

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: P1337787

Luminaire Tested: P3A05R309024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337787
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: P3A05R309024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

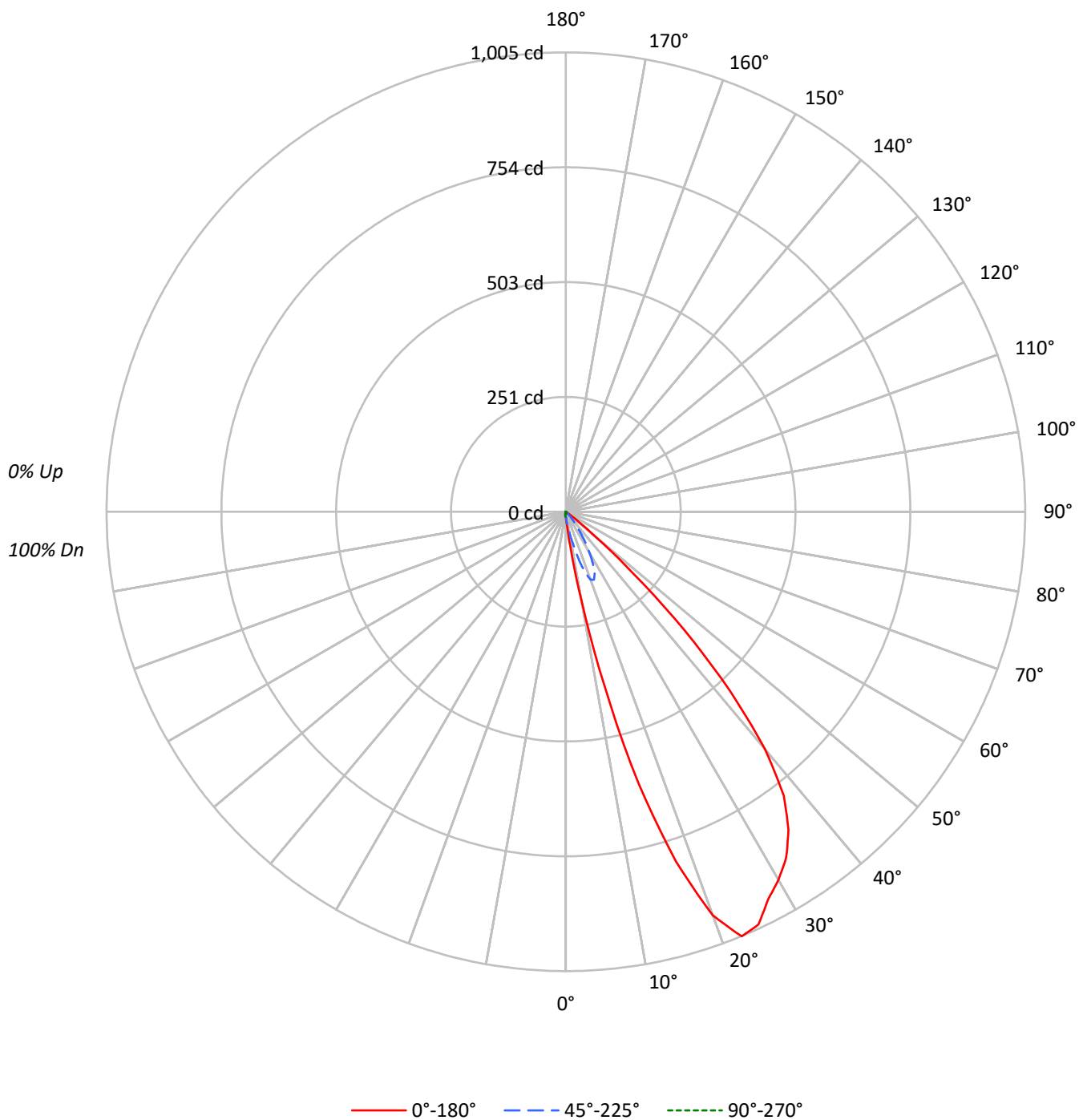
Lumens per Lamp: N/A
Luminaire Lumens: 236.9 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.49 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	92	104	98	94	91	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	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	64	58	80	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	67	55	48	43	65	55	48	43	53	47	43		53	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°	2478	2478	2478	2478	2478
5°	7440	4953	2333	1057	858
10°	43063	10510	1826	490	334
15°	140069	23837	1271	91	45
20°	219166	36893	817	0	0
25°	241127	36050	411	0	0
30°	235505	26004	152	0	0
35°	227298	14777	54	0	0
40°	193849	6269	0	0	0
45°	113779	2357	62	0	62
50°	27632	443	68	68	205
55°	2409	0	153	229	344
60°	88	0	175	263	482
65°	104	104	311	311	571
70°	128	128	385	385	577
75°	0	169	508	508	508
80°	0	253	758	505	505
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 113779 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.9
10°-20°	32.6	13.7
20°-30°	82.8	34.9
30°-40°	82.5	34.8
40°-50°	33.4	14.1
50°-60°	2.3	1.0
60°-70°	0.5	0.2
70°-80°	0.5	0.2
80°-90°	0.3	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°	117.4	49.6
0°-40°	199.9	84.4
0°-60°	235.6	99.5
0°-90°	236.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	34	22	11	5	4	8
15°	617	105	6	0	0	180
25°	997	149	2	0	0	450
35°	849	55	0	0	0	520
45°	367	8	0	0	0	280
55°	6	0	0	1	1	16
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	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°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	18.6	18.8	18.8	18.4	18.2	18.2	17.5	17.3	16.7	16.0	13.9
5°	33.8	33.1	32.3	32.3	30.3	29.2	27.7	26.0	24.7	22.5	16.0
7.5°	76.7	71.5	70.0	68.0	60.6	54.8	48.1	42.2	36.8	32.3	17.8
10°	193.4	183.2	174.8	157.7	136.2	115.6	96.6	74.5	59.3	47.2	19.1
12.5°	389.6	376.0	359.7	328.5	288.5	237.1	191.7	143.1	100.5	69.5	19.5
15°	617.0	593.8	568.5	528.8	463.2	389.6	307.5	230.2	161.3	105.0	19.1
17.5°	802.4	793.3	755.8	701.7	621.3	526.5	425.3	319.6	217.6	137.5	17.8
20°	939.2	933.0	887.7	830.1	739.6	630.9	502.4	375.5	256.8	158.1	15.8
22.5°	1005.3	1004.2	971.5	912.6	816.7	693.4	552.0	407.8	269.0	160.9	13.2
25°	996.6	1000.5	981.9	938.2	846.1	719.2	566.7	407.8	260.1	149.0	11.0
27.5°	957.2	959.8	948.1	914.5	828.8	700.6	546.2	381.6	234.3	128.0	9.1
30°	930.1	931.2	916.7	880.8	789.8	658.1	497.7	333.1	195.3	102.7	6.7
32.5°	897.2	897.0	880.1	839.0	738.7	598.6	436.2	275.3	150.1	78.0	3.9
35°	849.1	843.7	820.8	773.3	662.5	518.5	357.5	209.6	108.1	55.2	2.4
37.5°	783.1	769.0	736.5	673.1	555.5	406.5	265.1	147.3	73.8	36.6	1.5
40°	677.2	662.3	618.1	541.0	420.1	292.6	178.7	95.9	46.6	21.9	0.9
42.5°	531.0	520.8	461.3	384.4	277.4	186.7	107.4	56.7	26.2	12.6	0.2
45°	366.9	353.6	306.9	241.7	166.5	103.5	60.2	29.7	14.9	7.6	0.0
47.5°	202.5	186.2	159.2	125.2	83.8	54.4	30.3	16.0	8.4	3.7	0.0
50°	81.0	80.3	63.9	45.5	32.1	24.7	15.2	8.7	4.3	1.3	0.2
52.5°	28.4	28.4	24.5	19.9	15.6	11.3	7.6	4.1	1.5	0.4	0.2
55°	6.3	6.9	6.5	6.1	5.8	5.0	3.2	1.5	0.4	0.0	0.2
57.5°	0.6	0.6	0.6	0.9	1.1	1.1	0.9	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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°	11.3	11.3	11.3	11.3	11.3
2.5°	11.3	8.9	7.4	6.5	6.3
5°	10.6	6.7	4.8	4.1	3.9
7.5°	9.5	5.0	3.2	2.6	2.4
10°	8.2	3.7	2.2	1.5	1.5
12.5°	6.9	2.8	1.3	0.6	0.4
15°	5.6	1.7	0.4	0.2	0.2
17.5°	4.3	1.1	0.0	0.0	0.0
20°	3.5	0.4	0.0	0.0	0.0
22.5°	2.6	0.2	0.0	0.0	0.0
25°	1.7	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	0.0	0.0	0.0
30°	0.6	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	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°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.6
52.5°	0.4	0.2	0.4	0.6	0.6
55°	0.4	0.4	0.6	0.9	0.9
57.5°	0.4	0.4	0.6	0.9	0.9
60°	0.4	0.4	0.6	0.9	1.1
62.5°	0.6	0.6	0.6	0.9	0.9
65°	0.6	0.6	0.6	0.9	1.1
67.5°	0.6	0.6	0.6	0.9	1.1
70°	0.6	0.6	0.6	0.9	0.9
72.5°	0.9	0.6	0.6	0.9	0.9
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.4	0.6	0.6
80°	0.6	0.4	0.4	0.4	0.4
82.5°	0.6	0.4	0.4	0.4	0.4
85°	0.6	0.4	0.2	0.2	0.2
87.5°	0.6	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)