

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: P1305651

Luminaire Tested: P3SQAS05R559024DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305651
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: P3SQAS05R559024DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

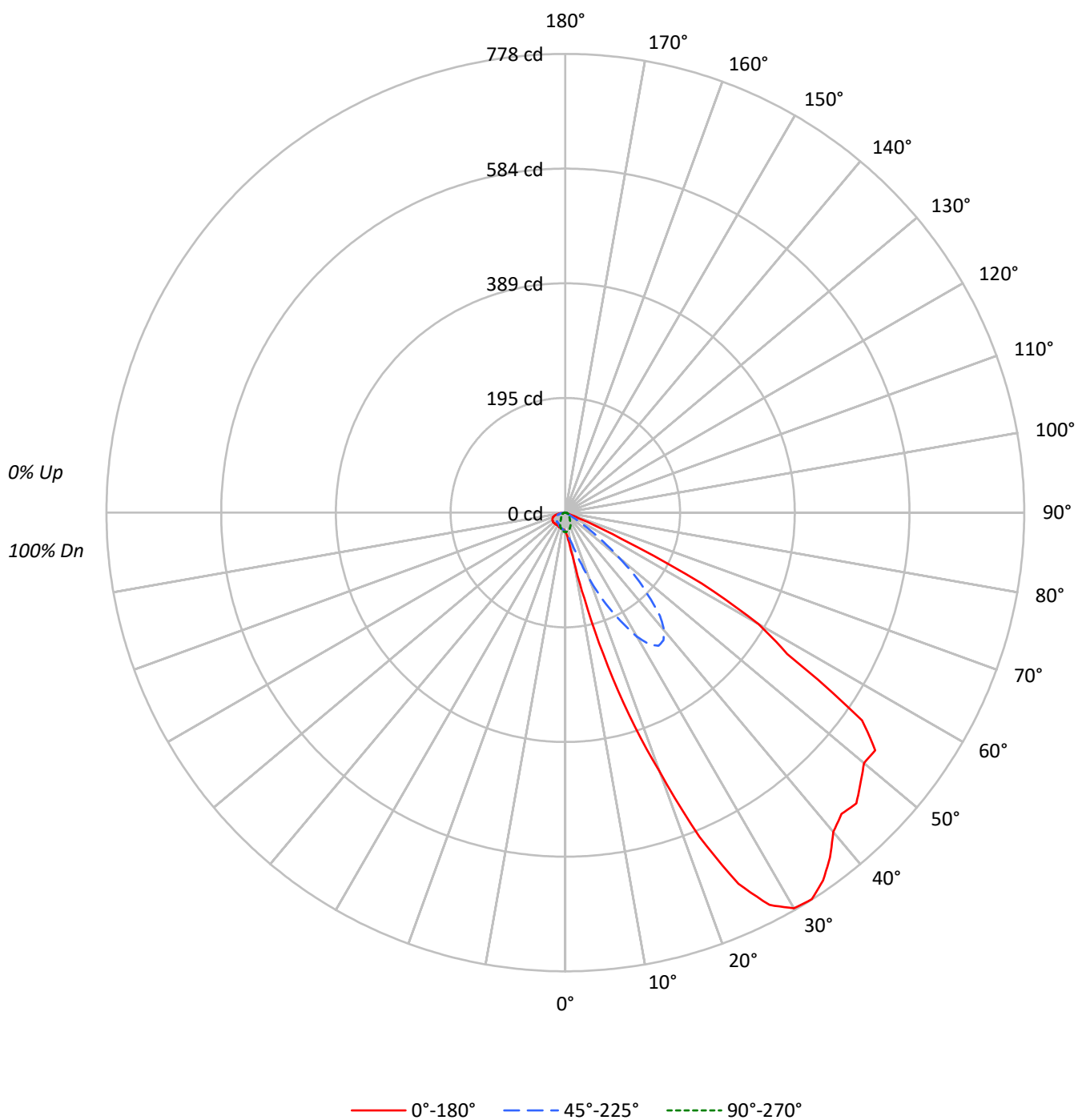
Lumens per Lamp: N/A
Luminaire Lumens: 500.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5546	5546	5546	5546	5546
5°	7105	6500	5567	5186	5048
10°	14445	8272	5404	4949	4949
15°	44343	12677	5046	4796	4957
20°	85736	22176	4527	4692	4930
25°	131974	34509	3953	4542	4960
30°	154101	48225	3242	4474	5091
35°	160123	57965	2691	4457	5298
40°	158903	58498	2473	4676	5755
45°	169907	48420	2363	5066	6235
50°	177076	31964	2358	5439	6993
55°	184390	13932	2402	5975	7687
60°	130269	3203	2446	6544	8680
65°	42504	1100	2323	7009	9740
70°	1360	1108	2467	7553	11128
75°	1198	1198	2063	7918	12377
80°	893	1289	2182	7934	13191
85°	790	1778	2569	7904	13042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 187341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.7
10°-20°	21.2	4.2
20°-30°	71.2	14.2
30°-40°	116.9	23.4
40°-50°	130.4	26.1
50°-60°	109.7	21.9
60°-70°	37.2	7.4
70°-80°	7.3	1.5
80°-90°	2.7	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°	95.8	19.2
0°-40°	212.7	42.5
0°-60°	452.8	90.6
0°-90°	500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	41	38	32	30	29	5
15°	249	71	28	27	28	79
25°	694	182	21	24	26	312
35°	762	276	13	21	25	473
45°	698	199	10	21	26	533
55°	614	46	8	20	26	500
65°	104	3	6	17	24	141
75°	2	2	3	12	19	2
85°	0	1	1	4	7	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°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
2.5°	35.3	35.3	35.3	35.3	35.3	35.3	34.9	33.6	32.7	31.4	30.9
5°	41.1	41.1	41.1	40.6	40.6	39.8	37.6	34.5	32.2	30.5	30.0
7.5°	53.0	52.6	51.7	51.2	49.9	49.5	41.5	35.3	31.8	29.6	29.2
10°	82.6	81.7	80.4	75.5	71.1	68.0	47.3	35.8	30.9	28.7	28.3
12.5°	148.9	147.1	140.5	130.3	118.0	111.8	56.5	36.2	29.6	27.8	27.8
15°	248.7	246.5	234.1	220.0	197.5	185.1	71.1	35.8	28.3	26.5	26.9
17.5°	359.2	353.0	340.2	321.6	291.1	276.6	92.8	34.9	26.5	25.6	26.5
20°	467.8	466.1	444.9	419.7	382.1	362.7	121.0	33.6	24.7	24.3	25.6
22.5°	595.1	587.6	565.0	538.1	486.4	460.8	151.5	31.8	23.0	23.0	24.7
25°	694.5	685.6	668.0	636.6	587.6	560.2	181.6	29.6	20.8	21.6	23.9
27.5°	750.1	740.0	726.7	699.8	661.8	637.5	211.6	26.9	18.6	20.3	23.0
30°	774.9	772.2	762.5	742.6	707.7	686.1	242.5	23.9	16.3	19.0	22.5
32.5°	777.5	778.9	774.9	762.1	735.6	717.0	265.5	21.2	14.6	18.1	21.6
35°	761.6	766.5	769.1	763.8	746.6	731.6	275.7	18.1	12.8	17.2	21.2
37.5°	736.9	745.7	754.6	755.9	745.3	735.6	273.0	15.5	11.9	16.8	21.2
40°	706.8	714.8	732.9	744.4	740.9	733.8	260.2	12.8	11.0	15.9	20.8
42.5°	693.2	694.9	714.4	733.8	732.9	727.2	237.7	10.2	10.2	15.9	20.8
45°	697.6	689.6	702.4	725.0	723.6	716.1	198.8	8.0	9.7	15.5	20.8
47.5°	679.0	668.0	689.6	716.1	711.3	700.2	164.3	5.7	9.3	15.0	20.3
50°	660.9	659.1	675.9	689.2	682.5	676.4	119.3	4.4	8.8	14.6	20.3
52.5°	662.2	659.1	660.9	660.5	647.2	640.6	81.7	3.5	8.4	14.1	20.3
55°	614.1	604.4	595.1	597.7	598.6	594.2	46.4	3.1	8.0	14.1	19.9
57.5°	446.2	443.5	453.7	482.4	505.0	507.6	22.5	3.1	7.5	13.7	19.4
60°	378.2	376.4	376.8	385.2	397.2	389.6	9.3	3.1	7.1	13.3	19.0
62.5°	260.7	277.9	284.9	304.4	296.4	285.8	3.5	3.5	6.6	12.4	18.6
65°	104.3	103.8	113.5	122.8	120.2	112.2	2.7	3.1	5.7	11.5	17.2
67.5°	24.3	22.1	19.0	16.3	13.7	11.0	2.7	3.1	5.3	10.6	16.3
70°	2.7	2.7	2.7	2.7	2.7	2.2	2.2	3.1	4.9	9.7	15.0
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	4.0	8.4	13.7
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	3.1	7.1	11.9
77.5°	1.3	1.3	1.3	1.8	1.3	1.8	1.8	2.2	2.7	5.7	10.2
80°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.8	2.2	4.9	8.0
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	3.5	5.7
85°	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	2.7	4.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	1.3	1.3	1.8
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°	32.2	32.2
2.5°	30.5	30.5
5°	29.6	29.2
7.5°	28.7	28.7
10°	28.3	28.3
12.5°	27.8	28.3
15°	27.8	27.8
17.5°	26.9	27.4
20°	26.5	26.9
22.5°	26.1	26.5
25°	25.6	26.1
27.5°	25.2	25.6
30°	24.7	25.6
32.5°	24.3	25.2
35°	24.3	25.2
37.5°	24.3	25.6
40°	24.3	25.6
42.5°	24.3	25.6
45°	24.3	25.6
47.5°	24.3	25.6
50°	24.3	26.1
52.5°	24.3	26.1
55°	24.3	25.6
57.5°	23.9	25.6
60°	23.9	25.2
62.5°	23.4	24.7
65°	22.5	23.9
67.5°	21.6	23.4
70°	20.3	22.1
72.5°	19.0	20.3
75°	17.2	18.6
77.5°	15.0	15.9
80°	11.9	13.3
82.5°	9.3	10.2
85°	6.2	6.6
87.5°	2.7	3.1
90°	0.0	0.0

(END OF REPORT)