

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: P1336153

Luminaire Tested: P3A02R459835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336153
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: P3A02R459835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

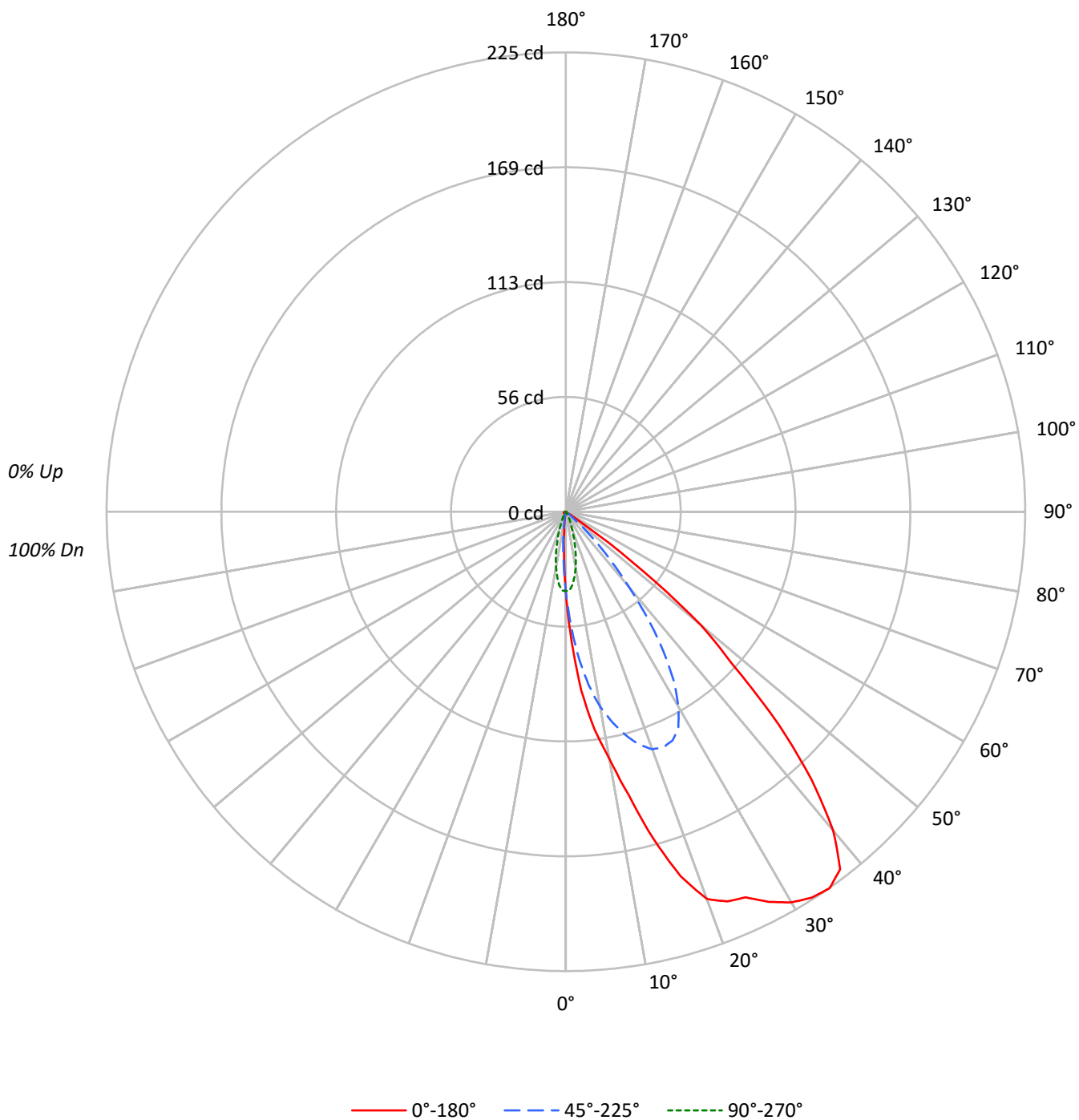
Lumens per Lamp: N/A
Luminaire Lumens: 102.0 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	79	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	75	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	42	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°	8508	8508	8508	8508	8508
5°	19392	15738	7968	3192	2179
10°	27343	21621	6146	713	334
15°	37662	25721	3927	227	204
20°	47091	28889	2054	163	163
25°	50398	29905	944	121	145
30°	55933	27928	430	127	152
35°	60258	22272	134	134	187
40°	58309	13797	86	172	229
45°	45803	6512	93	217	279
50°	29406	751	102	273	341
55°	4473	76	115	344	421
60°	88	88	132	395	439
65°	104	104	156	415	519
70°	128	128	192	449	577
75°	85	169	254	508	678
80°	126	253	379	505	758
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	4.2
10°-20°	15.4	15.0
20°-30°	27.0	26.4
30°-40°	30.6	30.0
40°-50°	19.8	19.4
50°-60°	3.9	3.8
60°-70°	0.5	0.5
70°-80°	0.4	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°	46.6	45.7
0°-40°	77.2	75.7
0°-60°	101.0	98.9
0°-90°	102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	102.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	88	72	36	14	10	9
15°	166	113	17	1	1	48
25°	208	124	4	0	1	98
35°	225	83	0	0	1	138
45°	148	21	0	1	1	111
55°	12	0	0	1	1	22
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°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	63.0	62.9	63.1	61.4	61.3	60.1	59.7	58.3	56.3	55.4	53.1
5°	88.1	87.3	87.3	85.2	84.5	83.1	80.6	77.5	75.0	71.5	67.7
7.5°	107.5	107.3	107.3	105.5	103.8	101.8	98.4	94.9	90.8	85.5	80.0
10°	122.8	123.0	122.2	120.6	118.1	115.9	112.0	107.7	102.7	97.1	89.8
12.5°	142.0	140.2	139.6	135.9	132.7	128.5	123.8	118.9	112.7	105.6	97.4
15°	165.9	163.5	161.1	156.3	151.0	144.4	137.1	129.9	121.9	113.3	103.0
17.5°	187.2	187.2	184.1	176.4	169.6	159.9	150.0	140.4	130.9	119.6	106.8
20°	201.8	201.1	198.7	193.0	185.3	174.3	161.4	148.0	136.6	123.8	108.9
22.5°	206.6	206.4	206.5	203.2	197.0	185.5	169.8	154.0	139.6	124.8	107.9
25°	208.3	208.7	209.5	208.2	203.5	192.1	174.9	156.8	140.6	123.6	104.0
27.5°	215.4	214.7	215.6	214.8	209.5	195.9	175.9	156.1	138.5	119.3	97.0
30°	220.9	220.8	222.4	221.6	214.7	198.2	175.0	153.5	133.5	110.3	86.0
32.5°	224.1	224.2	224.6	221.4	211.2	193.0	170.4	148.3	124.0	98.6	71.7
35°	225.1	224.6	222.2	214.5	200.5	181.0	159.0	136.0	111.2	83.2	56.6
37.5°	220.7	218.0	211.9	200.3	184.1	165.9	144.5	120.4	93.5	65.7	42.2
40°	203.7	200.2	192.4	180.6	165.5	147.9	126.0	100.7	72.5	48.2	29.7
42.5°	178.3	176.5	168.4	158.1	145.3	127.5	104.9	79.3	53.7	33.3	18.9
45°	147.7	145.4	140.2	131.1	121.0	102.4	81.4	56.8	36.6	21.0	9.4
47.5°	110.7	110.9	107.4	100.5	90.6	75.1	55.7	38.1	22.9	10.8	2.1
50°	86.2	85.0	80.1	73.0	61.5	50.0	36.0	24.1	12.1	2.2	0.2
52.5°	47.8	48.5	45.9	43.6	37.6	29.9	21.2	12.2	2.6	0.3	0.2
55°	11.7	12.4	11.9	12.1	12.5	11.2	8.6	2.4	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.4	0.6	0.6	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°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	52.0	50.4	47.4	38.6	31.0	25.0	21.4	21.1
5°	64.4	60.1	53.7	36.2	22.9	14.5	10.5	9.9
7.5°	74.2	68.1	58.3	32.2	15.6	7.4	4.1	3.4
10°	82.3	73.6	60.7	27.6	9.8	3.2	1.7	1.5
12.5°	87.9	77.4	61.2	22.5	5.6	1.5	1.1	1.0
15°	91.4	78.6	59.1	17.3	3.2	1.0	0.9	0.9
17.5°	92.9	77.5	55.2	12.5	1.7	0.8	0.8	0.8
20°	92.2	74.2	49.4	8.8	1.1	0.7	0.7	0.7
22.5°	89.0	68.5	42.1	5.9	0.8	0.6	0.6	0.6
25°	82.6	60.7	34.5	3.9	0.5	0.5	0.6	0.6
27.5°	73.0	51.2	26.4	2.6	0.4	0.5	0.6	0.6
30°	61.0	40.5	18.9	1.7	0.4	0.5	0.5	0.6
32.5°	48.5	29.5	12.5	1.0	0.3	0.5	0.6	0.7
35°	35.1	20.1	7.9	0.5	0.4	0.5	0.6	0.7
37.5°	24.7	13.1	4.6	0.3	0.4	0.5	0.7	0.7
40°	16.0	7.3	1.7	0.3	0.4	0.6	0.7	0.8
42.5°	8.4	2.6	0.3	0.3	0.4	0.6	0.8	0.9
45°	2.1	0.3	0.1	0.3	0.5	0.7	0.9	0.9
47.5°	0.3	0.1	0.1	0.3	0.5	0.8	0.9	0.9
50°	0.1	0.2	0.2	0.3	0.5	0.8	0.9	1.0
52.5°	0.2	0.2	0.2	0.3	0.6	0.8	1.0	1.1
55°	0.2	0.2	0.2	0.3	0.6	0.9	1.0	1.1
57.5°	0.2	0.2	0.2	0.3	0.6	0.9	1.0	1.0
60°	0.2	0.2	0.2	0.3	0.6	0.9	1.0	1.0
62.5°	0.2	0.2	0.3	0.3	0.6	0.8	1.0	1.0
65°	0.2	0.3	0.3	0.3	0.6	0.8	0.9	1.0
67.5°	0.2	0.2	0.3	0.3	0.6	0.8	0.9	1.0
70°	0.2	0.2	0.3	0.3	0.5	0.7	0.9	0.9
72.5°	0.2	0.2	0.3	0.3	0.5	0.7	0.8	0.9
75°	0.2	0.2	0.3	0.3	0.4	0.6	0.8	0.8
77.5°	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.7
80°	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6
82.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4
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)