

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: P1306972

Luminaire Tested: P3SQAS13R709027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R709027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

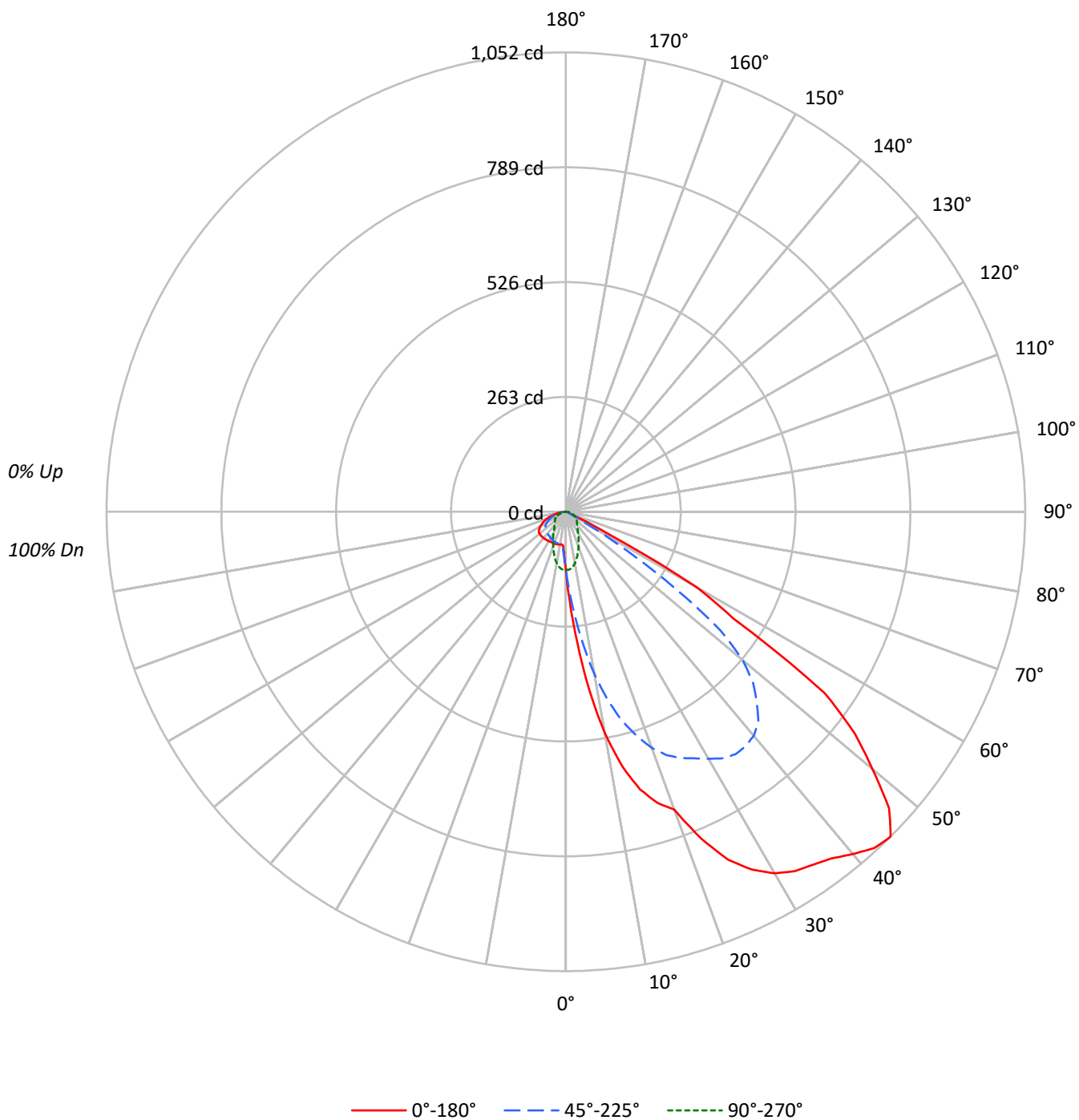
Lumens per Lamp: N/A
Luminaire Lumens: 909.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22802	22802	22802	22802	22802
5°	51899	41543	22578	14263	13329
10°	89923	65982	20933	13011	13326
15°	117391	88133	18276	13265	13747
20°	132966	105383	15615	13471	14295
25°	166995	118216	13093	13606	14651
30°	190096	129859	11176	13881	15512
35°	207449	142441	9734	14107	16399
40°	229992	150472	8970	14681	17738
45°	256225	150642	8841	15466	19217
50°	245425	141655	8735	16290	20899
55°	217299	91760	8978	17145	22610
60°	119006	19668	9059	17498	23422
65°	8517	4809	8884	17360	23636
70°	4129	4582	8208	16416	22811
75°	3593	4858	7852	15704	21094
80°	3570	4463	7240	14381	19836
85°	3557	5335	7114	12449	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 256225 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	1.9
10°-20°	73.9	8.1
20°-30°	141.7	15.6
30°-40°	200.4	22.1
40°-50°	226.7	24.9
50°-60°	179.6	19.8
60°-70°	48.4	5.3
70°-80°	16.1	1.8
80°-90°	4.9	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°	232.9	25.6
0°-40°	433.3	47.7
0°-60°	839.6	92.4
0°-90°	909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	909.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	132	132	132	132	132	
5°	300	240	131	82	77	35
15°	658	494	102	74	77	185
25°	879	622	69	72	77	403
35°	987	678	46	67	78	621
45°	1052	618	36	64	79	787
55°	724	306	30	57	75	587
65°	21	12	22	43	58	75
75°	5	7	12	24	32	6
85°	2	3	4	6	9	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4
2.5°	205.9	205.9	205.0	201.3	199.5	195.0	191.4	181.4	156.9	133.3	114.3
5°	300.2	304.7	298.4	297.5	292.0	283.9	278.4	240.3	181.4	130.6	97.9
7.5°	411.7	413.6	411.7	402.7	394.5	380.9	368.2	308.3	205.9	126.1	86.2
10°	514.2	511.5	506.1	499.7	487.9	473.4	451.6	377.3	229.4	119.7	78.9
12.5°	597.7	596.7	590.4	584.1	569.5	550.5	528.7	439.9	249.4	111.6	75.3
15°	658.4	658.4	652.1	644.8	631.2	615.8	591.3	494.3	265.7	102.5	71.6
17.5°	699.2	697.4	692.9	687.4	676.6	661.1	642.1	537.8	276.6	93.4	70.7
20°	725.5	724.6	721.0	712.8	703.8	692.0	674.7	575.0	281.1	85.2	69.8
22.5°	809.9	802.6	789.0	771.8	750.0	721.9	698.3	603.1	279.3	76.2	68.0
25°	878.8	876.1	861.6	840.7	811.7	775.4	736.4	622.1	270.3	68.9	66.2
27.5°	924.1	919.6	906.0	883.3	852.5	817.1	780.9	636.7	257.6	62.6	63.5
30°	955.9	953.2	939.6	914.2	882.4	843.4	806.2	653.0	240.3	56.2	60.8
32.5°	975.8	973.1	959.5	936.8	906.0	865.2	822.6	669.3	219.5	50.8	58.0
35°	986.7	984.0	968.6	948.6	919.6	879.7	834.4	677.5	194.1	46.3	55.3
37.5°	1000.3	994.9	974.0	949.5	920.5	883.3	838.0	676.6	168.7	42.6	53.5
40°	1023.0	1008.5	978.6	945.9	916.0	878.8	835.3	669.3	140.6	39.9	51.7
42.5°	1044.8	1023.9	979.5	940.5	906.9	870.6	825.3	653.0	109.7	38.1	50.8
45°	1052.0	1021.2	966.8	927.8	896.0	858.8	811.7	618.5	74.4	36.3	49.0
47.5°	1004.0	981.3	935.9	906.9	877.0	840.7	791.7	582.2	42.6	34.5	47.2
50°	916.0	901.5	876.1	857.9	841.6	816.2	768.2	528.7	25.4	32.6	45.3
52.5°	834.4	829.8	811.7	797.2	788.1	776.3	732.8	446.2	20.9	31.7	43.5
55°	723.7	709.2	704.7	699.2	718.3	717.4	658.4	305.6	20.0	29.9	41.7
57.5°	454.4	460.7	484.3	527.8	579.5	609.4	607.6	163.2	19.0	28.1	39.0
60°	345.5	344.6	351.9	370.0	408.1	450.7	490.6	57.1	18.1	26.3	37.2
62.5°	103.4	106.1	127.9	187.7	224.9	277.5	253.0	13.6	17.2	23.6	33.6
65°	20.9	21.8	21.8	24.5	29.9	45.3	55.3	11.8	16.3	21.8	30.8
67.5°	9.1	9.1	9.1	10.0	10.0	11.8	10.0	10.9	14.5	19.0	27.2
70°	8.2	8.2	8.2	8.2	8.2	8.2	9.1	9.1	12.7	16.3	23.6
72.5°	6.3	6.3	6.3	7.3	7.3	7.3	7.3	8.2	10.9	13.6	20.0
75°	5.4	5.4	5.4	5.4	6.3	6.3	6.3	7.3	9.1	11.8	16.3
77.5°	4.5	4.5	4.5	4.5	4.5	5.4	5.4	5.4	7.3	9.1	13.6
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.5	5.4	7.3	10.0
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6	4.5	5.4	7.3
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.6	4.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7
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):

	135°	157.5°	180°
0°	132.4	132.4	132.4
2.5°	100.7	95.2	92.5
5°	82.5	78.0	77.1
7.5°	76.2	75.3	75.3
10°	74.4	75.3	76.2
12.5°	74.4	76.2	77.1
15°	74.4	76.2	77.1
17.5°	74.4	76.2	77.1
20°	73.5	76.2	78.0
22.5°	72.6	76.2	77.1
25°	71.6	76.2	77.1
27.5°	70.7	75.3	77.1
30°	69.8	75.3	78.0
32.5°	68.0	75.3	78.0
35°	67.1	75.3	78.0
37.5°	66.2	75.3	78.9
40°	65.3	75.3	78.9
42.5°	64.4	75.3	78.9
45°	63.5	74.4	78.9
47.5°	61.7	74.4	78.9
50°	60.8	73.5	78.0
52.5°	58.9	72.6	78.0
55°	57.1	70.7	75.3
57.5°	54.4	68.0	71.6
60°	50.8	64.4	68.0
62.5°	46.3	59.9	62.6
65°	42.6	54.4	58.0
67.5°	37.2	48.1	51.7
70°	32.6	41.7	45.3
72.5°	28.1	35.4	39.0
75°	23.6	29.0	31.7
77.5°	18.1	23.6	25.4
80°	14.5	18.1	20.0
82.5°	10.0	12.7	13.6
85°	6.3	8.2	9.1
87.5°	2.7	3.6	3.6
90°	0.0	0.0	0.0

(END OF REPORT)