

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: P1336042

Luminaire Tested: P3A02R459050DE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336042
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: P3A02R459050DE010 E3A301H
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

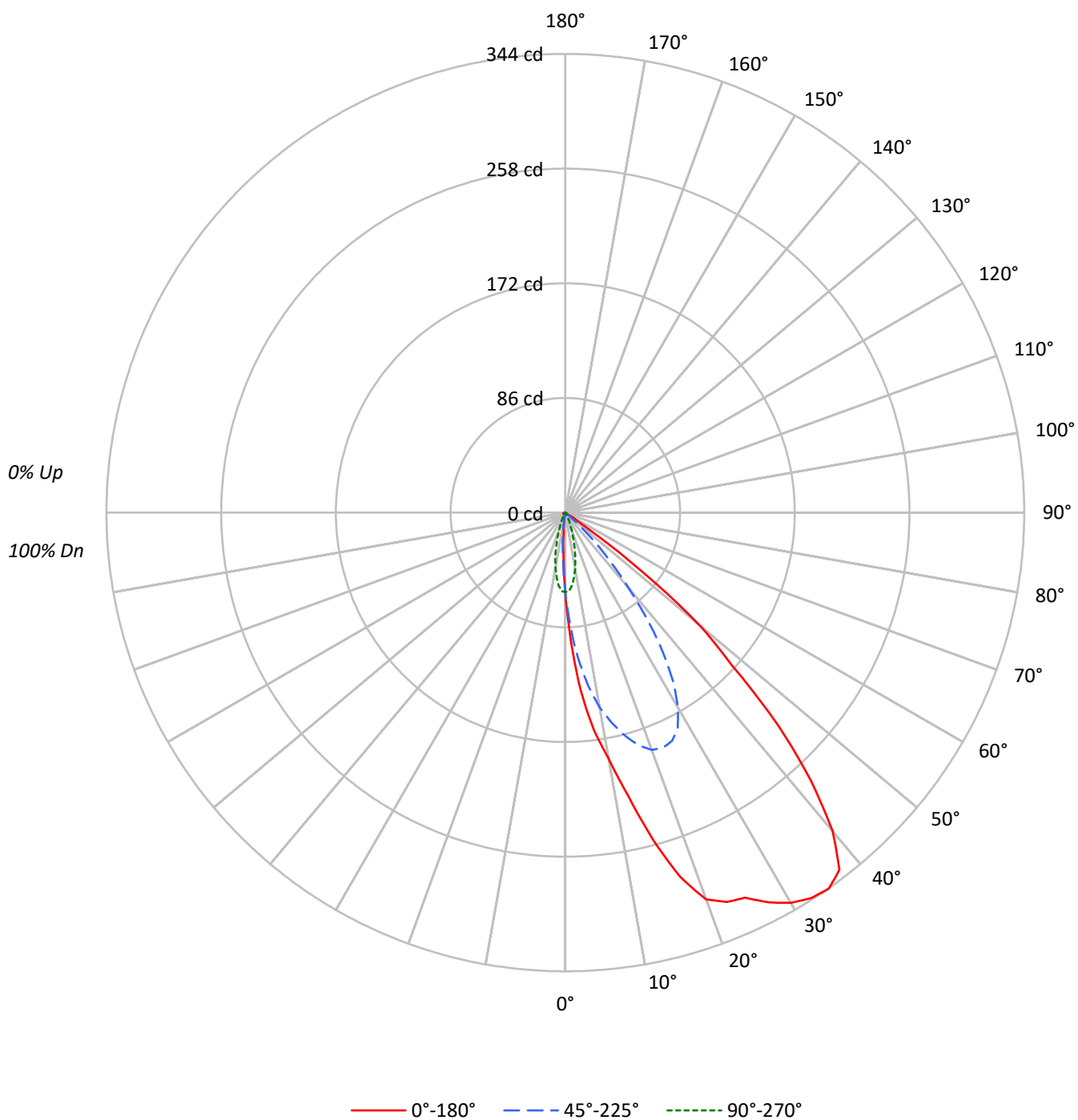
Lumens per Lamp: N/A
Luminaire Lumens: 156.0 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	79	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	42	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°	13025	13025	13025	13025	13025
5°	29672	24059	12173	4887	3324
10°	41794	33066	9419	1069	490
15°	57617	39342	6016	363	295
20°	72036	44174	3127	233	233
25°	77085	45728	1452	194	218
30°	85557	42715	658	203	228
35°	92166	34050	214	214	268
40°	89167	21097	115	258	344
45°	70023	9955	124	310	403
50°	44996	1160	171	409	546
55°	6843	115	191	497	650
60°	132	132	219	570	702
65°	156	156	259	623	830
70°	192	192	321	641	898
75°	85	254	424	763	1017
80°	126	379	505	884	1137
85°	0	252	755	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	4.2
10°-20°	23.5	15.1
20°-30°	41.3	26.4
30°-40°	46.9	30.0
40°-50°	30.3	19.4
50°-60°	6.0	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°	71.2	45.7
0°-40°	118.1	75.7
0°-60°	154.4	99.0
0°-90°	156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	156.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	135	109	55	22	15	14
15°	254	173	26	2	1	73
25°	319	189	6	1	1	149
35°	344	127	1	1	1	212
45°	226	32	0	1	1	170
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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	96.4	96.2	96.5	93.9	93.8	91.8	91.3	89.1	86.1	84.7	81.3
5°	134.8	133.5	133.5	130.3	129.3	127.1	123.3	118.6	114.7	109.3	103.6
7.5°	164.4	164.1	164.1	161.4	158.8	155.6	150.6	145.2	138.9	130.7	122.4
10°	187.7	188.1	187.0	184.5	180.7	177.3	171.3	164.8	157.1	148.5	137.4
12.5°	217.2	214.4	213.4	207.8	203.0	196.5	189.3	181.9	172.3	161.5	149.0
15°	253.8	250.1	246.4	239.0	230.9	220.9	209.7	198.7	186.4	173.3	157.6
17.5°	286.4	286.4	281.5	269.8	259.4	244.5	229.4	214.7	200.3	182.9	163.3
20°	308.7	307.5	303.9	295.2	283.4	266.5	246.8	226.4	208.9	189.3	166.6
22.5°	316.0	315.7	315.9	310.8	301.2	283.8	259.6	235.5	213.6	190.9	165.0
25°	318.6	319.1	320.4	318.5	311.3	293.8	267.5	239.8	215.0	189.0	159.0
27.5°	329.4	328.4	329.8	328.5	320.4	299.5	269.0	238.7	211.9	182.4	148.3
30°	337.9	337.6	340.1	338.9	328.4	303.2	267.6	234.8	204.2	168.7	131.5
32.5°	342.7	342.9	343.5	338.7	323.0	295.2	260.5	226.9	189.7	150.8	109.6
35°	344.3	343.5	339.9	328.0	306.6	276.8	243.2	208.0	170.0	127.2	86.6
37.5°	337.5	333.5	324.1	306.3	281.5	253.8	221.0	184.1	143.0	100.5	64.6
40°	311.5	306.2	294.3	276.2	253.1	226.2	192.7	154.1	110.9	73.7	45.4
42.5°	272.7	269.9	257.5	241.7	222.2	195.0	160.5	121.3	82.1	50.9	29.0
45°	225.8	222.3	214.5	200.5	185.1	156.7	124.5	86.9	56.0	32.1	14.4
47.5°	169.3	169.6	164.3	153.7	138.6	114.8	85.2	58.3	35.1	16.6	3.3
50°	131.9	130.1	122.5	111.7	94.1	76.5	55.1	36.8	18.5	3.4	0.3
52.5°	73.1	74.2	70.2	66.7	57.5	45.7	32.5	18.7	3.9	0.4	0.3
55°	17.9	18.9	18.1	18.5	19.2	17.1	13.2	3.7	0.4	0.3	0.3
57.5°	0.4	0.4	0.4	0.4	0.7	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	79.6	77.1	72.5	59.0	47.4	38.2	32.7	32.2
5°	98.5	91.8	82.2	55.3	35.0	22.2	16.0	15.1
7.5°	113.5	104.1	89.2	49.3	23.9	11.4	6.3	5.2
10°	125.9	112.6	92.9	42.3	15.0	4.8	2.6	2.2
12.5°	134.4	118.3	93.5	34.4	8.6	2.3	1.7	1.6
15°	139.9	120.2	90.4	26.5	4.8	1.6	1.4	1.3
17.5°	142.1	118.6	84.4	19.2	2.6	1.2	1.2	1.2
20°	141.0	113.5	75.5	13.4	1.7	1.0	1.0	1.0
22.5°	136.1	104.8	64.4	9.0	1.2	0.9	0.9	0.9
25°	126.3	92.9	52.7	6.0	0.8	0.8	0.9	0.9
27.5°	111.7	78.3	40.3	4.0	0.7	0.8	0.9	0.9
30°	93.3	62.0	29.0	2.6	0.7	0.8	0.8	0.9
32.5°	74.1	45.1	19.0	1.6	0.5	0.8	0.9	1.0
35°	53.8	30.8	12.1	0.8	0.7	0.8	0.9	1.0
37.5°	37.7	20.1	7.0	0.5	0.7	0.8	1.0	1.0
40°	24.5	11.2	2.6	0.4	0.7	0.9	1.0	1.2
42.5°	12.8	3.9	0.5	0.4	0.7	0.9	1.2	1.3
45°	3.3	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	1.6
52.5°	0.3	0.3	0.3	0.5	0.9	1.2	1.6	1.7
55°	0.3	0.3	0.3	0.5	0.9	1.3	1.6	1.7
57.5°	0.3	0.3	0.3	0.5	0.9	1.3	1.6	1.6
60°	0.3	0.3	0.3	0.5	0.9	1.3	1.6	1.6
62.5°	0.3	0.3	0.4	0.5	0.9	1.2	1.6	1.6
65°	0.3	0.4	0.4	0.5	0.9	1.2	1.4	1.6
67.5°	0.3	0.3	0.4	0.5	0.9	1.2	1.4	1.6
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	0.7	0.9	1.2	1.2
77.5°	0.3	0.3	0.4	0.4	0.7	0.8	1.0	1.0
80°	0.3	0.3	0.4	0.4	0.5	0.7	0.8	0.9
82.5°	0.3	0.3	0.3	0.4	0.4	0.5	0.7	0.7
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)