

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: P1335166

Luminaire Tested: P3A02R309840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335166
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: P3A02R309840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

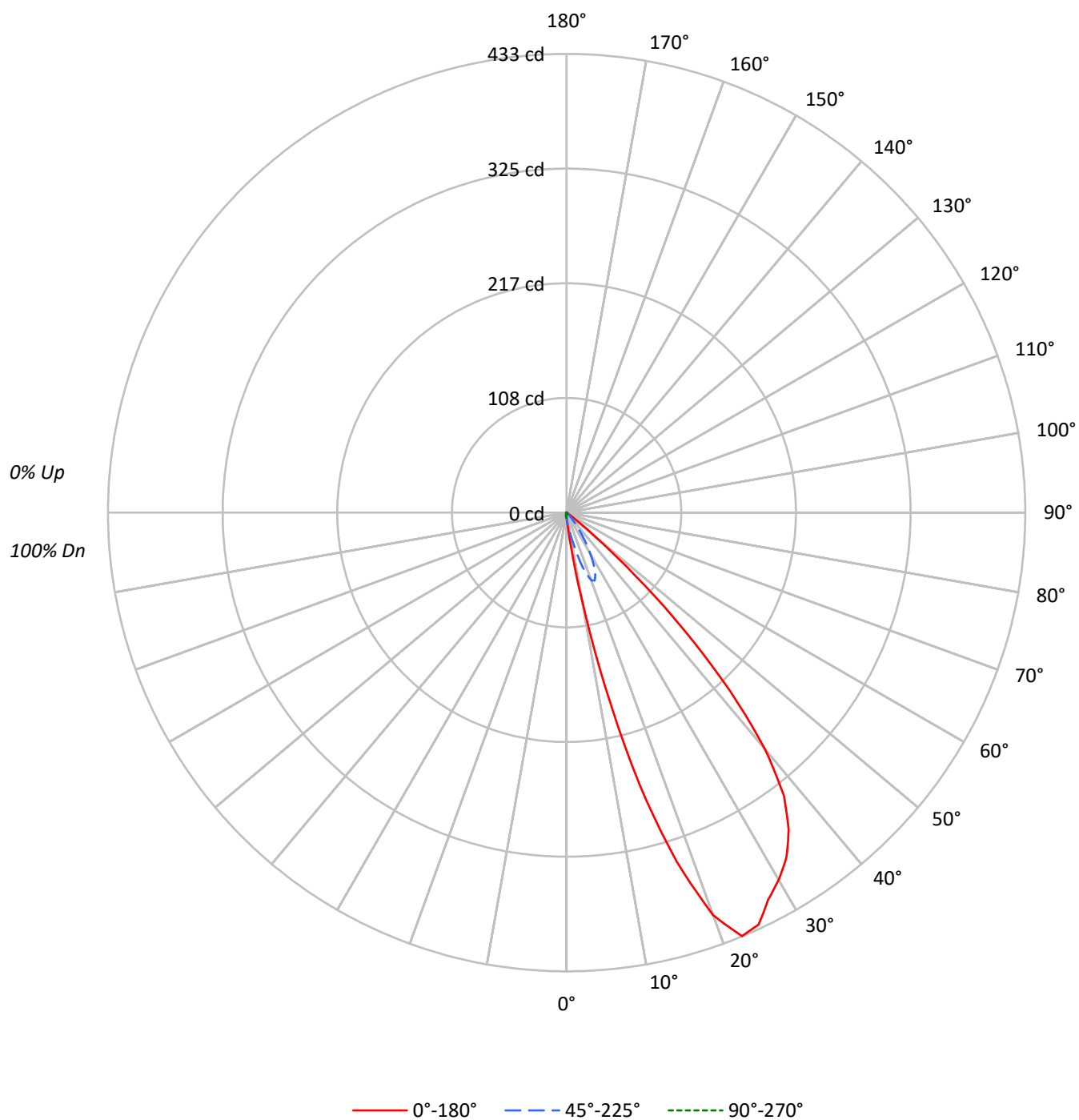
Lumens per Lamp: N/A
Luminaire Lumens: 102.1 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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	92	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°	1053	1053	1053	1053	1053
5°	3192	2135	1013	462	374
10°	18526	4520	779	200	156
15°	60273	10261	545	45	23
20°	94322	15868	350	0	0
25°	103772	15509	169	0	0
30°	101357	11192	76	0	0
35°	97842	6371	27	0	0
40°	83442	2691	0	0	0
45°	48966	1023	31	0	31
50°	11906	205	34	34	102
55°	1032	0	76	115	153
60°	44	0	88	132	219
65°	52	52	156	156	259
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: 48966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.9
10°-20°	14.0	13.7
20°-30°	35.6	34.9
30°-40°	35.5	34.8
40°-50°	14.4	14.1
50°-60°	1.0	1.0
60°-70°	0.2	0.2
70°-80°	0.2	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°	50.5	49.5
0°-40°	86.0	84.3
0°-60°	101.4	99.4
0°-90°	102.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	102.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	14	10	5	2	2	3
15°	266	45	2	0	0	77
25°	429	64	1	0	0	194
35°	366	24	0	0	0	224
45°	158	3	0	0	0	120
55°	3	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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
2.5°	8.0	8.1	8.1	7.9	7.8	7.8	7.5	7.5	7.2	6.9	6.0
5°	14.5	14.3	13.9	13.9	13.0	12.6	11.9	11.2	10.6	9.7	6.9
7.5°	33.0	30.8	30.1	29.3	26.1	23.6	20.7	18.2	15.8	13.9	7.6
10°	83.2	78.9	75.2	67.9	58.6	49.8	41.6	32.1	25.5	20.3	8.2
12.5°	167.7	161.8	154.8	141.4	124.1	102.1	82.5	61.6	43.2	29.9	8.4
15°	265.5	255.6	244.7	227.6	199.4	167.7	132.4	99.1	69.4	45.2	8.2
17.5°	345.3	341.4	325.3	302.0	267.4	226.6	183.1	137.6	93.7	59.2	7.6
20°	404.2	401.5	382.0	357.3	318.3	271.5	216.2	161.6	110.5	68.0	6.8
22.5°	432.7	432.2	418.1	392.8	351.5	298.4	237.6	175.5	115.8	69.3	5.7
25°	428.9	430.6	422.6	403.8	364.2	309.5	243.9	175.5	111.9	64.1	4.8
27.5°	412.0	413.1	408.0	393.6	356.7	301.5	235.1	164.2	100.8	55.1	3.9
30°	400.3	400.8	394.5	379.1	339.9	283.2	214.2	143.3	84.1	44.2	2.9
32.5°	386.1	386.1	378.8	361.1	317.9	257.6	187.7	118.5	64.6	33.6	1.7
35°	365.5	363.1	353.2	332.8	285.1	223.1	153.9	90.2	46.5	23.8	1.0
37.5°	337.0	331.0	317.0	289.7	239.1	174.9	114.1	63.4	31.8	15.8	0.7
40°	291.5	285.0	266.0	232.8	180.8	125.9	76.9	41.3	20.0	9.4	0.4
42.5°	228.5	224.2	198.5	165.4	119.4	80.3	46.2	24.4	11.3	5.4	0.1
45°	157.9	152.2	132.1	104.0	71.7	44.6	25.9	12.8	6.4	3.3	0.0
47.5°	87.1	80.2	68.5	53.9	36.1	23.4	13.0	6.9	3.6	1.6	0.0
50°	34.9	34.6	27.5	19.6	13.8	10.6	6.5	3.7	1.9	0.6	0.1
52.5°	12.2	12.2	10.5	8.6	6.7	4.8	3.3	1.8	0.7	0.2	0.1
55°	2.7	3.0	2.8	2.6	2.5	2.1	1.4	0.7	0.2	0.0	0.1
57.5°	0.3	0.3	0.3	0.4	0.5	0.5	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°	4.8	4.8	4.8	4.8	4.8
2.5°	4.8	3.8	3.2	2.8	2.7
5°	4.6	2.9	2.1	1.8	1.7
7.5°	4.1	2.1	1.4	1.1	1.0
10°	3.5	1.6	0.9	0.7	0.7
12.5°	3.0	1.2	0.6	0.3	0.2
15°	2.4	0.7	0.2	0.1	0.1
17.5°	1.9	0.5	0.0	0.0	0.0
20°	1.5	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°	0.5	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	0.5
62.5°	0.3	0.3	0.3	0.4	0.4
65°	0.3	0.3	0.3	0.4	0.5
67.5°	0.3	0.3	0.3	0.4	0.5
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)