

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: P1339464

Luminaire Tested: P3A05R459735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339464
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: P3A05R459735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

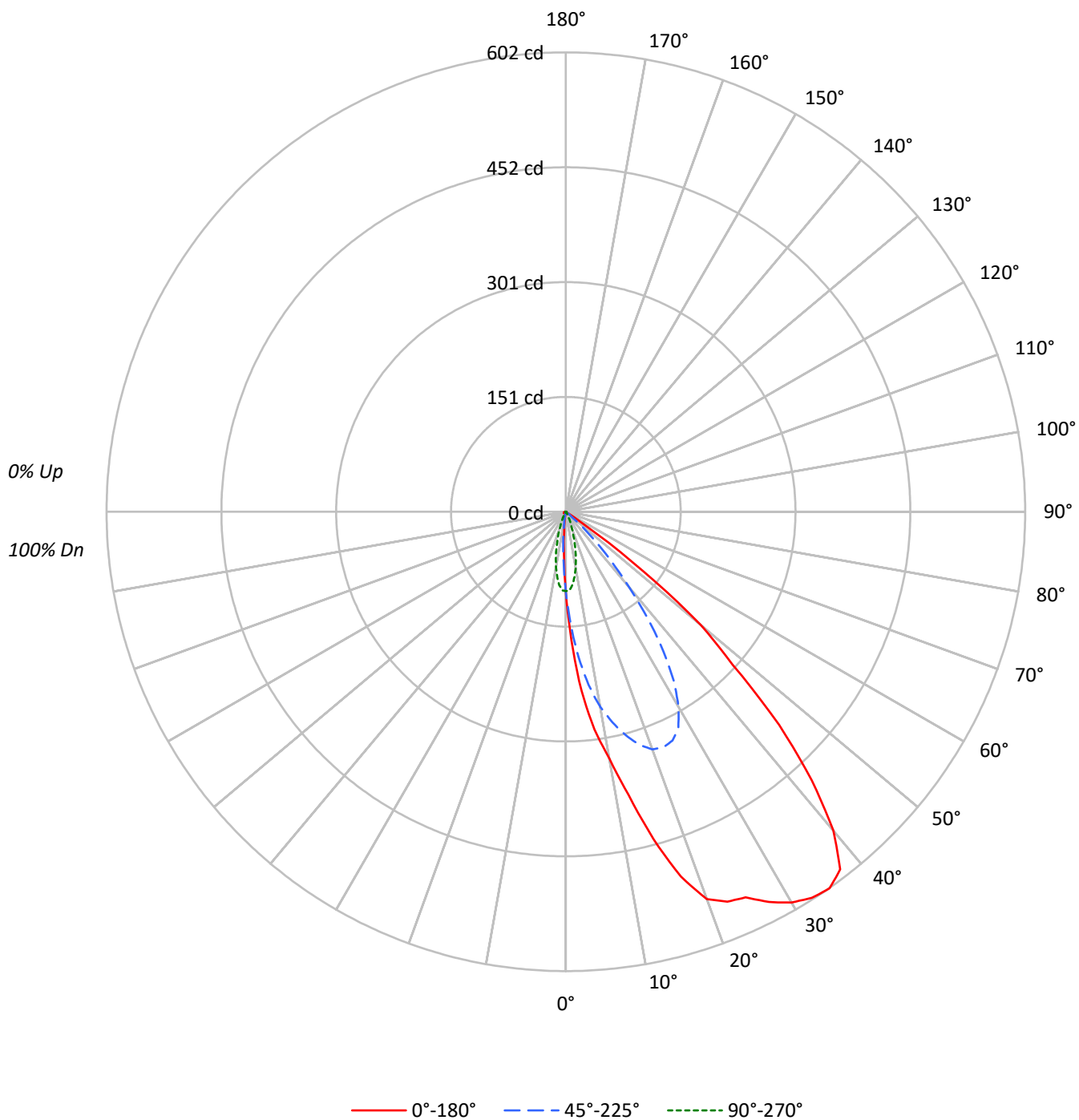
Lumens per Lamp: N/A
Luminaire Lumens: 273.0 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	22783	22783	22783	22783	22783
5°	51904	42109	21307	8541	5833
10°	73145	57848	16477	1870	868
15°	100818	68831	10511	613	522
20°	126058	77310	5484	420	420
25°	134887	80037	2540	339	387
30°	149719	74746	1165	354	405
35°	161285	59588	375	375	482
40°	156064	36926	200	458	601
45°	122555	17428	217	558	713
50°	78735	2013	307	716	921
55°	11966	191	344	879	1147
60°	219	219	395	1009	1184
65°	259	259	467	1090	1401
70°	321	321	577	1154	1603
75°	169	424	763	1356	1779
80°	253	631	884	1389	2020
85°	0	503	1258	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 122555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	4.2
10°-20°	41.1	15.1
20°-30°	72.2	26.4
30°-40°	82.0	30.0
40°-50°	53.1	19.4
50°-60°	10.4	3.8
60°-70°	1.3	0.5
70°-80°	1.1	0.4
80°-90°	0.5	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°	124.7	45.7
0°-40°	206.7	75.7
0°-60°	270.2	99.0
0°-90°	273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	273.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	236	191	97	39	26	25
15°	444	303	46	3	2	128
25°	558	331	10	1	2	261
35°	602	223	1	1	2	370
45°	395	56	1	2	2	298
55°	31	0	1	2	3	60
65°	0	0	1	2	3	0
75°	0	0	1	2	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°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
2.5°	168.7	168.3	169.0	164.4	164.2	160.7	159.8	155.9	150.7	148.2	142.2
5°	235.8	233.6	233.6	228.1	226.3	222.4	215.8	207.5	200.7	191.3	181.3
7.5°	287.7	287.2	287.2	282.4	277.9	272.4	263.5	254.1	243.2	228.8	214.2
10°	328.5	329.2	327.2	322.8	316.2	310.3	299.8	288.4	274.9	259.8	240.4
12.5°	380.1	375.1	373.5	363.7	355.3	343.8	331.3	318.3	301.6	282.7	260.7
15°	444.1	437.7	431.3	418.3	404.1	386.5	366.9	347.7	326.3	303.2	275.8
17.5°	501.1	501.1	492.7	472.1	453.9	427.9	401.4	375.8	350.5	320.1	285.8
20°	540.2	538.1	531.7	516.7	495.9	466.4	432.0	396.1	365.5	331.3	291.6
22.5°	553.0	552.5	552.7	543.8	527.2	496.6	454.3	412.1	373.7	334.0	288.8
25°	557.5	558.5	560.7	557.3	544.8	514.2	468.0	419.6	376.3	330.8	278.3
27.5°	576.5	574.7	577.2	574.9	560.7	524.2	470.8	417.8	370.8	319.2	259.6
30°	591.3	590.9	595.2	593.2	574.7	530.6	468.3	411.0	357.3	295.2	230.1
32.5°	599.8	600.0	601.1	592.7	565.3	516.7	455.9	397.0	332.0	263.9	191.8
35°	602.5	601.1	594.8	574.0	536.5	484.5	425.6	363.9	297.5	222.6	151.6
37.5°	590.6	583.6	567.1	536.1	492.7	444.1	386.8	322.1	250.2	175.8	113.0
40°	545.2	535.8	515.1	483.3	442.9	395.9	337.2	269.6	194.1	129.0	79.5
42.5°	477.2	472.4	450.7	423.1	388.8	341.3	280.8	212.3	143.6	89.0	50.7
45°	395.2	389.0	375.3	350.9	324.0	274.2	217.8	152.1	97.9	56.2	25.1
47.5°	296.3	296.8	287.4	269.0	242.5	200.9	149.1	102.1	61.4	29.0	5.7
50°	230.8	227.6	214.4	195.4	164.6	133.8	96.3	64.4	32.4	5.9	0.5
52.5°	127.9	129.9	122.8	116.7	100.7	79.9	56.8	32.6	6.8	0.7	0.5
55°	31.3	33.1	31.7	32.4	33.6	29.9	23.1	6.4	0.7	0.5	0.5
57.5°	0.7	0.7	0.7	0.7	1.1	1.6	1.6	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
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°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
2.5°	139.3	134.9	126.9	103.2	82.9	66.9	57.3	56.4
5°	172.4	160.7	143.8	96.8	61.2	38.8	28.1	26.5
7.5°	198.6	182.2	156.2	86.3	41.8	19.9	11.0	9.1
10°	220.3	197.0	162.6	74.0	26.3	8.4	4.6	3.9
12.5°	235.2	207.1	163.7	60.3	15.1	4.1	3.0	2.7
15°	244.8	210.3	158.2	46.3	8.4	2.7	2.5	2.3
17.5°	248.6	207.5	147.7	33.6	4.6	2.1	2.1	2.1
20°	246.8	198.6	132.2	23.5	3.0	1.8	1.8	1.8
22.5°	238.1	183.3	112.8	15.8	2.1	1.6	1.6	1.6
25°	221.0	162.6	92.2	10.5	1.4	1.4	1.6	1.6
27.5°	195.4	137.0	70.5	7.1	1.1	1.4	1.6	1.6
30°	163.2	108.4	50.7	4.6	1.1	1.4	1.4	1.6
32.5°	129.7	79.0	33.3	2.7	0.9	1.4	1.6	1.8
35°	94.1	53.9	21.2	1.4	1.1	1.4	1.6	1.8
37.5°	66.0	35.2	12.3	0.9	1.1	1.4	1.8	1.8
40°	42.9	19.6	4.6	0.7	1.1	1.6	1.8	2.1
42.5°	22.4	6.8	0.9	0.7	1.1	1.6	2.1	2.3
45°	5.7	0.9	0.2	0.7	1.4	1.8	2.3	2.3
47.5°	0.7	0.2	0.2	0.9	1.4	2.1	2.3	2.5
50°	0.2	0.5	0.5	0.9	1.4	2.1	2.5	2.7
52.5°	0.5	0.5	0.5	0.9	1.6	2.1	2.7	3.0
55°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	3.0
57.5°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	2.7
60°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	2.7
62.5°	0.5	0.5	0.7	0.9	1.6	2.1	2.7	2.7
65°	0.5	0.7	0.7	0.9	1.6	2.1	2.5	2.7
67.5°	0.5	0.5	0.7	0.9	1.6	2.1	2.5	2.7
70°	0.5	0.5	0.7	0.9	1.4	1.8	2.3	2.5
72.5°	0.5	0.5	0.7	0.9	1.4	1.8	2.1	2.3
75°	0.5	0.5	0.7	0.9	1.1	1.6	2.1	2.1
77.5°	0.5	0.5	0.7	0.7	1.1	1.4	1.8	1.8
80°	0.5	0.5	0.7	0.7	0.9	1.1	1.4	1.6
82.5°	0.5	0.5	0.5	0.7	0.7	0.9	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)