

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: P1313284

Luminaire Tested: P3SQAS09R459730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313284
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: P3SQAS09R459730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

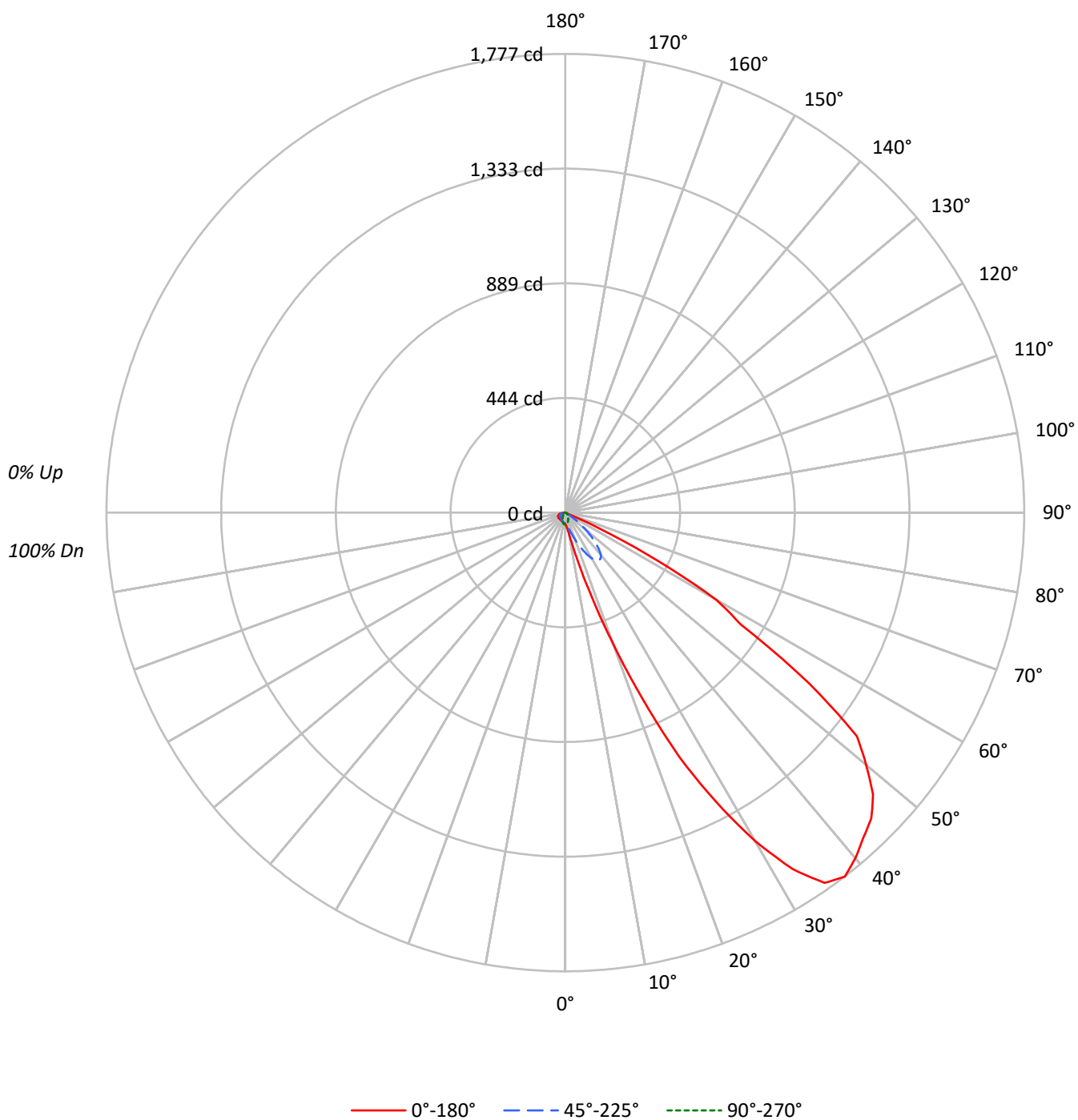
Lumens per Lamp: N/A
Luminaire Lumens: 794.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	99	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		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	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7905	7905	7905	7905	7905
5°	9422	8730	7831	7261	7261
10°	15022	10213	7345	6890	6890
15°	37425	13693	6668	6437	6668
20°	98602	20435	5773	6140	6488
25°	197970	30290	4979	5739	6366
30°	291855	40569	4037	5608	6523
35°	368139	47578	3448	5508	6749
40°	392784	48089	3103	5755	7217
45°	408108	40114	2874	6235	7818
50°	407469	27945	2813	6671	8788
55°	346321	12401	2943	7476	9638
60°	232742	2480	2928	8370	11057
65°	61779	1060	2934	9088	12551
70°	1662	1309	2971	9920	14200
75°	1331	1331	3061	10447	16170
80°	1289	1984	3273	11108	18249
85°	1383	2569	5138	11659	18180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 418607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.6
10°-20°	22.4	2.8
20°-30°	92.4	11.6
30°-40°	194.7	24.5
40°-50°	240.2	30.2
50°-60°	180.0	22.7
60°-70°	46.3	5.8
70°-80°	9.6	1.2
80°-90°	3.9	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°	119.3	15.0
0°-40°	314.0	39.5
0°-60°	734.2	92.5
0°-90°	794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	54	50	45	42	42	6
15°	210	77	37	36	37	77
25°	1042	159	26	30	34	485
35°	1751	226	16	26	32	1067
45°	1676	165	12	26	32	1282
55°	1153	41	10	25	32	996
65°	152	3	7	22	31	219
75°	2	2	5	16	24	2
85°	1	1	3	6	9	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°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	47.9	47.2	45.9	44.6
5°	54.5	53.8	53.8	53.8	53.1	52.5	52.5	50.5	47.9	45.3	43.3
7.5°	64.3	64.3	63.6	62.3	61.7	60.4	59.0	53.8	47.9	44.0	41.3
10°	85.9	84.6	82.7	81.4	78.1	73.5	70.2	58.4	47.2	42.0	40.0
12.5°	128.6	131.2	124.7	118.1	108.9	100.4	89.9	66.3	47.2	40.0	38.1
15°	209.9	214.5	202.1	188.9	166.6	145.6	126.0	76.8	45.9	37.4	35.4
17.5°	343.1	349.0	328.0	297.2	262.4	220.4	184.4	91.2	44.6	34.8	33.5
20°	538.0	537.3	496.6	457.9	391.0	329.3	261.8	111.5	42.6	31.5	31.5
22.5°	777.4	780.1	730.2	660.7	565.5	466.5	358.9	135.1	40.0	28.9	29.5
25°	1041.8	1019.5	960.5	875.8	754.5	617.4	475.6	159.4	37.4	26.2	27.6
27.5°	1262.3	1240.6	1173.0	1072.7	942.1	779.4	594.4	183.7	34.1	23.6	25.6
30°	1467.6	1440.1	1358.7	1245.2	1089.7	913.9	705.9	204.0	30.2	20.3	23.6
32.5°	1636.9	1611.9	1519.4	1387.6	1218.3	1029.4	800.4	219.8	26.2	18.4	22.3
35°	1751.0	1725.4	1640.2	1495.2	1310.8	1113.3	877.2	226.3	23.0	16.4	21.7
37.5°	1777.3	1763.5	1702.5	1566.7	1374.5	1167.1	926.4	224.4	19.0	15.1	20.3
40°	1747.1	1750.4	1721.5	1608.7	1408.6	1190.1	946.7	213.9	15.7	13.8	19.7
42.5°	1708.4	1716.9	1714.9	1625.7	1423.0	1191.4	938.2	192.9	12.5	12.5	19.0
45°	1675.6	1684.1	1695.9	1618.5	1413.2	1174.4	911.3	164.7	9.2	11.8	19.0
47.5°	1615.9	1625.1	1642.1	1560.8	1363.3	1130.4	862.7	133.8	6.6	11.2	18.4
50°	1520.8	1525.3	1520.8	1429.6	1267.5	1059.5	784.0	104.3	4.6	10.5	18.4
52.5°	1423.0	1413.8	1375.8	1260.3	1115.3	947.4	684.9	74.1	3.3	9.8	17.7
55°	1153.4	1138.9	1110.7	1039.9	957.2	809.6	553.7	41.3	3.3	9.8	17.1
57.5°	803.7	811.5	821.4	807.0	768.9	637.7	420.5	18.4	3.3	9.2	17.1
60°	675.7	669.2	669.8	660.7	597.7	465.1	289.3	7.2	3.3	8.5	16.4
62.5°	403.5	408.1	416.6	418.6	356.2	259.8	151.6	3.3	3.3	7.9	15.7
65°	151.6	158.8	139.1	120.7	95.8	70.2	35.4	2.6	3.9	7.2	14.4
67.5°	4.6	5.2	6.6	5.9	5.9	5.2	3.9	2.6	3.9	6.6	13.8
70°	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6	3.3	5.9	12.5
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3	5.2	11.2
75°	2.0	2.6	2.0	2.0	2.0	2.0	2.0	2.0	3.3	4.6	9.2
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.9	7.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.6	3.3	6.6
82.5°	1.3	1.3	1.3	0.7	1.3	1.3	1.3	1.3	2.6	2.6	5.2
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0	2.6	3.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.3	2.0	2.0	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):

	135°	157.5°	180°
0°	45.9	45.9	45.9
2.5°	43.3	43.3	43.3
5°	42.0	42.0	42.0
7.5°	40.7	40.7	40.7
10°	39.4	39.4	39.4
12.5°	38.1	38.1	38.7
15°	36.1	37.4	37.4
17.5°	34.8	36.1	36.7
20°	33.5	34.8	35.4
22.5°	31.5	33.5	34.8
25°	30.2	32.8	33.5
27.5°	28.9	32.1	33.5
30°	28.2	31.5	32.8
32.5°	26.9	30.8	32.1
35°	26.2	30.8	32.1
37.5°	26.2	30.2	32.1
40°	25.6	30.2	32.1
42.5°	25.6	30.2	32.1
45°	25.6	30.2	32.1
47.5°	24.9	30.2	32.8
50°	24.9	30.8	32.8
52.5°	24.9	30.8	32.8
55°	24.9	30.8	32.1
57.5°	24.3	30.2	32.1
60°	24.3	30.2	32.1
62.5°	23.0	29.5	31.5
65°	22.3	28.9	30.8
67.5°	21.0	28.2	29.5
70°	19.7	26.2	28.2
72.5°	17.7	24.9	26.9
75°	15.7	23.0	24.3
77.5°	13.8	20.3	21.7
80°	11.2	17.1	18.4
82.5°	8.5	13.1	13.8
85°	5.9	8.5	9.2
87.5°	2.6	3.9	4.6
90°	0.0	0.0	0.0

(END OF REPORT)