

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: P1339480

Luminaire Tested: P3A05R459740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339480
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: P3A05R459740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

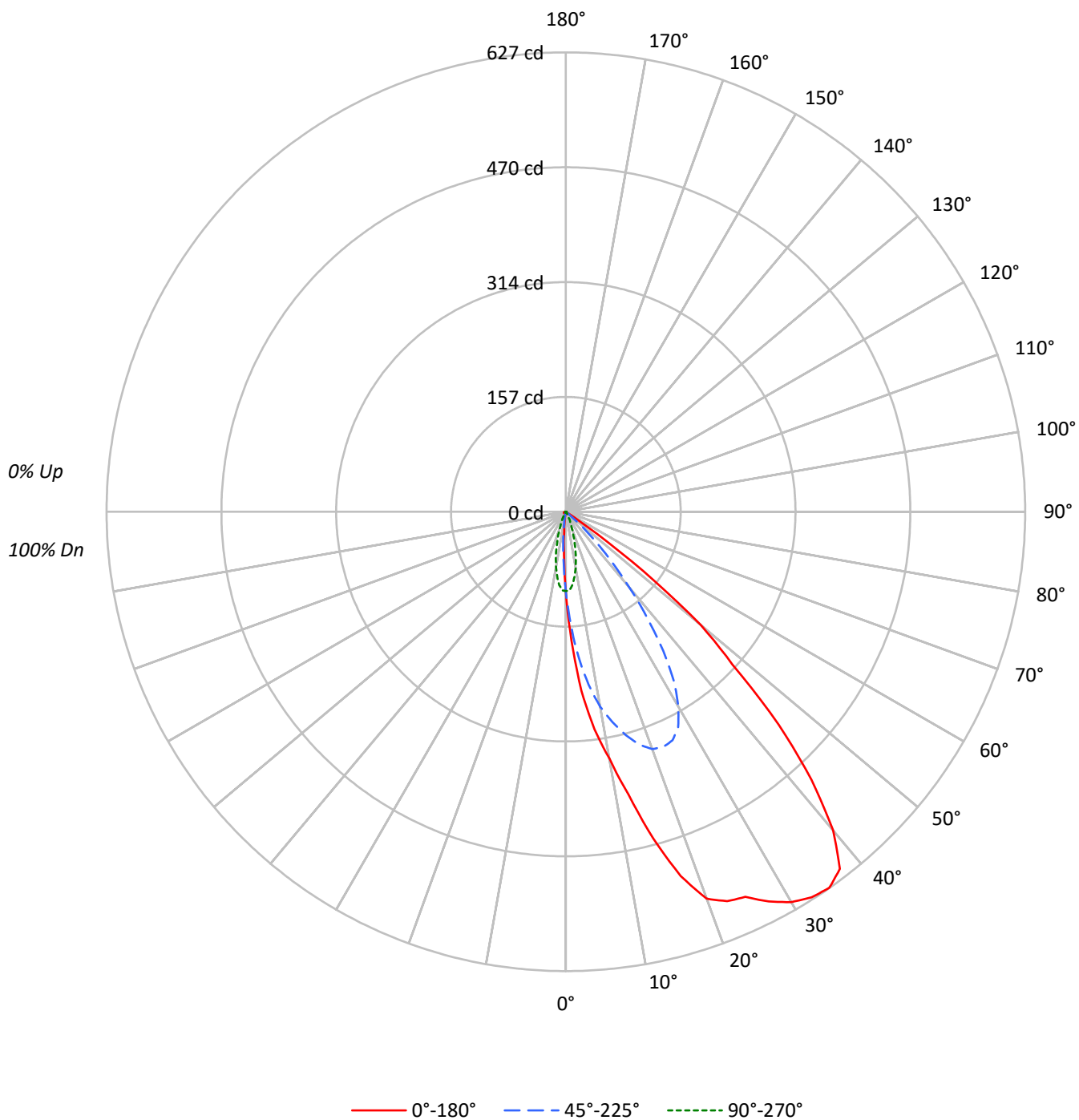
Lumens per Lamp: N/A
Luminaire Lumens: 284.0 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	23704	23704	23704	23704	23704
5°	53995	43804	22166	8893	6075
10°	76106	60186	17145	1959	891
15°	104881	71601	10942	658	545
20°	131145	80414	5717	443	443
25°	140331	83279	2637	339	411
30°	155771	77759	1215	354	430
35°	167790	61998	375	375	509
40°	162361	38415	200	487	601
45°	127486	18110	217	589	744
50°	81908	2115	341	716	989
55°	12425	191	382	918	1185
60°	219	219	439	1053	1272
65°	259	259	519	1090	1505
70°	321	321	641	1218	1667
75°	169	424	847	1440	1779
80°	253	631	884	1515	2147
85°	0	503	1258	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 127486 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	4.2
10°-20°	42.8	15.1
20°-30°	75.1	26.4
30°-40°	85.3	30.0
40°-50°	55.2	19.4
50°-60°	10.9	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°	129.7	45.7
0°-40°	215.0	75.7
0°-60°	281.1	99.0
0°-90°	284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	284.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	108	108	108	108	108	
5°	245	199	101	40	28	26
15°	462	315	48	3	2	133
25°	580	344	11	1	2	272
35°	627	232	1	1	2	385
45°	411	58	1	2	2	310
55°	32	0	1	2	3	62
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°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	175.5	175.0	175.8	171.0	170.8	167.2	166.3	162.2	156.8	154.1	148.0
5°	245.3	243.0	243.0	237.3	235.4	231.3	224.4	215.9	208.8	199.0	188.6
7.5°	299.3	298.8	298.8	293.8	289.1	283.4	274.1	264.4	252.9	238.0	222.8
10°	341.8	342.5	340.4	335.8	329.0	322.8	311.9	300.0	286.0	270.3	250.1
12.5°	395.5	390.2	388.6	378.4	369.6	357.7	344.6	331.1	313.8	294.0	271.2
15°	462.0	455.3	448.7	435.1	420.4	402.1	381.7	361.7	339.4	315.4	286.9
17.5°	521.3	521.3	512.5	491.2	472.2	445.1	417.5	390.9	364.6	333.0	297.4
20°	562.0	559.8	553.2	537.5	515.9	485.2	449.4	412.1	380.3	344.6	303.3
22.5°	575.3	574.8	575.0	565.8	548.4	516.6	472.6	428.7	388.8	347.5	300.5
25°	580.0	581.0	583.3	579.8	566.7	534.9	486.9	436.5	391.4	344.2	289.5
27.5°	599.7	597.8	600.4	598.1	583.3	545.3	489.7	434.6	385.7	332.0	270.1
30°	615.2	614.7	619.2	617.1	597.8	552.0	487.1	427.5	371.7	307.1	239.4
32.5°	623.9	624.2	625.4	616.6	588.1	537.5	474.3	413.0	345.3	274.6	199.5
35°	626.8	625.4	618.7	597.1	558.2	504.0	442.7	378.6	309.5	231.6	157.7
37.5°	614.4	607.1	590.0	557.7	512.5	462.0	402.3	335.1	260.3	182.9	117.6
40°	567.2	557.4	535.8	502.8	460.8	411.8	350.8	280.5	201.9	134.2	82.7
42.5°	496.4	491.4	468.8	440.1	404.5	355.1	292.1	220.9	149.4	92.6	52.7
45°	411.1	404.7	390.5	365.1	337.0	285.3	226.6	158.2	101.9	58.4	26.1
47.5°	308.3	308.8	299.0	279.8	252.2	209.0	155.1	106.2	63.9	30.2	5.9
50°	240.1	236.8	223.0	203.3	171.2	139.2	100.2	67.0	33.7	6.2	0.5
52.5°	133.0	135.1	127.8	121.4	104.7	83.1	59.1	34.0	7.1	0.7	0.5
55°	32.5	34.4	33.0	33.7	34.9	31.1	24.0	6.7	0.7	0.5	0.5
57.5°	0.7	0.7	0.7	0.7	1.2	1.7	1.7	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°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	144.9	140.4	132.1	107.4	86.2	69.6	59.6	58.7
5°	179.3	167.2	149.6	100.7	63.7	40.4	29.2	27.6
7.5°	206.6	189.5	162.5	89.8	43.5	20.7	11.4	9.5
10°	229.2	205.0	169.1	77.0	27.3	8.8	4.8	4.0
12.5°	244.6	215.4	170.3	62.7	15.7	4.3	3.1	2.9
15°	254.6	218.7	164.6	48.2	8.8	2.9	2.6	2.4
17.5°	258.6	215.9	153.7	34.9	4.8	2.1	2.1	2.1
20°	256.7	206.6	137.5	24.5	3.1	1.9	1.9	1.9
22.5°	247.7	190.7	117.3	16.4	2.1	1.7	1.7	1.7
25°	229.9	169.1	96.0	10.9	1.4	1.4	1.7	1.7
27.5°	203.3	142.5	73.4	7.4	1.2	1.4	1.7	1.7
30°	169.8	112.8	52.7	4.8	1.2	1.4	1.4	1.7
32.5°	134.9	82.2	34.7	2.9	1.0	1.4	1.7	1.9
35°	97.9	56.1	22.1	1.4	1.2	1.4	1.7	1.9
37.5°	68.6	36.6	12.8	1.0	1.2	1.4	1.9	1.9
40°	44.7	20.4	4.8	0.7	1.2	1.7	1.9	2.1
42.5°	23.3	7.1	1.0	0.7	1.2	1.7	2.1	2.4
45°	5.9	1.0	0.2	0.7	1.4	1.9	2.4	2.4
47.5°	0.7	0.2	0.2	1.0	1.4	2.1	2.4	2.6
50°	0.2	0.5	0.5	1.0	1.4	2.1	2.6	2.9
52.5°	0.5	0.5	0.5	1.0	1.7	2.1	2.9	3.1
55°	0.5	0.5	0.5	1.0	1.7	2.4	2.9	3.1
57.5°	0.5	0.5	0.5	1.0	1.7	2.4	2.9	2.9
60°	0.5	0.5	0.5	1.0	1.7	2.4	2.9	2.9
62.5°	0.5	0.5	0.7	1.0	1.7	2.1	2.9	2.9
65°	0.5	0.7	0.7	1.0	1.7	2.1	2.6	2.9
67.5°	0.5	0.5	0.7	1.0	1.7	2.1	2.6	2.9
70°	0.5	0.5	0.7	1.0	1.4	1.9	2.4	2.6
72.5°	0.5	0.5	0.7	1.0	1.4	1.9	2.1	2.4
75°	0.5	0.5	0.7	1.0	1.2	1.7	2.1	2.1
77.5°	0.5	0.5	0.7	0.7	1.2	1.4	1.9	1.9
80°	0.5	0.5	0.7	0.7	1.0	1.2	1.4	1.7
82.5°	0.5	0.5	0.5	0.7	0.7	1.0	1.2	1.2
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)