

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: P1339315

Luminaire Tested: P3A05R459024DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339315
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: P3A05R459024DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

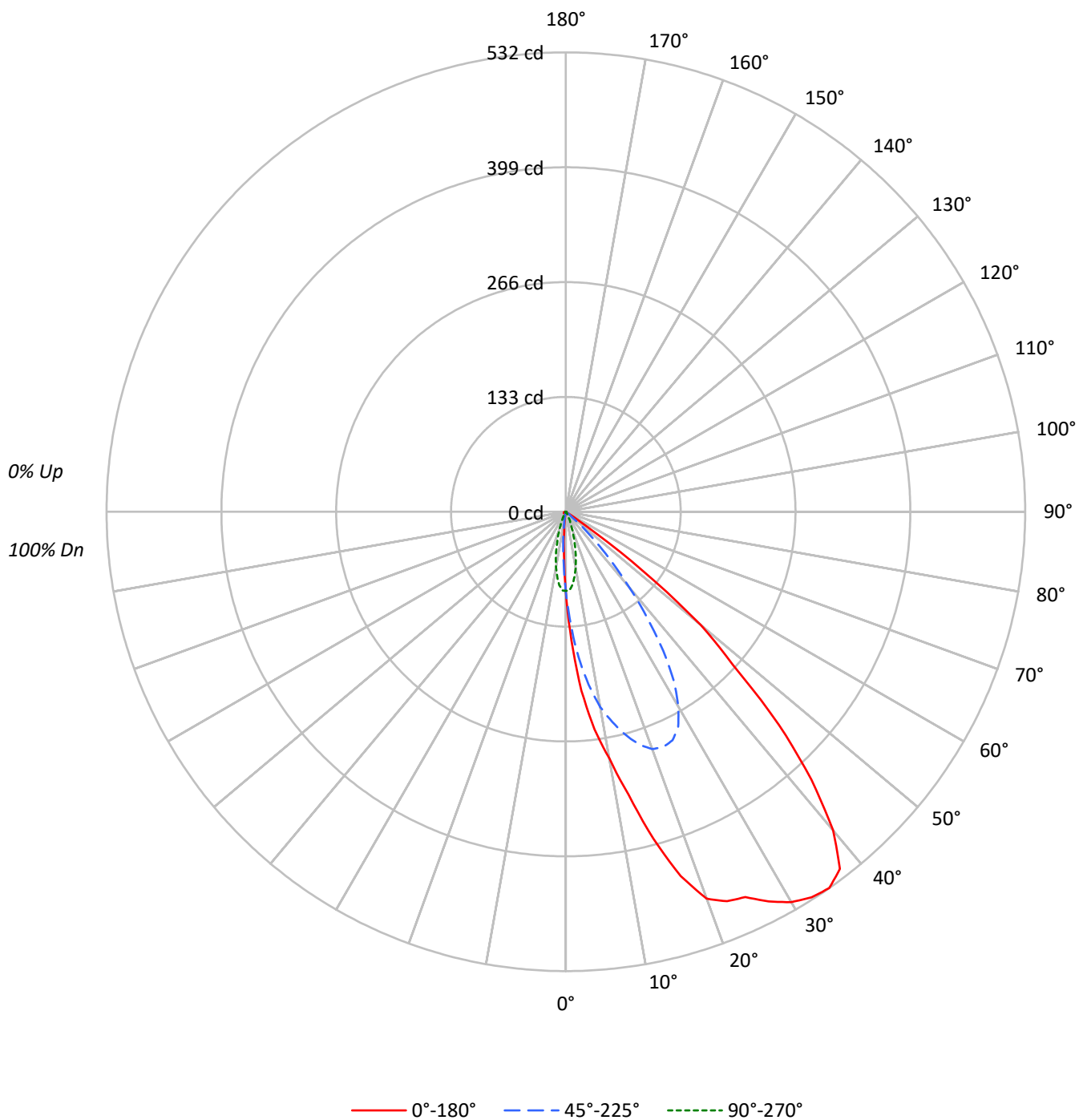
Lumens per Lamp: N/A
Luminaire Lumens: 241.0 lumens
Efficiency: N/A
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	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	77	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	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20108	20108	20108	20108	20108
5°	45829	37178	18820	7550	5151
10°	64572	51079	14540	1670	757
15°	88990	60772	9285	545	454
20°	111286	68233	4854	373	373
25°	119088	70649	2250	290	339
30°	132172	65985	1013	304	354
35°	142386	52602	321	321	428
40°	137772	32604	172	401	515
45°	108197	15381	186	496	620
50°	69524	1774	273	614	819
55°	10552	153	306	765	994
60°	175	175	351	877	1053
65°	208	208	415	934	1245
70°	256	256	513	1026	1410
75°	169	339	678	1186	1525
80°	253	505	758	1263	1768
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 108197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	4.2
10°-20°	36.3	15.1
20°-30°	63.7	26.5
30°-40°	72.4	30.0
40°-50°	46.9	19.5
50°-60°	9.2	3.8
60°-70°	1.1	0.5
70°-80°	0.9	0.4
80°-90°	0.4	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°	110.1	45.7
0°-40°	182.4	75.7
0°-60°	238.5	99.0
0°-90°	241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	241.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	208	169	86	34	23	22
15°	392	268	41	2	2	113
25°	492	292	9	1	1	231
35°	532	196	1	1	2	327
45°	349	50	1	2	2	263
55°	28	0	1	2	3	53
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	1	1	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°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	148.9	148.5	149.1	145.1	144.9	141.9	141.1	137.7	133.0	130.8	125.6
5°	208.2	206.2	206.2	201.3	199.7	196.3	190.5	183.2	177.2	168.9	160.0
7.5°	254.0	253.6	253.6	249.3	245.3	240.4	232.6	224.3	214.7	202.0	189.1
10°	290.0	290.6	288.8	285.0	279.1	273.9	264.6	254.6	242.7	229.4	212.2
12.5°	335.6	331.1	329.7	321.1	313.6	303.5	292.4	281.0	266.2	249.5	230.2
15°	392.0	386.4	380.7	369.2	356.7	341.2	323.9	307.0	288.0	267.7	243.5
17.5°	442.4	442.4	434.9	416.8	400.7	377.7	354.3	331.8	309.4	282.6	252.3
20°	476.9	475.1	469.4	456.1	437.8	411.8	381.3	349.7	322.7	292.4	257.4
22.5°	488.2	487.8	488.0	480.1	465.4	438.4	401.1	363.8	329.9	294.9	255.0
25°	492.2	493.0	495.0	492.0	480.9	453.9	413.2	370.4	332.2	292.0	245.7
27.5°	508.9	507.3	509.5	507.5	495.0	462.8	415.6	368.8	327.3	281.8	229.2
30°	522.0	521.6	525.4	523.6	507.3	468.4	413.4	362.8	315.4	260.6	203.2
32.5°	529.5	529.7	530.7	523.2	499.0	456.1	402.5	350.5	293.1	233.0	169.3
35°	531.9	530.7	525.0	506.7	473.6	427.7	375.7	321.3	262.6	196.5	133.8
37.5°	521.4	515.2	500.7	473.2	434.9	392.0	341.4	284.4	220.9	155.2	99.8
40°	481.3	473.0	454.7	426.7	391.0	349.5	297.7	238.0	171.3	113.9	70.1
42.5°	421.2	417.0	397.9	373.5	343.2	301.3	247.9	187.4	126.8	78.6	44.7
45°	348.9	343.4	331.3	309.8	286.0	242.1	192.3	134.2	86.5	49.6	22.2
47.5°	261.6	262.0	253.8	237.4	214.0	177.4	131.6	90.1	54.2	25.6	5.0
50°	203.8	200.9	189.3	172.5	145.3	118.1	85.1	56.8	28.6	5.2	0.4
52.5°	112.9	114.7	108.4	103.0	88.9	70.5	50.2	28.8	6.0	0.6	0.4
55°	27.6	29.2	28.0	28.6	29.6	26.4	20.4	5.6	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.0	1.4	1.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	122.9	119.1	112.1	91.1	73.2	59.1	50.6	49.8
5°	152.2	141.9	127.0	85.5	54.0	34.3	24.8	23.4
7.5°	175.3	160.8	137.9	76.2	36.9	17.5	9.7	8.1
10°	194.5	173.9	143.5	65.3	23.2	7.5	4.0	3.4
12.5°	207.6	182.8	144.5	53.2	13.3	3.6	2.6	2.4
15°	216.1	185.6	139.7	40.9	7.5	2.4	2.2	2.0
17.5°	219.5	183.2	130.4	29.6	4.0	1.8	1.8	1.8
20°	217.9	175.3	116.7	20.8	2.6	1.6	1.6	1.6
22.5°	210.2	161.8	99.6	13.9	1.8	1.4	1.4	1.4
25°	195.1	143.5	81.4	9.3	1.2	1.2	1.4	1.4
27.5°	172.5	120.9	62.3	6.2	1.0	1.2	1.4	1.4
30°	144.1	95.7	44.7	4.0	1.0	1.2	1.2	1.4
32.5°	114.5	69.7	29.4	2.4	0.8	1.2	1.4	1.6
35°	83.0	47.6	18.7	1.2	1.0	1.2	1.4	1.6
37.5°	58.2	31.0	10.9	0.8	1.0	1.2	1.6	1.6
40°	37.9	17.3	4.0	0.6	1.0	1.4	1.6	1.8
42.5°	19.8	6.0	0.8	0.6	1.0	1.4	1.8	2.0
45°	5.0	0.8	0.2	0.6	1.2	1.6	2.0	2.0
47.5°	0.6	0.2	0.2	0.8	1.2	1.8	2.0	2.2
50°	0.2	0.4	0.4	0.8	1.2	1.8	2.2	2.4
52.5°	0.4	0.4	0.4	0.8	1.4	1.8	2.4	2.6
55°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.6
57.5°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.4
60°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.4
62.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.4	2.4
65°	0.4	0.6	0.6	0.8	1.4	1.8	2.2	2.4
67.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.2	2.4
70°	0.4	0.4	0.6	0.8	1.2	1.6	2.0	2.2
72.5°	0.4	0.4	0.6	0.8	1.2	1.6	1.8	2.0
75°	0.4	0.4	0.6	0.8	1.0	1.4	1.8	1.8
77.5°	0.4	0.4	0.6	0.6	1.0	1.2	1.6	1.6
80°	0.4	0.4	0.6	0.6	0.8	1.0	1.2	1.4
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	1.0	1.0
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)