

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: P1307881

Luminaire Tested: P3SQAS09R459030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R459030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

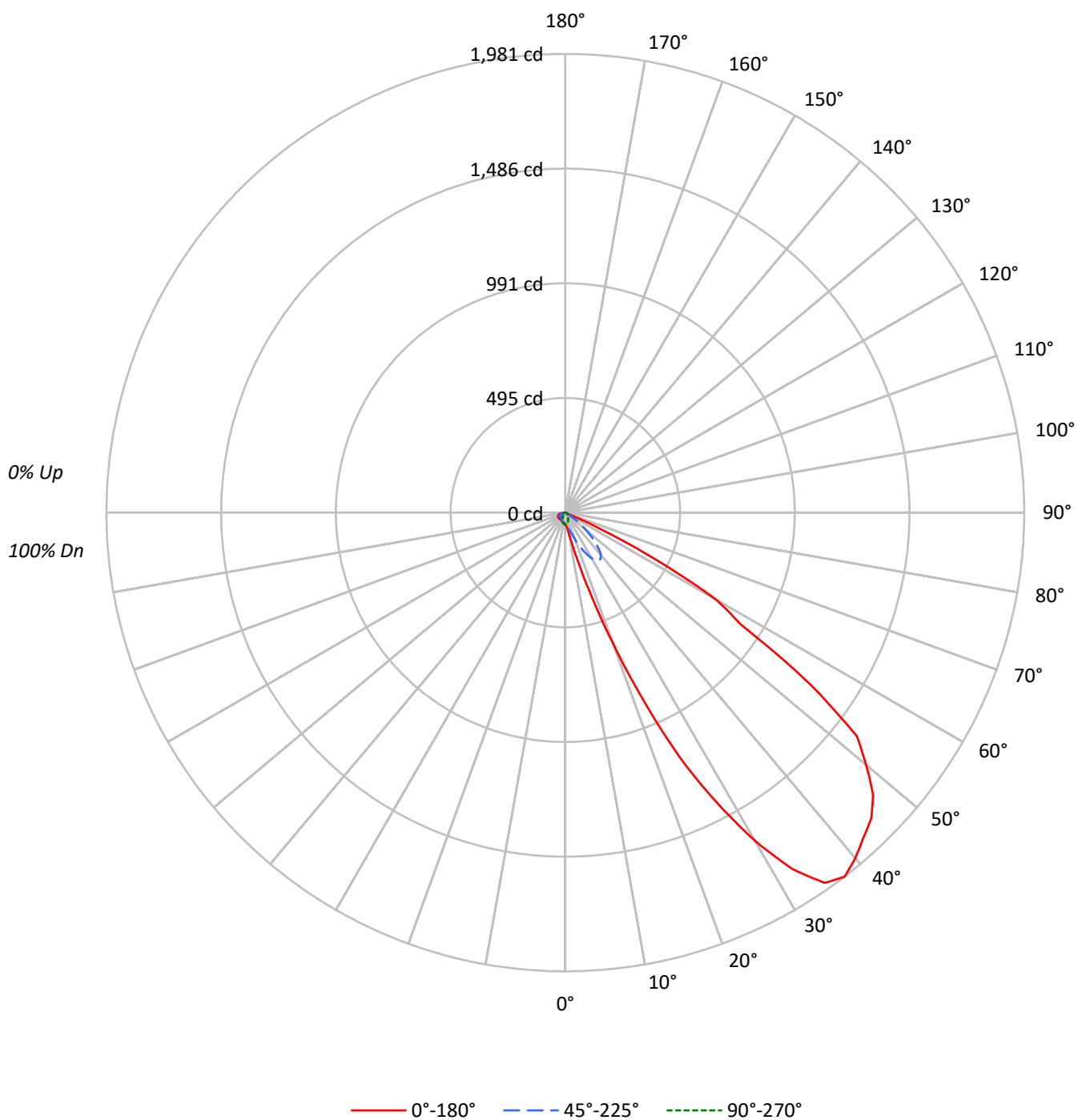
Lumens per Lamp: N/A
Luminaire Lumens: 885.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10		70	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
1	110	106	102	99		107	104	100	97		99	97	94		96	93	91		92	90	88
2	100	93	86	81		98	91	85	80		87	83	78		84	80	77		81	78	75
3	91	81	73	67		89	80	72	66		77	70	65		74	69	64		71	67	63
4	83	71	62	56		81	70	62	55		67	60	55		65	59	54		63	58	53
5	76	63	53	47		73	61	53	46		59	52	46		57	51	45		55	50	45
6	69	55	46	39		67	54	46	39		52	45	39		51	44	39		49	43	38
7	63	49	40	34		61	48	40	33		47	39	33		45	38	33		44	37	33
8	58	44	35	29		56	43	35	29		42	34	29		40	33	28		39	33	28
9	53	39	31	25		52	39	30	25		38	30	25		36	29	25		35	29	24
10	49	36	27	22		48	35	27	22		34	27	21		33	26	21		32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8818	8818	8818	8818	8818
5°	10494	9733	8730	8091	8091
10°	16753	11385	8184	7677	7677
15°	41722	15262	7435	7168	7435
20°	109892	22781	6433	6836	7239
25°	220659	33768	5568	6385	7088
30°	325304	45222	4514	6244	7278
35°	410335	53045	3847	6160	7527
40°	437793	53597	3462	6407	8049
45°	454872	44693	3215	6941	8719
50°	454143	31160	3135	7448	9806
55°	385986	13842	3303	8347	10749
60°	259436	2756	3272	9334	12331
65°	68829	1182	3260	10147	14018
70°	1863	1460	3323	11028	15811
75°	1464	1464	3394	11711	18033
80°	1488	2182	3670	12298	20332
85°	1383	2964	5730	13042	20156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 466583 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.6
10°-20°	25.0	2.8
20°-30°	103.0	11.6
30°-40°	217.0	24.5
40°-50°	267.7	30.2
50°-60°	200.7	22.7
60°-70°	51.6	5.8
70°-80°	10.7	1.2
80°-90°	4.3	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°	133.0	15.0
0°-40°	350.0	39.5
0°-60°	818.3	92.5
0°-90°	885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	61	56	50	47	47	7
15°	234	86	42	40	42	86
25°	1161	178	29	34	37	541
35°	1952	252	18	29	36	1189
45°	1868	184	13	28	36	1429
55°	1286	46	11	28	36	1110
65°	169	3	8	25	34	244
75°	2	2	5	18	27	3
85°	1	2	3	7	10	1
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°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	53.4	52.7	51.2	49.7
5°	60.7	60.0	60.0	60.0	59.2	58.5	58.5	56.3	53.4	50.5	48.3
7.5°	71.7	71.7	70.9	69.5	68.7	67.3	65.8	60.0	53.4	49.0	46.1
10°	95.8	94.3	92.1	90.7	87.0	81.9	78.2	65.1	52.7	46.8	44.6
12.5°	143.3	146.3	138.9	131.6	121.4	111.9	100.2	73.9	52.7	44.6	42.4
15°	234.0	239.1	225.2	210.6	185.7	162.3	140.4	85.6	51.2	41.7	39.5
17.5°	382.4	389.0	365.6	331.3	292.5	245.7	205.5	101.6	49.7	38.8	37.3
20°	599.6	598.9	553.6	510.4	435.8	367.1	291.8	124.3	47.5	35.1	35.1
22.5°	866.5	869.5	813.9	736.4	630.3	519.9	400.0	150.6	44.6	32.2	32.9
25°	1161.2	1136.4	1070.6	976.2	840.9	688.1	530.2	177.7	41.7	29.3	30.7
27.5°	1406.9	1382.8	1307.5	1195.6	1050.1	868.7	662.5	204.8	38.0	26.3	28.5
30°	1635.8	1605.1	1514.4	1387.9	1214.6	1018.6	786.8	227.4	33.6	22.7	26.3
32.5°	1824.5	1796.7	1693.6	1546.6	1357.9	1147.3	892.1	245.0	29.3	20.5	24.9
35°	1951.7	1923.2	1828.1	1666.5	1461.0	1240.9	977.7	252.3	25.6	18.3	24.1
37.5°	1981.0	1965.6	1897.6	1746.2	1532.0	1300.9	1032.5	250.1	21.2	16.8	22.7
40°	1947.3	1951.0	1918.8	1793.0	1570.0	1326.5	1055.2	238.4	17.6	15.4	21.9
42.5°	1904.2	1913.7	1911.5	1812.0	1586.1	1328.0	1045.7	215.0	13.9	13.9	21.2
45°	1867.6	1877.1	1890.3	1804.0	1575.1	1308.9	1015.7	183.5	10.2	13.2	21.2
47.5°	1801.1	1811.3	1830.3	1739.7	1519.5	1260.0	961.6	149.2	7.3	12.4	20.5
50°	1695.0	1700.2	1695.0	1593.4	1412.8	1181.0	873.8	116.3	5.1	11.7	20.5
52.5°	1586.1	1575.9	1533.4	1404.7	1243.1	1055.9	763.4	82.6	3.7	11.0	19.7
55°	1285.5	1269.5	1238.0	1159.0	1066.9	902.4	617.2	46.1	3.7	11.0	19.0
57.5°	895.8	904.6	915.5	899.4	857.0	710.8	468.7	20.5	3.7	10.2	19.0
60°	753.2	745.9	746.6	736.4	666.2	518.5	322.5	8.0	3.7	9.5	18.3
62.5°	449.7	454.8	464.3	466.5	397.1	289.6	168.9	3.7	3.7	8.8	17.6
65°	168.9	177.0	155.0	134.6	106.8	78.2	39.5	2.9	4.4	8.0	16.1
67.5°	5.1	5.9	7.3	6.6	6.6	5.9	4.4	2.9	4.4	7.3	15.4
70°	3.7	3.7	3.7	3.7	3.7	2.9	2.9	2.9	3.7	6.6	13.9
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.7	5.9	12.4
75°	2.2	2.9	2.2	2.2	2.2	2.2	2.2	2.2	3.7	5.1	10.2
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	4.4	8.8
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.9	3.7	7.3
82.5°	1.5	1.5	1.5	0.7	1.5	1.5	1.5	1.5	2.9	2.9	5.9
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	2.9	3.7
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.5	2.2	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):

	135°	157.5°	180°
0°	51.2	51.2	51.2
2.5°	48.3	48.3	48.3
5°	46.8	46.8	46.8
7.5°	45.3	45.3	45.3
10°	43.9	43.9	43.9
12.5°	42.4	42.4	43.1
15°	40.2	41.7	41.7
17.5°	38.8	40.2	41.0
20°	37.3	38.8	39.5
22.5°	35.1	37.3	38.8
25°	33.6	36.6	37.3
27.5°	32.2	35.8	37.3
30°	31.4	35.1	36.6
32.5°	30.0	34.4	35.8
35°	29.3	34.4	35.8
37.5°	29.3	33.6	35.8
40°	28.5	33.6	35.8
42.5°	28.5	33.6	35.8
45°	28.5	33.6	35.8
47.5°	27.8	33.6	36.6
50°	27.8	34.4	36.6
52.5°	27.8	34.4	36.6
55°	27.8	34.4	35.8
57.5°	27.1	33.6	35.8
60°	27.1	33.6	35.8
62.5°	25.6	32.9	35.1
65°	24.9	32.2	34.4
67.5°	23.4	31.4	32.9
70°	21.9	29.3	31.4
72.5°	19.7	27.8	30.0
75°	17.6	25.6	27.1
77.5°	15.4	22.7	24.1
80°	12.4	19.0	20.5
82.5°	9.5	14.6	15.4
85°	6.6	9.5	10.2
87.5°	2.9	4.4	5.1
90°	0.0	0.0	0.0

(END OF REPORT)