

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: P1305986

Luminaire Tested: P3SQAS13R609024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305986
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: P3SQAS13R609024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

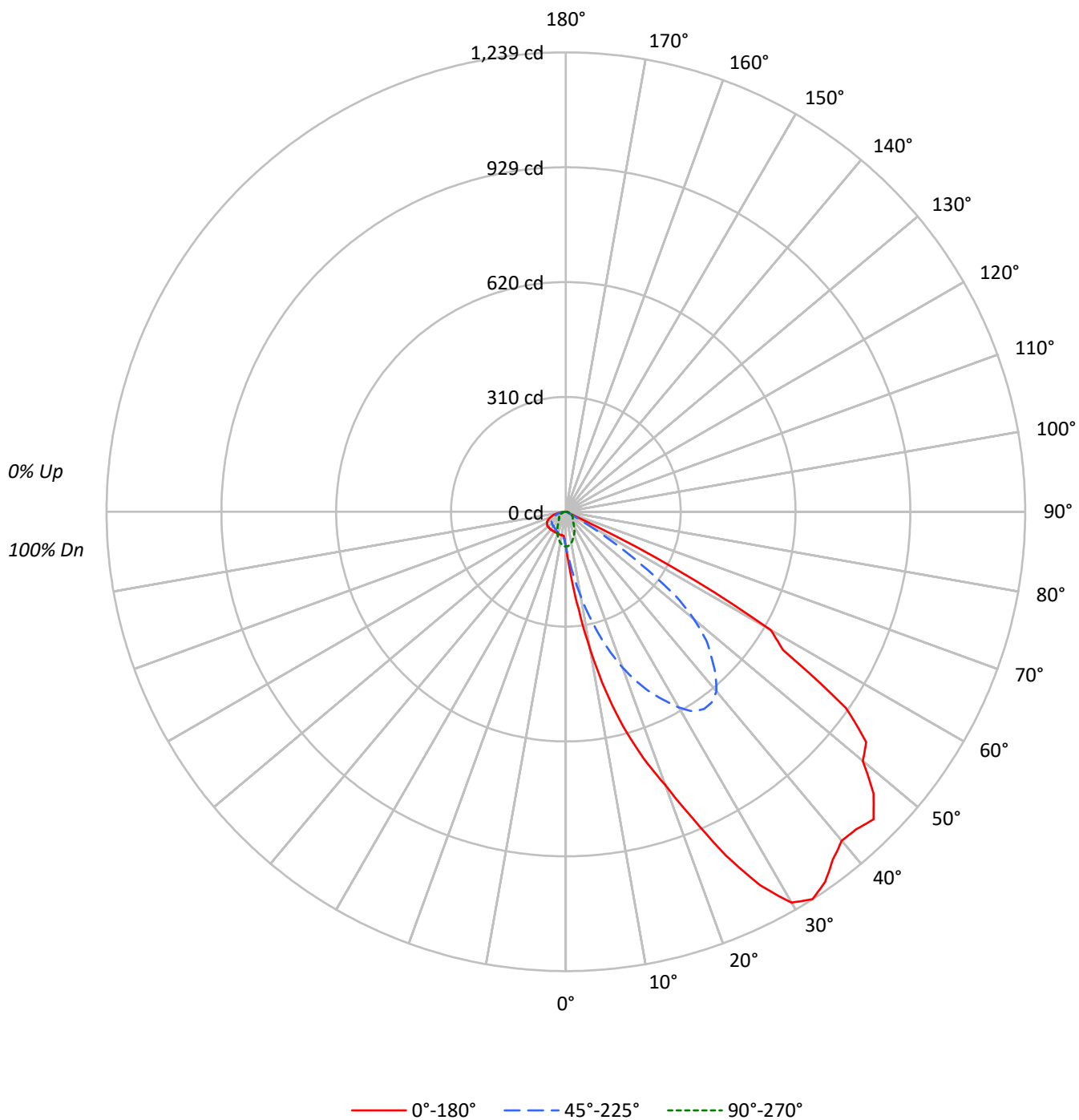
Lumens per Lamp: N/A
Luminaire Lumens: 943.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
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°	16086	16086	16086	16086	16086
5°	31706	24756	15853	11998	11410
10°	65510	40327	14847	10947	11087
15°	107139	60532	13301	11001	11304
20°	143743	82016	11931	10997	11473
25°	194492	101797	10432	10908	11896
30°	242059	121209	8690	10918	12449
35°	256268	136617	7380	11164	12972
40°	260365	142042	6745	11556	14074
45°	285817	135297	6479	12324	15247
50°	280202	121266	6430	13102	16772
55°	276931	74375	6426	14142	18526
60°	219687	17704	6786	15052	20081
65°	13978	3138	6642	15363	21639
70°	3021	3474	6496	15962	22861
75°	2861	3394	5723	15371	23356
80°	2579	3372	5951	15274	22117
85°	1778	3359	6719	13635	21934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 301692 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	1.2
10°-20°	58.8	6.2
20°-30°	136.4	14.5
30°-40°	212.0	22.5
40°-50°	241.5	25.6
50°-60°	203.4	21.6
60°-70°	59.0	6.3
70°-80°	15.1	1.6
80°-90°	5.1	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°	206.8	21.9
0°-40°	418.8	44.4
0°-60°	863.7	91.6
0°-90°	943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	93	93	93	93	93	
5°	183	143	92	69	66	23
15°	601	340	75	62	63	174
25°	1024	536	55	57	63	475
35°	1219	650	35	53	62	757
45°	1174	556	27	51	63	882
55°	922	248	21	47	62	776
65°	34	8	16	38	53	170
75°	4	5	9	23	35	5
85°	1	2	3	7	11	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°	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
2.5°	126.0	125.2	125.2	124.3	123.4	122.6	120.0	119.2	114.0	103.7	93.4
5°	183.4	182.6	180.0	179.2	174.9	168.9	162.9	156.9	143.2	114.0	91.7
7.5°	265.7	267.4	265.7	256.3	250.3	240.9	222.9	210.0	182.6	124.3	88.3
10°	374.6	374.6	372.0	357.5	344.6	326.6	303.4	281.2	230.6	133.7	84.9
12.5°	492.9	495.5	482.6	470.6	447.5	425.2	393.5	360.0	285.4	141.4	80.6
15°	600.9	599.2	586.3	570.9	546.9	516.0	482.6	439.7	339.5	146.6	74.6
17.5°	696.9	693.5	682.3	665.2	636.0	601.8	558.9	512.6	395.2	150.9	70.3
20°	784.3	772.3	759.5	741.5	713.2	677.2	632.6	580.3	447.5	150.9	65.1
22.5°	894.9	882.9	864.9	837.5	799.8	755.2	702.9	643.8	493.7	147.4	60.0
25°	1023.5	1014.1	983.2	948.1	899.2	846.1	785.2	705.5	535.7	142.3	54.9
27.5°	1135.8	1125.5	1094.6	1043.2	984.1	920.6	856.3	774.9	572.6	132.9	48.9
30°	1217.2	1204.4	1180.4	1131.5	1059.5	982.4	906.1	828.1	609.5	121.7	43.7
32.5°	1238.7	1236.9	1218.9	1182.9	1118.6	1033.8	942.9	858.1	638.6	107.1	39.4
35°	1218.9	1221.5	1218.1	1200.1	1152.9	1069.8	966.9	874.3	649.8	92.6	35.1
37.5°	1182.9	1186.4	1192.4	1194.9	1164.9	1091.2	980.6	881.2	647.2	78.0	32.6
40°	1158.1	1156.4	1156.4	1173.5	1167.5	1100.6	982.4	876.1	631.8	62.6	30.0
42.5°	1160.6	1141.8	1128.9	1156.4	1164.9	1096.4	971.2	862.3	598.3	48.0	27.4
45°	1173.5	1133.2	1110.9	1146.1	1159.8	1081.8	950.6	841.8	555.5	33.4	26.6
47.5°	1125.5	1098.9	1095.5	1145.2	1150.4	1056.9	918.9	809.2	514.3	23.1	24.9
50°	1045.8	1041.5	1059.5	1110.9	1111.8	1015.8	882.9	750.0	452.6	16.3	24.0
52.5°	1020.9	1023.5	1039.8	1066.4	1041.5	946.3	817.8	700.3	374.6	12.9	23.1
55°	922.3	926.6	942.1	958.3	940.3	861.5	738.9	640.3	247.7	12.0	21.4
57.5°	694.3	705.5	733.8	748.3	750.0	702.0	669.5	552.0	139.7	12.0	20.6
60°	637.8	623.2	610.3	580.3	552.9	546.9	550.3	414.0	51.4	11.1	19.7
62.5°	333.5	326.6	346.3	359.2	362.6	381.5	356.6	218.6	11.1	11.1	18.0
65°	34.3	34.3	42.0	55.7	92.6	123.4	117.4	63.4	7.7	10.3	16.3
67.5°	10.3	10.3	10.3	12.0	15.4	15.4	12.9	9.4	7.7	9.4	14.6
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.9	6.0	6.9	8.6	12.9
72.5°	5.1	5.1	5.1	5.1	6.0	6.0	6.0	6.0	6.0	7.7	11.1
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.1	6.0	8.6
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.3	4.3	4.3	5.1	6.9
80°	2.6	2.6	2.6	2.6	2.6	3.4	3.4	3.4	3.4	4.3	6.0
82.5°	1.7	1.7	1.7	1.7	2.6	2.6	2.6	2.6	2.6	3.4	4.3
85°	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.4
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6
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°	93.4	93.4	93.4	93.4
2.5°	84.9	78.9	75.4	73.7
5°	77.1	69.4	66.9	66.0
7.5°	70.3	65.1	64.3	64.3
10°	66.0	62.6	63.4	63.4
12.5°	63.4	62.6	63.4	64.3
15°	60.9	61.7	63.4	63.4
17.5°	59.1	60.9	62.6	63.4
20°	56.6	60.0	62.6	62.6
22.5°	54.9	59.1	61.7	62.6
25°	53.1	57.4	60.9	62.6
27.5°	50.6	56.6	60.9	61.7
30°	48.0	54.9	60.0	62.6
32.5°	45.4	54.0	60.0	61.7
35°	43.7	53.1	60.0	61.7
37.5°	42.0	52.3	60.0	62.6
40°	41.1	51.4	59.1	62.6
42.5°	39.4	51.4	59.1	62.6
45°	38.6	50.6	59.1	62.6
47.5°	37.7	49.7	59.1	62.6
50°	36.0	48.9	58.3	62.6
52.5°	35.1	48.0	58.3	62.6
55°	33.4	47.1	57.4	61.7
57.5°	32.6	45.4	56.6	60.0
60°	30.9	43.7	54.9	58.3
62.5°	28.3	41.1	52.3	56.6
65°	25.7	37.7	49.7	53.1
67.5°	23.1	35.1	46.3	49.7
70°	20.6	31.7	42.0	45.4
72.5°	18.0	27.4	37.7	40.3
75°	15.4	23.1	31.7	35.1
77.5°	12.0	18.9	26.6	29.1
80°	9.4	15.4	20.6	22.3
82.5°	7.7	11.1	15.4	16.3
85°	5.1	6.9	9.4	11.1
87.5°	2.6	3.4	4.3	5.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)