

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: P1335801

Luminaire Tested: P3A02R409830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335801
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: P3A02R409830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

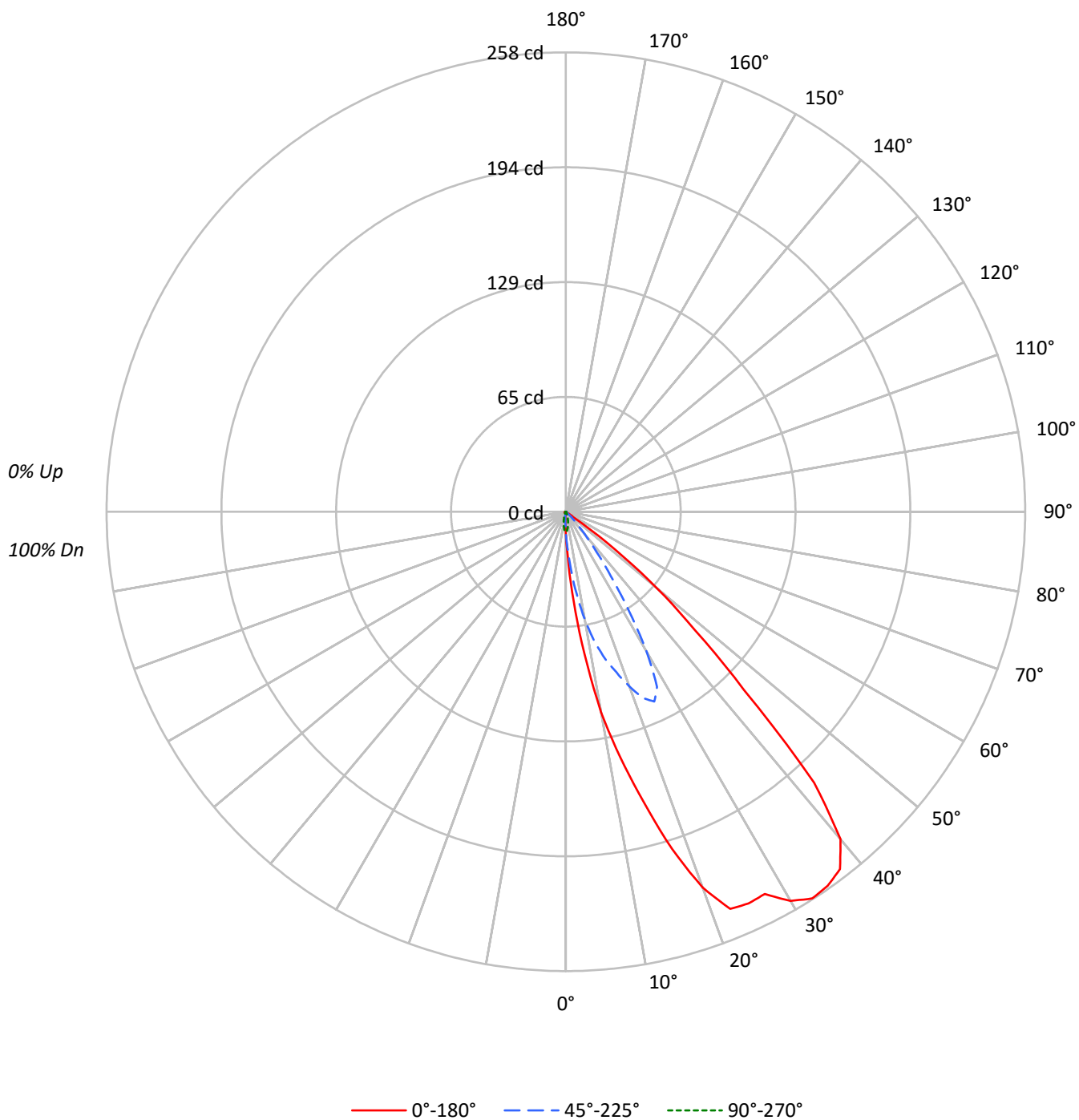
Lumens per Lamp: N/A
Luminaire Lumens: 95.0 lumens
Efficiency: N/A
Efficacy: 26.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2456	2456	2456	2456	2456
5°	11116	7088	2201	858	616
10°	25495	13694	1559	312	223
15°	38252	19433	976	159	136
20°	52388	24362	560	93	117
25°	58721	28453	290	73	97
30°	63883	22966	127	51	101
35°	68663	11752	54	80	134
40°	68672	4695	29	86	172
45°	43850	1582	62	155	217
50°	22754	205	68	205	273
55°	1950	38	76	229	344
60°	88	44	88	263	395
65°	104	52	156	311	415
70°	64	64	192	321	385
75°	85	85	169	339	508
80°	126	126	253	253	379
85°	0	252	503	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	2.3
10°-20°	12.9	13.5
20°-30°	28.2	29.6
30°-40°	32.1	33.8
40°-50°	16.9	17.8
50°-60°	2.0	2.1
60°-70°	0.4	0.4
70°-80°	0.3	0.3
80°-90°	0.1	0.1
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°	43.2	45.5
0°-40°	75.3	79.2
0°-60°	94.2	99.2
0°-90°	95.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	95.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	50	32	10	4	3	7
15°	168	86	4	1	1	50
25°	243	118	1	0	0	112
35°	256	44	0	0	0	159
45°	141	5	0	0	1	114
55°	5	0	0	1	1	16
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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	25.1	25.1	25.0	24.2	24.2	24.1	22.8	22.5	21.0	19.9	15.2
5°	50.5	49.4	49.3	48.0	45.8	43.0	41.1	38.1	35.2	32.2	18.7
7.5°	80.5	81.4	78.8	77.4	72.6	69.1	63.8	59.2	52.7	46.6	21.6
10°	114.5	112.8	110.2	107.5	102.3	96.1	88.2	80.0	70.6	61.5	23.2
12.5°	141.1	138.9	137.3	133.7	128.5	120.6	111.2	100.1	87.7	74.6	23.1
15°	168.5	166.4	162.8	159.5	151.9	143.0	132.8	118.2	102.9	85.6	21.4
17.5°	198.7	195.9	191.9	187.0	179.6	169.7	156.8	139.0	117.4	94.6	18.4
20°	224.5	222.8	218.8	213.0	205.8	196.2	181.2	161.5	135.1	104.4	14.6
22.5°	241.4	239.8	237.1	232.0	226.6	216.3	202.7	181.0	150.0	113.3	11.1
25°	242.7	242.1	241.4	239.7	236.4	229.1	215.7	192.4	159.2	117.6	8.2
27.5°	242.0	241.8	241.6	240.7	238.5	231.3	217.7	194.1	158.0	110.9	6.0
30°	252.3	251.6	251.2	248.3	242.6	231.4	213.6	185.0	140.4	90.7	4.3
32.5°	257.5	257.3	256.9	254.1	246.1	231.6	206.7	163.1	111.4	65.5	3.0
35°	256.5	255.7	254.2	249.0	237.8	219.6	184.4	130.2	80.4	43.9	1.9
37.5°	252.9	251.1	248.3	238.9	224.0	199.1	149.5	95.9	54.7	28.4	1.1
40°	239.9	237.4	233.0	221.5	202.0	164.1	110.6	64.8	35.9	16.4	0.3
42.5°	206.3	203.1	199.8	187.0	164.7	122.4	72.7	40.1	20.5	9.0	0.1
45°	141.4	137.4	133.0	123.7	105.7	74.1	43.3	22.6	10.6	5.1	0.1
47.5°	98.2	96.4	88.6	76.8	58.9	39.3	22.4	11.1	5.6	2.3	0.1
50°	66.7	64.6	55.6	44.2	31.3	18.8	10.3	5.5	2.5	0.6	0.1
52.5°	35.0	32.4	26.7	20.4	12.7	7.9	4.5	2.4	0.7	0.1	0.1
55°	5.1	4.7	3.9	3.1	2.8	2.2	1.3	0.6	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
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°	11.2	11.2	11.2	11.2	11.2
2.5°	11.1	8.2	6.3	5.5	5.4
5°	10.0	5.9	3.9	3.0	2.8
7.5°	8.5	4.1	2.2	1.6	1.5
10°	7.0	2.8	1.4	1.1	1.0
12.5°	5.5	1.8	1.0	0.9	0.8
15°	4.3	1.2	0.7	0.6	0.6
17.5°	3.2	0.8	0.6	0.6	0.6
20°	2.4	0.6	0.4	0.5	0.5
22.5°	1.7	0.4	0.3	0.4	0.4
25°	1.2	0.3	0.3	0.4	0.4
27.5°	0.8	0.2	0.2	0.3	0.4
30°	0.5	0.2	0.2	0.3	0.4
32.5°	0.2	0.2	0.2	0.4	0.4
35°	0.2	0.2	0.3	0.4	0.5
37.5°	0.1	0.2	0.3	0.5	0.5
40°	0.1	0.2	0.3	0.5	0.6
42.5°	0.2	0.3	0.4	0.6	0.6
45°	0.2	0.3	0.5	0.6	0.7
47.5°	0.2	0.3	0.6	0.7	0.7
50°	0.2	0.4	0.6	0.7	0.8
52.5°	0.2	0.4	0.6	0.8	0.9
55°	0.2	0.4	0.6	0.8	0.9
57.5°	0.2	0.5	0.6	0.8	0.9
60°	0.2	0.4	0.6	0.8	0.9
62.5°	0.3	0.4	0.6	0.8	0.8
65°	0.3	0.4	0.6	0.8	0.8
67.5°	0.3	0.4	0.6	0.7	0.7
70°	0.3	0.4	0.5	0.6	0.6
72.5°	0.3	0.4	0.5	0.6	0.6
75°	0.2	0.3	0.4	0.5	0.6
77.5°	0.2	0.3	0.3	0.5	0.5
80°	0.2	0.2	0.2	0.3	0.3
82.5°	0.2	0.2	0.2	0.2	0.2
85°	0.2	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)