

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: P1343090

Luminaire Tested: P3A09R459840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343090
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: P3A09R459840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

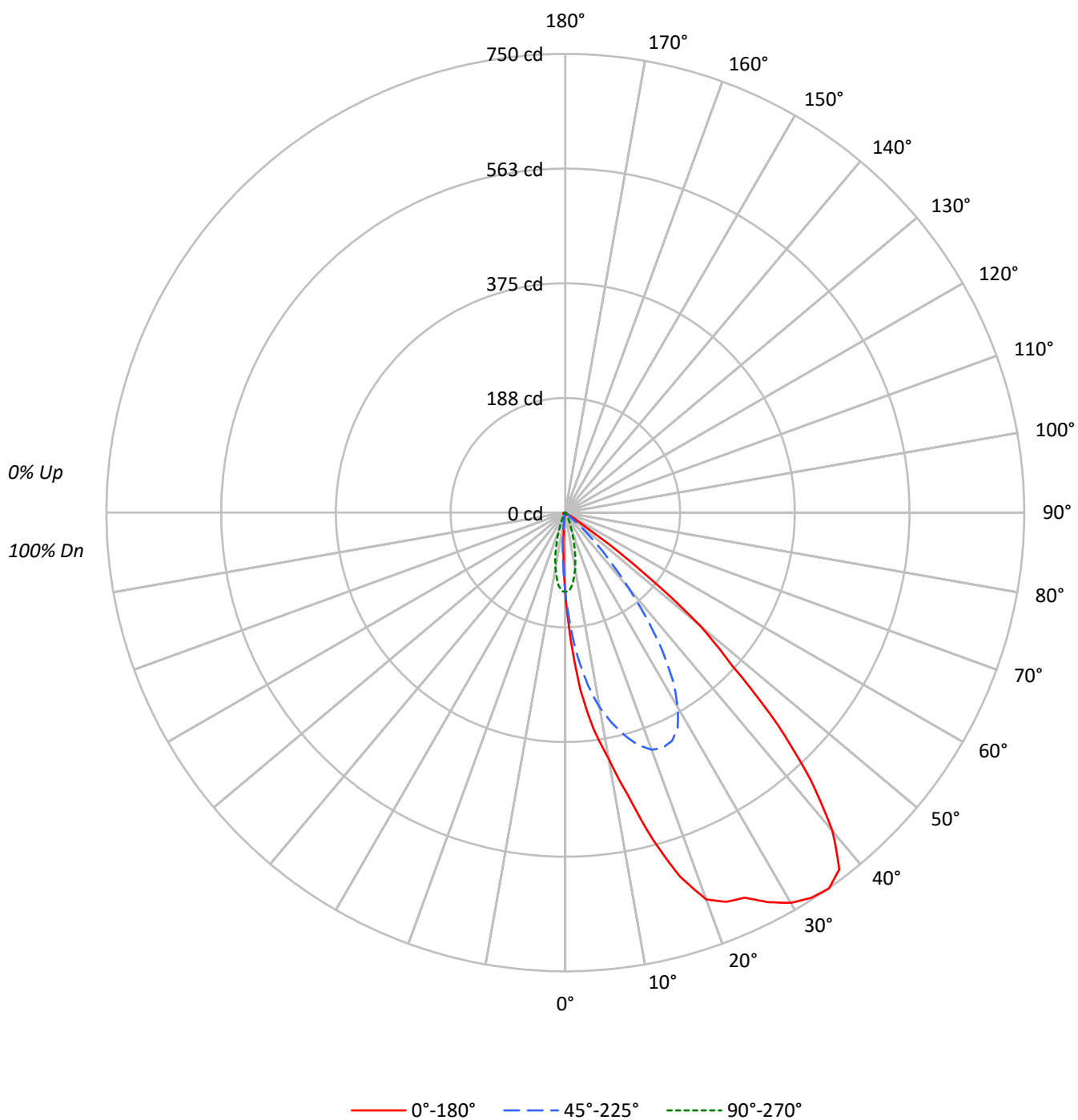
Lumens per Lamp: N/A
Luminaire Lumens: 340.0 lumens
Efficiency: N/A
Efficacy: 30.9 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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

TEST NUMBER: P1343090

CATALOG NUMBER: P3A09R459840DE010 E3A301WMH

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	94	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°	28375	28375	28375	28375	28375
5°	64649	52454	26546	10632	7264
10°	91114	72054	20507	2338	1069
15°	125563	85721	13099	772	636
20°	157000	96282	6837	537	537
25°	168010	99683	3170	411	484
30°	186484	93103	1443	430	506
35°	200876	74204	455	455	616
40°	194364	46000	258	573	744
45°	152636	21677	279	713	868
50°	98078	2524	375	887	1160
55°	14910	229	421	1070	1415
60°	263	263	482	1228	1491
65°	311	311	571	1349	1764
70°	385	385	705	1475	1988
75°	254	508	932	1694	2203
80°	379	758	1137	1768	2526
85°	0	755	1510	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 152636 cd/sqm

TEST NUMBER: P1343090

CATALOG NUMBER: P3A09R459840DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	4.2
10°-20°	51.2	15.1
20°-30°	89.9	26.4
30°-40°	102.1	30.0
40°-50°	66.1	19.4
50°-60°	13.0	3.8
60°-70°	1.6	0.5
70°-80°	1.3	0.4
80°-90°	0.6	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°	155.3	45.7
0°-40°	257.4	75.7
0°-60°	336.5	99.0
0°-90°	340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	340.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	129	129	129	129	129	
5°	294	238	121	48	33	31
15°	553	378	58	3	3	159
25°	694	412	13	2	2	326
35°	750	277	2	2	2	461
45°	492	70	1	2	3	371
55°	39	1	1	3	4	74
65°	1	1	1	3	3	1
75°	0	1	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1343090

CATALOG NUMBER: P3A09R459840DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4
2.5°	210.1	209.6	210.4	204.7	204.4	200.2	199.0	194.2	187.7	184.5	177.1
5°	293.7	290.9	290.9	284.1	281.8	277.0	268.7	258.5	249.9	238.3	225.8
7.5°	358.3	357.7	357.7	351.7	346.0	339.2	328.1	316.5	302.8	284.9	266.7
10°	409.2	410.0	407.5	402.1	393.8	386.4	373.3	359.1	342.4	323.6	299.4
12.5°	473.4	467.2	465.2	453.0	442.4	428.2	412.6	396.4	375.6	352.0	324.7
15°	553.1	545.1	537.1	520.9	503.3	481.4	456.9	433.1	406.3	377.6	343.5
17.5°	624.1	624.1	613.6	588.0	565.3	532.9	499.9	468.0	436.5	398.7	356.0
20°	672.8	670.2	662.2	643.5	617.6	580.9	538.0	493.3	455.2	412.6	363.1
22.5°	688.7	688.1	688.4	677.3	656.6	618.4	565.8	513.2	465.5	416.0	359.7
25°	694.4	695.5	698.4	694.1	678.4	640.3	582.9	522.6	468.6	412.0	346.6
27.5°	718.0	715.7	718.8	716.0	698.4	652.9	586.3	520.4	461.8	397.5	323.3
30°	736.5	735.9	741.3	738.7	715.7	660.8	583.2	511.8	445.0	367.7	286.6
32.5°	747.0	747.3	748.7	738.2	704.0	643.5	567.8	494.5	413.4	328.7	238.8
35°	750.4	748.7	740.7	714.8	668.2	603.4	530.0	453.2	370.5	277.2	188.8
37.5°	735.6	726.8	706.3	667.6	613.6	553.1	481.7	401.2	311.6	218.9	140.8
40°	679.0	667.4	641.5	602.0	551.6	493.1	420.0	335.8	241.7	160.7	99.0
42.5°	594.3	588.3	561.3	526.9	484.2	425.1	349.7	264.4	178.9	110.9	63.1
45°	492.2	484.5	467.5	437.0	403.5	341.5	271.3	189.4	122.0	69.9	31.3
47.5°	369.1	369.6	358.0	335.0	302.0	250.2	185.7	127.1	76.5	36.1	7.1
50°	287.5	283.5	267.0	243.4	205.0	166.6	120.0	80.2	40.4	7.4	0.6
52.5°	159.2	161.8	153.0	145.3	125.4	99.5	70.8	40.7	8.5	0.9	0.6
55°	39.0	41.2	39.5	40.4	41.8	37.2	28.7	8.0	0.9	0.6	0.6
57.5°	0.9	0.9	0.9	0.9	1.4	2.0	2.0	0.6	0.6	0.6	0.6
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1343090

CATALOG NUMBER: P3A09R459840DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	129.4	129.4	129.4	129.4	129.4	129.4	129.4	129.4
2.5°	173.5	168.0	158.1	128.5	103.2	83.3	71.4	70.2
5°	214.7	200.2	179.1	120.6	76.2	48.3	35.0	33.0
7.5°	247.4	226.9	194.5	107.5	52.0	24.7	13.6	11.4
10°	274.4	245.4	202.5	92.1	32.7	10.5	5.7	4.8
12.5°	292.9	257.9	203.9	75.1	18.8	5.1	3.7	3.4
15°	304.8	261.9	197.1	57.7	10.5	3.4	3.1	2.8
17.5°	309.7	258.5	184.0	41.8	5.7	2.6	2.6	2.6
20°	307.4	247.4	164.6	29.3	3.7	2.3	2.3	2.3
22.5°	296.6	228.3	140.5	19.6	2.6	2.0	2.0	2.0
25°	275.2	202.5	114.9	13.1	1.7	1.7	2.0	2.0
27.5°	243.4	170.6	87.9	8.8	1.4	1.7	2.0	2.0
30°	203.3	135.1	63.1	5.7	1.4	1.7	1.7	2.0
32.5°	161.5	98.4	41.5	3.4	1.1	1.7	2.0	2.3
35°	117.1	67.1	26.4	1.7	1.4	1.7	2.0	2.3
37.5°	82.2	43.8	15.4	1.1	1.4	1.7	2.3	2.3
40°	53.5	24.5	5.7	0.9	1.4	2.0	2.3	2.6
42.5°	27.9	8.5	1.1	0.9	1.4	2.0	2.6	2.8
45°	7.1	1.1	0.3	0.9	1.7	2.3	2.8	2.8
47.5°	0.9	0.3	0.3	1.1	1.7	2.6	2.8	3.1
50°	0.3	0.6	0.6	1.1	1.7	2.6	3.1	3.4
52.5°	0.6	0.6	0.6	1.1	2.0	2.6	3.4	3.7
55°	0.6	0.6	0.6	1.1	2.0	2.8	3.4	3.7
57.5°	0.6	0.6	0.6	1.1	2.0	2.8	3.4	3.4
60°	0.6	0.6	0.6	1.1	2.0	2.8	3.4	3.4
62.5°	0.6	0.6	0.9	1.1	2.0	2.6	3.4	3.4
65°	0.6	0.9	0.9	1.1	2.0	2.6	3.1	3.4
67.5°	0.6	0.6	0.9	1.1	2.0	2.6	3.1	3.4
70°	0.6	0.6	0.9	1.1	1.7	2.3	2.8	3.1
72.5°	0.6	0.6	0.9	1.1	1.7	2.3	2.6	2.8
75°	0.6	0.6	0.9	1.1	1.4	2.0	2.6	2.6
77.5°	0.6	0.6	0.9	0.9	1.4	1.7	2.3	2.3
80°	0.6	0.6	0.9	0.9	1.1	1.4	1.7	2.0
82.5°	0.6	0.6	0.6	0.9	0.9	1.1	1.4	1.4
85°	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9
87.5°	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)