

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: P1337801

Luminaire Tested: P3A05R309027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337801
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: P3A05R309027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

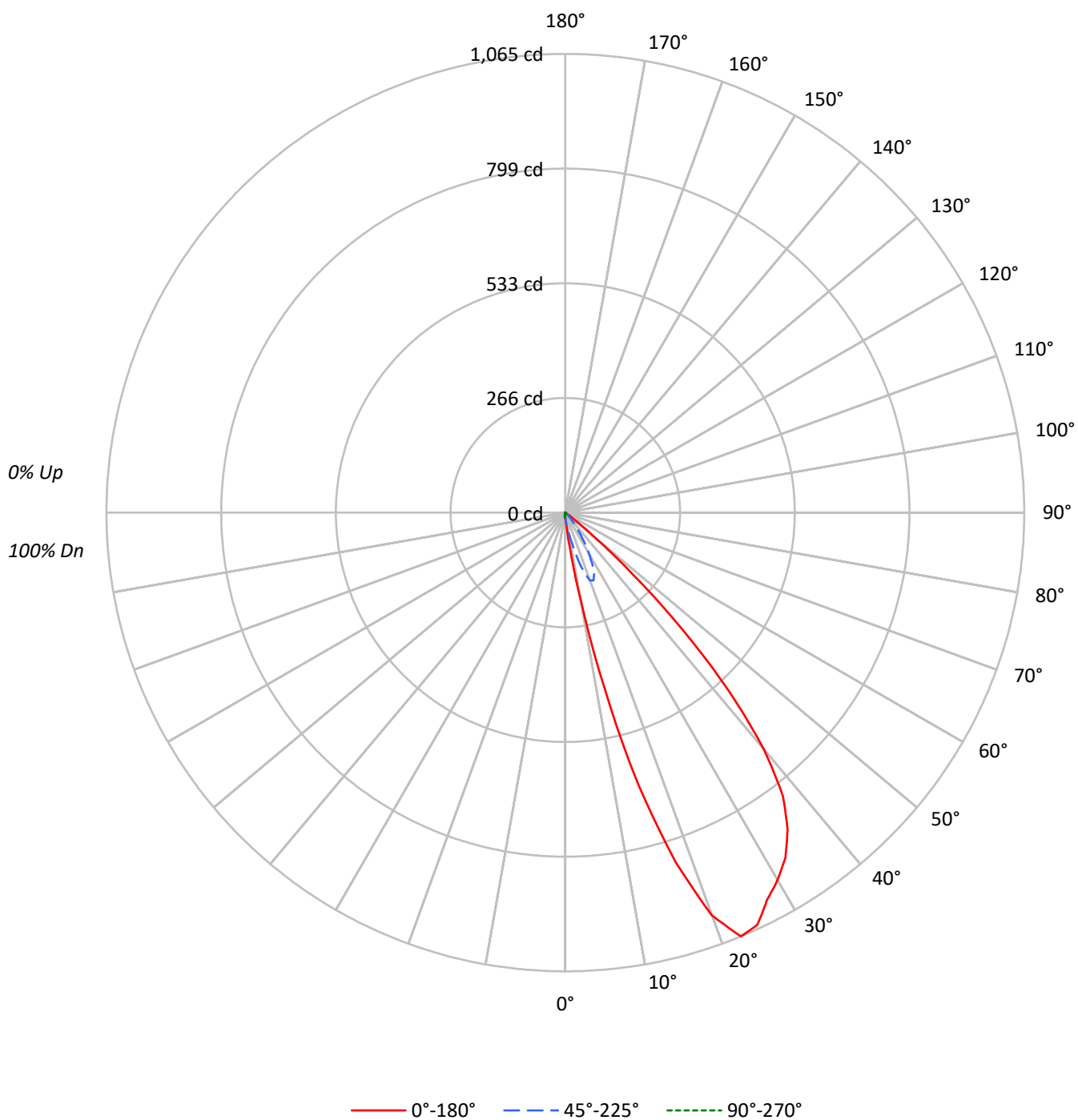
Lumens per Lamp: N/A
Luminaire Lumens: 251.0 lumens
Efficiency: N/A
Efficacy: 34.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	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	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	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°	2609	2609	2609	2609	2609
5°	7880	5261	2465	1101	902
10°	45601	11133	1937	512	356
15°	148332	25244	1362	114	45
20°	232117	39063	863	0	0
25°	255378	38180	436	0	0
30°	249431	27523	177	0	0
35°	240736	15660	54	0	0
40°	205299	6641	0	0	0
45°	120478	2481	62	0	62
50°	29270	478	68	68	239
55°	2561	0	191	268	344
60°	88	0	219	307	482
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	593	593
80°	0	253	884	631	631
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 120478 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.9
10°-20°	34.5	13.7
20°-30°	87.7	34.9
30°-40°	87.4	34.8
40°-50°	35.4	14.1
50°-60°	2.4	1.0
60°-70°	0.5	0.2
70°-80°	0.6	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°	124.4	49.5
0°-40°	211.7	84.4
0°-60°	249.6	99.4
0°-90°	251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	36	24	11	5	4	8
15°	653	111	6	0	0	190
25°	1056	158	2	0	0	477
35°	899	58	0	0	0	551
45°	388	8	0	0	0	296
55°	7	0	0	1	1	17
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°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	19.7	20.0	20.0	19.5	19.3	19.3	18.6	18.3	17.7	17.0	14.7
5°	35.8	35.1	34.2	34.2	32.1	31.0	29.4	27.5	26.1	23.9	17.0
7.5°	81.2	75.7	74.1	72.0	64.2	58.0	50.9	44.7	39.0	34.2	18.8
10°	204.8	194.0	185.1	167.0	144.3	122.5	102.3	78.9	62.8	50.0	20.2
12.5°	412.6	398.2	381.0	347.9	305.5	251.1	203.0	151.6	106.4	73.6	20.6
15°	653.4	628.9	602.1	560.1	490.6	412.6	325.7	243.8	170.9	111.2	20.2
17.5°	849.8	840.1	800.5	743.1	658.0	557.6	450.5	338.5	230.5	145.6	18.8
20°	994.7	988.1	940.1	879.1	783.3	668.1	532.1	397.7	272.0	167.4	16.7
22.5°	1064.7	1063.5	1028.9	966.5	864.9	734.4	584.6	431.9	284.9	170.4	14.0
25°	1055.5	1059.6	1039.9	993.6	896.1	761.7	600.2	431.9	275.5	157.8	11.7
27.5°	1013.8	1016.5	1004.1	968.6	877.7	742.0	578.4	404.1	248.2	135.5	9.6
30°	985.1	986.2	970.9	932.8	836.5	697.0	527.1	352.8	206.9	108.7	7.1
32.5°	950.2	950.0	932.1	888.5	782.3	633.9	461.9	291.5	158.9	82.6	4.1
35°	899.3	893.6	869.3	819.0	701.6	549.1	378.7	222.0	114.4	58.5	2.5
37.5°	829.4	814.4	780.0	712.8	588.3	430.5	280.7	156.0	78.2	38.8	1.6
40°	717.2	701.4	654.6	572.9	445.0	309.9	189.2	101.6	49.3	23.2	0.9
42.5°	562.4	551.6	488.5	407.1	293.8	197.7	113.8	60.1	27.8	13.3	0.2
45°	388.5	374.5	325.0	256.0	176.4	109.6	63.8	31.4	15.8	8.0	0.0
47.5°	214.4	197.2	168.6	132.6	88.8	57.6	32.1	17.0	8.9	3.9	0.0
50°	85.8	85.1	67.7	48.2	33.9	26.1	16.1	9.2	4.6	1.4	0.2
52.5°	30.0	30.0	25.9	21.1	16.5	11.9	8.0	4.4	1.6	0.5	0.2
55°	6.7	7.3	6.9	6.4	6.2	5.3	3.4	1.6	0.5	0.0	0.2
57.5°	0.7	0.7	0.7	0.9	1.1	1.1	0.9	0.5	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	0.5
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.5
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
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°	11.9	11.9	11.9	11.9	11.9
2.5°	11.9	9.4	7.8	6.9	6.7
5°	11.2	7.1	5.0	4.4	4.1
7.5°	10.1	5.3	3.4	2.8	2.5
10°	8.7	3.9	2.3	1.6	1.6
12.5°	7.3	3.0	1.4	0.7	0.5
15°	6.0	1.8	0.5	0.2	0.2
17.5°	4.6	1.1	0.0	0.0	0.0
20°	3.7	0.5	0.0	0.0	0.0
22.5°	2.8	0.2	0.0	0.0	0.0
25°	1.8	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	0.0	0.0	0.0
30°	0.7	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	0.5	0.5
50°	0.2	0.2	0.2	0.5	0.7
52.5°	0.5	0.2	0.5	0.7	0.7
55°	0.5	0.5	0.7	0.9	0.9
57.5°	0.5	0.5	0.7	0.9	0.9
60°	0.5	0.5	0.7	0.9	1.1
62.5°	0.7	0.7	0.7	0.9	0.9
65°	0.7	0.7	0.7	0.9	1.1
67.5°	0.7	0.7	0.7	0.9	1.1
70°	0.7	0.7	0.7	0.9	0.9
72.5°	0.9	0.7	0.7	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.5	0.7	0.7
80°	0.7	0.5	0.5	0.5	0.5
82.5°	0.7	0.5	0.5	0.5	0.5
85°	0.7	0.5	0.2	0.2	0.2
87.5°	0.7	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)