

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: P1339443

Luminaire Tested: P3A05R459730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339443
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: P3A05R459730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

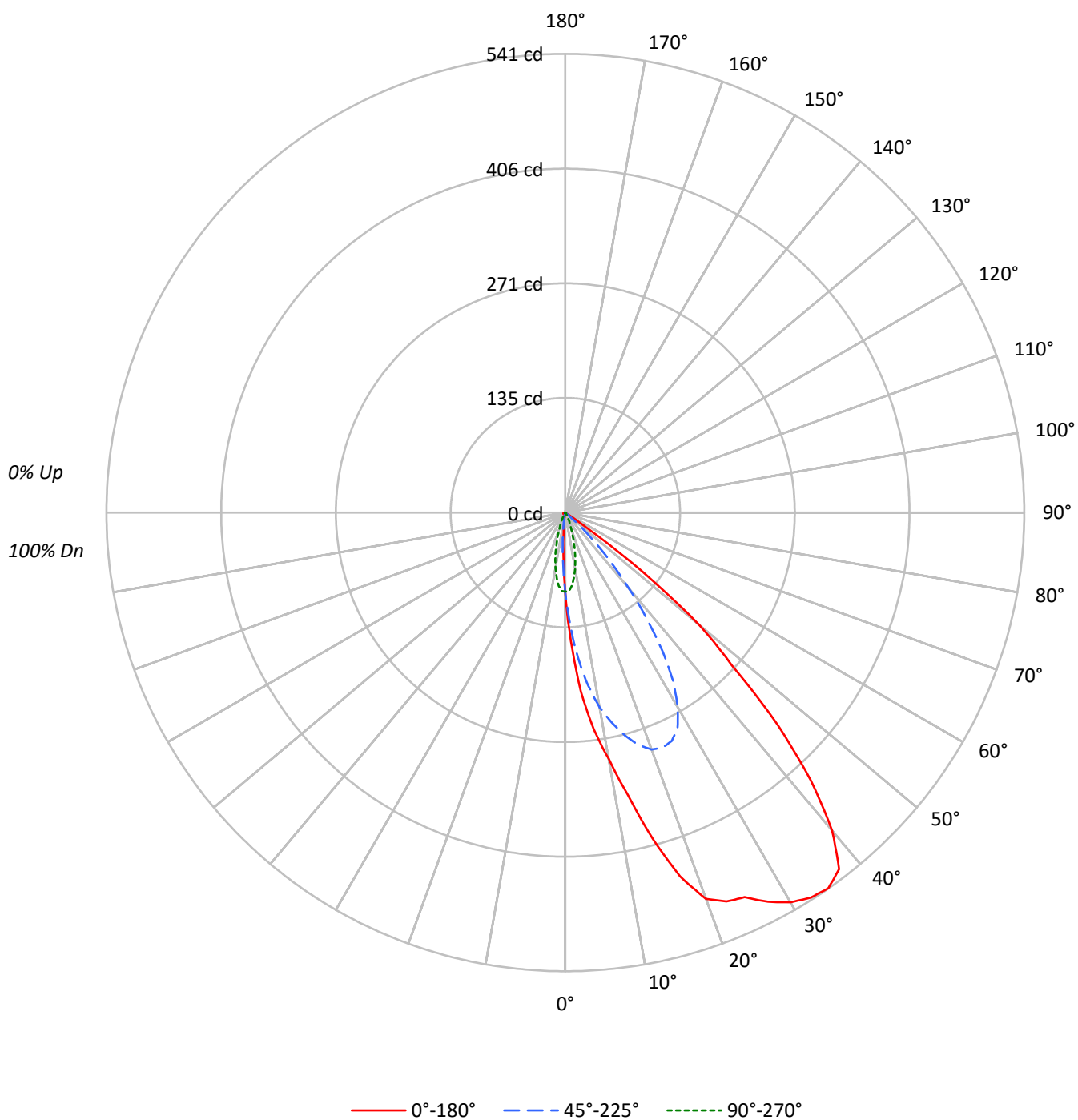
Lumens per Lamp: N/A
Luminaire Lumens: 244.9 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	20437	20437	20437	20437	20437
5°	46599	37794	19128	7660	5239
10°	65641	51925	14785	1692	779
15°	90466	61771	9444	568	454
20°	113130	69376	4924	373	373
25°	121072	71835	2274	290	339
30°	134375	67074	1038	304	354
35°	144741	53485	321	321	428
40°	140062	33148	172	401	515
45°	109996	15630	186	496	620
50°	70650	1808	273	614	853
55°	10743	153	306	765	1032
60°	175	175	351	877	1096
65°	208	208	415	934	1297
70°	256	256	513	1026	1475
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: 109996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	4.2
10°-20°	36.9	15.1
20°-30°	64.8	26.5
30°-40°	73.6	30.0
40°-50°	47.6	19.5
50°-60°	9.3	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°	111.9	45.7
0°-40°	185.5	75.7
0°-60°	242.5	99.0
0°-90°	244.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	244.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	93	93	93	93	93	
5°	212	172	87	35	24	23
15°	398	272	42	2	2	115
25°	500	297	9	1	1	235
35°	541	200	1	1	2	332
45°	355	50	1	2	2	267
55°	28	0	1	2	3	54
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°	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
2.5°	151.4	151.0	151.6	147.5	147.3	144.2	143.4	139.9	135.2	133.0	127.6
5°	211.7	209.6	209.6	204.7	203.1	199.6	193.6	186.2	180.1	171.7	162.7
7.5°	258.2	257.8	257.8	253.5	249.4	244.4	236.4	228.0	218.2	205.3	192.2
10°	294.8	295.5	293.6	289.7	283.8	278.5	269.0	258.8	246.7	233.2	215.8
12.5°	341.2	336.6	335.2	326.4	318.8	308.6	297.3	285.6	270.7	253.7	234.0
15°	398.5	392.8	387.0	375.4	362.7	346.9	329.3	312.1	292.8	272.1	247.5
17.5°	449.7	449.7	442.2	423.7	407.3	384.0	360.2	337.3	314.5	287.3	256.5
20°	484.8	482.9	477.2	463.7	445.0	418.6	387.7	355.5	328.0	297.3	261.7
22.5°	496.3	495.8	496.1	488.1	473.1	445.6	407.7	369.8	335.4	299.8	259.2
25°	500.4	501.2	503.2	500.1	488.9	461.4	420.0	376.6	337.7	296.9	249.8
27.5°	517.4	515.7	518.0	515.9	503.2	470.4	422.5	375.0	332.8	286.4	233.0
30°	530.7	530.3	534.2	532.3	515.7	476.2	420.2	368.8	320.7	264.9	206.5
32.5°	538.3	538.5	539.5	531.9	507.3	463.7	409.2	356.3	297.9	236.9	172.1
35°	540.7	539.5	533.8	515.1	481.5	434.8	381.9	326.6	267.0	199.8	136.1
37.5°	530.1	523.7	509.0	481.1	442.2	398.5	347.1	289.1	224.6	157.8	101.4
40°	489.3	480.9	462.2	433.8	397.5	355.3	302.6	242.0	174.2	115.8	71.3
42.5°	428.2	423.9	404.5	379.7	348.9	306.3	252.0	190.6	128.9	79.9	45.5
45°	354.7	349.1	336.8	314.9	290.7	246.1	195.5	136.5	87.9	50.4	22.5
47.5°	266.0	266.4	258.0	241.4	217.6	180.3	133.8	91.6	55.1	26.0	5.1
50°	207.1	204.3	192.4	175.4	147.7	120.1	86.5	57.8	29.1	5.3	0.4
52.5°	114.7	116.6	110.2	104.7	90.4	71.7	51.0	29.3	6.1	0.6	0.4
55°	28.1	29.7	28.5	29.1	30.1	26.8	20.7	5.7	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°	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
2.5°	125.0	121.1	113.9	92.6	74.4	60.0	51.4	50.6
5°	154.7	144.2	129.1	86.9	54.9	34.8	25.2	23.8
7.5°	178.3	163.5	140.1	77.5	37.5	17.8	9.8	8.2
10°	197.7	176.8	145.9	66.4	23.6	7.6	4.1	3.5
12.5°	211.0	185.8	146.9	54.1	13.5	3.7	2.7	2.5
15°	219.6	188.7	142.0	41.6	7.6	2.5	2.3	2.0
17.5°	223.1	186.2	132.6	30.1	4.1	1.8	1.8	1.8
20°	221.5	178.3	118.6	21.1	2.7	1.6	1.6	1.6
22.5°	213.7	164.5	101.2	14.1	1.8	1.4	1.4	1.4
25°	198.3	145.9	82.8	9.4	1.2	1.2	1.4	1.4
27.5°	175.4	122.9	63.3	6.4	1.0	1.2	1.4	1.4
30°	146.5	97.3	45.5	4.1	1.0	1.2	1.2	1.4
32.5°	116.4	70.9	29.9	2.5	0.8	1.2	1.4	1.6
35°	84.4	48.4	19.1	1.2	1.0	1.2	1.4	1.6
37.5°	59.2	31.6	11.1	0.8	1.0	1.2	1.6	1.6
40°	38.5	17.6	4.1	0.6	1.0	1.4	1.6	1.8
42.5°	20.1	6.1	0.8	0.6	1.0	1.4	1.8	2.0
45°	5.1	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	2.3
50°	0.2	0.4	0.4	0.8	1.2	1.8	2.3	2.5
52.5°	0.4	0.4	0.4	0.8	1.4	1.8	2.5	2.7
55°	0.4	0.4	0.4	0.8	1.4	2.0	2.5	2.7
57.5°	0.4	0.4	0.4	0.8	1.4	2.0	2.5	2.5
60°	0.4	0.4	0.4	0.8	1.4	2.0	2.5	2.5
62.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.5	2.5
65°	0.4	0.6	0.6	0.8	1.4	1.8	2.3	2.5
67.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.3	2.5
70°	0.4	0.4	0.6	0.8	1.2	1.6	2.0	2.3
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)