

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: P1316164

Luminaire Tested: P3SQAS09R609827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316164
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: P3SQAS09R609827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

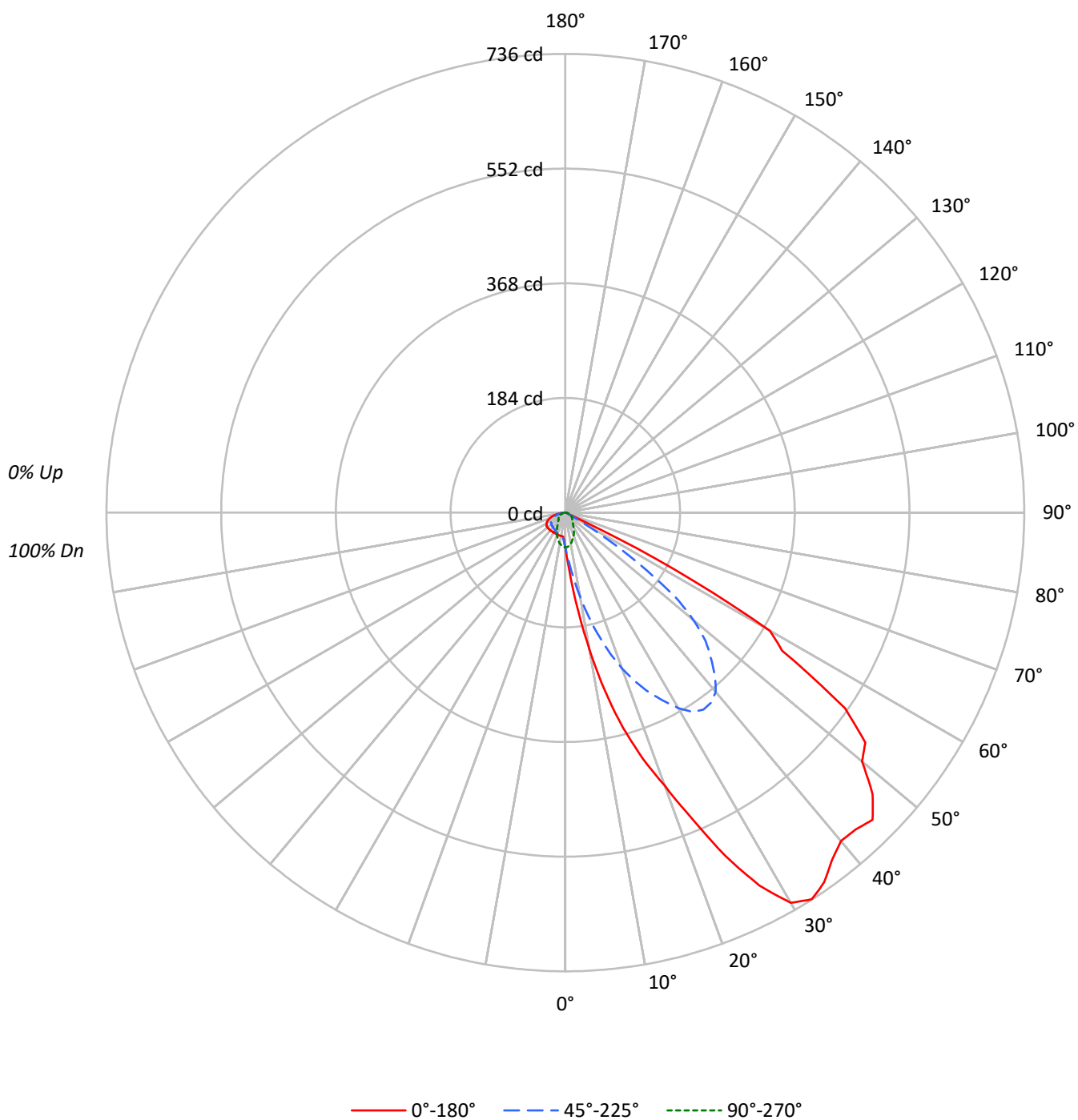
Lumens per Lamp: N/A
Luminaire Lumens: 560.0 lumens
Efficiency: N/A
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	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°	9558	9558	9558	9558	9558
5°	18827	14695	9422	7123	6777
10°	38911	23941	8814	6506	6593
15°	63617	35945	7899	6544	6722
20°	85370	48696	7093	6525	6818
25°	115498	60466	6195	6480	7069
30°	143740	71969	5171	6483	7398
35°	152196	81134	4394	6644	7716
40°	154609	84353	4002	6857	8363
45°	169737	80350	3848	7307	9060
50°	166385	72020	3831	7770	9967
55°	164453	44168	3813	8407	11020
60°	130441	10506	4030	8956	11918
65°	8313	1875	3953	9128	12877
70°	1813	2065	3827	9467	13596
75°	1664	2063	3394	9116	13907
80°	1488	1984	3570	9124	13092
85°	988	1976	3952	8102	13042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 179165 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	1.2
10°-20°	34.9	6.2
20°-30°	81.0	14.5
30°-40°	125.9	22.5
40°-50°	143.4	25.6
50°-60°	120.8	21.6
60°-70°	35.1	6.3
70°-80°	9.0	1.6
80°-90°	3.0	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°	122.8	21.9
0°-40°	248.7	44.4
0°-60°	512.9	91.6
0°-90°	560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	109	85	54	41	39	14
15°	357	202	44	37	38	103
25°	608	318	33	34	37	282
35°	724	386	21	32	37	450
45°	697	330	16	30	37	524
55°	548	147	13	28	37	461
65°	20	5	10	22	32	101
75°	2	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°	25°	30°	35°	45°	67.5°	90°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	74.8	74.3	74.3	73.8	73.3	72.8	71.3	70.8	67.7	61.6	55.5
5°	108.9	108.4	106.9	106.4	103.8	100.3	96.7	93.2	85.0	67.7	54.5
7.5°	157.8	158.8	157.8	152.2	148.6	143.0	132.4	124.7	108.4	73.8	52.4
10°	222.5	222.5	220.9	212.3	204.6	193.9	180.2	167.0	136.9	79.4	50.4
12.5°	292.7	294.2	286.6	279.5	265.7	252.5	233.7	213.8	169.5	84.0	47.9
15°	356.8	355.8	348.2	339.0	324.8	306.4	286.6	261.1	201.6	87.0	44.3
17.5°	413.9	411.8	405.2	395.0	377.7	357.4	331.9	304.4	234.7	89.6	41.7
20°	465.8	458.7	451.0	440.3	423.5	402.1	375.7	344.6	265.7	89.6	38.7
22.5°	531.4	524.3	513.6	497.3	474.9	448.5	417.4	382.3	293.2	87.6	35.6
25°	607.8	602.2	583.9	563.0	534.0	502.4	466.3	418.9	318.2	84.5	32.6
27.5°	674.5	668.4	650.1	619.5	584.4	546.7	508.5	460.2	340.0	78.9	29.0
30°	722.8	715.2	701.0	671.9	629.2	583.4	538.1	491.7	361.9	72.3	26.0
32.5°	735.6	734.6	723.9	702.5	664.3	613.9	560.0	509.6	379.2	63.6	23.4
35°	723.9	725.4	723.4	712.7	684.7	635.3	574.2	519.2	385.9	55.0	20.9
37.5°	702.5	704.5	708.1	709.6	691.8	648.0	582.4	523.3	384.3	46.3	19.3
40°	687.7	686.7	686.7	696.9	693.3	653.6	583.4	520.2	375.2	37.2	17.8
42.5°	689.3	678.1	670.4	686.7	691.8	651.1	576.8	512.1	355.3	28.5	16.3
45°	696.9	673.0	659.7	680.6	688.7	642.4	564.5	499.9	329.9	19.9	15.8
47.5°	668.4	652.6	650.6	680.1	683.1	627.7	545.7	480.5	305.4	13.7	14.8
50°	621.0	618.5	629.2	659.7	660.2	603.2	524.3	445.4	268.8	9.7	14.3
52.5°	606.3	607.8	617.5	633.3	618.5	562.0	485.6	415.9	222.5	7.6	13.7
55°	547.7	550.3	559.4	569.1	558.4	511.6	438.8	380.3	147.1	7.1	12.7
57.5°	412.3	418.9	435.7	444.4	445.4	416.9	397.6	327.8	83.0	7.1	12.2
60°	378.7	370.1	362.4	344.6	328.3	324.8	326.8	245.9	30.5	6.6	11.7
62.5°	198.0	193.9	205.7	213.3	215.3	226.5	211.8	129.8	6.6	6.6	10.7
65°	20.4	20.4	24.9	33.1	55.0	73.3	69.7	37.7	4.6	6.1	9.7
67.5°	6.1	6.1	6.1	7.1	9.2	9.2	7.6	5.6	4.6	5.6	8.7
70°	3.6	3.6	3.6	3.6	3.6	3.6	4.1	3.6	4.1	5.1	7.6
72.5°	3.1	3.1	3.1	3.1	3.6	3.6	3.6	3.6	3.6	4.6	6.6
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.1	3.1	3.6	5.1
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	3.1	4.1
80°	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.5	3.6
82.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.5
85°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5
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°	55.5	55.5	55.5	55.5
2.5°	50.4	46.8	44.8	43.8
5°	45.8	41.2	39.7	39.2
7.5°	41.7	38.7	38.2	38.2
10°	39.2	37.2	37.7	37.7
12.5°	37.7	37.2	37.7	38.2
15°	36.1	36.7	37.7	37.7
17.5°	35.1	36.1	37.2	37.7
20°	33.6	35.6	37.2	37.2
22.5°	32.6	35.1	36.7	37.2
25°	31.6	34.1	36.1	37.2
27.5°	30.0	33.6	36.1	36.7
30°	28.5	32.6	35.6	37.2
32.5°	27.0	32.1	35.6	36.7
35°	26.0	31.6	35.6	36.7
37.5°	24.9	31.1	35.6	37.2
40°	24.4	30.5	35.1	37.2
42.5°	23.4	30.5	35.1	37.2
45°	22.9	30.0	35.1	37.2
47.5°	22.4	29.5	35.1	37.2
50°	21.4	29.0	34.6	37.2
52.5°	20.9	28.5	34.6	37.2
55°	19.9	28.0	34.1	36.7
57.5°	19.3	27.0	33.6	35.6
60°	18.3	26.0	32.6	34.6
62.5°	16.8	24.4	31.1	33.6
65°	15.3	22.4	29.5	31.6
67.5°	13.7	20.9	27.5	29.5
70°	12.2	18.8	24.9	27.0
72.5°	10.7	16.3	22.4	23.9
75°	9.2	13.7	18.8	20.9
77.5°	7.1	11.2	15.8	17.3
80°	5.6	9.2	12.2	13.2
82.5°	4.6	6.6	9.2	9.7
85°	3.1	4.1	5.6	6.6
87.5°	1.5	2.0	2.5	3.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)