

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: P1336174

Luminaire Tested: P3A02R459840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

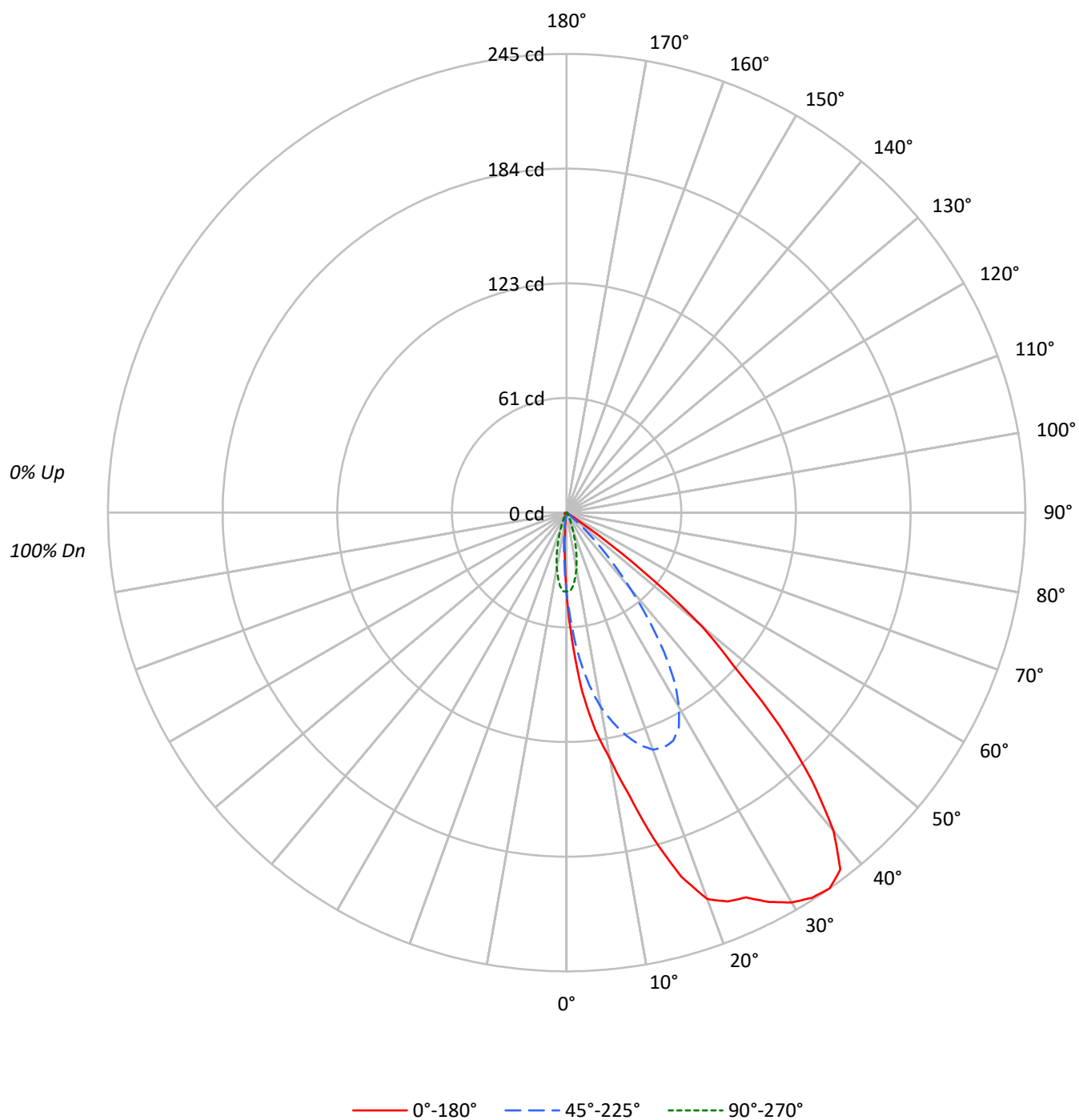
Lumens per Lamp: N/A
Luminaire Lumens: 111.0 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9254	9254	9254	9254	9254
5°	21109	17125	8673	3478	2377
10°	29748	23513	6702	757	356
15°	40999	27991	4268	250	204
20°	51244	31433	2240	163	163
25°	54850	32542	1040	145	145
30°	60870	30384	481	152	152
35°	65585	24226	161	161	187
40°	63462	15000	86	172	229
45°	49835	7071	93	217	279
50°	32033	819	136	273	375
55°	4855	76	153	344	459
60°	88	88	175	395	482
65°	104	104	208	415	571
70°	128	128	256	449	641
75°	85	169	339	508	678
80°	126	253	379	631	758
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49835 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	4.2
10°-20°	16.7	15.1
20°-30°	29.4	26.4
30°-40°	33.3	30.0
40°-50°	21.6	19.4
50°-60°	4.2	3.8
60°-70°	0.5	0.5
70°-80°	0.4	0.4
80°-90°	0.2	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°	50.7	45.7
0°-40°	84.0	75.7
0°-60°	109.9	99.0
0°-90°	111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	111.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	96	78	39	16	11	10
15°	181	123	19	1	1	52
25°	227	134	4	1	1	106
35°	245	90	1	1	1	151
45°	161	23	0	1	1	121
55°	13	0	0	1	1	24
65°	0	0	0	1	1	0
75°	0	0	0	1	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°	50°
0°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
2.5°	68.6	68.4	68.7	66.8	66.7	65.4	65.0	63.4	61.3	60.2	57.8
5°	95.9	95.0	95.0	92.7	92.0	90.4	87.7	84.4	81.6	77.8	73.7
7.5°	117.0	116.8	116.8	114.8	113.0	110.7	107.1	103.3	98.9	93.0	87.1
10°	133.6	133.9	133.0	131.3	128.6	126.2	121.9	117.2	111.8	105.6	97.8
12.5°	154.6	152.5	151.9	147.9	144.4	139.8	134.7	129.4	122.6	114.9	106.0
15°	180.6	178.0	175.4	170.1	164.3	157.2	149.2	141.4	132.7	123.3	112.1
17.5°	203.8	203.8	200.3	192.0	184.5	174.0	163.2	152.8	142.5	130.1	116.2
20°	219.6	218.8	216.2	210.1	201.6	189.7	175.6	161.1	148.6	134.7	118.5
22.5°	224.8	224.6	224.7	221.1	214.3	201.9	184.7	167.6	152.0	135.8	117.4
25°	226.7	227.1	228.0	226.6	221.5	209.1	190.3	170.6	153.0	134.5	113.2
27.5°	234.4	233.7	234.7	233.7	228.0	213.1	191.4	169.9	150.8	129.8	105.5
30°	240.4	240.2	242.0	241.2	233.7	215.7	190.4	167.1	145.3	120.0	93.6
32.5°	243.9	244.0	244.4	241.0	229.8	210.1	185.4	161.4	135.0	107.3	78.0
35°	245.0	244.4	241.8	233.4	218.2	197.0	173.0	148.0	121.0	90.5	61.6
37.5°	240.2	237.3	230.6	218.0	200.3	180.6	157.3	131.0	101.7	71.5	46.0
40°	221.7	217.9	209.4	196.5	180.1	161.0	137.1	109.6	78.9	52.4	32.3
42.5°	194.0	192.1	183.2	172.0	158.1	138.8	114.2	86.3	58.4	36.2	20.6
45°	160.7	158.2	152.6	142.7	131.7	111.5	88.6	61.8	39.8	22.8	10.2
47.5°	120.5	120.7	116.9	109.4	98.6	81.7	60.6	41.5	25.0	11.8	2.3
50°	93.9	92.6	87.2	79.5	66.9	54.4	39.2	26.2	13.2	2.4	0.2
52.5°	52.0	52.8	49.9	47.4	40.9	32.5	23.1	13.3	2.8	0.3	0.2
55°	12.7	13.5	12.9	13.2	13.6	12.2	9.4	2.6	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	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	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
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°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
2.5°	56.6	54.9	51.6	42.0	33.7	27.2	23.3	22.9
5°	70.1	65.4	58.5	39.4	24.9	15.8	11.4	10.8
7.5°	80.8	74.1	63.5	35.1	17.0	8.1	4.5	3.7
10°	89.6	80.1	66.1	30.1	10.7	3.4	1.9	1.6
12.5°	95.6	84.2	66.6	24.5	6.1	1.7	1.2	1.1
15°	99.5	85.5	64.3	18.8	3.4	1.1	1.0	0.9
17.5°	101.1	84.4	60.1	13.6	1.9	0.8	0.8	0.8
20°	100.3	80.8	53.7	9.6	1.2	0.7	0.7	0.7
22.5°	96.8	74.5	45.9	6.4	0.8	0.6	0.6	0.6
25°	89.9	66.1	37.5	4.3	0.6	0.6	0.6	0.6
27.5°	79.5	55.7	28.7	2.9	0.5	0.6	0.6	0.6
30°	66.4	44.1	20.6	1.9	0.5	0.6	0.6	0.6
32.5°	52.7	32.1	13.6	1.1	0.4	0.6	0.6	0.7
35°	38.2	21.9	8.6	0.6	0.5	0.6	0.6	0.7
37.5°	26.8	14.3	5.0	0.4	0.5	0.6	0.7	0.7
40°	17.5	8.0	1.9	0.3	0.5	0.6	0.7	0.8
42.5°	9.1	2.8	0.4	0.3	0.5	0.6	0.8	0.9
45°	2.3	0.4	0.1	0.3	0.6	0.7	0.9	0.9
47.5°	0.3	0.1	0.1	0.4	0.6	0.8	0.9	1.0
50°	0.1	0.2	0.2	0.4	0.6	0.8	1.0	1.1
52.5°	0.2	0.2	0.2	0.4	0.6	0.8	1.1	1.2
55°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.2
57.5°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.1
60°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.1
62.5°	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.1
65°	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.1
67.5°	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.1
70°	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0
72.5°	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.9
75°	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.8
77.5°	0.2	0.2	0.3	0.3	0.5	0.6	0.7	0.7
80°	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6
82.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)