

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: P1342546

Luminaire Tested: P3A09R409830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R409830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

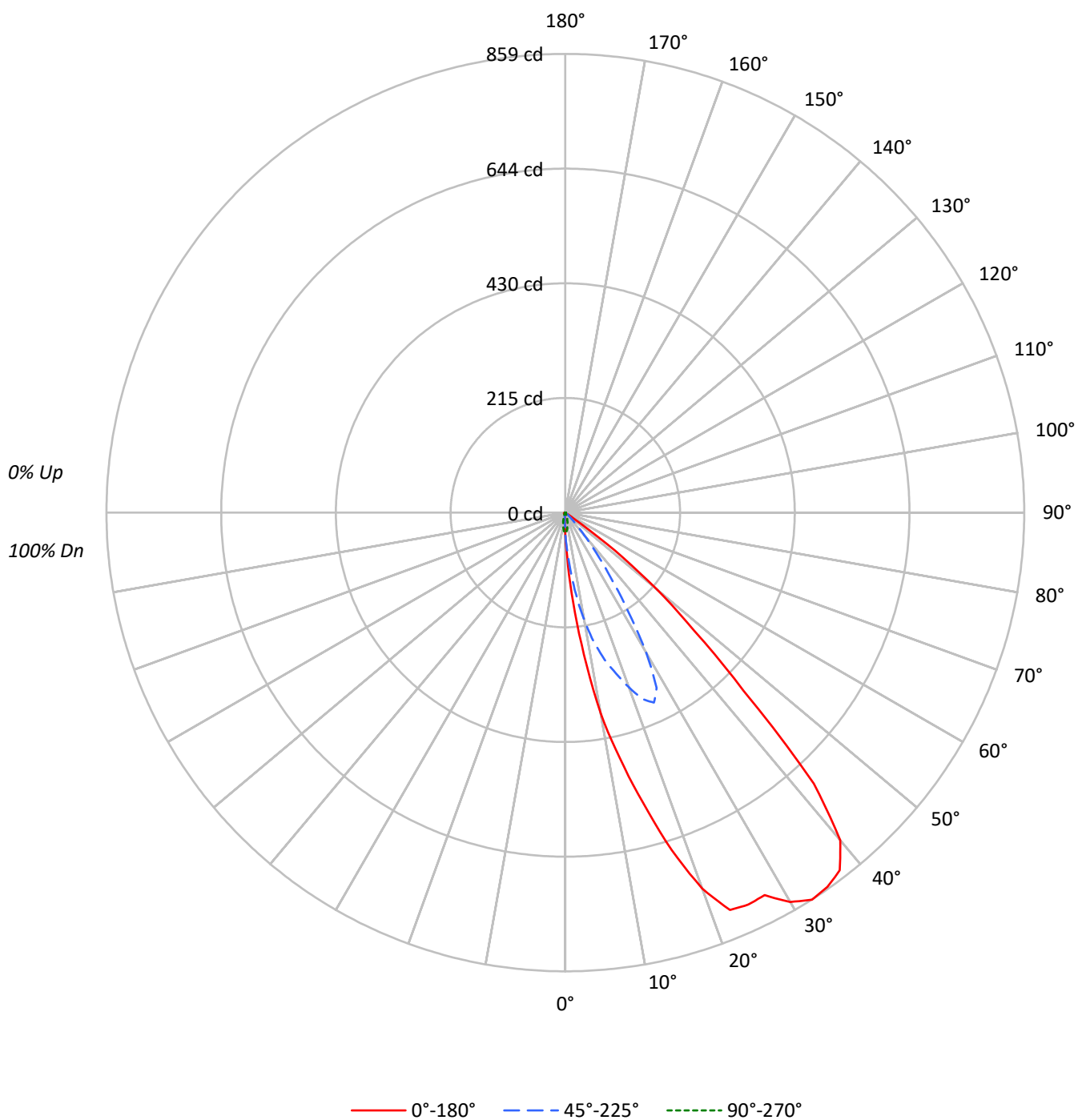
Lumens per Lamp: N/A
Luminaire Lumens: 317.0 lumens
Efficiency: N/A
Efficacy: 28.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8223	8223	8223	8223	8223
5°	37090	23641	7374	2840	2069
10°	85080	45691	5188	1024	779
15°	127674	64836	3224	545	477
20°	174805	81277	1867	303	373
25°	195955	94965	968	266	315
30°	213147	76670	405	203	329
35°	229064	39244	134	294	428
40°	229172	15658	86	315	544
45°	146310	5241	155	496	744
50°	75938	648	273	648	921
55°	6537	115	306	803	1109
60°	219	132	351	921	1272
65°	259	156	571	986	1401
70°	192	192	705	1026	1346
75°	254	254	678	1101	1610
80°	379	379	1010	1010	1389
85°	0	755	2013	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 146310 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	2.3
10°-20°	42.9	13.5
20°-30°	94.0	29.6
30°-40°	107.0	33.8
40°-50°	56.5	17.8
50°-60°	6.7	2.1
60°-70°	1.2	0.4
70°-80°	1.0	0.3
80°-90°	0.4	0.1
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°	144.2	45.5
0°-40°	251.2	79.3
0°-60°	314.4	99.2
0°-90°	317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	317.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	168	107	34	13	9	23
15°	562	286	14	2	2	166
25°	810	392	4	1	1	373
35°	856	147	0	1	2	530
45°	472	17	0	2	2	380
55°	17	0	1	2	3	53
65°	0	0	1	2	3	0
75°	0	0	1	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
2.5°	83.6	83.6	83.3	80.9	80.6	80.4	76.1	75.0	69.9	66.4	50.6
5°	168.5	164.8	164.5	160.2	153.0	143.3	137.2	127.3	117.6	107.4	62.4
7.5°	268.5	271.7	262.8	258.3	242.2	230.7	213.0	197.5	175.8	155.4	72.1
10°	382.1	376.4	367.6	358.7	341.3	320.7	294.4	266.9	235.5	205.2	77.4
12.5°	470.7	463.5	458.1	446.1	428.9	402.4	371.1	334.1	292.6	248.9	77.2
15°	562.4	555.1	543.1	532.4	506.9	477.2	443.1	394.4	343.5	285.6	71.5
17.5°	663.1	653.7	640.3	624.0	599.3	566.4	523.3	463.8	391.7	315.6	61.4
20°	749.1	743.5	730.1	710.8	686.7	654.5	604.7	538.8	450.9	348.3	48.8
22.5°	805.4	800.3	791.2	774.3	756.1	721.8	676.2	603.9	500.5	378.0	37.0
25°	809.9	807.8	805.4	799.7	788.8	764.4	719.9	641.9	531.3	392.5	27.3
27.5°	807.5	806.7	806.2	803.2	796.0	771.9	726.3	647.6	527.3	370.0	20.1
30°	841.8	839.4	838.1	828.4	809.4	772.2	712.7	617.3	468.6	302.8	14.5
32.5°	859.2	858.7	857.4	848.0	821.2	772.7	689.6	544.2	371.6	218.6	9.9
35°	855.7	853.1	848.2	830.8	793.6	732.8	615.2	434.6	268.2	146.6	6.4
37.5°	844.0	837.8	828.4	797.1	747.5	664.4	498.9	319.9	182.5	94.8	3.8
40°	800.6	792.2	777.5	739.2	674.1	547.6	368.9	216.2	119.8	54.7	1.1
42.5°	688.3	677.6	666.9	624.0	549.5	408.3	242.7	133.7	68.3	30.0	0.3
45°	471.8	458.4	443.7	412.6	352.9	247.3	144.4	75.3	35.4	16.9	0.3
47.5°	327.7	321.5	295.8	256.1	196.4	131.0	74.8	37.0	18.8	7.8	0.3
50°	222.6	215.7	185.7	147.4	104.5	62.7	34.3	18.5	8.3	1.9	0.3
52.5°	116.8	108.2	89.2	68.1	42.3	26.3	15.0	8.0	2.4	0.3	0.3
55°	17.1	15.8	12.9	10.4	9.4	7.2	4.3	1.9	0.3	0.3	0.5
57.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	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):

	90°	112.5°	135°	157.5°	180°
0°	37.5	37.5	37.5	37.5	37.5
2.5°	37.0	27.3	21.2	18.2	18.0
5°	33.5	19.6	12.9	9.9	9.4
7.5°	28.4	13.7	7.5	5.4	5.1
10°	23.3	9.4	4.6	3.8	3.5
12.5°	18.5	6.2	3.2	2.9	2.7
15°	14.2	4.0	2.4	2.1	2.1
17.5°	10.7	2.7	1.9	1.9	1.9
20°	8.0	1.9	1.3	1.6	1.6
22.5°	5.6	1.3	1.1	1.3	1.3
25°	4.0	1.1	1.1	1.3	1.3
27.5°	2.7	0.8	0.8	1.1	1.3
30°	1.6	0.5	0.8	1.1	1.3
32.5°	0.8	0.5	0.8	1.3	1.3
35°	0.5	0.8	1.1	1.3	1.6
37.5°	0.3	0.8	1.1	1.6	1.6
40°	0.3	0.8	1.1	1.6	1.9
42.5°	0.5	1.1	1.3	1.9	2.1
45°	0.5	1.1	1.6	2.1	2.4
47.5°	0.5	1.1	1.9	2.4	2.4
50°	0.8	1.3	1.9	2.4	2.7
52.5°	0.8	1.3	1.9	2.7	2.9
55°	0.8	1.3	2.1	2.7	2.9
57.5°	0.8	1.6	2.1	2.7	2.9
60°	0.8	1.3	2.1	2.7	2.9
62.5°	1.1	1.3	1.9	2.7	2.7
65°	1.1	1.3	1.9	2.7	2.7
67.5°	1.1	1.3	1.9	2.4	2.4
70°	1.1	1.3	1.6	2.1	2.1
72.5°	1.1	1.3	1.6	1.9	2.1
75°	0.8	1.1	1.3	1.6	1.9
77.5°	0.8	1.1	1.1	1.6	1.6
80°	0.8	0.8	0.8	1.1	1.1
82.5°	0.8	0.8	0.5	0.8	0.8
85°	0.8	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)