

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: P1336106

Luminaire Tested: P3A02R459740DE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336106
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: P3A02R459740DE010 E3A301H
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

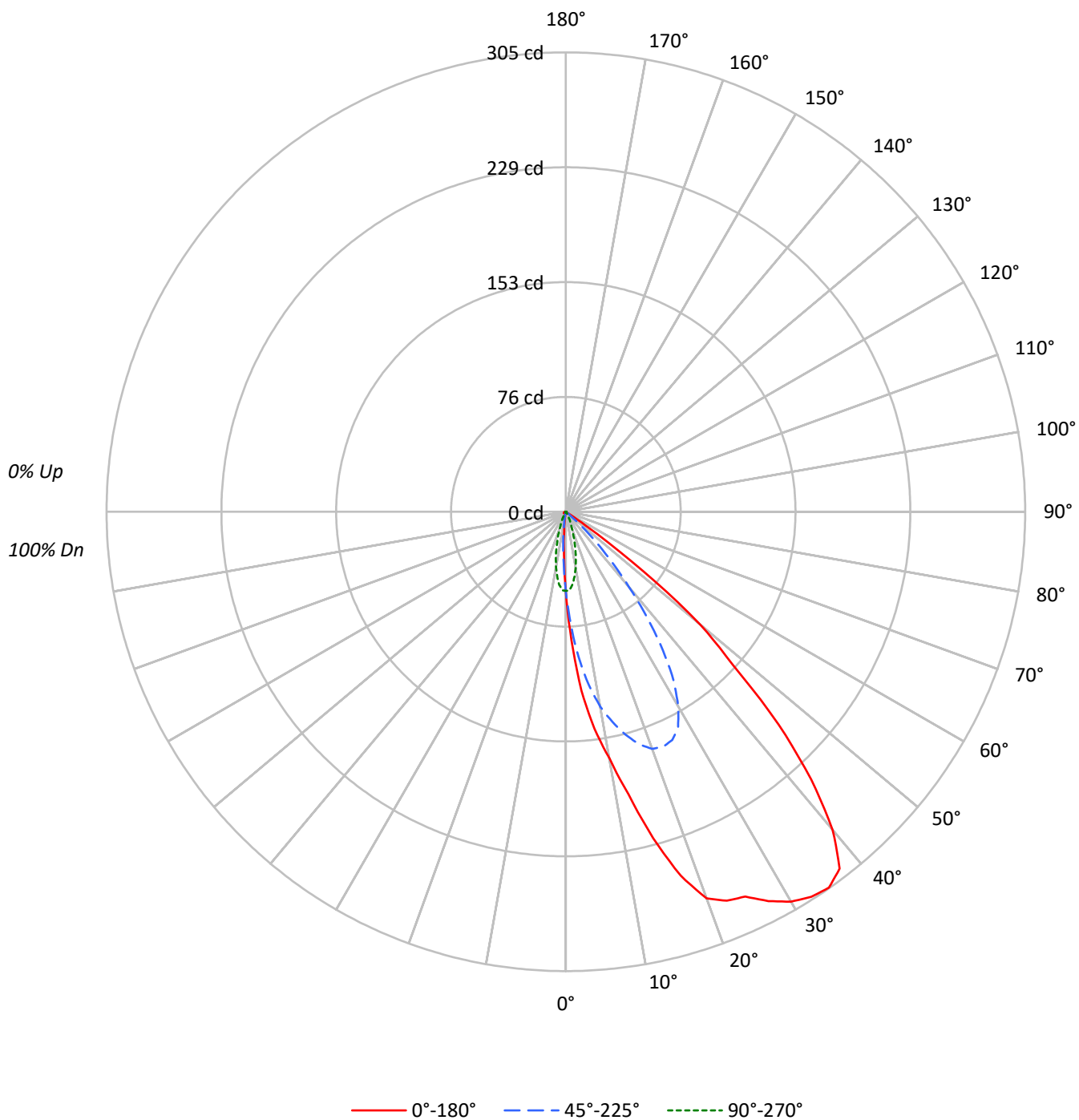
Lumens per Lamp: N/A
Luminaire Lumens: 138.0 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11512	11512	11512	11512	11512
5°	26238	21285	10764	4314	2950
10°	36984	29236	8328	957	445
15°	50965	34802	5312	318	272
20°	63729	39087	2777	210	210
25°	68181	40454	1282	169	194
30°	75683	37778	582	177	203
35°	81539	30115	187	187	241
40°	78891	18664	86	229	286
45°	61960	8807	93	279	372
50°	39811	1023	171	341	478
55°	6040	76	191	459	573
60°	88	88	219	526	614
65°	104	104	259	519	726
70°	128	128	321	577	833
75°	85	169	424	678	847
80°	126	253	379	758	1010
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61960 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	4.2
10°-20°	20.8	15.1
20°-30°	36.5	26.5
30°-40°	41.5	30.0
40°-50°	26.8	19.5
50°-60°	5.3	3.8
60°-70°	0.6	0.5
70°-80°	0.5	0.4
80°-90°	0.2	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°	63.0	45.7
0°-40°	104.5	75.7
0°-60°	136.6	99.0
0°-90°	138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	138.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	119	97	49	20	13	13
15°	224	153	23	1	1	65
25°	282	167	5	1	1	132
35°	305	112	1	1	1	187
45°	200	28	0	1	1	151
55°	16	0	0	1	2	30
65°	0	0	0	1	1	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°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
2.5°	85.3	85.1	85.4	83.1	83.0	81.2	80.8	78.8	76.2	74.9	71.9
5°	119.2	118.1	118.1	115.3	114.4	112.4	109.1	104.9	101.4	96.7	91.6
7.5°	145.4	145.2	145.2	142.8	140.5	137.7	133.2	128.5	122.9	115.6	108.3
10°	166.1	166.4	165.4	163.2	159.8	156.8	151.5	145.8	139.0	131.3	121.5
12.5°	192.2	189.6	188.8	183.8	179.6	173.8	167.5	160.9	152.5	142.9	131.8
15°	224.5	221.2	218.0	211.4	204.3	195.4	185.5	175.8	164.9	153.3	139.4
17.5°	253.3	253.3	249.1	238.7	229.4	216.3	202.9	190.0	177.2	161.8	144.5
20°	273.1	272.0	268.8	261.2	250.7	235.8	218.4	200.2	184.8	167.5	147.4
22.5°	279.5	279.3	279.4	274.9	266.5	251.0	229.7	208.3	188.9	168.8	146.0
25°	281.8	282.3	283.4	281.7	275.4	259.9	236.6	212.1	190.2	167.2	140.7
27.5°	291.4	290.5	291.8	290.6	283.4	265.0	238.0	211.2	187.4	161.3	131.2
30°	298.9	298.7	300.9	299.8	290.5	268.2	236.7	207.7	180.6	149.2	116.3
32.5°	303.2	303.3	303.9	299.6	285.8	261.2	230.5	200.7	167.8	133.4	96.9
35°	304.6	303.9	300.6	290.1	271.2	244.9	215.1	184.0	150.4	112.5	76.6
37.5°	298.6	295.0	286.7	271.0	249.1	224.5	195.5	162.8	126.5	88.9	57.1
40°	275.6	270.9	260.4	244.3	223.9	200.1	170.5	136.3	98.1	65.2	40.2
42.5°	241.2	238.8	227.8	213.9	196.5	172.5	142.0	107.3	72.6	45.0	25.6
45°	199.8	196.7	189.7	177.4	163.8	138.6	110.1	76.9	49.5	28.4	12.7
47.5°	149.8	150.0	145.3	136.0	122.6	101.6	75.4	51.6	31.0	14.7	2.9
50°	116.7	115.1	108.4	98.8	83.2	67.6	48.7	32.5	16.4	3.0	0.2
52.5°	64.6	65.7	62.1	59.0	50.9	40.4	28.7	16.5	3.5	0.3	0.2
55°	15.8	16.7	16.0	16.4	17.0	15.1	11.7	3.2	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.6	0.8	0.8	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	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	0.1	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°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
2.5°	70.4	68.2	64.2	52.2	41.9	33.8	29.0	28.5
5°	87.1	81.2	72.7	48.9	30.9	19.6	14.2	13.4
7.5°	100.4	92.1	78.9	43.6	21.1	10.0	5.5	4.6
10°	111.4	99.6	82.2	37.4	13.3	4.3	2.3	2.0
12.5°	118.9	104.7	82.7	30.5	7.6	2.1	1.5	1.4
15°	123.7	106.3	80.0	23.4	4.3	1.4	1.3	1.2
17.5°	125.7	104.9	74.7	17.0	2.3	1.0	1.0	1.0
20°	124.8	100.4	66.8	11.9	1.5	0.9	0.9	0.9
22.5°	120.4	92.7	57.0	8.0	1.0	0.8	0.8	0.8
25°	111.7	82.2	46.6	5.3	0.7	0.7	0.8	0.8
27.5°	98.8	69.2	35.7	3.6	0.6	0.7	0.8	0.8
30°	82.5	54.8	25.6	2.3	0.6	0.7	0.7	0.8
32.5°	65.6	39.9	16.8	1.4	0.5	0.7	0.8	0.9
35°	47.5	27.2	10.7	0.7	0.6	0.7	0.8	0.9
37.5°	33.4	17.8	6.2	0.5	0.6	0.7	0.9	0.9
40°	21.7	9.9	2.3	0.3	0.6	0.8	0.9	1.0
42.5°	11.3	3.5	0.5	0.3	0.6	0.8	1.0	1.2
45°	2.9	0.5	0.1	0.3	0.7	0.9	1.2	1.2
47.5°	0.3	0.1	0.1	0.5	0.7	1.0	1.2	1.3
50°	0.1	0.2	0.2	0.5	0.7	1.0	1.3	1.4
52.5°	0.2	0.2	0.2	0.5	0.8	1.0	1.4	1.5
55°	0.2	0.2	0.2	0.5	0.8	1.2	1.4	1.5
57.5°	0.2	0.2	0.2	0.5	0.8	1.2	1.4	1.4
60°	0.2	0.2	0.2	0.5	0.8	1.2	1.4	1.4
62.5°	0.2	0.2	0.3	0.5	0.8	1.0	1.4	1.4
65°	0.2	0.3	0.3	0.5	0.8	1.0	1.3	1.4
67.5°	0.2	0.2	0.3	0.5	0.8	1.0	1.3	1.4
70°	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.3
72.5°	0.2	0.2	0.3	0.5	0.7	0.9	1.0	1.2
75°	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.0
77.5°	0.2	0.2	0.3	0.3	0.6	0.7	0.9	0.9
80°	0.2	0.2	0.3	0.3	0.5	0.6	0.7	0.8
82.5°	0.2	0.2	0.2	0.3	0.3	0.5	0.6	0.6
85°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)