

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: P1316155

Luminaire Tested: P3SQAS09R559827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316155
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: P3SQAS09R559827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

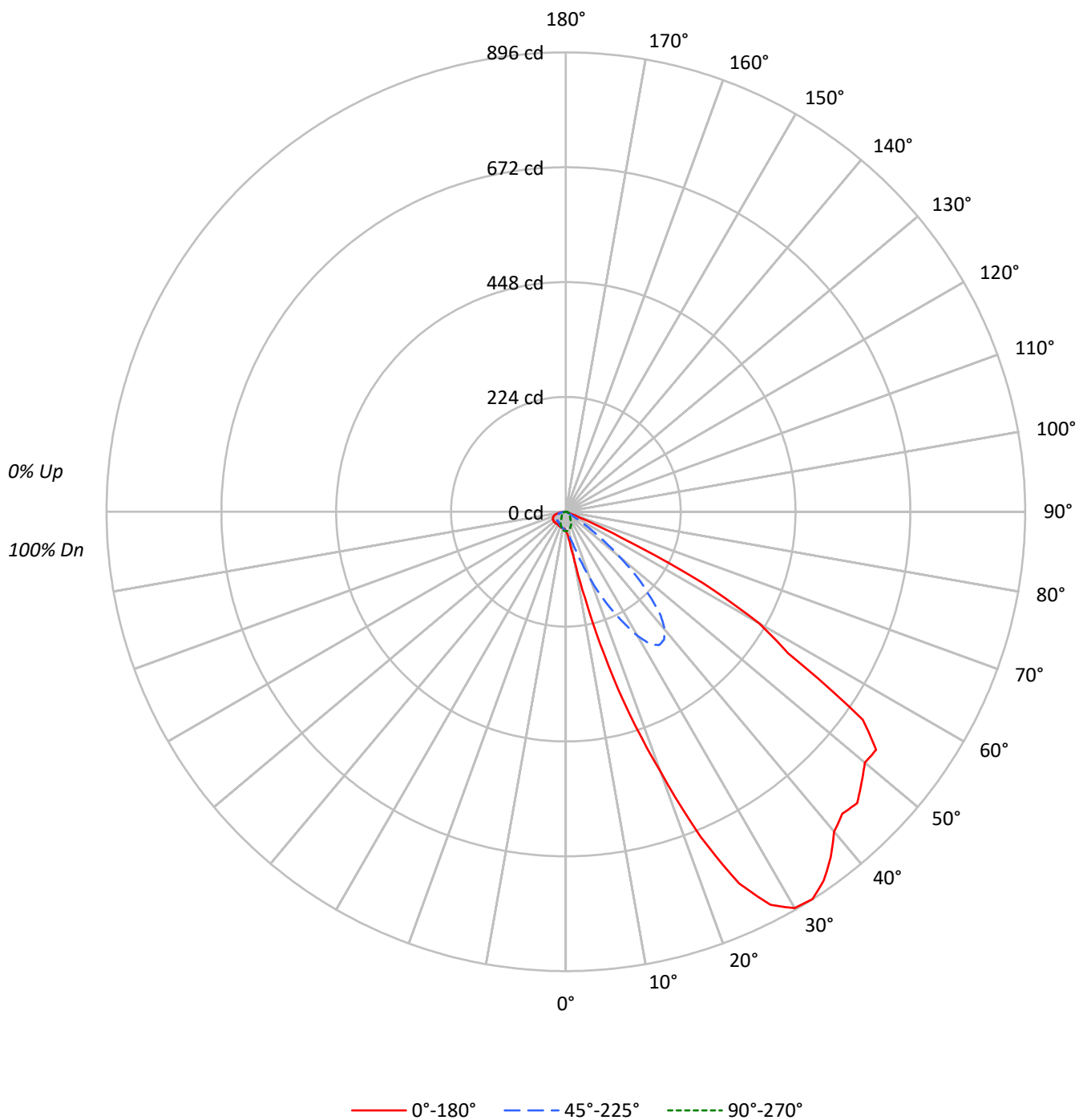
Lumens per Lamp: N/A
Luminaire Lumens: 576.0 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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		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°	6407	6407	6407	6407	6407
5°	8177	7486	6431	5982	5809
10°	16649	9531	6226	5701	5701
15°	51082	14603	5813	5527	5723
20°	98785	25549	5223	5407	5682
25°	152021	39754	4542	5226	5701
30°	177527	55563	3739	5171	5867
35°	184469	66774	3112	5130	6097
40°	183071	67401	2855	5373	6632
45°	195724	55775	2728	5821	7185
50°	204003	36814	2733	6270	8038
55°	212405	16034	2762	6876	8858
60°	150040	3686	2790	7543	9989
65°	48942	1263	2690	8069	11207
70°	1561	1259	2820	8711	12790
75°	1331	1331	2396	9116	14240
80°	992	1488	2479	9124	15174
85°	988	1976	2964	9090	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 215829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.7
10°-20°	24.5	4.2
20°-30°	82.0	14.2
30°-40°	134.6	23.4
40°-50°	150.2	26.1
50°-60°	126.4	21.9
60°-70°	42.9	7.4
70°-80°	8.4	1.5
80°-90°	3.1	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°	110.4	19.2
0°-40°	245.0	42.5
0°-60°	521.6	90.6
0°-90°	576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	576.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	47	43	37	35	34	6
15°	286	82	33	31	32	91
25°	800	209	24	28	30	360
35°	877	318	15	24	29	545
45°	804	229	11	24	30	614
55°	707	53	9	23	30	576
65°	120	3	7	20	28	163
75°	2	2	4	14	21	2
85°	0	1	2	5	8	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°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2.5°	40.7	40.7	40.7	40.7	40.7	40.7	40.2	38.7	37.7	36.1	35.6
5°	47.3	47.3	47.3	46.8	46.8	45.8	43.3	39.7	37.2	35.1	34.6
7.5°	61.1	60.6	59.5	59.0	57.5	57.0	47.8	40.7	36.6	34.1	33.6
10°	95.2	94.2	92.6	87.0	81.9	78.4	54.5	41.2	35.6	33.1	32.6
12.5°	171.5	169.5	161.8	150.1	135.9	128.8	65.1	41.7	34.1	32.1	32.1
15°	286.5	284.0	269.7	253.4	227.5	213.2	81.9	41.2	32.6	30.5	31.0
17.5°	413.8	406.6	391.9	370.5	335.4	318.6	106.9	40.2	30.5	29.5	30.5
20°	539.0	536.9	512.5	483.5	440.2	417.8	139.4	38.7	28.5	28.0	29.5
22.5°	685.5	676.9	650.9	619.9	560.3	530.8	174.6	36.6	26.5	26.5	28.5
25°	800.0	789.9	769.5	733.4	676.9	645.3	209.2	34.1	23.9	24.9	27.5
27.5°	864.2	852.5	837.2	806.1	762.4	734.4	243.8	31.0	21.4	23.4	26.5
30°	892.7	889.6	878.4	855.5	815.3	790.4	279.4	27.5	18.8	21.9	26.0
32.5°	895.7	897.2	892.7	877.9	847.4	826.0	305.9	24.4	16.8	20.9	24.9
35°	877.4	883.0	886.0	879.9	860.1	842.8	317.6	20.9	14.8	19.8	24.4
37.5°	848.9	859.1	869.3	870.8	858.6	847.4	314.5	17.8	13.7	19.3	24.4
40°	814.3	823.4	844.3	857.5	853.5	845.3	299.8	14.8	12.7	18.3	23.9
42.5°	798.5	800.5	822.9	845.3	844.3	837.7	273.8	11.7	11.7	18.3	23.9
45°	803.6	794.4	809.2	835.2	833.6	825.0	229.0	9.2	11.2	17.8	23.9
47.5°	782.2	769.5	794.4	825.0	819.4	806.7	189.3	6.6	10.7	17.3	23.4
50°	761.4	759.3	778.7	793.9	786.3	779.2	137.4	5.1	10.2	16.8	23.4
52.5°	762.9	759.3	761.4	760.9	745.6	737.9	94.2	4.1	9.7	16.3	23.4
55°	707.4	696.2	685.5	688.6	689.6	684.5	53.4	3.6	9.2	16.3	22.9
57.5°	514.0	511.0	522.7	555.8	581.7	584.8	26.0	3.6	8.7	15.8	22.4
60°	435.6	433.6	434.1	443.8	457.5	448.9	10.7	3.6	8.1	15.3	21.9
62.5°	300.3	320.1	328.3	350.7	341.5	329.3	4.1	4.1	7.6	14.3	21.4
65°	120.1	119.6	130.8	141.5	138.4	129.3	3.1	3.6	6.6	13.2	19.8
67.5°	28.0	25.4	21.9	18.8	15.8	12.7	3.1	3.6	6.1	12.2	18.8
70°	3.1	3.1	3.1	3.1	3.1	2.5	2.5	3.6	5.6	11.2	17.3
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.1	4.6	9.7	15.8
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.6	8.1	13.7
77.5°	1.5	1.5	1.5	2.0	1.5	2.0	2.0	2.5	3.1	6.6	11.7
80°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.5	5.6	9.2
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	4.1	6.6
85°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	3.1	4.6
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	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):

	157.5°	180°
0°	37.2	37.2
2.5°	35.1	35.1
5°	34.1	33.6
7.5°	33.1	33.1
10°	32.6	32.6
12.5°	32.1	32.6
15°	32.1	32.1
17.5°	31.0	31.6
20°	30.5	31.0
22.5°	30.0	30.5
25°	29.5	30.0
27.5°	29.0	29.5
30°	28.5	29.5
32.5°	28.0	29.0
35°	28.0	29.0
37.5°	28.0	29.5
40°	28.0	29.5
42.5°	28.0	29.5
45°	28.0	29.5
47.5°	28.0	29.5
50°	28.0	30.0
52.5°	28.0	30.0
55°	28.0	29.5
57.5°	27.5	29.5
60°	27.5	29.0
62.5°	27.0	28.5
65°	26.0	27.5
67.5°	24.9	27.0
70°	23.4	25.4
72.5°	21.9	23.4
75°	19.8	21.4
77.5°	17.3	18.3
80°	13.7	15.3
82.5°	10.7	11.7
85°	7.1	7.6
87.5°	3.1	3.6
90°	0.0	0.0

(END OF REPORT)