

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: P1335790

Luminaire Tested: P3A02R409827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335790
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: P3A02R409827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

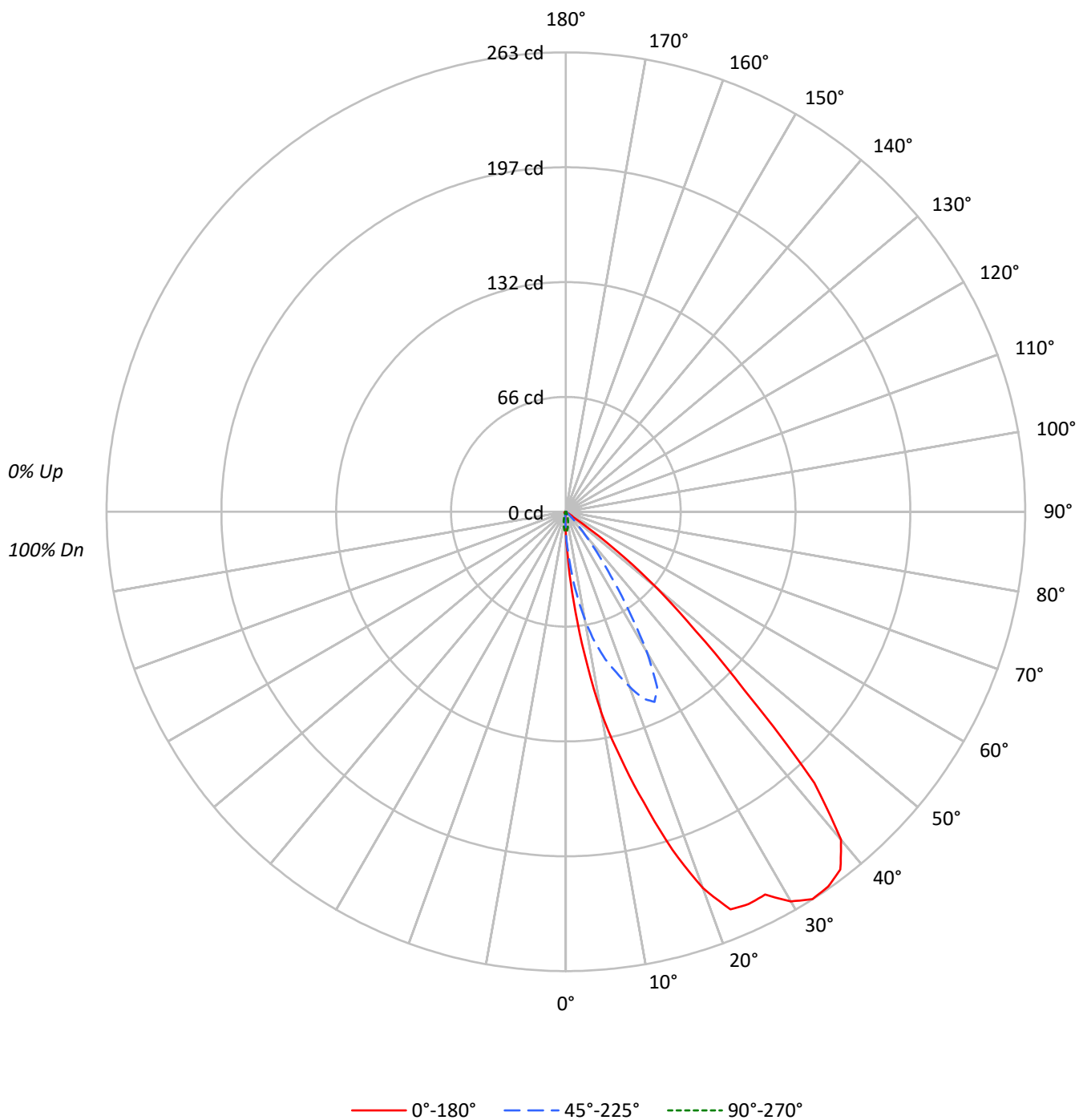
Lumens per Lamp: N/A
Luminaire Lumens: 97.0 lumens
Efficiency: N/A
Efficacy: 26.9 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	51	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°	2522	2522	2522	2522	2522
5°	11358	7242	2245	858	638
10°	26029	13983	1581	312	245
15°	39069	19841	976	159	159
20°	53485	24875	583	93	117
25°	59955	29058	290	73	97
30°	65225	23447	127	51	101
35°	70109	11993	54	80	134
40°	70131	4780	29	86	172
45°	44780	1613	62	155	217
50°	23232	205	68	205	273
55°	1988	38	76	268	344
60°	88	44	88	307	395
65°	104	52	156	311	415
70°	64	64	192	321	449
75°	85	85	169	339	508
80°	126	126	253	253	379
85°	0	252	503	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	2.3
10°-20°	13.1	13.5
20°-30°	28.7	29.6
30°-40°	32.7	33.8
40°-50°	17.3	17.8
50°-60°	2.0	2.1
60°-70°	0.4	0.4
70°-80°	0.3	0.3
80°-90°	0.1	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°	44.1	45.5
0°-40°	76.9	79.2
0°-60°	96.2	99.2
0°-90°	97.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	97.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	52	33	10	4	3	7
15°	172	87	4	1	1	51
25°	248	120	1	0	0	114
35°	262	45	0	0	0	162
45°	144	5	0	0	1	116
55°	5	0	0	1	1	16
65°	0	0	0	1	1	0
75°	0	0	0	0	1	0
85°	0	0	0	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°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	25.6	25.6	25.5	24.8	24.7	24.6	23.3	23.0	21.4	20.3	15.5
5°	51.6	50.4	50.3	49.0	46.8	43.9	42.0	38.9	36.0	32.9	19.1
7.5°	82.1	83.1	80.4	79.0	74.1	70.6	65.2	60.4	53.8	47.5	22.1
10°	116.9	115.2	112.5	109.8	104.4	98.1	90.1	81.7	72.1	62.8	23.7
12.5°	144.0	141.8	140.2	136.5	131.3	123.1	113.5	102.2	89.5	76.2	23.6
15°	172.1	169.9	166.2	162.9	155.1	146.0	135.6	120.7	105.1	87.4	21.9
17.5°	202.9	200.0	195.9	190.9	183.4	173.3	160.1	141.9	119.9	96.6	18.8
20°	229.2	227.5	223.4	217.5	210.1	200.3	185.0	164.9	138.0	106.6	14.9
22.5°	246.4	244.9	242.1	236.9	231.4	220.9	206.9	184.8	153.1	115.7	11.3
25°	247.8	247.2	246.4	244.7	241.4	233.9	220.3	196.4	162.6	120.1	8.4
27.5°	247.1	246.8	246.7	245.8	243.6	236.2	222.3	198.2	161.3	113.2	6.1
30°	257.6	256.9	256.4	253.5	247.7	236.3	218.1	188.9	143.4	92.6	4.4
32.5°	262.9	262.8	262.3	259.5	251.3	236.4	211.0	166.5	113.7	66.9	3.0
35°	261.9	261.0	259.6	254.2	242.8	224.2	188.2	133.0	82.1	44.8	2.0
37.5°	258.2	256.4	253.5	243.9	228.7	203.3	152.7	97.9	55.8	29.0	1.1
40°	245.0	242.4	237.9	226.2	206.3	167.6	112.9	66.2	36.6	16.7	0.3
42.5°	210.6	207.3	204.1	190.9	168.1	124.9	74.3	40.9	20.9	9.2	0.1
45°	144.4	140.3	135.8	126.3	108.0	75.7	44.2	23.0	10.8	5.2	0.1
47.5°	100.3	98.4	90.5	78.4	60.1	40.1	22.9	11.3	5.7	2.4	0.1
50°	68.1	66.0	56.8	45.1	32.0	19.2	10.5	5.7	2.5	0.6	0.1
52.5°	35.7	33.1	27.3	20.8	13.0	8.0	4.6	2.5	0.7	0.1	0.1
55°	5.2	4.8	3.9	3.2	2.9	2.2	1.3	0.6	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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°	11.5	11.5	11.5	11.5	11.5
2.5°	11.3	8.4	6.5	5.6	5.5
5°	10.2	6.0	3.9	3.0	2.9
7.5°	8.7	4.2	2.3	1.6	1.6
10°	7.1	2.9	1.4	1.1	1.1
12.5°	5.7	1.9	1.0	0.9	0.8
15°	4.3	1.2	0.7	0.7	0.7
17.5°	3.3	0.8	0.6	0.6	0.6
20°	2.5	0.6	0.4	0.5	0.5
22.5°	1.7	0.4	0.3	0.4	0.4
25°	1.2	0.3	0.3	0.4	0.4
27.5°	0.8	0.2	0.2	0.3	0.4
30°	0.5	0.2	0.2	0.3	0.4
32.5°	0.2	0.2	0.2	0.4	0.4
35°	0.2	0.2	0.3	0.4	0.5
37.5°	0.1	0.2	0.3	0.5	0.5
40°	0.1	0.2	0.3	0.5	0.6
42.5°	0.2	0.3	0.4	0.6	0.7
45°	0.2	0.3	0.5	0.7	0.7
47.5°	0.2	0.3	0.6	0.7	0.7
50°	0.2	0.4	0.6	0.7	0.8
52.5°	0.2	0.4	0.6	0.8	0.9
55°	0.2	0.4	0.7	0.8	0.9
57.5°	0.2	0.5	0.7	0.8	0.9
60°	0.2	0.4	0.7	0.8	0.9
62.5°	0.3	0.4	0.6	0.8	0.8
65°	0.3	0.4	0.6	0.8	0.8
67.5°	0.3	0.4	0.6	0.7	0.7
70°	0.3	0.4	0.5	0.7	0.7
72.5°	0.3	0.4	0.5	0.6	0.7
75°	0.2	0.3	0.4	0.5	0.6
77.5°	0.2	0.3	0.3	0.5	0.5
80°	0.2	0.2	0.2	0.3	0.3
82.5°	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)