

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: P1335742

Luminaire Tested: P3A02R409730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335742
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: P3A02R409730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

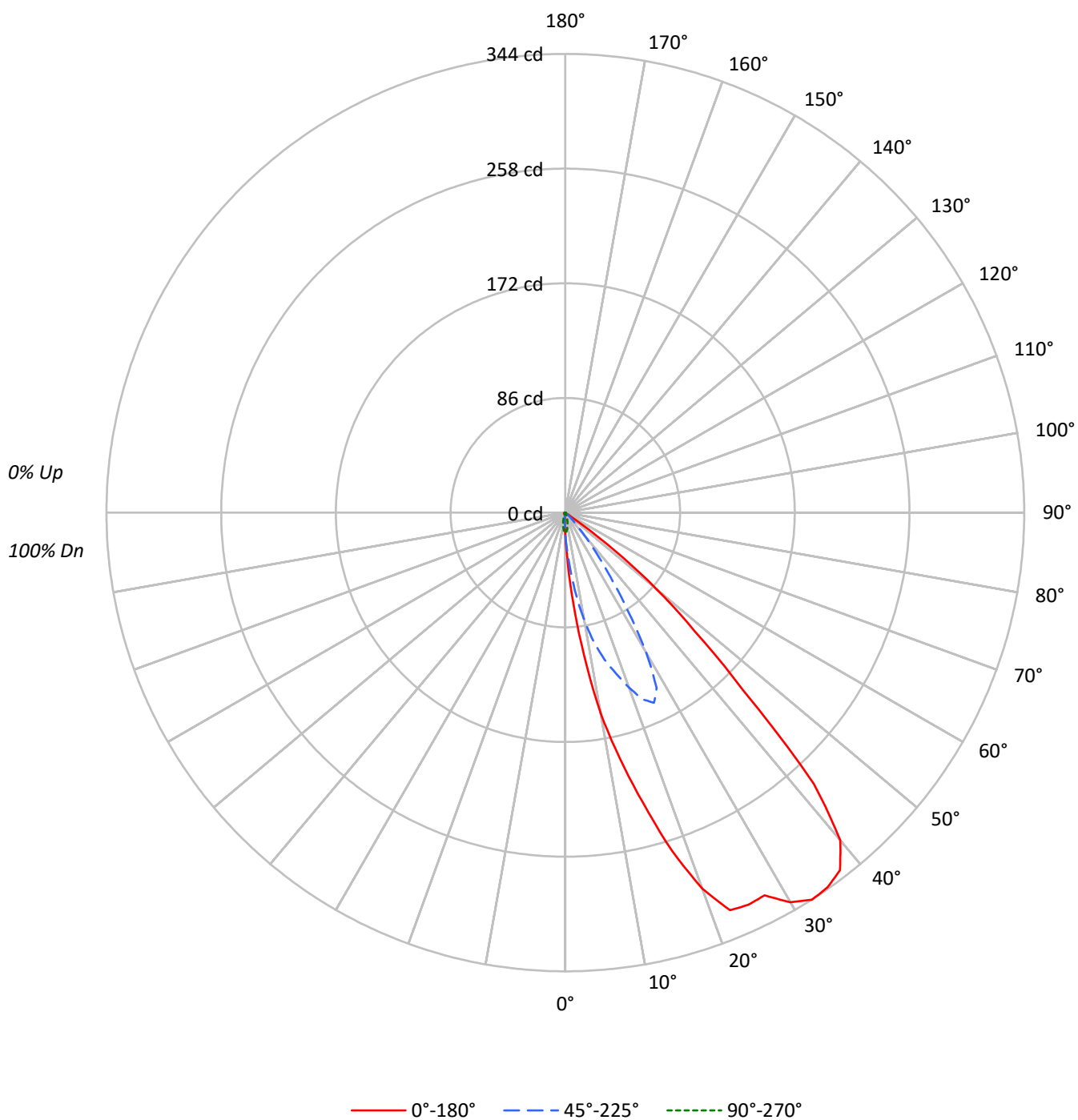
Lumens per Lamp: N/A
Luminaire Lumens: 127.0 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	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	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3289	3289	3289	3289	3289
5°	14858	9465	2950	1145	836
10°	34090	18303	2071	401	312
15°	51147	25971	1294	227	204
20°	70029	32553	747	117	140
25°	78513	38059	387	97	121
30°	85406	30714	152	76	127
35°	91765	15714	54	107	161
40°	91801	6269	29	115	229
45°	58611	2109	62	186	310
50°	30430	273	102	273	375
55°	2638	38	115	344	459
60°	88	44	132	395	526
65°	104	52	208	415	571
70°	64	64	256	385	577
75°	85	85	254	424	678
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	2.3
10°-20°	17.2	13.5
20°-30°	37.6	29.6
30°-40°	42.9	33.8
40°-50°	22.6	17.8
50°-60°	2.7	2.1
60°-70°	0.5	0.4
70°-80°	0.4	0.3
80°-90°	0.2	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°	57.8	45.5
0°-40°	100.6	79.3
0°-60°	125.9	99.2
0°-90°	127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	127.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	68	43	13	5	4	9
15°	225	114	6	1	1	66
25°	324	157	2	0	0	150
35°	343	59	0	0	1	212
45°	189	7	0	1	1	152
55°	7	0	0	1	1	21
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°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	33.5	33.5	33.4	32.4	32.3	32.2	30.5	30.1	28.0	26.6	20.3
5°	67.5	66.0	65.9	64.2	61.3	57.4	55.0	51.0	47.1	43.0	25.0
7.5°	107.6	108.8	105.3	103.5	97.0	92.4	85.3	79.1	70.4	62.3	28.9
10°	153.1	150.8	147.3	143.7	136.7	128.5	118.0	106.9	94.4	82.2	31.0
12.5°	188.6	185.7	183.5	178.7	171.8	161.2	148.7	133.9	117.2	99.7	30.9
15°	225.3	222.4	217.6	213.3	203.1	191.2	177.5	158.0	137.6	114.4	28.7
17.5°	265.7	261.9	256.5	250.0	240.1	226.9	209.6	185.8	156.9	126.4	24.6
20°	300.1	297.9	292.5	284.8	275.1	262.2	242.3	215.9	180.7	139.5	19.5
22.5°	322.7	320.6	317.0	310.2	302.9	289.2	270.9	241.9	200.5	151.5	14.8
25°	324.5	323.6	322.7	320.4	316.0	306.2	288.4	257.2	212.9	157.3	10.9
27.5°	323.5	323.2	323.0	321.8	318.9	309.2	291.0	259.4	211.2	148.2	8.1
30°	337.3	336.3	335.8	331.9	324.3	309.3	285.5	247.3	187.7	121.3	5.8
32.5°	344.2	344.0	343.5	339.7	329.0	309.6	276.3	218.0	148.9	87.6	4.0
35°	342.8	341.8	339.8	332.9	317.9	293.6	246.4	174.1	107.4	58.7	2.6
37.5°	338.1	335.6	331.9	319.3	299.5	266.2	199.9	128.2	73.1	38.0	1.5
40°	320.7	317.4	311.5	296.1	270.1	219.4	147.8	86.6	48.0	21.9	0.4
42.5°	275.8	271.5	267.2	250.0	220.2	163.6	97.2	53.6	27.4	12.0	0.1
45°	189.0	183.7	177.8	165.3	141.4	99.1	57.9	30.2	14.2	6.8	0.1
47.5°	131.3	128.8	118.5	102.6	78.7	52.5	29.9	14.8	7.5	3.1	0.1
50°	89.2	86.4	74.4	59.0	41.9	25.1	13.7	7.4	3.3	0.8	0.1
52.5°	46.8	43.4	35.7	27.3	17.0	10.5	6.0	3.2	1.0	0.1	0.1
55°	6.9	6.3	5.2	4.2	3.8	2.9	1.7	0.8	0.1	0.1	0.2
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	0.2	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	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
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	0.3
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°	15.0	15.0	15.0	15.0	15.0
2.5°	14.8	10.9	8.5	7.3	7.2
5°	13.4	7.8	5.2	4.0	3.8
7.5°	11.4	5.5	3.0	2.1	2.0
10°	9.3	3.8	1.8	1.5	1.4
12.5°	7.4	2.5	1.3	1.2	1.1
15°	5.7	1.6	1.0	0.9	0.9
17.5°	4.3	1.1	0.8	0.8	0.8
20°	3.2	0.8	0.5	0.6	0.6
22.5°	2.3	0.5	0.4	0.5	0.5
25°	1.6	0.4	0.4	0.5	0.5
27.5°	1.1	0.3	0.3	0.4	0.5
30°	0.6	0.2	0.3	0.4	0.5
32.5°	0.3	0.2	0.3	0.5	0.5
35°	0.2	0.3	0.4	0.5	0.6
37.5°	0.1	0.3	0.4	0.6	0.6
40°	0.1	0.3	0.4	0.6	0.8
42.5°	0.2	0.4	0.5	0.8	0.9
45°	0.2	0.4	0.6	0.9	1.0
47.5°	0.2	0.4	0.8	1.0	1.0
50°	0.3	0.5	0.8	1.0	1.1
52.5°	0.3	0.5	0.8	1.1	1.2
55°	0.3	0.5	0.9	1.1	1.2
57.5°	0.3	0.6	0.9	1.1	1.2
60°	0.3	0.5	0.9	1.1	1.2
62.5°	0.4	0.5	0.8	1.1	1.1
65°	0.4	0.5	0.8	1.1	1.1
67.5°	0.4	0.5	0.8	1.0	1.0
70°	0.4	0.5	0.6	0.9	0.9
72.5°	0.4	0.5	0.6	0.8	0.9
75°	0.3	0.4	0.5	0.6	0.8
77.5°	0.3	0.4	0.4	0.6	0.6
80°	0.3	0.3	0.3	0.4	0.4
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	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)