

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: P1305800

Luminaire Tested: P3SQASS09R509024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305800
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: P3SQASS09R509024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

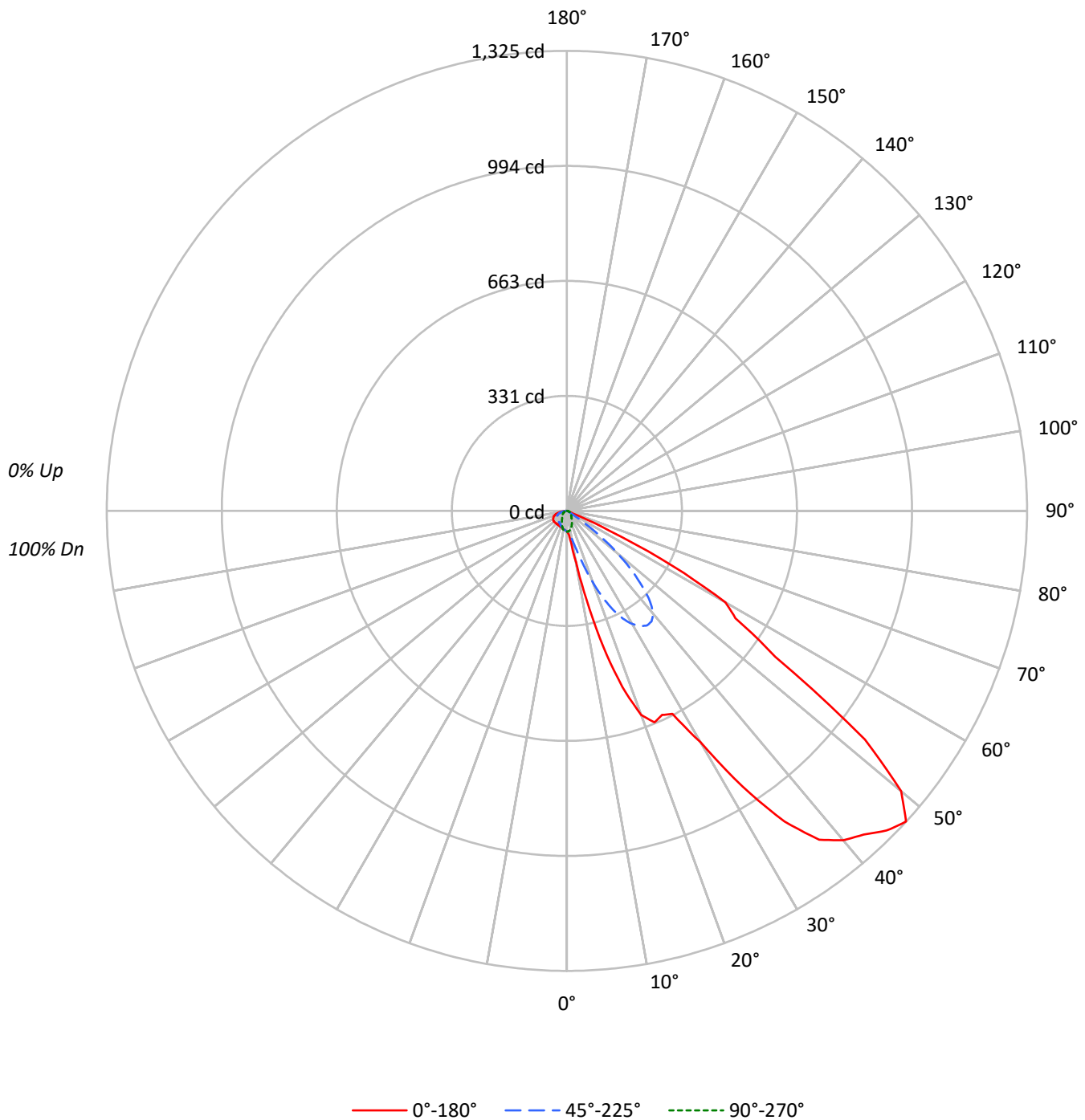
Lumens per Lamp: N/A
Luminaire Lumens: 747.0 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	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°	10230	10230	10230	10230	10230
5°	12153	11376	10148	9699	9595
10°	26179	14113	9706	9374	9478
15°	72478	23125	8737	8968	9325
20°	114584	40559	7569	8632	9109
25°	123213	59592	6499	8342	9197
30°	152948	74813	5648	8213	9486
35°	229524	84645	4878	8284	10029
40°	278373	87028	4362	8566	10589
45°	317115	74651	4238	9109	11618
50°	336575	51523	4314	9860	12968
55°	219881	20718	4264	10659	14322
60°	181350	3548	4237	11573	15776
65°	54688	1834	3953	12348	17360
70°	2266	1964	3877	12689	18833
75°	2129	2129	3859	12909	20628
80°	1884	1884	3868	12794	21125
85°	1186	2569	5138	12844	20353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 337669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.8
10°-20°	35.4	4.7
20°-30°	90.9	12.2
30°-40°	163.3	21.9
40°-50°	218.2	29.2
50°-60°	166.2	22.2
60°-70°	50.4	6.8
70°-80°	12.1	1.6
80°-90°	4.3	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°	132.5	17.7
0°-40°	295.8	39.6
0°-60°	680.2	91.1
0°-90°	747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	747.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	70	66	59	56	56	9
15°	406	130	49	50	52	120
25°	648	314	34	44	48	309
35°	1092	403	23	39	48	670
45°	1302	306	17	37	48	995
55°	732	69	14	36	48	729
65°	134	4	10	30	43	186
75°	3	3	6	19	31	3
85°	1	1	3	6	10	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	63.2	63.2	63.2	63.2	63.2	63.2	62.6	62.6	62.6	61.3	60.0
5°	70.3	71.0	70.3	70.3	69.0	69.0	67.7	67.7	65.8	61.9	58.7
7.5°	92.3	91.6	91.0	88.4	86.5	81.9	80.0	76.8	71.0	61.9	57.4
10°	149.7	145.8	143.2	137.4	125.2	117.4	107.1	96.8	80.7	61.9	55.5
12.5°	260.0	259.4	251.6	232.3	214.9	191.0	165.8	140.7	99.4	60.7	52.9
15°	406.5	400.7	389.7	367.1	336.2	298.7	253.6	209.0	129.7	58.7	49.0
17.5°	531.7	524.6	516.2	493.6	458.1	411.0	356.8	295.5	171.0	56.1	45.2
20°	625.2	620.7	613.6	595.5	562.0	519.4	458.7	384.5	221.3	52.9	41.3
22.5°	659.4	658.8	660.1	653.6	636.8	603.3	545.2	467.8	271.0	49.0	37.4
25°	648.4	647.8	656.2	664.6	668.4	654.9	610.4	534.9	313.6	45.8	34.2
27.5°	658.8	656.8	653.0	654.2	665.2	673.0	652.3	586.5	350.4	41.3	31.0
30°	769.1	758.1	740.7	711.0	689.1	687.2	678.1	627.1	376.2	36.8	28.4
32.5°	941.4	927.8	896.2	841.4	789.1	749.1	720.7	661.3	394.2	32.3	25.2
35°	1091.7	1082.0	1045.2	991.0	916.2	841.4	789.7	711.7	402.6	28.4	23.2
37.5°	1193.6	1189.8	1153.6	1095.6	1019.4	931.0	862.7	763.3	400.7	23.9	21.3
40°	1238.2	1226.6	1196.2	1147.2	1070.4	991.0	918.8	796.2	387.1	19.4	19.4
42.5°	1264.6	1251.7	1218.8	1172.4	1096.9	1012.3	925.2	782.0	354.9	15.5	18.7
45°	1302.0	1288.5	1245.3	1195.6	1119.4	1021.4	900.1	731.7	306.5	11.6	17.4
47.5°	1324.6	1315.6	1283.3	1233.6	1141.4	1008.5	842.0	684.6	252.9	9.0	16.8
50°	1256.2	1247.2	1223.3	1189.1	1127.2	965.2	791.0	608.4	192.3	7.1	16.1
52.5°	1081.4	1089.1	1093.6	1103.3	1058.1	868.5	714.9	547.8	129.7	5.8	14.8
55°	732.3	743.9	756.8	795.5	848.5	773.0	634.9	473.6	69.0	5.8	14.2
57.5°	575.5	571.7	567.8	565.2	606.5	637.5	558.1	378.7	29.7	5.8	12.9
60°	526.5	514.9	507.1	509.1	529.7	517.5	442.0	247.1	10.3	5.8	12.3
62.5°	345.2	354.2	371.6	401.3	387.1	332.3	256.8	98.1	5.2	5.8	11.0
65°	134.2	129.7	134.2	142.6	123.2	91.6	57.4	17.4	4.5	5.2	9.7
67.5°	18.1	16.1	12.3	7.7	7.1	6.5	5.2	4.5	4.5	5.2	9.0
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.9	3.9	4.5	7.7
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.5	6.5
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.9	5.8
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	4.5
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.9
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.6	3.2
85°	0.6	1.3	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.9	2.6
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	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):

	112.5°	135°	157.5°	180°
0°	59.4	59.4	59.4	59.4
2.5°	58.7	57.4	57.4	57.4
5°	57.4	56.1	56.1	55.5
7.5°	55.5	54.8	54.8	54.8
10°	54.2	53.6	54.2	54.2
12.5°	51.6	52.3	52.9	52.9
15°	49.0	50.3	51.6	52.3
17.5°	46.5	49.0	50.3	51.0
20°	43.9	47.1	49.0	49.7
22.5°	41.9	45.2	47.7	49.0
25°	39.4	43.9	47.1	48.4
27.5°	36.8	41.9	45.8	47.7
30°	34.8	41.3	45.8	47.7
32.5°	32.9	40.0	45.2	47.1
35°	31.6	39.4	45.2	47.7
37.5°	30.3	38.7	45.2	47.1
40°	29.7	38.1	45.2	47.1
42.5°	29.0	38.1	45.2	47.7
45°	27.7	37.4	45.2	47.7
47.5°	27.1	37.4	45.2	47.7
50°	26.5	36.8	45.2	48.4
52.5°	25.8	36.1	45.2	48.4
55°	24.5	35.5	44.5	47.7
57.5°	23.9	34.8	43.9	46.5
60°	22.6	33.6	42.6	45.8
62.5°	21.3	32.3	41.3	43.9
65°	19.4	30.3	39.4	42.6
67.5°	17.4	27.7	37.4	40.6
70°	15.5	25.2	34.8	37.4
72.5°	13.5	22.6	32.3	34.2
75°	11.6	19.4	28.4	31.0
77.5°	9.7	16.8	23.9	25.8
80°	7.1	12.9	19.4	21.3
82.5°	5.8	9.7	14.2	15.5
85°	3.9	6.5	9.0	10.3
87.5°	1.9	3.2	4.5	5.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)