

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: P1335977

Luminaire Tested: P3A02R459030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335977
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: P3A02R459030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

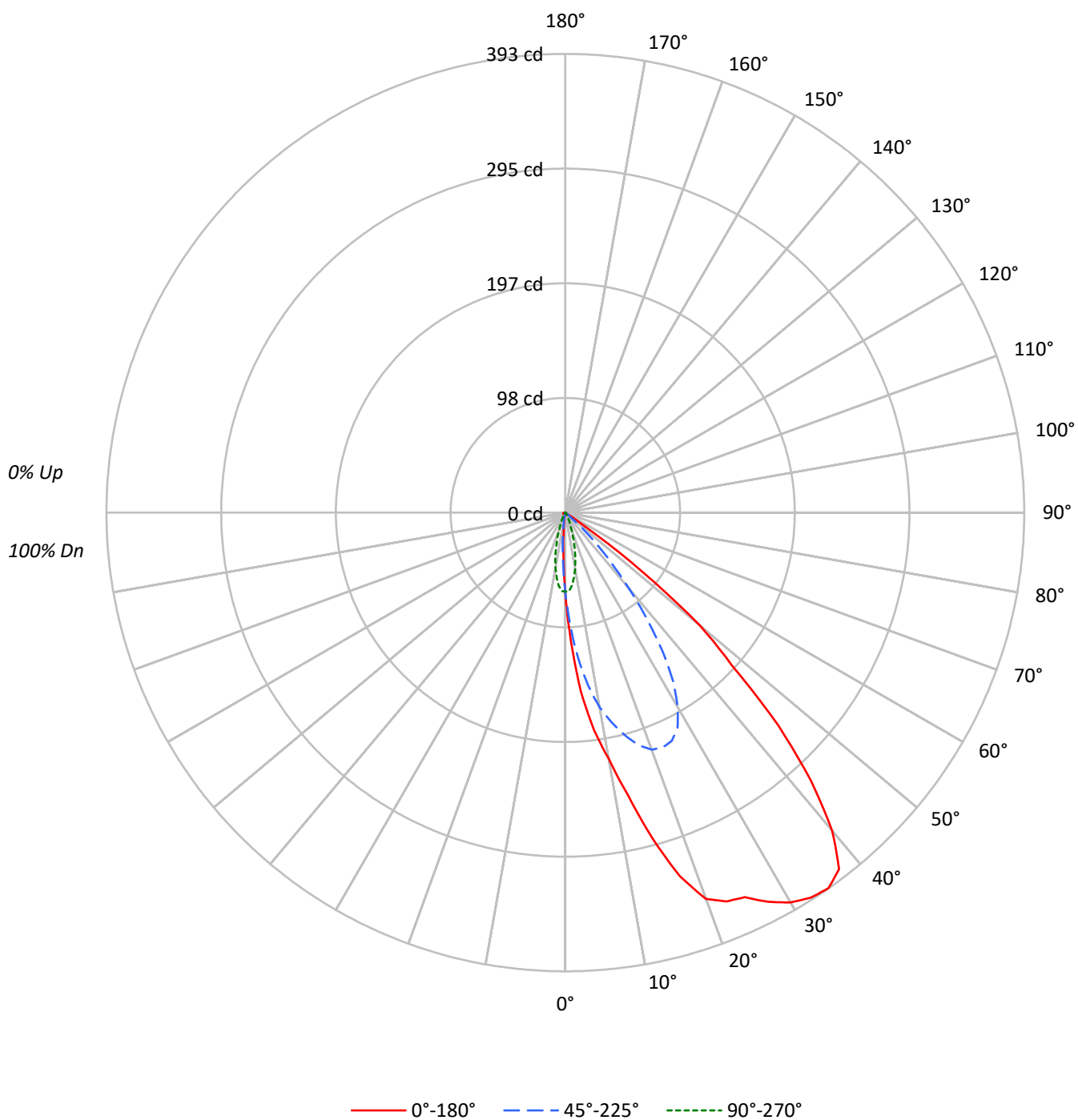
Lumens per Lamp: N/A
Luminaire Lumens: 177.9 lumens
Efficiency: N/A
Efficacy: 24.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	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	76	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	43	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°	14845	14845	14845	14845	14845
5°	33854	27449	13889	5569	3808
10°	47695	37719	10732	1225	557
15°	65721	44881	6856	409	341
20°	82187	50404	3570	280	280
25°	87949	52188	1645	218	242
30°	97635	48742	760	228	253
35°	105150	38842	241	241	321
40°	101762	24074	115	286	372
45°	79915	11350	124	372	465
50°	51342	1330	205	443	614
55°	7799	115	229	573	726
60°	132	132	263	658	789
65°	156	156	311	675	934
70°	192	192	385	769	1026
75°	85	254	508	847	1101
80°	126	379	505	884	1263
85°	0	252	755	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 79915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	4.2
10°-20°	26.8	15.1
20°-30°	47.1	26.5
30°-40°	53.5	30.0
40°-50°	34.6	19.5
50°-60°	6.8	3.8
60°-70°	0.8	0.5
70°-80°	0.7	0.4
80°-90°	0.3	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°	81.3	45.7
0°-40°	134.7	75.7
0°-60°	176.1	99.0
0°-90°	177.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	177.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	154	125	63	25	17	16
15°	290	198	30	2	2	83
25°	364	216	7	1	1	170
35°	393	145	1	1	1	242
45°	258	37	0	1	2	194
55°	20	0	1	2	2	39
65°	0	0	1	1	2	0
75°	0	0	1	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°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	110.0	109.7	110.2	107.2	107.0	104.8	104.2	101.7	98.2	96.6	92.7
5°	153.8	152.3	152.3	148.7	147.5	145.0	140.7	135.3	130.9	124.7	118.2
7.5°	187.6	187.3	187.3	184.1	181.2	177.6	171.8	165.7	158.5	149.2	139.6
10°	214.2	214.7	213.3	210.5	206.2	202.3	195.5	188.0	179.2	169.4	156.8
12.5°	247.9	244.6	243.5	237.1	231.6	224.2	216.0	207.5	196.6	184.3	170.0
15°	289.5	285.4	281.2	272.7	263.5	252.0	239.2	226.7	212.7	197.7	179.8
17.5°	326.8	326.8	321.2	307.8	295.9	279.0	261.7	245.0	228.5	208.7	186.4
20°	352.2	350.9	346.7	336.9	323.3	304.1	281.6	258.3	238.3	216.0	190.1
22.5°	360.5	360.2	360.4	354.6	343.7	323.8	296.2	268.7	243.7	217.8	188.3
25°	363.5	364.1	365.6	363.4	355.2	335.2	305.2	273.6	245.3	215.7	181.5
27.5°	375.9	374.7	376.3	374.8	365.6	341.8	307.0	272.4	241.8	208.1	169.3
30°	385.6	385.3	388.1	386.7	374.7	346.0	305.3	268.0	233.0	192.5	150.1
32.5°	391.1	391.2	392.0	386.4	368.6	336.9	297.3	258.9	216.4	172.1	125.0
35°	392.8	392.0	387.8	374.2	349.8	315.9	277.5	237.3	194.0	145.1	98.8
37.5°	385.1	380.5	369.8	349.5	321.2	289.5	252.2	210.0	163.2	114.6	73.7
40°	355.5	349.4	335.8	315.1	288.8	258.1	219.9	175.8	126.5	84.1	51.8
42.5°	311.1	308.0	293.9	275.8	253.5	222.5	183.1	138.4	93.6	58.1	33.0
45°	257.7	253.7	244.7	228.8	211.2	178.8	142.0	99.1	63.9	36.6	16.4
47.5°	193.2	193.5	187.4	175.4	158.1	131.0	97.2	66.5	40.0	18.9	3.7
50°	150.5	148.4	139.8	127.4	107.3	87.2	62.8	42.0	21.1	3.9	0.3
52.5°	83.4	84.7	80.1	76.1	65.6	52.1	37.1	21.3	4.5	0.4	0.3
55°	20.4	21.6	20.7	21.1	21.9	19.5	15.0	4.2	0.4	0.3	0.3
57.5°	0.4	0.4	0.4	0.4	0.7	1.0	1.0	0.3	0.3	0.3	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.1	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	0.1	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°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	90.8	88.0	82.8	67.3	54.0	43.6	37.4	36.8
5°	112.4	104.8	93.8	63.1	39.9	25.3	18.3	17.3
7.5°	129.5	118.8	101.8	56.3	27.2	13.0	7.1	6.0
10°	143.7	128.5	106.0	48.2	17.1	5.5	3.0	2.5
12.5°	153.3	135.0	106.7	39.3	9.8	2.7	1.9	1.8
15°	159.6	137.1	103.2	30.2	5.5	1.8	1.6	1.5
17.5°	162.1	135.3	96.3	21.9	3.0	1.3	1.3	1.3
20°	160.9	129.5	86.2	15.3	1.9	1.2	1.2	1.2
22.5°	155.3	119.5	73.5	10.3	1.3	1.0	1.0	1.0
25°	144.1	106.0	60.1	6.8	0.9	0.9	1.0	1.0
27.5°	127.4	89.3	46.0	4.6	0.7	0.9	1.0	1.0
30°	106.4	70.7	33.0	3.0	0.7	0.9	0.9	1.0
32.5°	84.6	51.5	21.7	1.8	0.6	0.9	1.0	1.2
35°	61.3	35.1	13.8	0.9	0.7	0.9	1.0	1.2
37.5°	43.0	22.9	8.0	0.6	0.7	0.9	1.2	1.2
40°	28.0	12.8	3.0	0.4	0.7	1.0	1.2	1.3
42.5°	14.6	4.5	0.6	0.4	0.7	1.0	1.3	1.5
45°	3.7	0.6	0.1	0.4	0.9	1.2	1.5	1.5
47.5°	0.4	0.1	0.1	0.6	0.9	1.3	1.5	1.6
50°	0.1	0.3	0.3	0.6	0.9	1.3	1.6	1.8
52.5°	0.3	0.3	0.3	0.6	1.0	1.3	1.8	1.9
55°	0.3	0.3	0.3	0.6	1.0	1.5	1.8	1.9
57.5°	0.3	0.3	0.3	0.6	1.0	1.5	1.8	1.8
60°	0.3	0.3	0.3	0.6	1.0	1.5	1.8	1.8
62.5°	0.3	0.3	0.4	0.6	1.0	1.3	1.8	1.8
65°	0.3	0.4	0.4	0.6	1.0	1.3	1.6	1.8
67.5°	0.3	0.3	0.4	0.6	1.0	1.3	1.6	1.8
70°	0.3	0.3	0.4	0.6	0.9	1.2	1.5	1.6
72.5°	0.3	0.3	0.4	0.6	0.9	1.2	1.3	1.5
75°	0.3	0.3	0.4	0.6	0.7	1.0	1.3	1.3
77.5°	0.3	0.3	0.4	0.4	0.7	0.9	1.2	1.2
80°	0.3	0.3	0.4	0.4	0.6	0.7	0.9	1.0
82.5°	0.3	0.3	0.3	0.4	0.4	0.6	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
87.5°	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)