

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: P1307899

Luminaire Tested: P3SQAS09R559030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

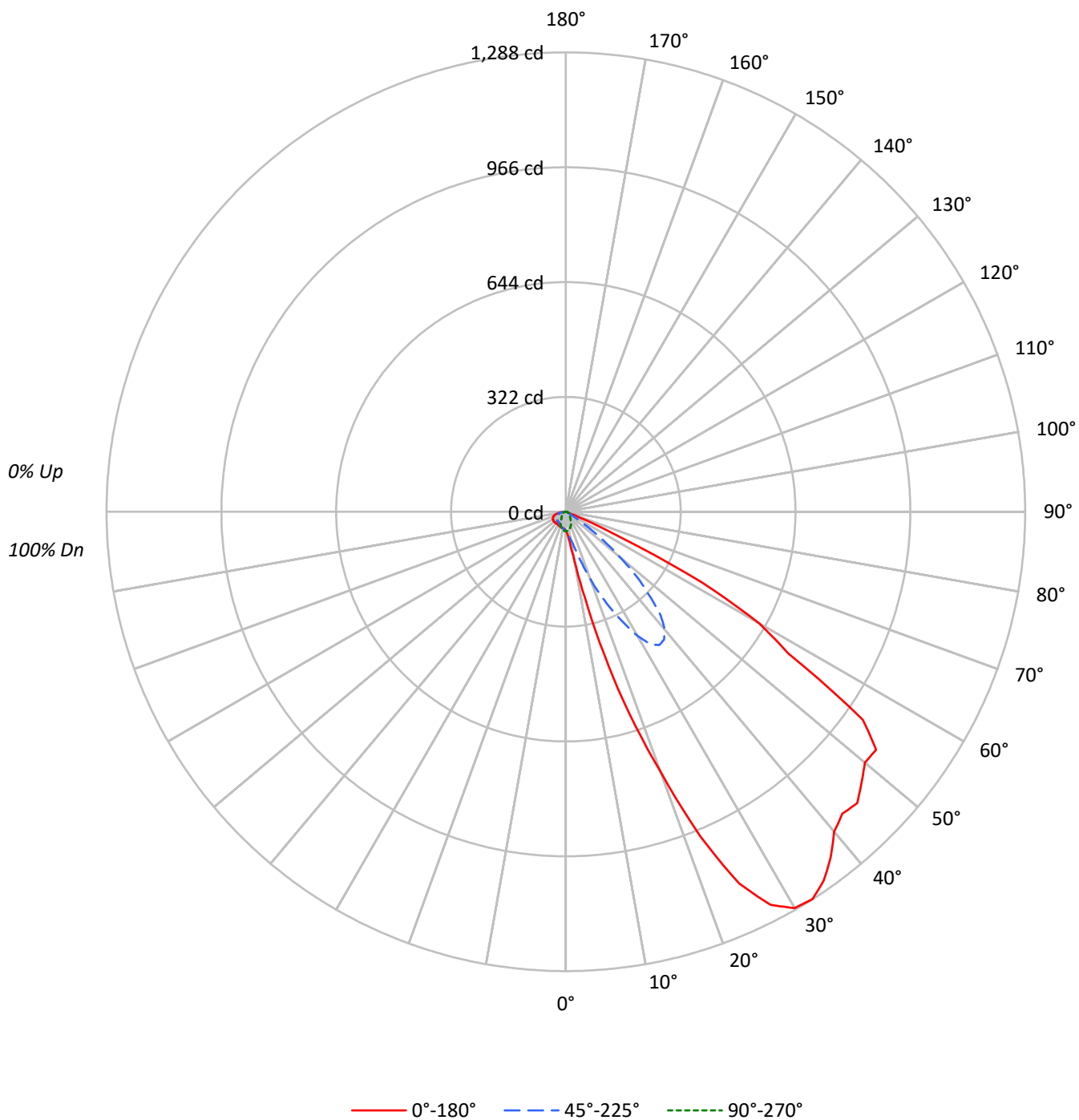
Lumens per Lamp: N/A
Luminaire Lumens: 828.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	95	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	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9197	9197	9197	9197	9197
5°	11756	10753	9232	8592	8350
10°	23924	13693	8954	8184	8184
15°	73441	21004	8344	7952	8220
20°	142002	36747	7514	7771	8174
25°	218550	57141	6537	7506	8209
30°	255184	79864	5389	7418	8432
35°	265182	95977	4457	7380	8767
40°	263153	96875	4114	7734	9532
45°	281360	80180	3921	8378	10327
50°	293250	52916	3912	9029	11575
55°	305335	23060	3963	9879	12731
60°	215692	5304	4030	10850	14363
65°	70378	1793	3871	11614	16097
70°	2216	1863	4028	12538	18430
75°	1930	1930	3394	13175	20428
80°	1488	2182	3670	13092	21720
85°	1383	2964	4347	13042	21736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 310235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.7
10°-20°	35.1	4.2
20°-30°	117.8	14.2
30°-40°	193.5	23.4
40°-50°	215.9	26.1
50°-60°	181.7	21.9
60°-70°	61.6	7.4
70°-80°	12.1	1.5
80°-90°	4.5	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°	158.7	19.2
0°-40°	352.2	42.5
0°-60°	749.8	90.6
0°-90°	828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	68	62	53	50	48	8
15°	412	118	47	45	46	131
25°	1150	301	34	40	43	517
35°	1261	456	21	35	42	783
45°	1155	329	16	34	42	882
55°	1017	77	13	33	42	828
65°	173	4	10	28	40	234
75°	3	3	5	20	31	3
85°	1	2	2	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	58.5	58.5	58.5	58.5	58.5	58.5	57.8	55.6	54.1	51.9	51.2
5°	68.0	68.0	68.0	67.3	67.3	65.8	62.2	57.1	53.4	50.5	49.7
7.5°	87.8	87.1	85.6	84.9	82.7	81.9	68.8	58.5	52.7	49.0	48.3
10°	136.8	135.3	133.1	125.1	117.8	112.7	78.3	59.3	51.2	47.6	46.8
12.5°	246.5	243.6	232.6	215.8	195.3	185.1	93.6	60.0	49.0	46.1	46.1
15°	411.9	408.2	387.7	364.3	327.0	306.5	117.8	59.3	46.8	43.9	44.6
17.5°	594.8	584.5	563.3	532.6	482.1	458.0	153.6	57.8	43.9	42.4	43.9
20°	774.8	771.8	736.7	695.0	632.8	600.6	200.5	55.6	41.0	40.2	42.4
22.5°	985.4	973.0	935.7	891.1	805.5	763.0	250.9	52.7	38.0	38.0	41.0
25°	1150.1	1135.4	1106.2	1054.2	973.0	927.7	300.7	49.0	34.4	35.8	39.5
27.5°	1242.2	1225.4	1203.5	1158.8	1095.9	1055.7	350.4	44.6	30.7	33.7	38.0
30°	1283.2	1278.8	1262.7	1229.8	1172.0	1136.2	401.6	39.5	27.1	31.5	37.3
32.5°	1287.6	1289.8	1283.2	1262.0	1218.1	1187.4	439.7	35.1	24.1	30.0	35.8
35°	1261.3	1269.3	1273.7	1264.9	1236.4	1211.5	456.5	30.0	21.2	28.5	35.1
37.5°	1220.3	1234.9	1249.6	1251.7	1234.2	1218.1	452.1	25.6	19.8	27.8	35.1
40°	1170.5	1183.7	1213.7	1232.7	1226.9	1215.2	430.9	21.2	18.3	26.3	34.4
42.5°	1147.9	1150.8	1183.0	1215.2	1213.7	1204.2	393.6	16.8	16.8	26.3	34.4
45°	1155.2	1142.0	1163.2	1200.5	1198.3	1185.9	329.2	13.2	16.1	25.6	34.4
47.5°	1124.5	1106.2	1142.0	1185.9	1177.9	1159.6	272.2	9.5	15.4	24.9	33.7
50°	1094.5	1091.5	1119.3	1141.3	1130.3	1120.1	197.5	7.3	14.6	24.1	33.7
52.5°	1096.6	1091.5	1094.5	1093.7	1071.8	1060.8	135.3	5.9	13.9	23.4	33.7
55°	1016.9	1000.8	985.4	989.8	991.3	984.0	76.8	5.1	13.2	23.4	32.9
57.5°	738.9	734.5	751.3	798.9	836.2	840.6	37.3	5.1	12.4	22.7	32.2
60°	626.2	623.3	624.0	637.9	657.7	645.3	15.4	5.1	11.7	21.9	31.5
62.5°	431.6	460.2	471.9	504.1	490.9	473.3	5.9	5.9	11.0	20.5	30.7
65°	172.7	171.9	188.0	203.4	199.0	185.8	4.4	5.1	9.5	19.0	28.5
67.5°	40.2	36.6	31.5	27.1	22.7	18.3	4.4	5.1	8.8	17.6	27.1
70°	4.4	4.4	4.4	4.4	4.4	3.7	3.7	5.1	8.0	16.1	24.9
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.4	6.6	13.9	22.7
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.7	5.1	11.7	19.8
77.5°	2.2	2.2	2.2	2.9	2.2	2.9	2.9	3.7	4.4	9.5	16.8
80°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.9	3.7	8.0	13.2
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.9	5.9	9.5
85°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2	2.2	4.4	6.6
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2	2.2	2.9
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):

	157.5°	180°
0°	53.4	53.4
2.5°	50.5	50.5
5°	49.0	48.3
7.5°	47.6	47.6
10°	46.8	46.8
12.5°	46.1	46.8
15°	46.1	46.1
17.5°	44.6	45.4
20°	43.9	44.6
22.5°	43.2	43.9
25°	42.4	43.2
27.5°	41.7	42.4
30°	41.0	42.4
32.5°	40.2	41.7
35°	40.2	41.7
37.5°	40.2	42.4
40°	40.2	42.4
42.5°	40.2	42.4
45°	40.2	42.4
47.5°	40.2	42.4
50°	40.2	43.2
52.5°	40.2	43.2
55°	40.2	42.4
57.5°	39.5	42.4
60°	39.5	41.7
62.5°	38.8	41.0
65°	37.3	39.5
67.5°	35.8	38.8
70°	33.7	36.6
72.5°	31.5	33.7
75°	28.5	30.7
77.5°	24.9	26.3
80°	19.8	21.9
82.5°	15.4	16.8
85°	10.2	11.0
87.5°	4.4	5.1
90°	0.0	0.0

(END OF REPORT)