

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: P1335721

Luminaire Tested: P3A02R409727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335721
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: P3A02R409727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

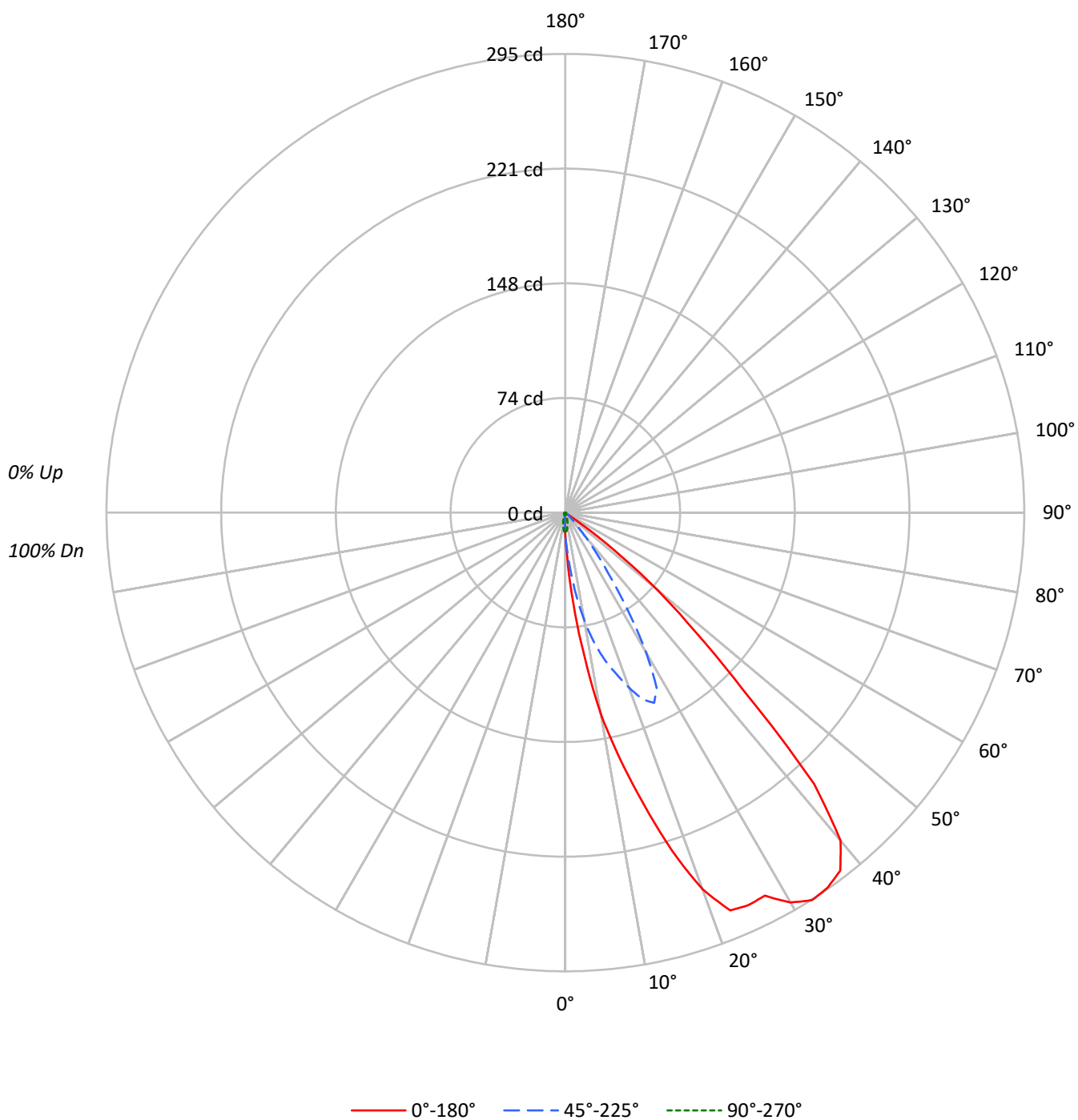
Lumens per Lamp: N/A
Luminaire Lumens: 109.1 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	2829	2829	2829	2829	2829
5°	12745	8122	2531	969	704
10°	29258	15720	1781	356	267
15°	43905	22293	1112	182	159
20°	60112	27956	653	117	140
25°	67383	32663	339	97	121
30°	73302	26358	152	76	127
35°	78755	13492	54	107	161
40°	78805	5382	29	115	172
45°	50300	1799	62	186	248
50°	26131	205	102	205	307
55°	2256	38	115	268	382
60°	88	44	132	307	439
65°	104	52	208	311	467
70°	64	64	256	385	449
75°	85	85	254	424	508
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	2.3
10°-20°	14.8	13.5
20°-30°	32.3	29.6
30°-40°	36.8	33.8
40°-50°	19.4	17.8
50°-60°	2.3	2.1
60°-70°	0.4	0.4
70°-80°	0.4	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°	49.6	45.5
0°-40°	86.4	79.2
0°-60°	108.1	99.1
0°-90°	109.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	109.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	58	37	12	4	3	8
15°	193	98	5	1	1	57
25°	278	135	1	0	0	128
35°	294	50	0	0	1	182
45°	162	6	0	1	1	131
55°	6	0	0	1	1	18
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°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	28.7	28.7	28.7	27.8	27.7	27.6	26.2	25.8	24.0	22.8	17.4
5°	57.9	56.7	56.6	55.1	52.6	49.3	47.2	43.8	40.4	36.9	21.5
7.5°	92.3	93.4	90.4	88.8	83.3	79.3	73.2	67.9	60.4	53.4	24.8
10°	131.4	129.4	126.4	123.4	117.4	110.3	101.2	91.8	81.0	70.6	26.6
12.5°	161.9	159.4	157.5	153.4	147.5	138.4	127.6	114.9	100.6	85.6	26.5
15°	193.4	190.9	186.7	183.1	174.3	164.1	152.4	135.6	118.1	98.2	24.6
17.5°	228.0	224.8	220.2	214.6	206.1	194.8	179.9	159.5	134.7	108.5	21.1
20°	257.6	255.6	251.0	244.4	236.1	225.1	207.9	185.3	155.0	119.8	16.8
22.5°	276.9	275.2	272.0	266.2	260.0	248.2	232.5	207.6	172.1	130.0	12.7
25°	278.5	277.8	276.9	275.0	271.2	262.8	247.5	220.7	182.7	135.0	9.4
27.5°	277.7	277.4	277.2	276.2	273.7	265.4	249.8	222.7	181.3	127.2	6.9
30°	289.5	288.6	288.2	284.9	278.3	265.5	245.1	212.3	161.1	104.1	5.0
32.5°	295.4	295.3	294.8	291.6	282.4	265.7	237.1	187.1	127.8	75.2	3.4
35°	294.2	293.3	291.7	285.7	272.9	252.0	211.5	149.4	92.2	50.4	2.2
37.5°	290.2	288.1	284.9	274.1	257.0	228.5	171.5	110.0	62.7	32.6	1.3
40°	275.3	272.4	267.3	254.2	231.8	188.3	126.9	74.3	41.2	18.8	0.4
42.5°	236.7	233.0	229.3	214.6	188.9	140.4	83.5	46.0	23.5	10.3	0.1
45°	162.2	157.6	152.6	141.9	121.3	85.0	49.7	25.9	12.2	5.8	0.1
47.5°	112.7	110.5	101.7	88.1	67.5	45.0	25.7	12.7	6.4	2.7	0.1
50°	76.6	74.2	63.8	50.7	35.9	21.6	11.8	6.4	2.9	0.6	0.1
52.5°	40.2	37.2	30.7	23.4	14.6	9.0	5.2	2.8	0.8	0.1	0.1
55°	5.9	5.4	4.4	3.6	3.2	2.5	1.5	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°	12.9	12.9	12.9	12.9	12.9
2.5°	12.7	9.4	7.3	6.3	6.2
5°	11.5	6.7	4.4	3.4	3.2
7.5°	9.8	4.7	2.6	1.8	1.8
10°	8.0	3.2	1.6	1.3	1.2
12.5°	6.4	2.1	1.1	1.0	0.9
15°	4.9	1.4	0.8	0.7	0.7
17.5°	3.7	0.9	0.6	0.6	0.6
20°	2.8	0.6	0.5	0.6	0.6
22.5°	1.9	0.5	0.4	0.5	0.5
25°	1.4	0.4	0.4	0.5	0.5
27.5°	0.9	0.3	0.3	0.4	0.5
30°	0.6	0.2	0.3	0.4	0.5
32.5°	0.3	0.2	0.3	0.5	0.5
35°	0.2	0.3	0.4	0.5	0.6
37.5°	0.1	0.3	0.4	0.6	0.6
40°	0.1	0.3	0.4	0.6	0.6
42.5°	0.2	0.4	0.5	0.6	0.7
45°	0.2	0.4	0.6	0.7	0.8
47.5°	0.2	0.4	0.6	0.8	0.8
50°	0.3	0.5	0.6	0.8	0.9
52.5°	0.3	0.5	0.6	0.9	1.0
55°	0.3	0.5	0.7	0.9	1.0
57.5°	0.3	0.6	0.7	0.9	1.0
60°	0.3	0.5	0.7	0.9	1.0
62.5°	0.4	0.5	0.6	0.9	0.9
65°	0.4	0.5	0.6	0.9	0.9
67.5°	0.4	0.5	0.6	0.8	0.8
70°	0.4	0.5	0.6	0.7	0.7
72.5°	0.4	0.5	0.6	0.6	0.7
75°	0.3	0.4	0.5	0.6	0.6
77.5°	0.3	0.4	0.4	0.6	0.6
80°	0.3	0.3	0.3	0.4	0.4
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)