

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: P1335689

Luminaire Tested: P3A02R409040DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335689
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: P3A02R409040DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

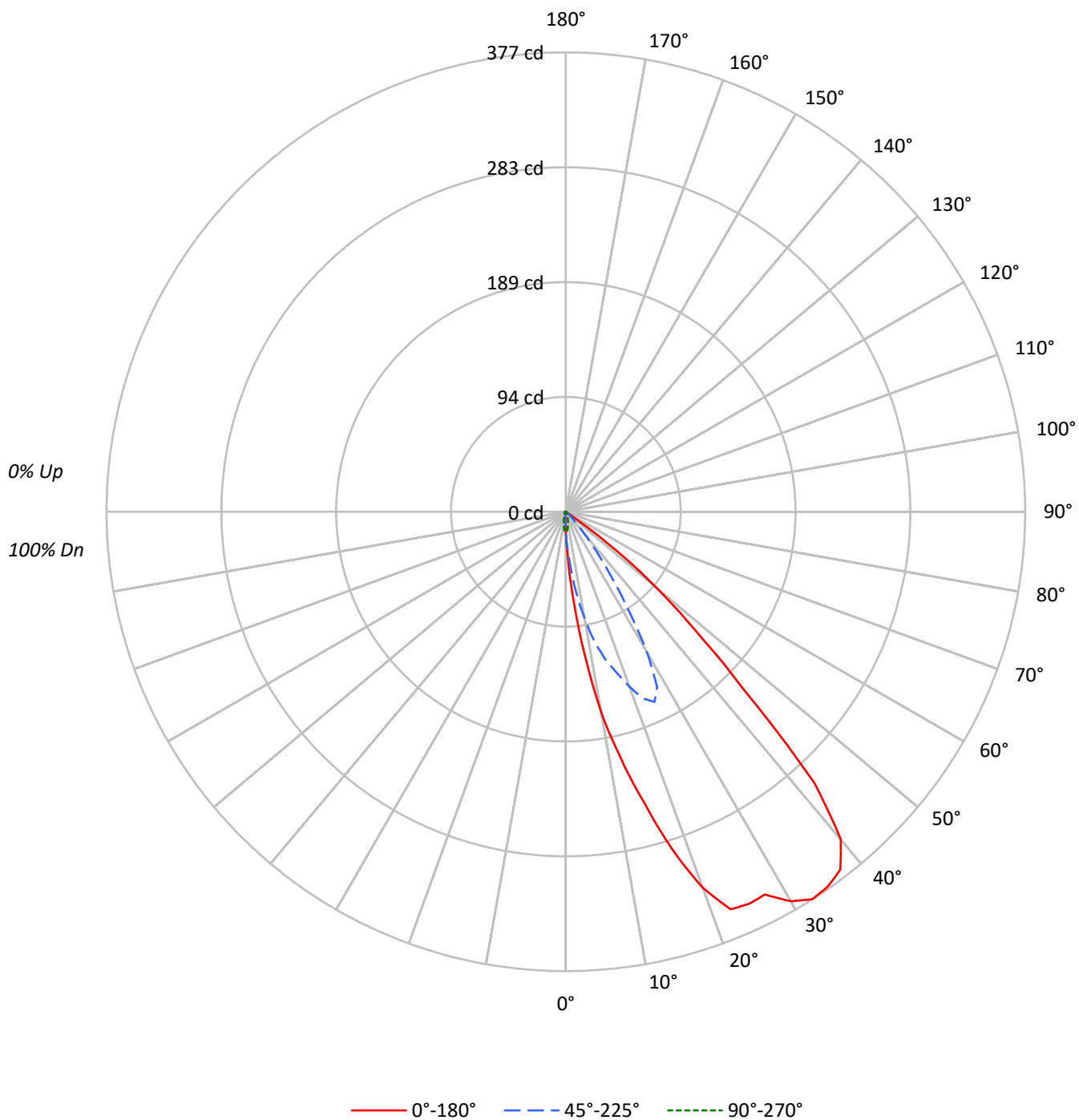
Lumens per Lamp: N/A
Luminaire Lumens: 139.0 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	77	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°	3596	3596	3596	3596	3596
5°	16267	10368	3236	1233	902
10°	37296	20040	2271	445	334
15°	55982	28422	1407	250	204
20°	76657	35633	817	140	163
25°	85916	41640	436	121	145
30°	93457	33625	177	101	152
35°	100438	17213	54	134	187
40°	100474	6870	29	143	229
45°	64162	2295	62	217	341
50°	33295	273	136	273	409
55°	2867	38	153	344	497
60°	88	44	175	395	570
65°	104	52	259	415	623
70°	64	64	321	449	577
75°	85	85	339	508	678
80°	126	126	505	505	631
85°	0	252	1006	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	2.3
10°-20°	18.8	13.5
20°-30°	41.2	29.6
30°-40°	46.9	33.8
40°-50°	24.8	17.8
50°-60°	2.9	2.1
60°-70°	0.5	0.4
70°-80°	0.4	0.3
80°-90°	0.2	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°	63.2	45.5
0°-40°	110.2	79.3
0°-60°	137.9	99.2
0°-90°	139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	139.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	74	47	15	6	4	10
15°	247	125	6	1	1	73
25°	355	172	2	0	1	164
35°	375	64	0	0	1	233
45°	207	7	0	1	1	167
55°	8	0	0	1	1	23
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°	67.5°
0°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	36.7	36.7	36.5	35.5	35.4	35.2	33.4	32.9	30.7	29.1	22.2
5°	73.9	72.3	72.1	70.3	67.1	62.9	60.1	55.8	51.6	47.1	27.4
7.5°	117.7	119.1	115.2	113.3	106.2	101.2	93.4	86.6	77.1	68.1	31.6
10°	167.5	165.1	161.2	157.3	149.7	140.6	129.1	117.0	103.3	90.0	34.0
12.5°	206.4	203.2	200.9	195.6	188.1	176.5	162.7	146.5	128.3	109.1	33.8
15°	246.6	243.4	238.1	233.4	222.3	209.2	194.3	172.9	150.6	125.2	31.4
17.5°	290.8	286.7	280.8	273.6	262.8	248.4	229.4	203.4	171.8	138.4	26.9
20°	328.5	326.0	320.1	311.7	301.1	287.0	265.2	236.3	197.7	152.7	21.4
22.5°	353.1	350.9	346.9	339.5	331.5	316.5	296.5	264.8	219.5	165.8	16.2
25°	355.1	354.2	353.1	350.7	345.9	335.2	315.7	281.5	233.0	172.1	12.0
27.5°	354.1	353.7	353.5	352.2	349.0	338.5	318.5	283.9	231.2	162.2	8.8
30°	369.1	368.1	367.5	363.2	354.9	338.6	312.5	270.7	205.5	132.8	6.3
32.5°	376.8	376.5	375.9	371.8	360.1	338.8	302.4	238.6	162.9	95.9	4.3
35°	375.2	374.1	371.9	364.3	348.0	321.3	269.7	190.6	117.6	64.3	2.8
37.5°	370.1	367.4	363.2	349.5	327.8	291.4	218.7	140.3	80.0	41.6	1.6
40°	351.0	347.4	340.9	324.1	295.6	240.1	161.8	94.8	52.5	24.0	0.5
42.5°	301.8	297.1	292.4	273.6	241.0	179.0	106.4	58.6	30.0	13.2	0.1
45°	206.9	201.0	194.5	180.9	154.7	108.4	63.3	33.0	15.5	7.4	0.1
47.5°	143.7	141.0	129.7	112.3	86.1	57.4	32.8	16.2	8.2	3.4	0.1
50°	97.6	94.6	81.4	64.6	45.8	27.5	15.0	8.1	3.6	0.8	0.1
52.5°	51.2	47.5	39.1	29.8	18.6	11.5	6.6	3.5	1.1	0.1	0.1
55°	7.5	6.9	5.6	4.6	4.1	3.2	1.9	0.8	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.4	0.4	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	0.4
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
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	0.4
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°	16.4	16.4	16.4	16.4	16.4
2.5°	16.2	12.0	9.3	8.0	7.9
5°	14.7	8.6	5.6	4.3	4.1
7.5°	12.5	6.0	3.3	2.3	2.2
10°	10.2	4.1	2.0	1.6	1.5
12.5°	8.1	2.7	1.4	1.3	1.2
15°	6.2	1.8	1.1	0.9	0.9
17.5°	4.7	1.2	0.8	0.8	0.8
20°	3.5	0.8	0.6	0.7	0.7
22.5°	2.5	0.6	0.5	0.6	0.6
25°	1.8	0.5	0.5	0.6	0.6
27.5°	1.2	0.4	0.4	0.5	0.6
30°	0.7	0.2	0.4	0.5	0.6
32.5°	0.4	0.2	0.4	0.6	0.6
35°	0.2	0.4	0.5	0.6	0.7
37.5°	0.1	0.4	0.5	0.7	0.7
40°	0.1	0.4	0.5	0.7	0.8
42.5°	0.2	0.5	0.6	0.8	0.9
45°	0.2	0.5	0.7	0.9	1.1
47.5°	0.2	0.5	0.8	1.1	1.1
50°	0.4	0.6	0.8	1.1	1.2
52.5°	0.4	0.6	0.8	1.2	1.3
55°	0.4	0.6	0.9	1.2	1.3
57.5°	0.4	0.7	0.9	1.2	1.3
60°	0.4	0.6	0.9	1.2	1.3
62.5°	0.5	0.6	0.8	1.2	1.2
65°	0.5	0.6	0.8	1.2	1.2
67.5°	0.5	0.6	0.8	1.1	1.1
70°	0.5	0.6	0.7	0.9	0.9
72.5°	0.5	0.6	0.7	0.8	0.9
75°	0.4	0.5	0.6	0.7	0.8
77.5°	0.4	0.5	0.5	0.7	0.7
80°	0.4	0.4	0.4	0.5	0.5
82.5°	0.4	0.4	0.2	0.4	0.4
85°	0.4	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)