

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: P1335966

Luminaire Tested: P3A02R459027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335966
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: P3A02R459027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

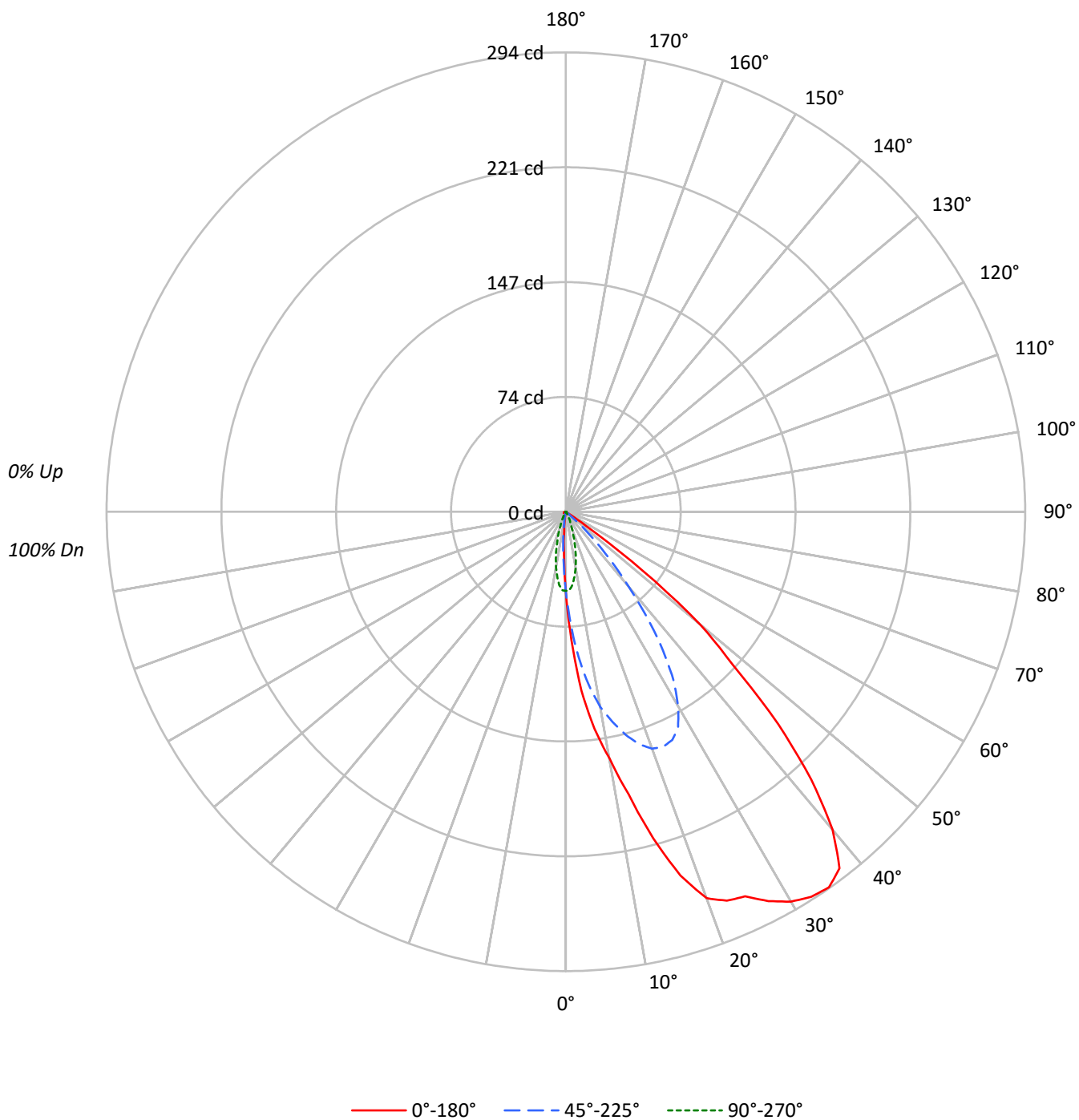
Lumens per Lamp: N/A
Luminaire Lumens: 132.9 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	95	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°	11096	11096	11096	11096	11096
5°	25292	20515	10390	4160	2840
10°	35648	28189	8016	913	423
15°	49104	33530	5131	295	250
20°	61419	37663	2684	210	210
25°	65713	39002	1234	169	194
30°	72948	36411	557	177	203
35°	78568	29018	187	187	241
40°	76028	17977	86	229	286
45°	59696	8497	93	279	341
50°	38378	989	136	341	443
55°	5811	76	153	421	535
60°	88	88	175	482	570
65°	104	104	208	519	675
70°	128	128	256	577	769
75°	85	169	339	678	847
80°	126	253	379	758	1010
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	4.2
10°-20°	20.0	15.1
20°-30°	35.2	26.5
30°-40°	40.0	30.1
40°-50°	25.9	19.5
50°-60°	5.1	3.8
60°-70°	0.6	0.4
70°-80°	0.5	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°	60.7	45.7
0°-40°	100.7	75.7
0°-60°	131.6	99.0
0°-90°	132.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	132.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	115	93	47	19	13	12
15°	216	148	23	1	1	62
25°	272	161	5	1	1	127
35°	294	108	1	1	1	180
45°	192	27	0	1	1	145
55°	15	0	0	1	1	29
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°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
2.5°	82.2	82.0	82.3	80.1	80.0	78.3	77.9	76.0	73.4	72.2	69.3
5°	114.9	113.8	113.8	111.1	110.2	108.3	105.1	101.1	97.8	93.2	88.3
7.5°	140.1	139.9	139.9	137.6	135.4	132.7	128.4	123.8	118.5	111.5	104.3
10°	160.1	160.4	159.4	157.3	154.1	151.2	146.0	140.5	133.9	126.6	117.1
12.5°	185.2	182.7	182.0	177.2	173.1	167.5	161.4	155.1	146.9	137.7	127.0
15°	216.3	213.2	210.1	203.8	196.9	188.3	178.7	169.4	158.9	147.7	134.4
17.5°	244.1	244.1	240.0	230.0	221.1	208.4	195.5	183.1	170.7	155.9	139.3
20°	263.2	262.2	259.1	251.7	241.6	227.2	210.4	193.0	178.1	161.4	142.0
22.5°	269.4	269.2	269.3	264.9	256.8	241.9	221.3	200.8	182.1	162.7	140.7
25°	271.6	272.1	273.2	271.5	265.4	250.5	228.0	204.4	183.3	161.2	135.6
27.5°	280.9	280.0	281.2	280.1	273.2	255.4	229.4	203.5	180.6	155.5	126.5
30°	288.1	287.9	290.0	289.0	280.0	258.5	228.1	200.2	174.1	143.8	112.1
32.5°	292.2	292.3	292.9	288.8	275.4	251.7	222.1	193.4	161.7	128.6	93.4
35°	293.5	292.9	289.8	279.6	261.4	236.0	207.3	177.3	144.9	108.4	73.9
37.5°	287.7	284.3	276.3	261.2	240.0	216.3	188.4	156.9	121.9	85.6	55.1
40°	265.6	261.1	250.9	235.5	215.8	192.9	164.3	131.4	94.5	62.8	38.7
42.5°	232.5	230.1	219.6	206.1	189.4	166.3	136.8	103.4	70.0	43.4	24.7
45°	192.5	189.5	182.9	171.0	157.8	133.6	106.1	74.1	47.7	27.4	12.2
47.5°	144.4	144.6	140.0	131.0	118.1	97.9	72.6	49.7	29.9	14.1	2.8
50°	112.5	110.9	104.4	95.2	80.2	65.2	46.9	31.4	15.8	2.9	0.2
52.5°	62.3	63.3	59.8	56.8	49.1	38.9	27.7	15.9	3.3	0.3	0.2
55°	15.2	16.1	15.5	15.8	16.4	14.6	11.2	3.1	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.6	0.8	0.8	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°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
2.5°	67.8	65.7	61.8	50.3	40.4	32.6	27.9	27.5
5°	84.0	78.3	70.1	47.2	29.8	18.9	13.7	12.9
7.5°	96.8	88.8	76.1	42.0	20.4	9.7	5.3	4.4
10°	107.3	96.0	79.2	36.0	12.8	4.1	2.2	1.9
12.5°	114.6	100.9	79.8	29.4	7.3	2.0	1.4	1.3
15°	119.2	102.4	77.1	22.6	4.1	1.3	1.2	1.1
17.5°	121.1	101.1	72.0	16.4	2.2	1.0	1.0	1.0
20°	120.2	96.8	64.4	11.5	1.4	0.9	0.9	0.9
22.5°	116.0	89.3	54.9	7.7	1.0	0.8	0.8	0.8
25°	107.7	79.2	44.9	5.1	0.7	0.7	0.8	0.8
27.5°	95.2	66.7	34.4	3.4	0.6	0.7	0.8	0.8
30°	79.5	52.8	24.7	2.2	0.6	0.7	0.7	0.8
32.5°	63.2	38.5	16.2	1.3	0.4	0.7	0.8	0.9
35°	45.8	26.3	10.3	0.7	0.6	0.7	0.8	0.9
37.5°	32.1	17.1	6.0	0.4	0.6	0.7	0.9	0.9
40°	20.9	9.6	2.2	0.3	0.6	0.8	0.9	1.0
42.5°	10.9	3.3	0.4	0.3	0.6	0.8	1.0	1.1
45°	2.8	0.4	0.1	0.3	0.7	0.9	1.1	1.1
47.5°	0.3	0.1	0.1	0.4	0.7	1.0	1.1	1.2
50°	0.1	0.2	0.2	0.4	0.7	1.0	1.2	1.3
52.5°	0.2	0.2	0.2	0.4	0.8	1.0	1.3	1.4
55°	0.2	0.2	0.2	0.4	0.8	1.1	1.3	1.4
57.5°	0.2	0.2	0.2	0.4	0.8	1.1	1.3	1.3
60°	0.2	0.2	0.2	0.4	0.8	1.1	1.3	1.3
62.5°	0.2	0.2	0.3	0.4	0.8	1.0	1.3	1.3
65°	0.2	0.3	0.3	0.4	0.8	1.0	1.2	1.3
67.5°	0.2	0.2	0.3	0.4	0.8	1.0	1.2	1.3
70°	0.2	0.2	0.3	0.4	0.7	0.9	1.1	1.2
72.5°	0.2	0.2	0.3	0.4	0.7	0.9	1.0	1.1
75°	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.0
77.5°	0.2	0.2	0.3	0.3	0.6	0.7	0.9	0.9
80°	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.8
82.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.6
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)