

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: P1333972

Luminaire Tested: P3A02R159024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1333972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

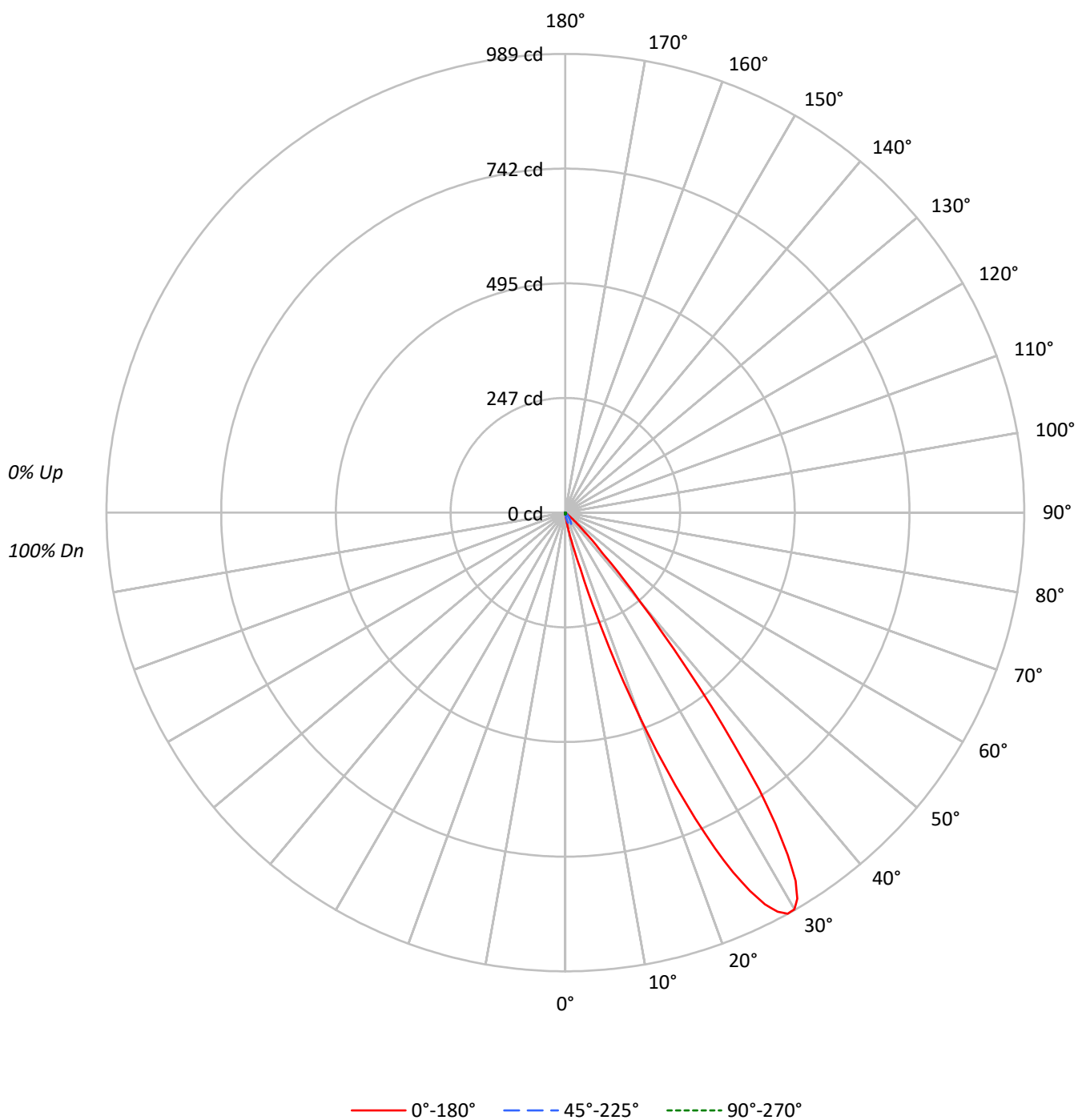
Lumens per Lamp: N/A
Luminaire Lumens: 107.9 lumens
Efficiency: N/A
Efficacy: 30.0 lumens/watt
Spacing Criteria (0/90/45): 2.34 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	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°	789	789	789	789	789
5°	1695	1255	748	396	330
10°	7481	2360	579	156	111
15°	28309	5471	409	68	45
20°	108883	7701	257	23	23
25°	207036	7210	121	0	0
30°	250089	5824	51	0	0
35°	195067	3962	27	0	0
40°	71191	1947	29	0	29
45°	18265	589	31	0	62
50°	3070	68	34	34	102
55°	421	0	76	115	191
60°	44	44	132	175	263
65°	52	52	208	259	311
70°	64	64	256	256	321
75°	85	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18265 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	8.3	7.7
20°-30°	45.9	42.5
30°-40°	44.3	41.1
40°-50°	7.7	7.1
50°-60°	0.5	0.5
60°-70°	0.3	0.3
70°-80°	0.3	0.2
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°	54.7	50.6
0°-40°	99.0	91.7
0°-60°	107.3	99.4
0°-90°	107.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	107.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	8	6	3	2	2	2
15°	125	24	2	0	0	56
25°	856	30	0	0	0	383
35°	729	15	0	0	0	419
45°	59	2	0	0	0	63
55°	1	0	0	0	0	2
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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2.5°	5.3	5.0	5.1	5.1	5.1	5.1	5.1	4.9	4.9	5.0	4.5
5°	7.7	7.7	7.6	7.7	7.7	7.6	7.4	7.2	7.2	7.0	5.7
7.5°	15.3	15.1	15.1	14.9	13.9	13.6	13.3	12.8	11.9	11.7	7.4
10°	33.6	33.7	33.0	32.0	31.9	30.4	29.8	28.9	27.1	25.3	10.6
12.5°	61.0	59.7	57.9	58.0	54.9	53.9	51.5	48.9	46.1	43.3	17.4
15°	124.7	120.8	123.1	117.5	111.0	103.8	96.4	87.2	79.3	70.9	24.1
17.5°	262.6	266.4	260.0	235.7	220.8	203.3	178.6	154.7	134.4	118.0	29.4
20°	466.6	472.1	450.4	429.3	393.0	353.5	312.3	265.7	221.0	182.4	33.0
21°	551.8	548.4	539.5	505.6	463.8	418.0	367.6	316.1	262.0	211.8	33.3
22°	634.1	635.7	614.9	579.5	536.0	485.3	423.7	360.1	301.8	235.7	32.8
23°	716.2	721.2	693.7	660.5	605.8	548.5	477.3	408.7	336.6	263.2	31.7
24°	792.1	788.7	770.1	728.3	669.7	602.7	528.8	445.5	365.2	286.6	30.9
25°	855.7	855.3	826.1	785.4	718.5	644.2	562.7	475.7	389.7	302.5	29.8
26°	907.7	899.2	876.2	826.6	760.5	682.1	590.5	497.7	403.4	310.4	28.8
27°	947.8	941.7	910.8	859.3	790.2	703.6	608.4	508.6	409.7	313.1	27.4
28°	974.8	968.2	935.3	882.2	806.6	717.0	617.8	513.2	409.7	310.5	26.2
29°	988.8	979.8	947.0	890.0	810.4	718.6	615.5	508.7	403.3	302.8	24.7
30°	987.7	976.5	942.1	882.9	799.2	705.7	602.6	492.4	388.8	291.2	23.0
31°	970.7	958.1	919.8	858.7	775.9	681.3	578.2	470.5	369.0	276.2	21.3
32°	936.2	920.2	882.8	822.0	740.2	644.8	542.8	436.8	339.2	254.2	19.5
33°	879.9	863.8	823.6	766.6	691.9	598.6	495.9	400.6	305.4	228.1	18.1
34°	809.4	794.7	760.1	702.6	631.0	540.1	441.9	350.5	270.3	202.1	16.5
35°	728.7	705.2	673.9	628.5	558.6	467.2	383.6	303.8	234.2	174.9	14.8
36°	619.5	623.7	590.5	534.8	477.0	405.3	325.0	253.3	195.8	149.1	13.3
37°	522.8	516.1	495.0	452.0	401.5	330.4	272.4	214.7	164.7	126.1	11.8
38°	421.7	423.2	402.5	369.4	319.4	271.7	219.3	176.4	137.8	107.3	10.3
39°	330.1	328.9	323.4	292.7	247.4	216.1	177.7	146.2	114.8	90.5	8.7
40°	248.7	250.6	237.5	219.0	192.7	166.9	141.5	116.6	95.0	76.3	6.8
42.5°	120.9	123.9	115.2	110.5	98.9	88.8	74.9	61.1	52.0	45.0	3.0
45°	58.9	57.3	56.5	54.2	51.5	46.0	40.8	35.0	30.6	26.4	1.9
47.5°	30.2	29.3	29.3	28.4	27.4	25.6	23.0	21.1	19.0	16.4	0.7
50°	9.0	8.9	8.8	8.9	8.6	8.9	9.1	9.2	8.4	8.3	0.2
52.5°	3.6	3.7	3.6	3.9	3.9	3.8	3.9	3.8	3.7	3.3	0.0
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.3	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	3.6	3.6	3.6	3.6	3.6	3.6
2.5°	4.2	3.7	3.0	2.5	2.3	2.2
5°	4.5	3.4	2.3	1.8	1.6	1.5
7.5°	4.8	3.0	1.8	1.3	0.9	0.8
10°	5.0	2.6	1.4	0.7	0.5	0.5
12.5°	5.0	2.1	0.9	0.4	0.3	0.3
15°	4.9	1.8	0.6	0.3	0.2	0.2
17.5°	4.8	1.4	0.4	0.2	0.1	0.2
20°	4.5	1.1	0.2	0.1	0.1	0.1
21°	4.4	0.9	0.2	0.1	0.1	0.1
22°	4.2	0.8	0.1	0.0	0.1	0.1
23°	4.0	0.6	0.1	0.0	0.0	0.0
24°	3.7	0.5	0.1	0.0	0.0	0.0
25°	3.5	0.5	0.1	0.0	0.0	0.0
26°	3.3	0.3	0.0	0.0	0.0	0.0
27°	2.9	0.2	0.0	0.0	0.0	0.0
28°	2.7	0.2	0.0	0.0	0.0	0.0
29°	2.4	0.2	0.0	0.0	0.0	0.0
30°	2.1	0.2	0.0	0.0	0.0	0.0
31°	1.7	0.1	0.0	0.0	0.0	0.0
32°	1.4	0.1	0.0	0.0	0.0	0.0
33°	0.9	0.1	0.0	0.0	0.0	0.0
34°	0.6	0.1	0.0	0.0	0.0	0.0
35°	0.5	0.1	0.0	0.0	0.0	0.0
36°	0.3	0.1	0.0	0.0	0.0	0.1
37°	0.3	0.1	0.0	0.0	0.0	0.1
38°	0.2	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.2
45°	0.0	0.1	0.0	0.0	0.1	0.2
47.5°	0.0	0.1	0.0	0.0	0.2	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.2	0.3	0.4
55°	0.1	0.2	0.2	0.3	0.4	0.5
57.5°	0.1	0.3	0.3	0.4	0.5	0.5
60°	0.2	0.3	0.4	0.4	0.6	0.6
62.5°	0.2	0.4	0.4	0.4	0.6	0.6
65°	0.2	0.4	0.4	0.5	0.6	0.6
67.5°	0.2	0.4	0.4	0.4	0.5	0.6
70°	0.2	0.4	0.3	0.4	0.5	0.5
72.5°	0.2	0.4	0.3	0.3	0.4	0.5
75°	0.2	0.4	0.3	0.3	0.4	0.4
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)