

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: P1335454

Luminaire Tested: P3A02R359827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R359827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

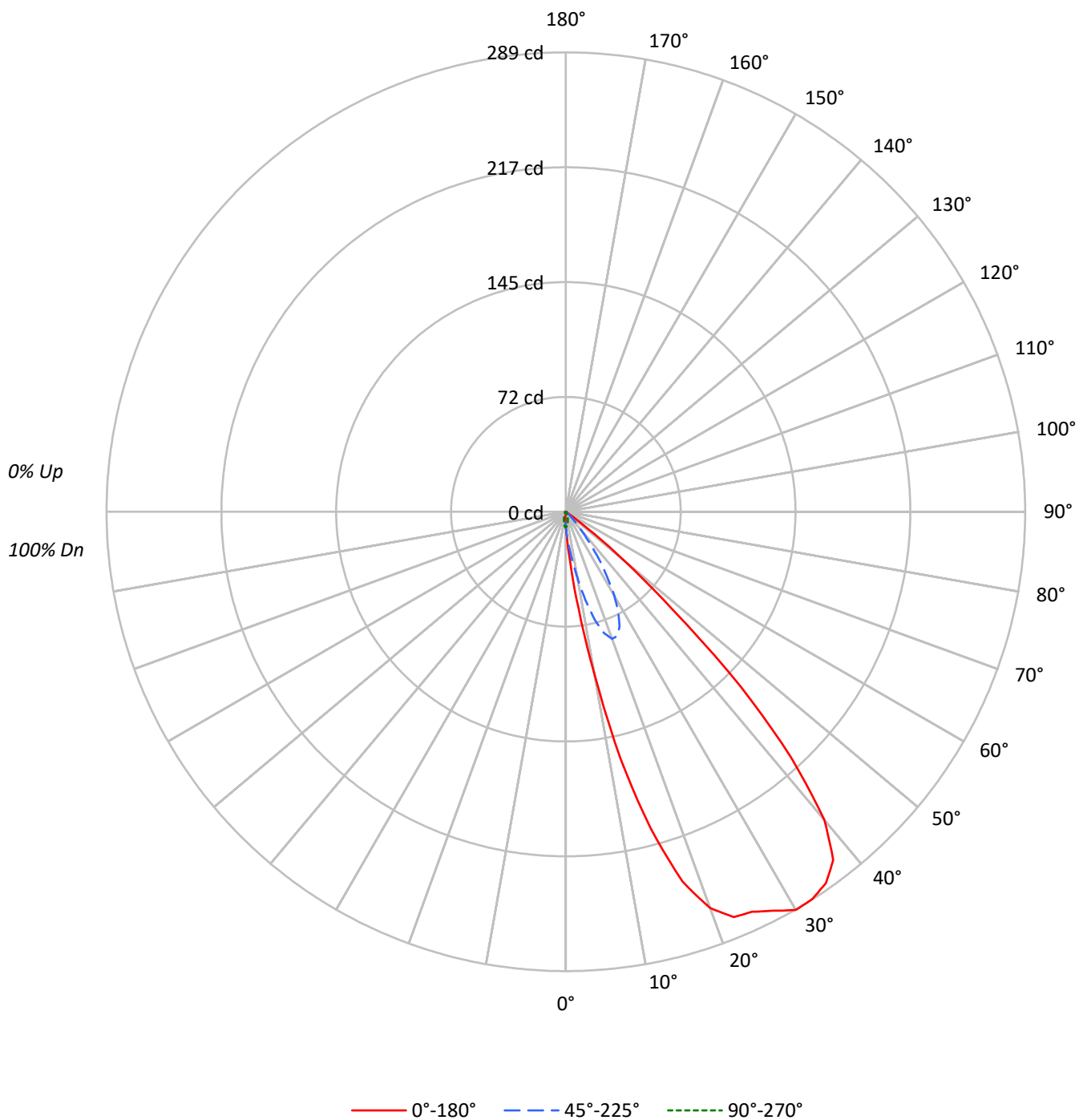
Lumens per Lamp: N/A
Luminaire Lumens: 91.0 lumens
Efficiency: N/A
Efficacy: 25.3 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.49 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	84	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	76	76	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	69	69	67
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	62	62	61
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	56	56	55
7	75	64	57	52	74	64	57	52	62	56	52	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	46	42	51	46	42	42	42	41
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2105	2105	2105	2105	2105
5°	7132	4644	1959	836	616
10°	22979	9396	1536	312	200
15°	46811	15959	1090	114	68
20°	61885	19858	700	47	47
25°	67165	19308	387	24	48
30°	73252	15395	177	25	51
35°	76346	9583	54	27	54
40°	72450	4179	29	57	57
45°	48346	1675	31	62	124
50°	16204	273	68	102	171
55°	918	38	76	153	229
60°	88	44	88	175	263
65°	104	52	104	208	311
70°	64	64	128	256	321
75°	85	85	169	254	339
80°	0	126	253	253	253
85°	0	252	503	252	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	1.8
10°-20°	13.1	14.4
20°-30°	27.6	30.3
30°-40°	31.3	34.4
40°-50°	15.4	16.9
50°-60°	1.3	1.5
60°-70°	0.3	0.3
70°-80°	0.2	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°	42.3	46.5
0°-40°	73.6	80.9
0°-60°	90.4	99.3
0°-90°	91.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	91.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	32	21	9	4	3	5
15°	206	70	5	0	0	59
25°	278	80	2	0	0	129
35°	285	36	0	0	0	176
45°	156	5	0	0	0	115
55°	2	0	0	0	1	9
65°	0	0	0	0	1	0
75°	0	0	0	0	0	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°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
2.5°	16.6	17.0	16.8	16.7	16.7	16.3	15.6	15.5	14.8	14.3	11.8
5°	32.4	31.8	31.9	31.0	29.9	28.3	27.2	24.9	23.0	21.1	13.8
7.5°	61.1	60.2	58.5	55.9	53.2	49.7	44.4	40.1	35.2	30.6	15.4
10°	103.2	102.7	100.5	93.8	87.9	78.5	69.7	60.4	51.2	42.2	16.4
12.5°	159.4	156.0	152.0	143.1	131.5	119.8	102.4	86.3	71.6	56.6	16.5
15°	206.2	204.1	198.4	186.8	172.9	155.9	135.2	113.5	91.5	70.3	15.7
17.5°	243.8	240.6	233.3	221.9	205.9	183.8	159.6	133.2	106.4	80.0	14.3
20°	265.2	263.5	258.0	246.6	229.1	205.0	177.4	146.7	115.7	85.1	12.5
22.5°	276.0	274.8	270.7	261.6	245.2	221.0	189.4	153.7	118.4	84.5	10.6
25°	277.6	277.2	273.7	266.9	253.1	229.1	194.7	155.0	116.2	79.8	8.8
27.5°	283.0	281.8	277.7	270.8	257.0	230.5	192.9	150.5	109.1	71.5	7.4
30°	289.3	288.5	284.4	277.2	260.9	229.2	186.5	140.6	97.7	60.8	5.5
32.5°	288.8	288.5	285.0	277.5	258.1	221.5	175.1	125.6	82.3	48.0	3.4
35°	285.2	284.0	279.6	268.0	242.3	201.8	153.6	105.4	65.1	35.8	2.2
37.5°	276.3	273.9	266.5	246.8	213.9	171.3	125.1	81.4	46.1	23.9	1.4
40°	253.1	250.0	235.0	211.2	176.9	134.9	93.0	56.0	30.4	14.6	0.6
42.5°	209.9	203.6	188.7	164.3	132.0	95.4	61.1	36.3	17.9	8.8	0.2
45°	155.9	151.1	135.4	113.3	86.5	61.2	37.0	19.6	9.9	5.4	0.1
47.5°	90.8	87.9	79.8	65.3	47.8	32.1	19.0	10.5	5.8	2.6	0.1
50°	47.5	43.9	37.7	28.6	21.1	14.8	9.2	5.6	2.9	0.8	0.1
52.5°	16.7	16.4	14.9	11.3	9.1	6.6	4.5	2.5	0.8	0.2	0.1
55°	2.4	2.4	2.2	2.5	2.6	2.4	1.6	0.7	0.2	0.1	0.1
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	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°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	9.6	9.6	9.6	9.6	9.6
2.5°	9.5	7.6	6.0	5.3	5.1
5°	8.9	5.7	3.8	2.9	2.8
7.5°	7.9	4.1	2.3	1.6	1.6
10°	6.9	2.9	1.4	1.0	0.9
12.5°	5.8	2.0	0.9	0.6	0.5
15°	4.8	1.4	0.5	0.4	0.3
17.5°	3.8	0.9	0.3	0.2	0.3
20°	3.0	0.6	0.2	0.2	0.2
22.5°	2.3	0.3	0.2	0.2	0.2
25°	1.6	0.2	0.1	0.1	0.2
27.5°	1.1	0.1	0.1	0.1	0.2
30°	0.7	0.1	0.1	0.1	0.2
32.5°	0.3	0.1	0.1	0.2	0.2
35°	0.2	0.1	0.1	0.2	0.2
37.5°	0.1	0.1	0.1	0.2	0.2
40°	0.1	0.1	0.2	0.2	0.2
42.5°	0.1	0.1	0.2	0.2	0.3
45°	0.1	0.2	0.2	0.3	0.4
47.5°	0.2	0.2	0.3	0.4	0.5
50°	0.2	0.2	0.3	0.5	0.5
52.5°	0.2	0.2	0.4	0.5	0.6
55°	0.2	0.3	0.4	0.6	0.6
57.5°	0.2	0.3	0.4	0.6	0.6
60°	0.2	0.3	0.4	0.6	0.6
62.5°	0.2	0.3	0.4	0.6	0.6
65°	0.2	0.3	0.4	0.6	0.6
67.5°	0.2	0.3	0.4	0.5	0.6
70°	0.2	0.3	0.4	0.5	0.5
72.5°	0.3	0.3	0.4	0.5	0.5
75°	0.2	0.3	0.3	0.4	0.4
77.5°	0.2	0.2	0.2	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.1	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)