

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: P1316310

Luminaire Tested: P3SQAS13R609827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316310
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: P3SQAS13R609827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

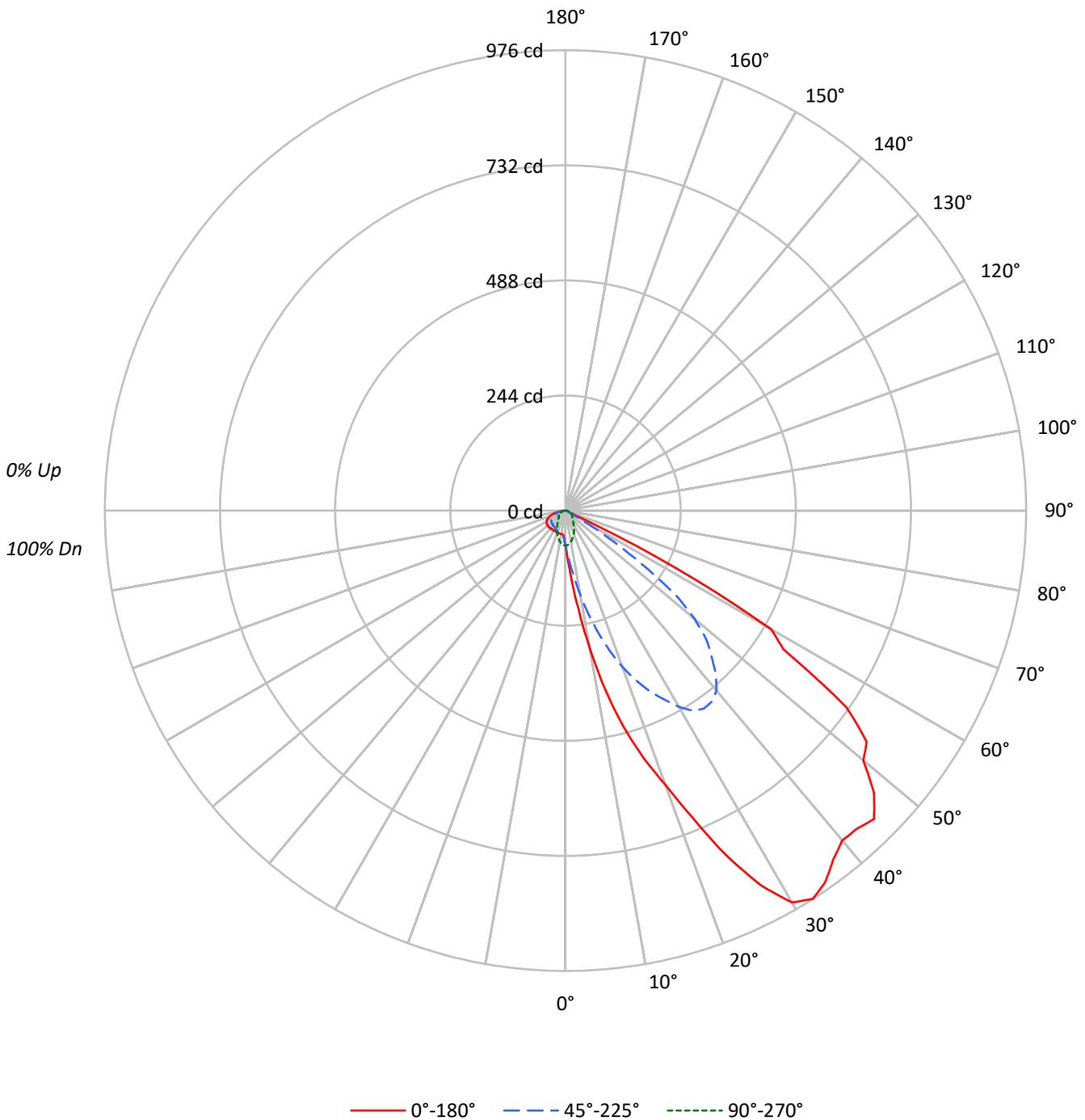
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 743.0 lumens
Efficiency: N/A
Efficacy: 51.2 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): 14.5
Input Voltage (V): NR
Input Current (A_{in}): 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	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12676	12676	12676	12676	12676
5°	24981	19501	12499	9457	8990
10°	51607	31776	11699	8622	8744
15°	84424	47695	10484	8665	8915
20°	113264	64623	9402	8669	9035
25°	153237	80210	8209	8608	9368
30°	190732	95495	6841	8591	9804
35°	201919	107645	5824	8809	10218
40°	205149	111916	5306	9105	11084
45°	225195	106606	5090	9694	12007
50°	220775	95544	5064	10315	13209
55°	218200	58611	5074	11140	14593
60°	173084	13950	5339	11849	15810
65°	11003	2486	5216	12103	17075
70°	2367	2719	5086	12589	18027
75°	2262	2728	4525	12111	18432
80°	1984	2678	4661	12100	17456
85°	1383	2766	5335	10671	17389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 237698 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	1.2
10°-20°	46.3	6.2
20°-30°	107.4	14.5
30°-40°	167.0	22.5
40°-50°	190.3	25.6
50°-60°	160.3	21.6
60°-70°	46.5	6.3
70°-80°	11.9	1.6
80°-90°	4.0	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°	163.0	21.9
0°-40°	330.0	44.4
0°-60°	680.5	91.6
0°-90°	743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	144	113	72	55	52	19
15°	474	268	59	49	50	137
25°	806	422	43	45	49	375
35°	960	512	28	42	49	597
45°	925	438	21	40	49	695
55°	727	195	17	37	49	611
65°	27	6	13	30	42	134
75°	3	4	7	18	28	4
85°	1	1	3	5	9	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°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2.5°	99.3	98.6	98.6	97.9	97.3	96.6	94.6	93.9	89.8	81.7	73.6
5°	144.5	143.9	141.8	141.2	137.8	133.1	128.3	123.6	112.8	89.8	72.3
7.5°	209.4	210.7	209.4	201.9	197.2	189.8	175.6	165.5	143.9	97.9	69.6
10°	295.1	295.1	293.1	281.6	271.5	257.3	239.1	221.5	181.7	105.4	66.9
12.5°	388.4	390.4	380.2	370.8	352.6	335.0	310.0	283.7	224.9	111.4	63.5
15°	473.5	472.1	462.0	449.8	430.9	406.6	380.2	346.5	267.5	115.5	58.8
17.5°	549.1	546.4	537.6	524.1	501.1	474.1	440.4	403.9	311.4	118.9	55.4
20°	618.0	608.5	598.4	584.2	561.9	533.6	498.4	457.2	352.6	118.9	51.3
22.5°	705.1	695.7	681.5	659.9	630.1	595.0	553.8	507.2	389.0	116.2	47.3
25°	806.4	799.0	774.7	747.0	708.5	666.6	618.7	555.9	422.1	112.1	43.2
27.5°	894.9	886.8	862.5	822.0	775.4	725.4	674.7	610.6	451.2	104.7	38.5
30°	959.1	948.9	930.0	891.5	834.8	774.0	713.9	652.4	480.2	95.9	34.4
32.5°	975.9	974.6	960.4	932.0	881.4	814.5	742.9	676.1	503.2	84.4	31.1
35°	960.4	962.4	959.7	945.6	908.4	842.9	761.8	688.9	512.0	72.9	27.7
37.5°	932.0	934.7	939.5	941.5	917.9	859.8	772.7	694.3	509.9	61.5	25.7
40°	912.5	911.1	911.1	924.6	919.9	867.2	774.0	690.3	497.8	49.3	23.6
42.5°	914.5	899.6	889.5	911.1	917.9	863.8	765.2	679.4	471.4	37.8	21.6
45°	924.6	892.9	875.3	903.0	913.8	852.4	749.0	663.2	437.7	26.3	20.9
47.5°	886.8	865.9	863.2	902.3	906.4	832.8	724.0	637.6	405.2	18.2	19.6
50°	824.0	820.6	834.8	875.3	876.0	800.3	695.7	591.0	356.6	12.8	18.9
52.5°	804.4	806.4	819.3	840.2	820.6	745.6	644.3	551.8	295.1	10.1	18.2
55°	726.7	730.1	742.3	755.1	740.9	678.8	582.2	504.5	195.2	9.5	16.9
57.5°	547.1	555.9	578.1	589.6	591.0	553.2	527.5	435.0	110.1	9.5	16.2
60°	502.5	491.0	480.9	457.2	435.6	430.9	433.6	326.2	40.5	8.8	15.5
62.5°	262.7	257.3	272.9	283.0	285.7	300.6	281.0	172.2	8.8	8.8	14.2
65°	27.0	27.0	33.1	43.9	72.9	97.3	92.5	50.0	6.1	8.1	12.8
67.5°	8.1	8.1	8.1	9.5	12.2	12.2	10.1	7.4	6.1	7.4	11.5
70°	4.7	4.7	4.7	4.7	4.7	4.7	5.4	4.7	5.4	6.8	10.1
72.5°	4.1	4.1	4.1	4.1	4.7	4.7	4.7	4.7	4.7	6.1	8.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.7	6.8
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.4	3.4	3.4	4.1	5.4
80°	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7	3.4	4.7
82.5°	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.7	3.4
85°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0
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):

	112.5°	135°	157.5°	180°
0°	73.6	73.6	73.6	73.6
2.5°	66.9	62.1	59.4	58.1
5°	60.8	54.7	52.7	52.0
7.5°	55.4	51.3	50.7	50.7
10°	52.0	49.3	50.0	50.0
12.5°	50.0	49.3	50.0	50.7
15°	48.0	48.6	50.0	50.0
17.5°	46.6	48.0	49.3	50.0
20°	44.6	47.3	49.3	49.3
22.5°	43.2	46.6	48.6	49.3
25°	41.9	45.3	48.0	49.3
27.5°	39.8	44.6	48.0	48.6
30°	37.8	43.2	47.3	49.3
32.5°	35.8	42.6	47.3	48.6
35°	34.4	41.9	47.3	48.6
37.5°	33.1	41.2	47.3	49.3
40°	32.4	40.5	46.6	49.3
42.5°	31.1	40.5	46.6	49.3
45°	30.4	39.8	46.6	49.3
47.5°	29.7	39.2	46.6	49.3
50°	28.4	38.5	45.9	49.3
52.5°	27.7	37.8	45.9	49.3
55°	26.3	37.1	45.3	48.6
57.5°	25.7	35.8	44.6	47.3
60°	24.3	34.4	43.2	45.9
62.5°	22.3	32.4	41.2	44.6
65°	20.3	29.7	39.2	41.9
67.5°	18.2	27.7	36.5	39.2
70°	16.2	25.0	33.1	35.8
72.5°	14.2	21.6	29.7	31.7
75°	12.2	18.2	25.0	27.7
77.5°	9.5	14.9	20.9	23.0
80°	7.4	12.2	16.2	17.6
82.5°	6.1	8.8	12.2	12.8
85°	4.1	5.4	7.4	8.8
87.5°	2.0	2.7	3.4	4.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)