

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: P1307743

Luminaire Tested: P3SQAS05R559030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307743
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: P3SQAS05R559030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

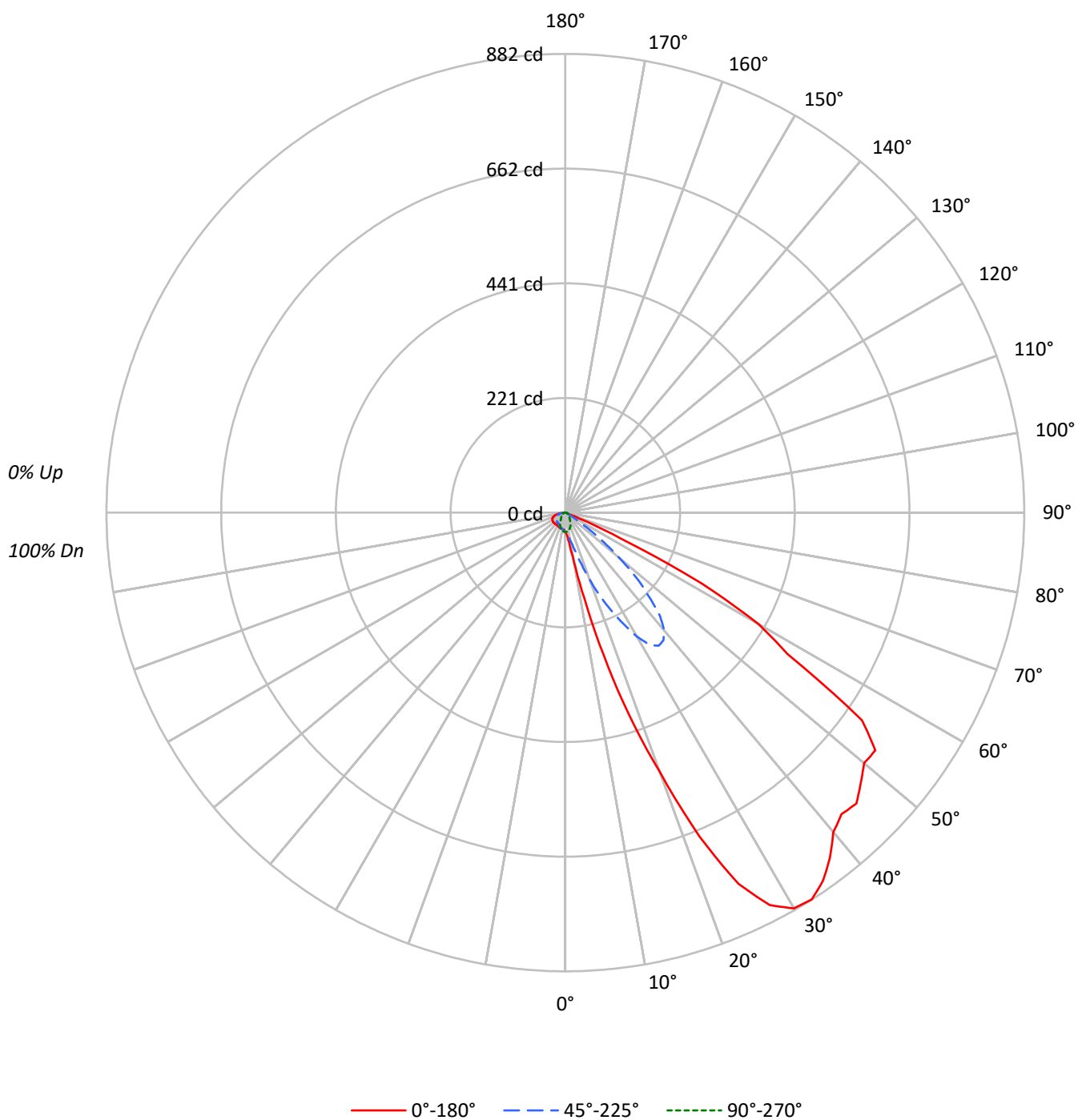
Lumens per Lamp: N/A
Luminaire Lumens: 567.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	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°	6303	6303	6303	6303	6303
5°	8056	7365	6327	5895	5722
10°	16386	9374	6138	5614	5614
15°	50298	14389	5723	5456	5634
20°	97228	25164	5150	5333	5608
25°	149646	39126	4466	5150	5625
30°	174743	54688	3679	5071	5787
35°	181589	65723	3049	5046	6013
40°	180216	66345	2810	5283	6542
45°	192656	54898	2679	5724	7088
50°	200814	36251	2679	6162	7931
55°	209102	15794	2702	6756	8738
60°	147698	3617	2756	7406	9851
65°	48168	1223	2649	7947	11044
70°	1511	1259	2769	8560	12589
75°	1331	1331	2329	8983	13974
80°	992	1488	2479	8926	14877
85°	988	1976	2964	8892	14820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 212463 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.7
10°-20°	24.1	4.2
20°-30°	80.7	14.2
30°-40°	132.5	23.4
40°-50°	147.8	26.1
50°-60°	124.4	21.9
60°-70°	42.2	7.4
70°-80°	8.2	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°	108.7	19.2
0°-40°	241.2	42.5
0°-60°	513.4	90.6
0°-90°	567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	47	43	37	34	33	6
15°	282	81	32	31	32	89
25°	788	206	24	27	30	354
35°	864	313	14	24	29	536
45°	791	225	11	24	29	604
55°	696	53	9	22	29	567
65°	118	3	6	20	27	160
75°	2	2	4	14	21	2
85°	0	1	2	4	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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	40.1	40.1	40.1	40.1	40.1	40.1	39.6	38.1	37.1	35.6	35.1
5°	46.6	46.6	46.6	46.1	46.1	45.1	42.6	39.1	36.6	34.6	34.1
7.5°	60.1	59.6	58.6	58.1	56.6	56.1	47.1	40.1	36.1	33.6	33.1
10°	93.7	92.7	91.2	85.7	80.7	77.2	53.6	40.6	35.1	32.6	32.1
12.5°	168.8	166.8	159.3	147.8	133.8	126.7	64.1	41.1	33.6	31.6	31.6
15°	282.1	279.5	265.5	249.5	223.9	209.9	80.7	40.6	32.1	30.1	30.6
17.5°	407.3	400.3	385.8	364.7	330.1	313.6	105.2	39.6	30.1	29.1	30.1
20°	530.5	528.5	504.5	475.9	433.3	411.3	137.3	38.1	28.1	27.6	29.1
22.5°	674.8	666.3	640.8	610.2	551.6	522.5	171.8	36.1	26.1	26.1	28.1
25°	787.5	777.5	757.5	721.9	666.3	635.2	205.9	33.6	23.5	24.5	27.1
27.5°	850.7	839.1	824.1	793.5	750.5	722.9	240.0	30.6	21.0	23.0	26.1
30°	878.7	875.7	864.7	842.1	802.6	778.0	275.0	27.1	18.5	21.5	25.5
32.5°	881.7	883.2	878.7	864.2	834.1	813.1	301.1	24.0	16.5	20.5	24.5
35°	863.7	869.2	872.2	866.2	846.7	829.6	312.6	20.5	14.5	19.5	24.0
37.5°	835.6	845.7	855.7	857.2	845.2	834.1	309.6	17.5	13.5	19.0	24.0
40°	801.6	810.6	831.1	844.1	840.1	832.1	295.1	14.5	12.5	18.0	23.5
42.5°	786.0	788.0	810.1	832.1	831.1	824.6	269.5	11.5	11.5	18.0	23.5
45°	791.0	782.0	796.6	822.1	820.6	812.1	225.4	9.0	11.0	17.5	23.5
47.5°	770.0	757.5	782.0	812.1	806.6	794.1	186.4	6.5	10.5	17.0	23.0
50°	749.5	747.5	766.5	781.5	774.0	767.0	135.3	5.0	10.0	16.5	23.0
52.5°	751.0	747.5	749.5	749.0	733.9	726.4	92.7	4.0	9.5	16.0	23.0
55°	696.4	685.3	674.8	677.8	678.8	673.8	52.6	3.5	9.0	16.0	22.5
57.5°	506.0	503.0	514.5	547.1	572.6	575.6	25.5	3.5	8.5	15.5	22.0
60°	428.8	426.8	427.3	436.9	450.4	441.9	10.5	3.5	8.0	15.0	21.5
62.5°	295.6	315.1	323.1	345.2	336.2	324.1	4.0	4.0	7.5	14.0	21.0
65°	118.2	117.7	128.8	139.3	136.3	127.2	3.0	3.5	6.5	13.0	19.5
67.5°	27.6	25.0	21.5	18.5	15.5	12.5	3.0	3.5	6.0	12.0	18.5
70°	3.0	3.0	3.0	3.0	3.0	2.5	2.5	3.5	5.5	11.0	17.0
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	4.5	9.5	15.5
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.5	8.0	13.5
77.5°	1.5	1.5	1.5	2.0	1.5	2.0	2.0	2.5	3.0	6.5	11.5
80°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.5	5.5	9.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	4.0	6.5
85°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	3.0	4.5
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°	36.6	36.6
2.5°	34.6	34.6
5°	33.6	33.1
7.5°	32.6	32.6
10°	32.1	32.1
12.5°	31.6	32.1
15°	31.6	31.6
17.5°	30.6	31.1
20°	30.1	30.6
22.5°	29.6	30.1
25°	29.1	29.6
27.5°	28.6	29.1
30°	28.1	29.1
32.5°	27.6	28.6
35°	27.6	28.6
37.5°	27.6	29.1
40°	27.6	29.1
42.5°	27.6	29.1
45°	27.6	29.1
47.5°	27.6	29.1
50°	27.6	29.6
52.5°	27.6	29.6
55°	27.6	29.1
57.5°	27.1	29.1
60°	27.1	28.6
62.5°	26.6	28.1
65°	25.5	27.1
67.5°	24.5	26.6
70°	23.0	25.0
72.5°	21.5	23.0
75°	19.5	21.0
77.5°	17.0	18.0
80°	13.5	15.0
82.5°	10.5	11.5
85°	7.0	7.5
87.5°	3.0	3.5
90°	0.0	0.0

(END OF REPORT)