

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: P1339432

Luminaire Tested: P3A05R459727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339432
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: P3A05R459727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

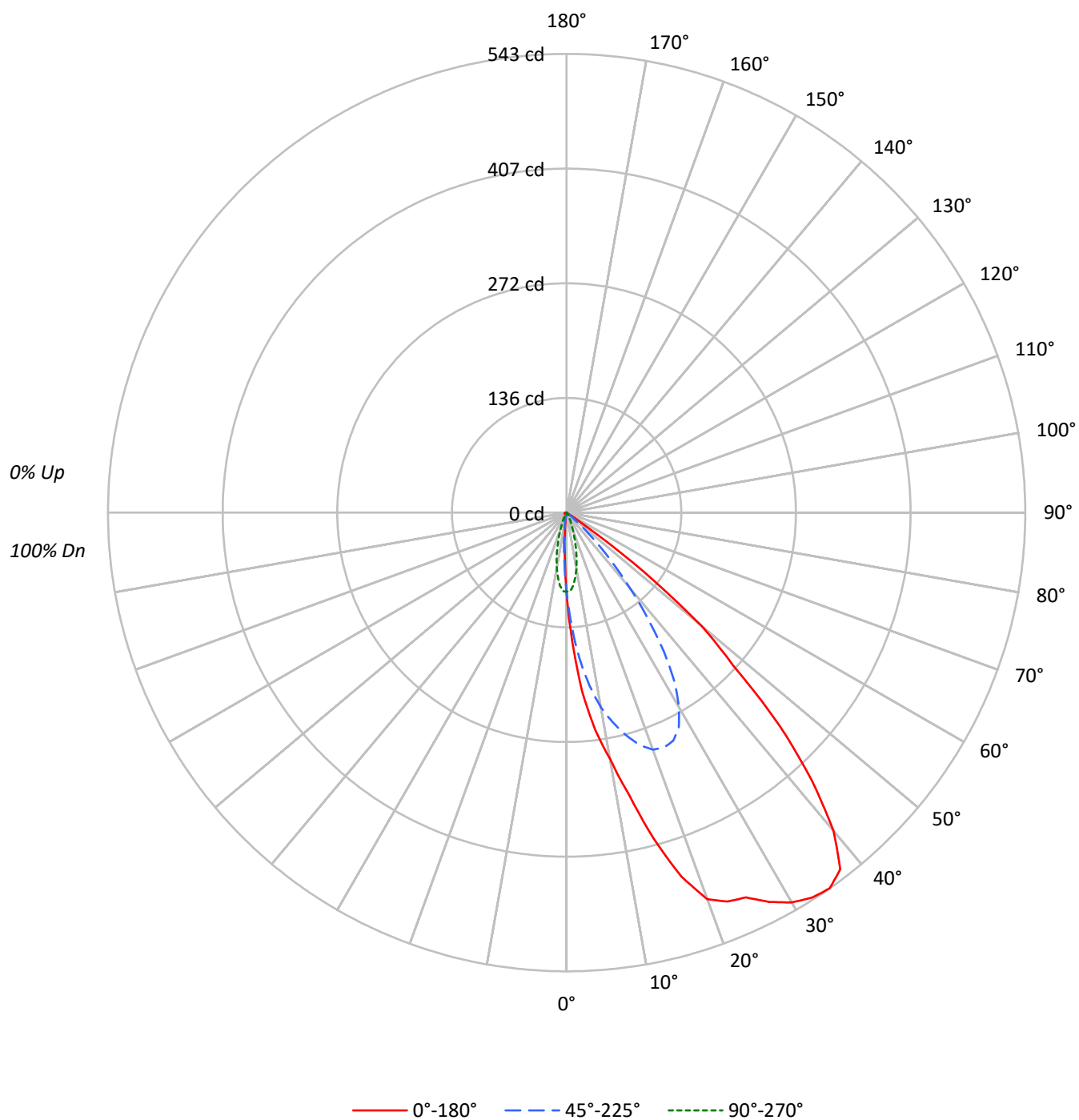
Lumens per Lamp: N/A
Luminaire Lumens: 246.0 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	20525	20525	20525	20525	20525
5°	46775	37948	19194	7704	5261
10°	65908	52126	14852	1692	779
15°	90829	62021	9489	568	477
20°	113597	69656	4947	373	373
25°	121555	72125	2299	290	339
30°	134907	67352	1038	304	354
35°	145330	53699	321	321	428
40°	140635	33262	172	401	544
45°	110430	15692	186	496	651
50°	70957	1808	273	648	853
55°	10781	153	306	803	1032
60°	175	175	351	921	1096
65°	208	208	415	986	1297
70°	256	256	513	1026	1475
75°	169	339	678	1186	1610
80°	253	505	758	1263	1768
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 110430 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	4.2
10°-20°	37.0	15.1
20°-30°	65.1	26.5
30°-40°	73.9	30.0
40°-50°	47.8	19.5
50°-60°	9.4	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°	112.3	45.7
0°-40°	186.2	75.7
0°-60°	243.5	99.0
0°-90°	246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	246.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	212	172	87	35	24	23
15°	400	273	42	2	2	115
25°	502	298	10	1	1	236
35°	543	201	1	1	2	334
45°	356	51	1	2	2	268
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°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2.5°	152.0	151.6	152.2	148.1	147.9	144.8	144.0	140.5	135.8	133.5	128.2
5°	212.5	210.5	210.5	205.5	203.9	200.4	194.4	187.0	180.8	172.4	163.4
7.5°	259.2	258.8	258.8	254.5	250.4	245.4	237.4	229.0	219.1	206.1	193.0
10°	296.0	296.7	294.8	290.9	284.9	279.6	270.1	259.8	247.7	234.1	216.6
12.5°	342.5	338.0	336.6	327.7	320.1	309.8	298.5	286.8	271.8	254.7	234.9
15°	400.1	394.4	388.6	376.9	364.1	348.3	330.6	313.3	294.0	273.2	248.5
17.5°	451.6	451.6	444.0	425.5	409.0	385.5	361.7	338.6	315.8	288.4	257.6
20°	486.8	484.9	479.1	465.6	446.8	420.3	389.2	356.9	329.4	298.5	262.7
22.5°	498.3	497.9	498.1	490.1	475.0	447.5	409.4	371.3	336.8	301.0	260.3
25°	502.4	503.2	505.3	502.2	490.9	463.3	421.7	378.1	339.0	298.1	250.8
27.5°	519.5	517.8	520.1	518.0	505.3	472.4	424.2	376.5	334.1	287.6	233.9
30°	532.8	532.4	536.3	534.5	517.8	478.1	422.0	370.3	322.0	266.0	207.4
32.5°	540.5	540.7	541.7	534.1	509.4	465.6	410.8	357.8	299.1	237.8	172.8
35°	542.9	541.7	535.9	517.2	483.5	436.6	383.5	327.9	268.1	200.6	136.6
37.5°	532.2	525.9	511.0	483.1	444.0	400.1	348.5	290.3	225.5	158.4	101.8
40°	491.3	482.9	464.1	435.5	399.1	356.7	303.9	243.0	174.9	116.2	71.6
42.5°	430.0	425.7	406.1	381.2	350.4	307.6	253.0	191.3	129.4	80.2	45.7
45°	356.1	350.6	338.2	316.2	291.9	247.1	196.3	137.0	88.3	50.6	22.6
47.5°	267.0	267.5	259.0	242.4	218.5	181.0	134.3	92.0	55.3	26.1	5.1
50°	208.0	205.1	193.2	176.1	148.3	120.6	86.8	58.0	29.2	5.3	0.4
52.5°	115.2	117.1	110.7	105.1	90.7	72.0	51.2	29.4	6.2	0.6	0.4
55°	28.2	29.8	28.6	29.2	30.2	27.0	20.8	5.8	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°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2.5°	125.5	121.6	114.4	93.0	74.7	60.3	51.6	50.8
5°	155.3	144.8	129.6	87.2	55.1	35.0	25.3	23.9
7.5°	179.0	164.2	140.7	77.8	37.6	17.9	9.9	8.2
10°	198.5	177.5	146.5	66.7	23.7	7.6	4.1	3.5
12.5°	211.9	186.6	147.5	54.3	13.6	3.7	2.7	2.5
15°	220.5	189.5	142.6	41.8	7.6	2.5	2.3	2.1
17.5°	224.0	187.0	133.1	30.2	4.1	1.9	1.9	1.9
20°	222.4	179.0	119.1	21.2	2.7	1.6	1.6	1.6
22.5°	214.6	165.2	101.6	14.2	1.9	1.4	1.4	1.4
25°	199.1	146.5	83.1	9.5	1.2	1.2	1.4	1.4
27.5°	176.1	123.4	63.6	6.4	1.0	1.2	1.4	1.4
30°	147.1	97.7	45.7	4.1	1.0	1.2	1.2	1.4
32.5°	116.9	71.2	30.0	2.5	0.8	1.2	1.4	1.6
35°	84.8	48.6	19.1	1.2	1.0	1.2	1.4	1.6
37.5°	59.5	31.7	11.1	0.8	1.0	1.2	1.6	1.6
40°	38.7	17.7	4.1	0.6	1.0	1.4	1.6	1.9
42.5°	20.2	6.2	0.8	0.6	1.0	1.4	1.9	2.1
45°	5.1	0.8	0.2	0.6	1.2	1.6	2.1	2.1
47.5°	0.6	0.2	0.2	0.8	1.2	1.9	2.1	2.3
50°	0.2	0.4	0.4	0.8	1.2	1.9	2.3	2.5
52.5°	0.4	0.4	0.4	0.8	1.4	1.9	2.5	2.7
55°	0.4	0.4	0.4	0.8	1.4	2.1	2.5	2.7
57.5°	0.4	0.4	0.4	0.8	1.4	2.1	2.5	2.5
60°	0.4	0.4	0.4	0.8	1.4	2.1	2.5	2.5
62.5°	0.4	0.4	0.6	0.8	1.4	1.9	2.5	2.5
65°	0.4	0.6	0.6	0.8	1.4	1.9	2.3	2.5
67.5°	0.4	0.4	0.6	0.8	1.4	1.9	2.3	2.5
70°	0.4	0.4	0.6	0.8	1.2	1.6	2.1	2.3
72.5°	0.4	0.4	0.6	0.8	1.2	1.6	1.9	2.1
75°	0.4	0.4	0.6	0.8	1.0	1.4	1.9	1.9
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)