

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: P1305791

Luminaire Tested: P3SQASS09R459024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305791
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: P3SQASS09R459024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

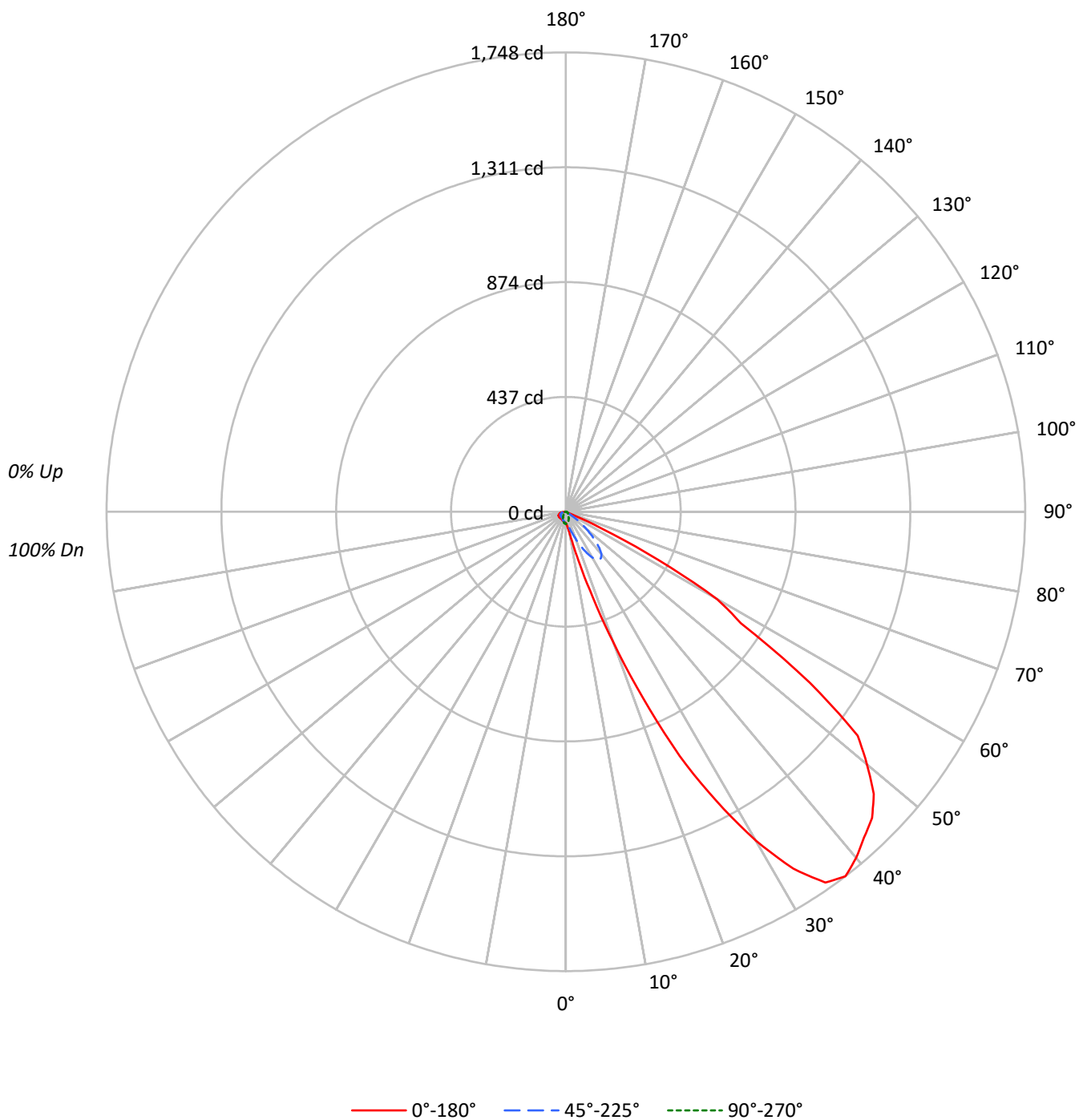
Lumens per Lamp: N/A
Luminaire Lumens: 781.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	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°	7784	7784	7784	7784	7784
5°	9266	8592	7693	7140	7140
10°	14777	10038	7223	6768	6768
15°	36819	13461	6561	6330	6561
20°	96989	20105	5682	6030	6378
25°	194739	29796	4903	5644	6252
30°	287082	39912	3977	5509	6423
35°	362126	46801	3385	5424	6644
40°	386354	47302	3058	5665	7104
45°	401435	39457	2825	6138	7696
50°	400798	27490	2760	6564	8654
55°	340646	12221	2913	7356	9488
60°	228953	2446	2893	8232	10884
65°	60760	1060	2893	8925	12348
70°	1611	1309	2921	9769	13948
75°	1264	1264	2994	10314	15903
80°	1289	1884	3174	10910	17951
85°	1186	2569	5138	11461	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 411750 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.6
10°-20°	22.0	2.8
20°-30°	90.9	11.6
30°-40°	191.5	24.5
40°-50°	236.2	30.2
50°-60°	177.1	22.7
60°-70°	45.6	5.8
70°-80°	9.4	1.2
80°-90°	3.8	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°	117.4	15.0
0°-40°	308.9	39.5
0°-60°	722.2	92.5
0°-90°	781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	54	50	44	41	41	6
15°	206	76	37	36	37	76
25°	1025	157	26	30	33	477
35°	1722	223	16	26	32	1050
45°	1648	162	12	25	32	1261
55°	1134	41	10	24	32	980
65°	149	3	7	22	30	215
75°	2	2	4	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°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.1	46.5	45.2	43.9
5°	53.6	52.9	52.9	52.9	52.3	51.6	51.6	49.7	47.1	44.5	42.6
7.5°	63.2	63.2	62.6	61.3	60.7	59.4	58.1	52.9	47.1	43.2	40.7
10°	84.5	83.2	81.3	80.0	76.8	72.3	69.0	57.4	46.5	41.3	39.4
12.5°	126.5	129.1	122.6	116.2	107.1	98.7	88.4	65.2	46.5	39.4	37.4
15°	206.5	211.0	198.8	185.9	163.9	143.3	123.9	75.5	45.2	36.8	34.8
17.5°	337.5	343.3	322.7	292.3	258.1	216.8	181.3	89.7	43.9	34.2	32.9
20°	529.2	528.5	488.5	450.4	384.6	324.0	257.5	109.7	41.9	31.0	31.0
22.5°	764.7	767.3	718.2	649.8	556.3	458.8	353.0	132.9	39.4	28.4	29.0
25°	1024.8	1002.8	944.8	861.5	742.1	607.2	467.9	156.8	36.8	25.8	27.1
27.5°	1241.6	1220.3	1153.8	1055.1	926.7	766.6	584.7	180.7	33.6	23.2	25.2
30°	1443.6	1416.5	1336.5	1224.8	1071.9	898.9	694.4	200.7	29.7	20.0	23.2
32.5°	1610.1	1585.6	1494.6	1364.9	1198.4	1012.5	787.3	216.2	25.8	18.1	21.9
35°	1722.4	1697.2	1613.3	1470.7	1289.4	1095.1	862.8	222.6	22.6	16.1	21.3
37.5°	1748.2	1734.6	1674.6	1541.0	1351.9	1148.0	911.2	220.7	18.7	14.8	20.0
40°	1718.5	1721.7	1693.3	1582.3	1385.5	1170.6	931.2	210.4	15.5	13.6	19.4
42.5°	1680.4	1688.8	1686.9	1599.1	1399.7	1171.9	922.8	189.7	12.3	12.3	18.7
45°	1648.2	1656.5	1668.2	1592.0	1390.0	1155.1	896.4	162.0	9.0	11.6	18.7
47.5°	1589.4	1598.5	1615.2	1535.2	1341.0	1111.9	848.6	131.6	6.5	11.0	18.1
50°	1495.9	1500.4	1495.9	1406.2	1246.8	1042.2	771.2	102.6	4.5	10.3	18.1
52.5°	1399.7	1390.7	1353.2	1239.7	1097.0	931.8	673.7	72.9	3.2	9.7	17.4
55°	1134.5	1120.3	1092.5	1022.8	941.5	796.3	544.7	40.7	3.2	9.7	16.8
57.5°	790.5	798.3	807.9	793.7	756.3	627.3	413.7	18.1	3.2	9.0	16.8
60°	664.7	658.2	658.9	649.8	587.9	457.5	284.6	7.1	3.2	8.4	16.1
62.5°	396.9	401.4	409.8	411.7	350.4	255.5	149.1	3.2	3.2	7.7	15.5
65°	149.1	156.2	136.8	118.7	94.2	69.0	34.8	2.6	3.9	7.1	14.2
67.5°	4.5	5.2	6.5	5.8	5.8	5.2	3.9	2.6	3.9	6.5	13.6
70°	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6	3.2	5.8	12.3
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	5.2	11.0
75°	1.9	2.6	1.9	1.9	1.9	1.9	1.9	1.9	3.2	4.5	9.0
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.9	7.7
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	2.6	3.2	6.5
82.5°	1.3	1.3	1.3	0.6	1.3	1.3	1.3	1.3	2.6	2.6	5.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.9	2.6	3.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.3	1.9	1.9	1.9
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°	45.2	45.2	45.2
2.5°	42.6	42.6	42.6
5°	41.3	41.3	41.3
7.5°	40.0	40.0	40.0
10°	38.7	38.7	38.7
12.5°	37.4	37.4	38.1
15°	35.5	36.8	36.8
17.5°	34.2	35.5	36.1
20°	32.9	34.2	34.8
22.5°	31.0	32.9	34.2
25°	29.7	32.3	32.9
27.5°	28.4	31.6	32.9
30°	27.7	31.0	32.3
32.5°	26.5	30.3	31.6
35°	25.8	30.3	31.6
37.5°	25.8	29.7	31.6
40°	25.2	29.7	31.6
42.5°	25.2	29.7	31.6
45°	25.2	29.7	31.6
47.5°	24.5	29.7	32.3
50°	24.5	30.3	32.3
52.5°	24.5	30.3	32.3
55°	24.5	30.3	31.6
57.5°	23.9	29.7	31.6
60°	23.9	29.7	31.6
62.5°	22.6	29.0	31.0
65°	21.9	28.4	30.3
67.5°	20.7	27.7	29.0
70°	19.4	25.8	27.7
72.5°	17.4	24.5	26.5
75°	15.5	22.6	23.9
77.5°	13.6	20.0	21.3
80°	11.0	16.8	18.1
82.5°	8.4	12.9	13.6
85°	5.8	8.4	9.0
87.5°	2.6	3.9	4.5
90°	0.0	0.0	0.0

(END OF REPORT)