

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: P1309976

Luminaire Tested: P3SQAS05R559040DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R559040DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

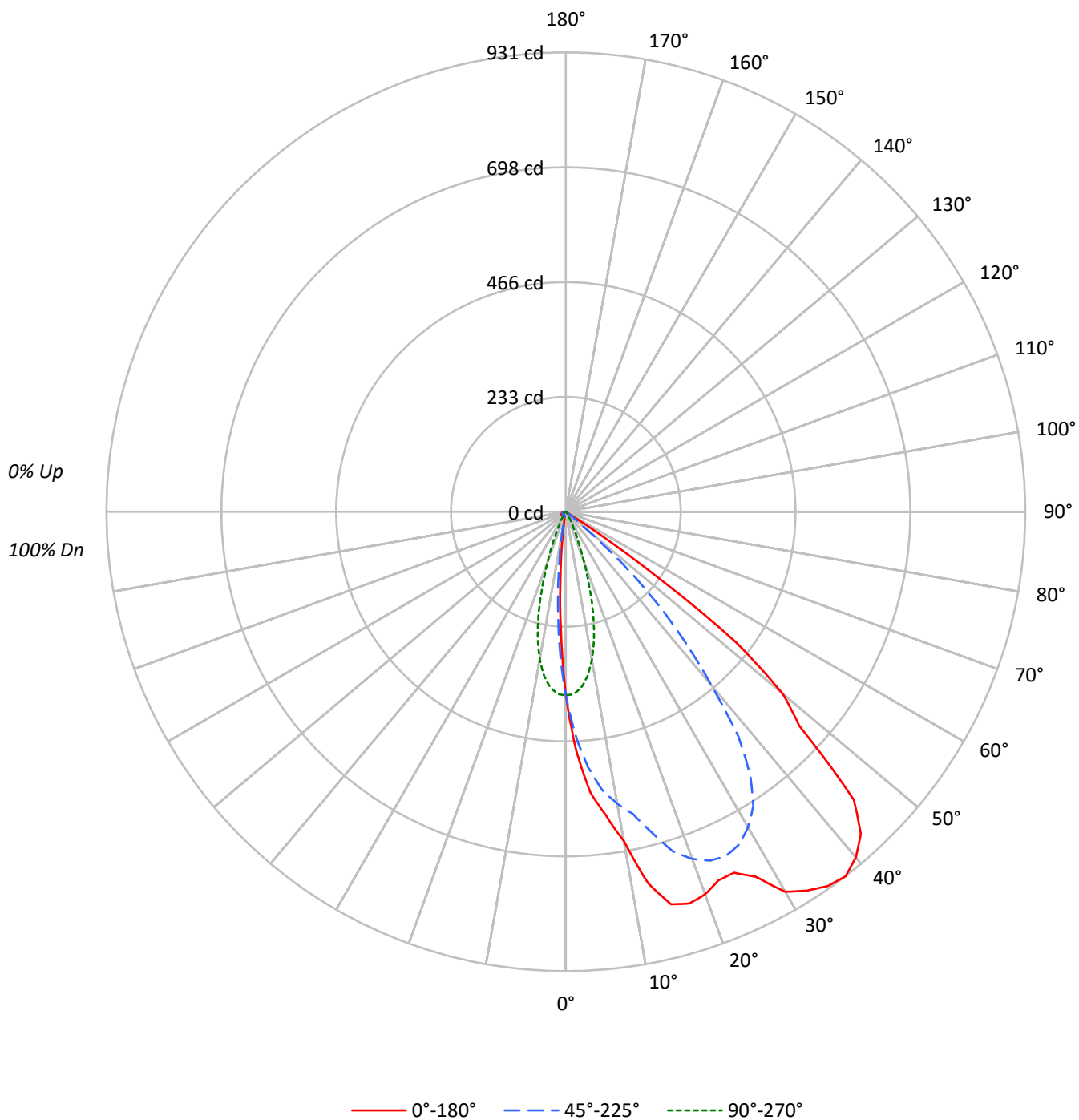
Lumens per Lamp: N/A
Luminaire Lumens: 620.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	63998	63998	63998	63998	63998
5°	98697	89846	61822	31741	20849
10°	118568	105015	53216	8009	3200
15°	146828	119941	38031	2211	1729
20°	151221	137200	19647	1485	1485
25°	153409	146150	7886	1330	1539
30°	176831	146842	3420	1392	1611
35°	194645	136891	1472	1472	1808
40°	205599	103035	854	1686	1933
45°	201083	62960	779	1827	2363
50°	153819	13423	857	2170	2733
55°	56449	480	961	2432	3063
60°	551	551	1102	2790	3513
65°	652	652	1304	2853	3749
70°	554	806	1360	3273	4330
75°	333	732	1464	3593	4991
80°	496	1091	1587	3769	5356
85°	0	988	2174	4347	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 201083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	5.3
10°-20°	93.7	15.1
20°-30°	143.7	23.2
30°-40°	167.5	27.0
40°-50°	133.8	21.6
50°-60°	39.6	6.4
60°-70°	4.2	0.7
70°-80°	3.3	0.5
80°-90°	1.4	0.2
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°	270.1	43.6
0°-40°	437.6	70.6
0°-60°	611.0	98.6
0°-90°	620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	372	372	372	372	372	
5°	571	520	358	184	121	57
15°	824	673	213	12	10	227
25°	807	769	42	7	8	383
35°	926	651	7	7	9	577
45°	826	258	3	8	10	595
55°	188	2	3	8	10	199
65°	2	2	3	7	9	1
75°	0	1	2	5	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6
2.5°	484.7	484.7	483.1	483.6	482.6	476.6	475.5	468.0	461.5	454.5	448.6
5°	570.9	572.0	570.3	567.1	562.8	558.5	549.3	542.3	533.2	519.7	507.3
7.5°	619.9	618.8	616.1	615.0	612.3	607.5	601.0	593.5	582.7	569.3	554.7
10°	678.0	668.9	666.2	661.9	653.3	643.6	632.3	622.0	612.9	600.5	584.9
12.5°	771.8	770.1	759.4	751.3	739.4	717.9	698.5	675.9	649.0	627.4	607.0
15°	823.5	824.5	819.7	813.2	805.7	787.9	768.5	742.1	710.4	672.7	639.3
17.5°	832.6	834.2	831.5	828.8	826.7	816.5	804.6	785.8	756.7	721.7	672.1
20°	825.1	828.3	828.8	832.1	836.4	832.1	822.4	809.5	785.2	748.6	701.2
22.5°	808.4	814.3	818.6	829.9	841.2	841.2	835.3	825.1	801.4	765.3	716.8
25°	807.3	808.4	810.0	828.3	846.1	849.8	844.5	833.7	807.8	769.1	716.3
27.5°	834.2	827.2	816.5	834.8	855.8	859.0	851.5	836.9	806.2	760.4	698.0
30°	889.2	873.5	850.9	864.4	878.9	875.2	860.1	836.9	795.5	738.4	663.5
32.5°	910.2	901.6	893.5	908.0	910.7	895.1	868.2	833.7	778.2	707.1	607.0
35°	925.8	926.3	923.1	925.8	912.9	890.8	861.2	815.9	745.9	651.1	532.1
37.5°	931.2	932.2	925.2	915.6	896.2	870.9	835.3	783.6	692.1	574.1	419.0
40°	914.5	911.2	899.9	886.5	865.5	839.6	800.8	723.8	611.8	458.3	326.9
42.5°	884.9	879.5	866.0	849.8	827.8	794.9	733.0	639.8	497.1	357.6	228.9
45°	825.6	821.8	805.1	793.3	766.9	724.4	644.7	527.3	384.5	258.5	132.5
47.5°	641.4	642.0	654.9	660.8	651.7	617.7	524.0	400.7	280.6	154.0	44.7
50°	574.1	571.4	558.5	540.7	511.1	460.5	384.5	283.3	165.9	50.1	6.5
52.5°	435.7	435.7	429.2	420.1	388.8	339.8	260.1	156.7	58.2	8.6	1.6
55°	188.0	178.3	183.6	193.9	185.8	161.6	121.7	46.9	10.2	1.6	1.6
57.5°	2.7	6.5	9.7	15.6	21.0	25.3	13.5	4.8	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.1	1.1	1.1	1.6	1.1	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6
2.5°	440.0	430.8	415.8	370.0	322.6	279.0	247.7	235.9
5°	493.3	476.6	451.3	357.6	263.4	183.6	138.4	120.6
7.5°	535.3	513.8	477.2	336.1	193.3	98.0	58.7	46.3
10°	563.3	539.6	491.7	304.3	128.2	45.8	22.1	18.3
12.5°	583.8	554.2	497.1	263.4	75.4	21.0	11.8	10.8
15°	598.9	560.6	490.6	213.3	41.5	12.4	9.7	9.7
17.5°	619.9	563.9	475.0	157.3	23.7	9.2	9.2	9.2
20°	636.0	563.9	445.4	107.2	14.5	8.1	8.1	8.1
22.5°	644.1	555.3	409.3	67.9	10.2	7.5	8.1	8.1
25°	636.0	534.3	363.0	41.5	8.1	7.0	7.5	8.1
27.5°	606.4	492.2	301.1	26.4	6.5	7.0	7.5	8.1
30°	556.9	431.4	231.0	17.2	5.9	7.0	7.5	8.1
32.5°	486.9	340.9	149.7	11.3	5.4	7.0	7.5	8.1
35°	380.2	241.3	90.5	7.0	5.4	7.0	8.1	8.6
37.5°	284.9	161.0	49.0	4.3	5.4	7.0	8.1	8.6
40°	197.7	93.7	21.0	3.8	5.4	7.5	8.6	8.6
42.5°	114.7	37.2	5.4	3.2	5.4	7.5	8.6	9.2
45°	42.0	7.5	1.6	3.2	5.9	7.5	8.6	9.7
47.5°	5.9	1.6	1.6	3.2	5.9	7.5	9.2	9.7
50°	1.6	1.6	1.6	3.2	5.9	8.1	9.7	10.2
52.5°	1.6	1.6	1.6	3.2	5.9	8.1	9.7	10.2
55°	1.6	1.6	1.6	3.2	5.9	8.1	9.7	10.2
57.5°	1.6	1.6	1.6	3.2	5.9	8.1	9.7	10.2
60°	1.6	1.6	1.6	3.2	5.4	8.1	9.7	10.2
62.5°	1.6	1.6	1.6	3.2	5.4	7.5	9.2	9.7
65°	1.6	1.6	1.6	3.2	4.8	7.0	9.2	9.2
67.5°	1.6	1.6	1.6	2.7	4.8	7.0	8.6	9.2
70°	1.6	1.6	1.6	2.7	4.3	6.5	8.1	8.6
72.5°	1.6	1.6	1.6	2.2	3.8	5.9	7.5	8.1
75°	1.1	1.6	1.6	2.2	3.8	5.4	7.0	7.5
77.5°	1.1	1.6	1.6	1.6	3.2	4.3	5.9	6.5
80°	1.1	1.1	1.6	1.6	2.7	3.8	4.8	5.4
82.5°	1.1	1.1	1.1	1.6	2.2	2.7	3.8	3.8
85°	1.1	1.1	1.1	1.1	1.6	2.2	2.7	2.7
87.5°	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)