

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: P1335833

Luminaire Tested: P3A02R409840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

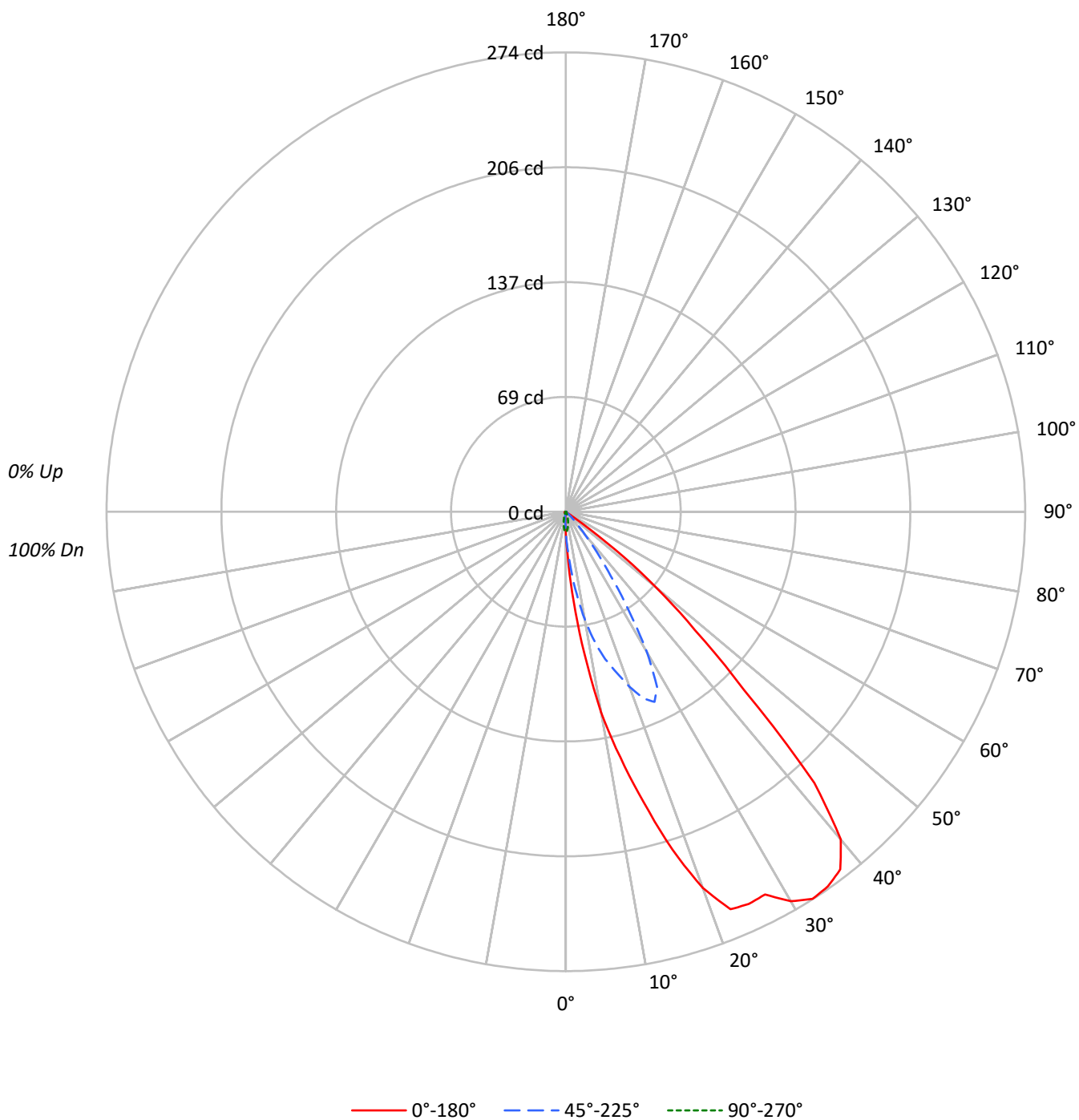
Lumens per Lamp: N/A
Luminaire Lumens: 101.1 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	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	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2631	2631	2631	2631	2631
5°	11820	7528	2355	902	660
10°	27098	14562	1648	334	245
15°	40681	20658	1022	182	159
20°	55702	25902	607	93	117
25°	62447	30268	315	73	97
30°	67909	24434	127	76	101
35°	73000	12501	54	80	134
40°	73023	4981	29	86	172
45°	46609	1675	62	155	248
50°	24187	205	102	205	307
55°	2103	38	115	268	344
60°	88	44	132	307	395
65°	104	52	156	311	467
70°	64	64	192	321	449
75°	85	85	254	339	508
80°	126	126	379	379	379
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	2.3
10°-20°	13.7	13.5
20°-30°	29.9	29.6
30°-40°	34.1	33.8
40°-50°	18.0	17.8
50°-60°	2.1	2.1
60°-70°	0.4	0.4
70°-80°	0.3	0.3
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°	45.9	45.5
0°-40°	80.0	79.2
0°-60°	100.2	99.1
0°-90°	101.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	101.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	54	34	11	4	3	7
15°	179	91	4	1	1	53
25°	258	125	1	0	0	119
35°	273	47	0	0	0	169
45°	150	5	0	0	1	121
55°	6	0	0	1	1	17
65°	0	0	0	1	1	0
75°	0	0	0	0	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°	67.5°
0°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
2.5°	26.6	26.6	26.5	25.8	25.7	25.6	24.2	23.9	22.3	21.2	16.1
5°	53.7	52.5	52.4	51.0	48.7	45.7	43.7	40.5	37.5	34.2	19.9
7.5°	85.5	86.6	83.7	82.3	77.2	73.5	67.9	62.9	56.0	49.5	23.0
10°	121.7	119.9	117.1	114.3	108.8	102.2	93.8	85.0	75.0	65.4	24.7
12.5°	150.0	147.7	146.0	142.1	136.7	128.2	118.2	106.4	93.2	79.3	24.6
15°	179.2	176.9	173.0	169.6	161.5	152.0	141.2	125.7	109.4	91.0	22.8
17.5°	211.3	208.3	204.0	198.8	191.0	180.5	166.7	147.8	124.8	100.6	19.5
20°	238.7	236.9	232.6	226.5	218.8	208.5	192.7	171.7	143.7	111.0	15.5
22.5°	256.6	255.0	252.1	246.7	240.9	230.0	215.5	192.4	159.5	120.4	11.8
25°	258.1	257.4	256.6	254.8	251.3	243.5	229.4	204.5	169.3	125.1	8.7
27.5°	257.3	257.0	256.9	255.9	253.6	245.9	231.4	206.3	168.0	117.9	6.4
30°	268.2	267.4	267.0	263.9	257.9	246.0	227.1	196.7	149.3	96.5	4.6
32.5°	273.8	273.6	273.2	270.2	261.6	246.2	219.7	173.4	118.4	69.7	3.2
35°	272.7	271.8	270.3	264.7	252.8	233.5	196.0	138.5	85.4	46.7	2.0
37.5°	268.9	266.9	263.9	254.0	238.2	211.7	158.9	101.9	58.1	30.2	1.2
40°	255.1	252.4	247.7	235.5	214.8	174.5	117.5	68.9	38.2	17.4	0.3
42.5°	219.3	215.9	212.5	198.8	175.1	130.1	77.3	42.6	21.8	9.6	0.1
45°	150.3	146.1	141.4	131.5	112.4	78.8	46.0	24.0	11.3	5.4	0.1
47.5°	104.4	102.4	94.2	81.6	62.6	41.7	23.8	11.8	6.0	2.5	0.1
50°	70.9	68.7	59.2	46.9	33.3	20.0	10.9	5.9	2.6	0.6	0.1
52.5°	37.2	34.5	28.4	21.7	13.5	8.4	4.8	2.6	0.8	0.1	0.1
55°	5.5	5.0	4.1	3.3	3.0	2.3	1.4	0.6	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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°	12.0	12.0	12.0	12.0	12.0
2.5°	11.8	8.7	6.7	5.8	5.7
5°	10.7	6.2	4.1	3.2	3.0
7.5°	9.0	4.4	2.4	1.7	1.6
10°	7.4	3.0	1.5	1.2	1.1
12.5°	5.9	2.0	1.0	0.9	0.9
15°	4.5	1.3	0.8	0.7	0.7
17.5°	3.4	0.9	0.6	0.6	0.6
20°	2.6	0.6	0.4	0.5	0.5
22.5°	1.8	0.4	0.3	0.4	0.4
25°	1.3	0.3	0.3	0.4	0.4
27.5°	0.9	0.3	0.3	0.3	0.4
30°	0.5	0.2	0.3	0.3	0.4
32.5°	0.3	0.2	0.3	0.4	0.4
35°	0.2	0.3	0.3	0.4	0.5
37.5°	0.1	0.3	0.3	0.5	0.5
40°	0.1	0.3	0.3	0.5	0.6
42.5°	0.2	0.3	0.4	0.6	0.7
45°	0.2	0.3	0.5	0.7	0.8
47.5°	0.2	0.3	0.6	0.8	0.8
50°	0.3	0.4	0.6	0.8	0.9
52.5°	0.3	0.4	0.6	0.9	0.9
55°	0.3	0.4	0.7	0.9	0.9
57.5°	0.3	0.5	0.7	0.9	0.9
60°	0.3	0.4	0.7	0.9	0.9
62.5°	0.3	0.4	0.6	0.9	0.9
65°	0.3	0.4	0.6	0.9	0.9
67.5°	0.3	0.4	0.6	0.8	0.8
70°	0.3	0.4	0.5	0.7	0.7
72.5°	0.3	0.4	0.5	0.6	0.7
75°	0.3	0.3	0.4	0.5	0.6
77.5°	0.3	0.3	0.3	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)