523.5	455.0	386.6	233.3	8.4	12.4
52.5°	526.2	527.5	535.9	549.6	536.8	487.7	421.5	360.9	193.1	6.6	11.9
55°	475.4	477.6	485.5	493.9	484.6	444.0	380.8	330.0	127.7	6.2	11.0
57.5°	357.8	363.6	378.2	385.7	386.6	361.8	345.0	284.5	72.0	6.2	10.6
60°	328.7	321.2	314.5	299.1	284.9	281.9	283.6	213.4	26.5	5.7	10.2
62.5°	171.9	168.3	178.5	185.1	186.9	196.6	183.8	112.7	5.7	5.7	9.3
65°	17.7	17.7	21.6	28.7	47.7	63.6	60.5	32.7	4.0	5.3	8.4
67.5°	5.3	5.3	5.3	6.2	8.0	8.0	6.6	4.9	4.0	4.9	7.5
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.5	3.1	3.5	4.4	6.6
72.5°	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.1	3.1	4.0	5.7
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	3.1	4.4
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.7	3.5
80°	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8	2.2	3.1
82.5°	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.8	2.2
85°	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3
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°	48.2	48.2	48.2	48.2
2.5°	43.7	40.6	38.9	38.0
5°	39.8	35.8	34.5	34.0
7.5°	36.2	33.6	33.1	33.1
10°	34.0	32.2	32.7	32.7
12.5°	32.7	32.2	32.7	33.1
15°	31.4	31.8	32.7	32.7
17.5°	30.5	31.4	32.2	32.7
20°	29.2	30.9	32.2	32.2
22.5°	28.3	30.5	31.8	32.2
25°	27.4	29.6	31.4	32.2
27.5°	26.1	29.2	31.4	31.8
30°	24.7	28.3	30.9	32.2
32.5°	23.4	27.8	30.9	31.8
35°	22.5	27.4	30.9	31.8
37.5°	21.6	26.9	30.9	32.2
40°	21.2	26.5	30.5	32.2
42.5°	20.3	26.5	30.5	32.2
45°	19.9	26.1	30.5	32.2
47.5°	19.4	25.6	30.5	32.2
50°	18.6	25.2	30.0	32.2
52.5°	18.1	24.7	30.0	32.2
55°	17.2	24.3	29.6	31.8
57.5°	16.8	23.4	29.2	30.9
60°	15.9	22.5	28.3	30.0
62.5°	14.6	21.2	26.9	29.2
65°	13.3	19.4	25.6	27.4
67.5°	11.9	18.1	23.9	25.6
70°	10.6	16.3	21.6	23.4
72.5°	9.3	14.1	19.4	20.8
75°	8.0	11.9	16.3	18.1
77.5°	6.2	9.7	13.7	15.0
80°	4.9	8.0	10.6	11.5
82.5°	4.0	5.7	8.0	8.4
85°	2.7	3.5	4.9	5.7
87.5°	1.3	1.8	2.2	2.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)