

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: P1335134

Luminaire Tested: P3A02R309830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R309830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

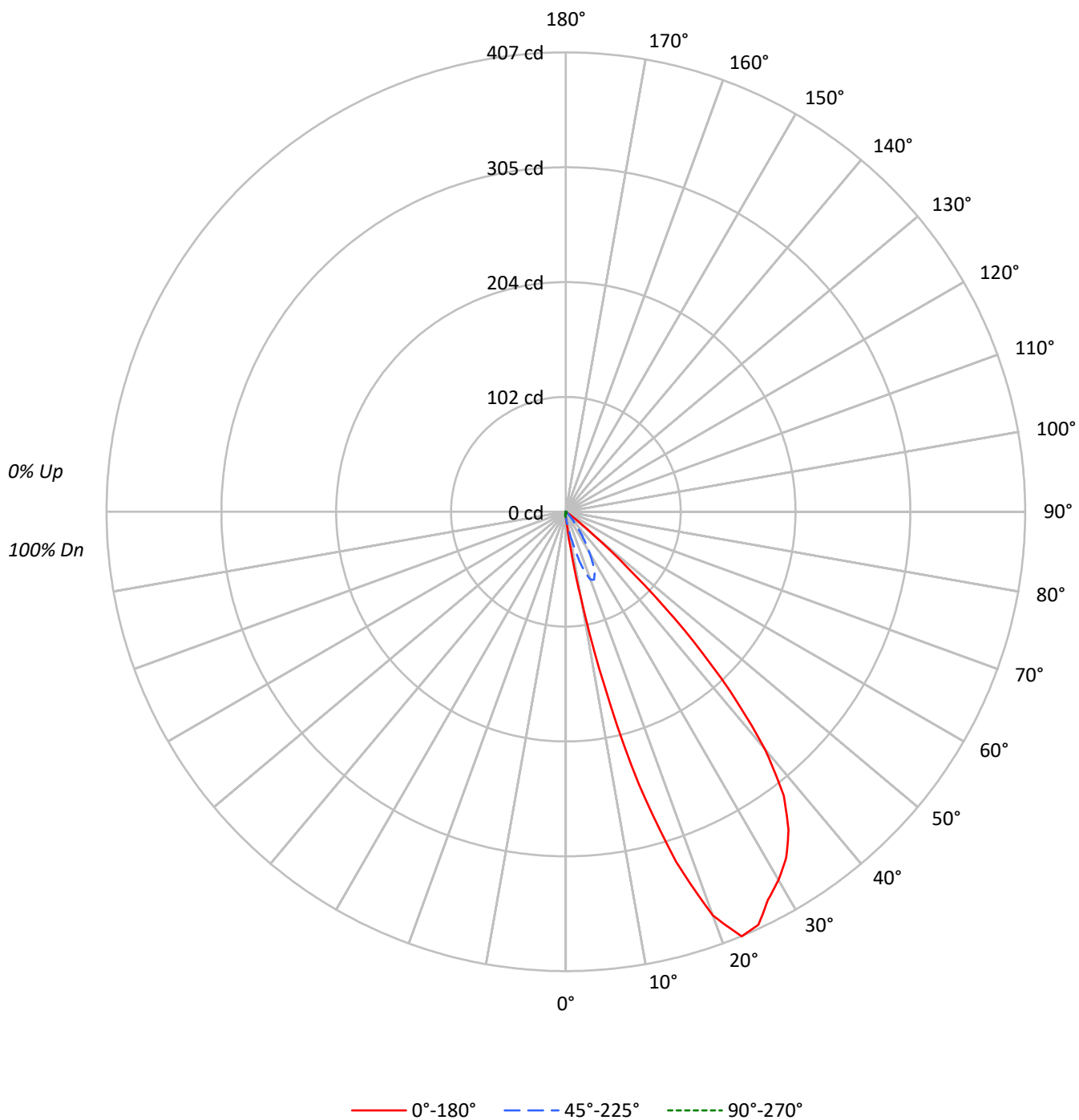
Lumens per Lamp: N/A
Luminaire Lumens: 96.1 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	80	87	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		52	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1009	1009	1009	1009	1009
5°	3016	2003	947	418	352
10°	17435	4253	735	200	134
15°	56731	9648	522	45	23
20°	88791	14935	327	0	0
25°	97675	14614	169	0	0
30°	95407	10533	76	0	0
35°	92086	5996	27	0	0
40°	78519	2548	0	0	0
45°	46082	961	31	0	31
50°	11189	171	34	34	102
55°	956	0	76	115	153
60°	44	0	88	132	175
65°	52	52	156	156	208
70°	64	64	192	192	256
75°	0	85	254	254	254
80°	0	126	379	253	253
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46082 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.9
10°-20°	13.2	13.7
20°-30°	33.5	34.9
30°-40°	33.4	34.8
40°-50°	13.5	14.1
50°-60°	1.0	1.0
60°-70°	0.2	0.2
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°	47.6	49.5
0°-40°	81.0	84.3
0°-60°	95.5	99.4
0°-90°	96.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	96.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	14	9	4	2	2	3
15°	250	42	2	0	0	73
25°	404	60	1	0	0	182
35°	344	22	0	0	0	211
45°	149	3	0	0	0	113
55°	2	0	0	0	0	7
65°	0	0	0	0	0	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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	7.5	7.6	7.6	7.5	7.4	7.4	7.1	7.0	6.8	6.5	5.6
5°	13.7	13.4	13.1	13.1	12.3	11.8	11.2	10.5	10.0	9.1	6.5
7.5°	31.1	28.9	28.3	27.5	24.6	22.2	19.5	17.1	14.9	13.1	7.2
10°	78.3	74.2	70.8	63.9	55.2	46.8	39.1	30.2	24.0	19.1	7.7
12.5°	157.8	152.3	145.7	133.1	116.8	96.1	77.6	58.0	40.7	28.2	7.9
15°	249.9	240.5	230.3	214.2	187.6	157.8	124.6	93.2	65.4	42.5	7.7
17.5°	325.0	321.3	306.1	284.2	251.7	213.3	172.3	129.5	88.2	55.7	7.2
20°	380.5	377.9	359.6	336.2	299.6	255.5	203.5	152.1	104.0	64.0	6.4
22.5°	407.2	406.8	393.5	369.7	330.8	280.9	223.6	165.2	109.0	65.2	5.4
25°	403.7	405.3	397.7	380.0	342.7	291.3	229.6	165.2	105.4	60.4	4.5
27.5°	387.7	388.8	384.0	370.5	335.7	283.8	221.2	154.6	94.9	51.8	3.7
30°	376.8	377.2	371.3	356.8	319.9	266.6	201.6	134.9	79.1	41.6	2.7
32.5°	363.4	363.3	356.5	339.8	299.2	242.5	176.7	111.5	60.8	31.6	1.6
35°	344.0	341.8	332.5	313.3	268.3	210.0	144.8	84.9	43.8	22.4	1.0
37.5°	317.2	311.5	298.3	272.6	225.0	164.7	107.4	59.7	29.9	14.8	0.6
40°	274.3	268.3	250.4	219.1	170.2	118.5	72.4	38.9	18.9	8.9	0.4
42.5°	215.1	211.0	186.8	155.7	112.4	75.6	43.5	23.0	10.6	5.1	0.1
45°	148.6	143.3	124.3	97.9	67.5	41.9	24.4	12.0	6.1	3.1	0.0
47.5°	82.0	75.4	64.5	50.7	33.9	22.0	12.3	6.5	3.4	1.5	0.0
50°	32.8	32.5	25.9	18.4	13.0	10.0	6.1	3.5	1.8	0.5	0.1
52.5°	11.5	11.5	9.9	8.1	6.3	4.6	3.1	1.7	0.6	0.2	0.1
55°	2.5	2.8	2.6	2.5	2.4	2.0	1.3	0.6	0.2	0.0	0.1
57.5°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.2	0.0	0.0	0.1
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.2
62.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2
65°	0.1	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	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
75°	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.0	0.0	0.0	0.0	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	0.0	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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	4.6	4.6	4.6	4.6	4.6
2.5°	4.6	3.6	3.0	2.6	2.5
5°	4.3	2.7	1.9	1.7	1.6
7.5°	3.9	2.0	1.3	1.1	1.0
10°	3.3	1.5	0.9	0.6	0.6
12.5°	2.8	1.1	0.5	0.3	0.2
15°	2.3	0.7	0.2	0.1	0.1
17.5°	1.8	0.4	0.0	0.0	0.0
20°	1.4	0.2	0.0	0.0	0.0
22.5°	1.1	0.1	0.0	0.0	0.0
25°	0.7	0.0	0.0	0.0	0.0
27.5°	0.4	0.0	0.0	0.0	0.0
30°	0.3	0.0	0.0	0.0	0.0
32.5°	0.1	0.0	0.0	0.0	0.0
35°	0.1	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.1	0.0	0.0	0.1	0.1
47.5°	0.1	0.1	0.1	0.2	0.2
50°	0.1	0.1	0.1	0.2	0.3
52.5°	0.2	0.1	0.2	0.3	0.3
55°	0.2	0.2	0.3	0.4	0.4
57.5°	0.2	0.2	0.3	0.4	0.4
60°	0.2	0.2	0.3	0.4	0.4
62.5°	0.3	0.3	0.3	0.4	0.4
65°	0.3	0.3	0.3	0.4	0.4
67.5°	0.3	0.3	0.3	0.4	0.4
70°	0.3	0.3	0.3	0.4	0.4
72.5°	0.4	0.3	0.3	0.4	0.4
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.2	0.3	0.3
80°	0.3	0.2	0.2	0.2	0.2
82.5°	0.3	0.2	0.2	0.2	0.2
85°	0.3	0.2	0.1	0.1	0.1
87.5°	0.3	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)