

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: P1307890

Luminaire Tested: P3SQAS09R509030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

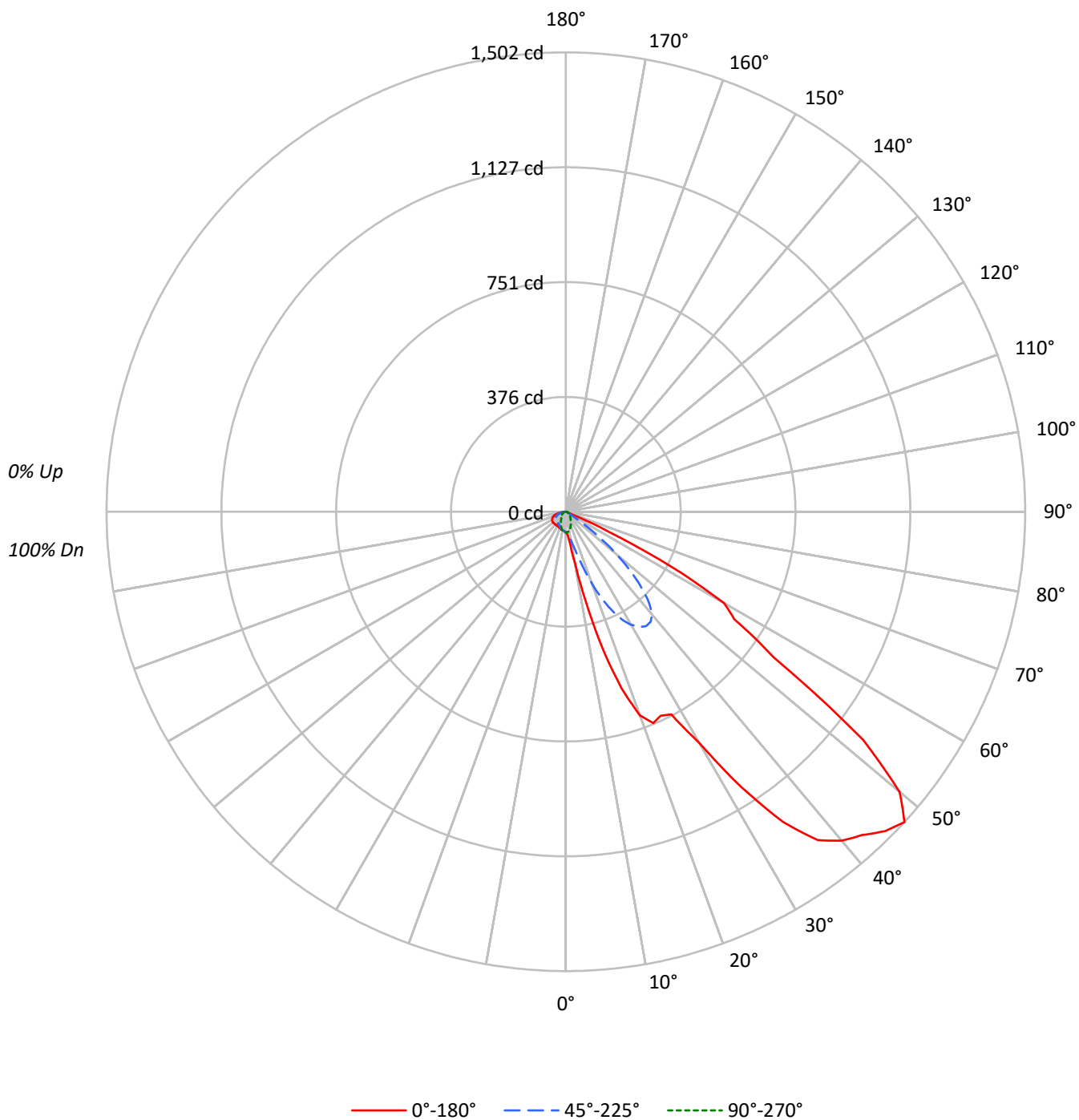
Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31			
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27			
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23			
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11591	11591	11591	11591	11591
5°	13779	12897	11514	10995	10874
10°	29677	15984	11000	10615	10755
15°	82178	26210	9913	10181	10573
20°	129924	45984	8577	9787	10318
25°	139708	67573	7373	9444	10432
30°	173431	84816	6403	9307	10759
35°	260241	95977	5529	9377	11374
40°	315626	98696	4924	9712	12005
45°	359567	84637	4822	10327	13177
50°	381641	58409	4903	11173	14709
55°	249337	23510	4834	12070	16244
60°	205634	4030	4788	13089	17877
65°	62024	2078	4483	14018	19683
70°	2568	2216	4431	14351	21350
75°	2462	2462	4392	14573	23356
80°	2182	2182	4364	14480	23902
85°	1383	2964	5730	14425	23120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 382867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.8
10°-20°	40.1	4.7
20°-30°	103.1	12.2
30°-40°	185.2	21.9
40°-50°	247.4	29.2
50°-60°	188.4	22.2
60°-70°	57.2	6.8
70°-80°	13.7	1.6
80°-90°	4.9	0.6
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°	150.2	17.7
0°-40°	335.4	39.6
0°-60°	771.2	91.1
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	80	75	67	64	63	10
15°	461	147	56	57	59	136
25°	735	356	39	50	55	351
35°	1238	456	26	45	54	760
45°	1476	348	20	42	54	1129
55°	830	78	16	40	54	826
65°	152	5	11	34	48	211
75°	4	4	7	22	35	4
85°	1	2	3	7	12	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°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
2.5°	71.7	71.7	71.7	71.7	71.7	71.7	71.0	71.0	71.0	69.5	68.0
5°	79.7	80.5	79.7	79.7	78.3	78.3	76.8	76.8	74.6	70.2	66.6
7.5°	104.6	103.9	103.2	100.2	98.0	92.9	90.7	87.1	80.5	70.2	65.1
10°	169.7	165.3	162.4	155.8	141.9	133.1	121.4	109.7	91.4	70.2	62.9
12.5°	294.8	294.1	285.3	263.4	243.6	216.5	188.0	159.5	112.7	68.8	60.0
15°	460.9	454.3	441.9	416.3	381.2	338.7	287.5	237.0	147.0	66.6	55.6
17.5°	602.8	594.8	585.3	559.7	519.4	466.0	404.6	335.1	193.9	63.6	51.2
20°	708.9	703.8	695.7	675.3	637.2	588.9	520.2	436.0	250.9	60.0	46.8
22.5°	747.7	747.0	748.4	741.1	722.1	684.0	618.2	530.4	307.3	55.6	42.4
25°	735.2	734.5	744.0	753.5	757.9	742.6	692.1	606.5	355.6	51.9	38.8
27.5°	747.0	744.8	740.4	741.8	754.3	763.0	739.6	665.0	397.3	46.8	35.1
30°	872.1	859.6	839.9	806.2	781.3	779.1	768.9	711.1	426.5	41.7	32.2
32.5°	1067.4	1052.0	1016.2	954.0	894.7	849.4	817.2	749.9	447.0	36.6	28.5
35°	1237.8	1226.9	1185.2	1123.7	1038.9	954.0	895.5	806.9	456.5	32.2	26.3
37.5°	1353.4	1349.0	1308.1	1242.2	1155.9	1055.7	978.1	865.5	454.3	27.1	24.1
40°	1403.9	1390.7	1356.4	1300.8	1213.7	1123.7	1041.8	902.8	439.0	21.9	21.9
42.5°	1433.9	1419.3	1382.0	1329.3	1243.7	1147.9	1049.1	886.7	402.4	17.6	21.2
45°	1476.3	1461.0	1412.0	1355.6	1269.3	1158.1	1020.6	829.6	347.5	13.2	19.8
47.5°	1501.9	1491.7	1455.1	1398.8	1294.2	1143.5	954.7	776.2	286.8	10.2	19.0
50°	1424.4	1414.2	1387.1	1348.3	1278.1	1094.5	896.9	689.9	218.0	8.0	18.3
52.5°	1226.1	1234.9	1240.0	1251.0	1199.8	984.7	810.6	621.1	147.0	6.6	16.8
55°	830.4	843.5	858.2	902.0	962.0	876.4	719.9	537.0	78.3	6.6	16.1
57.5°	652.6	648.2	643.8	640.9	687.7	722.8	632.8	429.4	33.7	6.6	14.6
60°	597.0	583.8	575.0	577.2	600.6	586.7	501.1	280.2	11.7	6.6	13.9
62.5°	391.4	401.6	421.4	455.0	439.0	376.8	291.2	111.2	5.9	6.6	12.4
65°	152.2	147.0	152.2	161.7	139.7	103.9	65.1	19.8	5.1	5.9	11.0
67.5°	20.5	18.3	13.9	8.8	8.0	7.3	5.9	5.1	5.1	5.9	10.2
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.4	4.4	5.1	8.8
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.1	7.3
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.4	6.6
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.7	5.1
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	4.4
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.9	3.7
85°	0.7	1.5	0.7	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.9
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	2.2
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°	67.3	67.3	67.3	67.3
2.5°	66.6	65.1	65.1	65.1
5°	65.1	63.6	63.6	62.9
7.5°	62.9	62.2	62.2	62.2
10°	61.5	60.7	61.5	61.5
12.5°	58.5	59.3	60.0	60.0
15°	55.6	57.1	58.5	59.3
17.5°	52.7	55.6	57.1	57.8
20°	49.7	53.4	55.6	56.3
22.5°	47.6	51.2	54.1	55.6
25°	44.6	49.7	53.4	54.9
27.5°	41.7	47.6	51.9	54.1
30°	39.5	46.8	51.9	54.1
32.5°	37.3	45.4	51.2	53.4
35°	35.8	44.6	51.2	54.1
37.5°	34.4	43.9	51.2	53.4
40°	33.7	43.2	51.2	53.4
42.5°	32.9	43.2	51.2	54.1
45°	31.5	42.4	51.2	54.1
47.5°	30.7	42.4	51.2	54.1
50°	30.0	41.7	51.2	54.9
52.5°	29.3	41.0	51.2	54.9
55°	27.8	40.2	50.5	54.1
57.5°	27.1	39.5	49.7	52.7
60°	25.6	38.0	48.3	51.9
62.5°	24.1	36.6	46.8	49.7
65°	21.9	34.4	44.6	48.3
67.5°	19.8	31.5	42.4	46.1
70°	17.6	28.5	39.5	42.4
72.5°	15.4	25.6	36.6	38.8
75°	13.2	21.9	32.2	35.1
77.5°	11.0	19.0	27.1	29.3
80°	8.0	14.6	21.9	24.1
82.5°	6.6	11.0	16.1	17.6
85°	4.4	7.3	10.2	11.7
87.5°	2.2	3.7	5.1	5.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)