

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: P1336026

Luminaire Tested: P3A02R459040DE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459040DE010 E3A301H
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

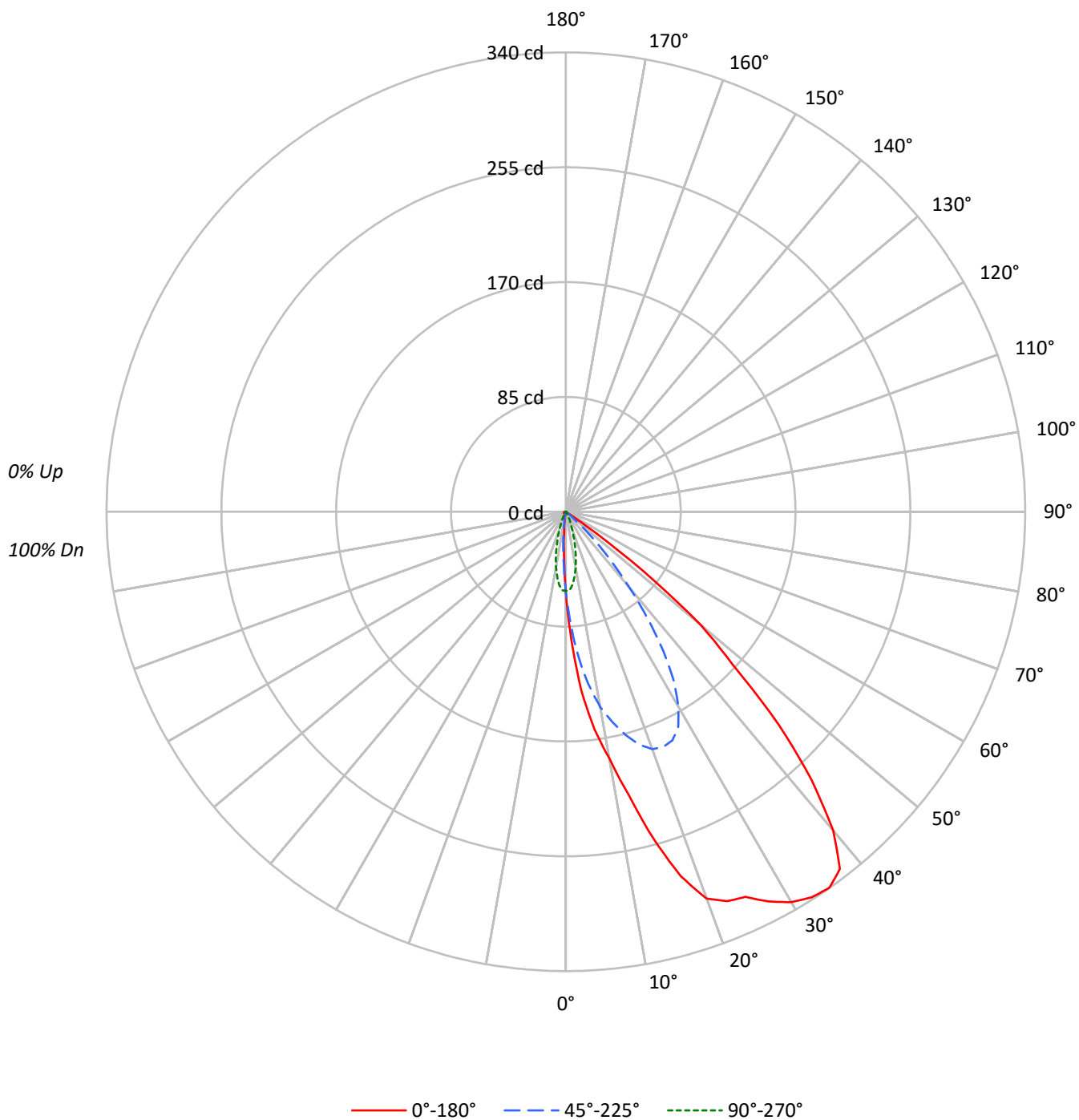
Lumens per Lamp: N/A
Luminaire Lumens: 154.0 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	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°	12850	12850	12850	12850	12850
5°	29276	23751	12018	4821	3280
10°	41260	32642	9285	1069	490
15°	56868	38820	5925	341	295
20°	71103	43614	3104	233	233
25°	76093	45148	1428	194	218
30°	84469	42158	658	203	228
35°	90989	33622	214	214	268
40°	88051	20839	115	258	344
45°	69123	9830	124	310	403
50°	44416	1126	171	409	512
55°	6729	115	191	497	650
60°	132	132	219	570	658
65°	156	156	259	623	778
70°	192	192	321	641	898
75°	85	254	424	763	1017
80°	126	379	505	758	1137
85°	0	252	755	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 69123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	4.2
10°-20°	23.2	15.1
20°-30°	40.7	26.4
30°-40°	46.3	30.0
40°-50°	30.0	19.4
50°-60°	5.9	3.8
60°-70°	0.7	0.5
70°-80°	0.6	0.4
80°-90°	0.3	0.2
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°	70.3	45.7
0°-40°	116.6	75.7
0°-60°	152.4	99.0
0°-90°	154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	154.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	133	108	55	22	15	14
15°	250	171	26	2	1	72
25°	314	187	6	1	1	147
35°	340	126	1	1	1	209
45°	223	32	0	1	1	168
55°	18	0	0	1	2	34
65°	0	0	0	1	2	0
75°	0	0	0	1	1	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°	50°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	95.2	94.9	95.3	92.7	92.6	90.7	90.2	88.0	85.0	83.6	80.2
5°	133.0	131.8	131.8	128.7	127.6	125.4	121.7	117.1	113.2	107.9	102.3
7.5°	162.3	162.0	162.0	159.3	156.7	153.6	148.6	143.3	137.2	129.0	120.8
10°	185.3	185.7	184.6	182.1	178.4	175.0	169.1	162.7	155.1	146.6	135.6
12.5°	214.4	211.6	210.7	205.2	200.4	194.0	186.9	179.5	170.1	159.4	147.1
15°	250.5	246.9	243.3	235.9	228.0	218.0	207.0	196.1	184.0	171.0	155.6
17.5°	282.7	282.7	277.9	266.3	256.0	241.4	226.4	212.0	197.7	180.6	161.2
20°	304.7	303.6	300.0	291.5	279.7	263.1	243.7	223.5	206.2	186.9	164.5
22.5°	311.9	311.7	311.8	306.8	297.4	280.1	256.3	232.5	210.8	188.4	162.9
25°	314.5	315.0	316.3	314.4	307.3	290.0	264.0	236.7	212.2	186.6	157.0
27.5°	325.2	324.2	325.6	324.3	316.3	295.7	265.6	235.7	209.2	180.1	146.4
30°	333.6	333.3	335.8	334.6	324.2	299.3	264.2	231.8	201.6	166.5	129.8
32.5°	338.3	338.5	339.1	334.3	318.9	291.5	257.2	224.0	187.3	148.9	108.2
35°	339.9	339.1	335.5	323.8	302.7	273.3	240.1	205.3	167.8	125.6	85.5
37.5°	333.2	329.2	319.9	302.4	277.9	250.5	218.2	181.7	141.2	99.2	63.8
40°	307.6	302.3	290.6	272.7	249.9	223.3	190.2	152.1	109.5	72.8	44.8
42.5°	269.2	266.5	254.2	238.7	219.3	192.5	158.4	119.8	81.0	50.2	28.6
45°	222.9	219.5	211.7	198.0	182.8	154.7	122.9	85.8	55.3	31.7	14.2
47.5°	167.2	167.4	162.1	151.7	136.8	113.3	84.1	57.6	34.6	16.4	3.2
50°	130.2	128.4	120.9	110.2	92.9	75.5	54.3	36.3	18.3	3.3	0.3
52.5°	72.1	73.3	69.3	65.8	56.8	45.1	32.1	18.4	3.9	0.4	0.3
55°	17.6	18.7	17.9	18.3	18.9	16.9	13.0	3.6	0.4	0.3	0.3
57.5°	0.4	0.4	0.4	0.4	0.6	0.9	0.9	0.3	0.3	0.3	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	78.6	76.1	71.6	58.2	46.8	37.7	32.3	31.8
5°	97.2	90.7	81.1	54.6	34.5	21.9	15.8	14.9
7.5°	112.0	102.8	88.1	48.7	23.6	11.2	6.2	5.2
10°	124.3	111.1	91.7	41.7	14.8	4.8	2.6	2.2
12.5°	132.7	116.8	92.3	34.0	8.5	2.3	1.7	1.5
15°	138.1	118.6	89.3	26.1	4.8	1.5	1.4	1.3
17.5°	140.3	117.1	83.3	18.9	2.6	1.2	1.2	1.2
20°	139.2	112.0	74.6	13.3	1.7	1.0	1.0	1.0
22.5°	134.3	103.4	63.6	8.9	1.2	0.9	0.9	0.9
25°	124.7	91.7	52.0	5.9	0.8	0.8	0.9	0.9
27.5°	110.2	77.3	39.8	4.0	0.6	0.8	0.9	0.9
30°	92.1	61.2	28.6	2.6	0.6	0.8	0.8	0.9
32.5°	73.2	44.6	18.8	1.5	0.5	0.8	0.9	1.0
35°	53.1	30.4	12.0	0.8	0.6	0.8	0.9	1.0
37.5°	37.2	19.8	7.0	0.5	0.6	0.8	1.0	1.0
40°	24.2	11.1	2.6	0.4	0.6	0.9	1.0	1.2
42.5°	12.6	3.9	0.5	0.4	0.6	0.9	1.2	1.3
45°	3.2	0.5	0.1	0.4	0.8	1.0	1.3	1.3
47.5°	0.4	0.1	0.1	0.5	0.8	1.2	1.3	1.4
50°	0.1	0.3	0.3	0.5	0.8	1.2	1.4	1.5
52.5°	0.3	0.3	0.3	0.5	0.9	1.2	1.5	1.7
55°	0.3	0.3	0.3	0.5	0.9	1.3	1.5	1.7
57.5°	0.3	0.3	0.3	0.5	0.9	1.3	1.5	1.5
60°	0.3	0.3	0.3	0.5	0.9	1.3	1.5	1.5
62.5°	0.3	0.3	0.4	0.5	0.9	1.2	1.5	1.5
65°	0.3	0.4	0.4	0.5	0.9	1.2	1.4	1.5
67.5°	0.3	0.3	0.4	0.5	0.9	1.2	1.4	1.5
70°	0.3	0.3	0.4	0.5	0.8	1.0	1.3	1.4
72.5°	0.3	0.3	0.4	0.5	0.8	1.0	1.2	1.3
75°	0.3	0.3	0.4	0.5	0.6	0.9	1.2	1.2
77.5°	0.3	0.3	0.4	0.4	0.6	0.8	1.0	1.0
80°	0.3	0.3	0.4	0.4	0.5	0.6	0.8	0.9
82.5°	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
87.5°	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)