

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: P1343058

Luminaire Tested: P3A09R459830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343058
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: P3A09R459830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

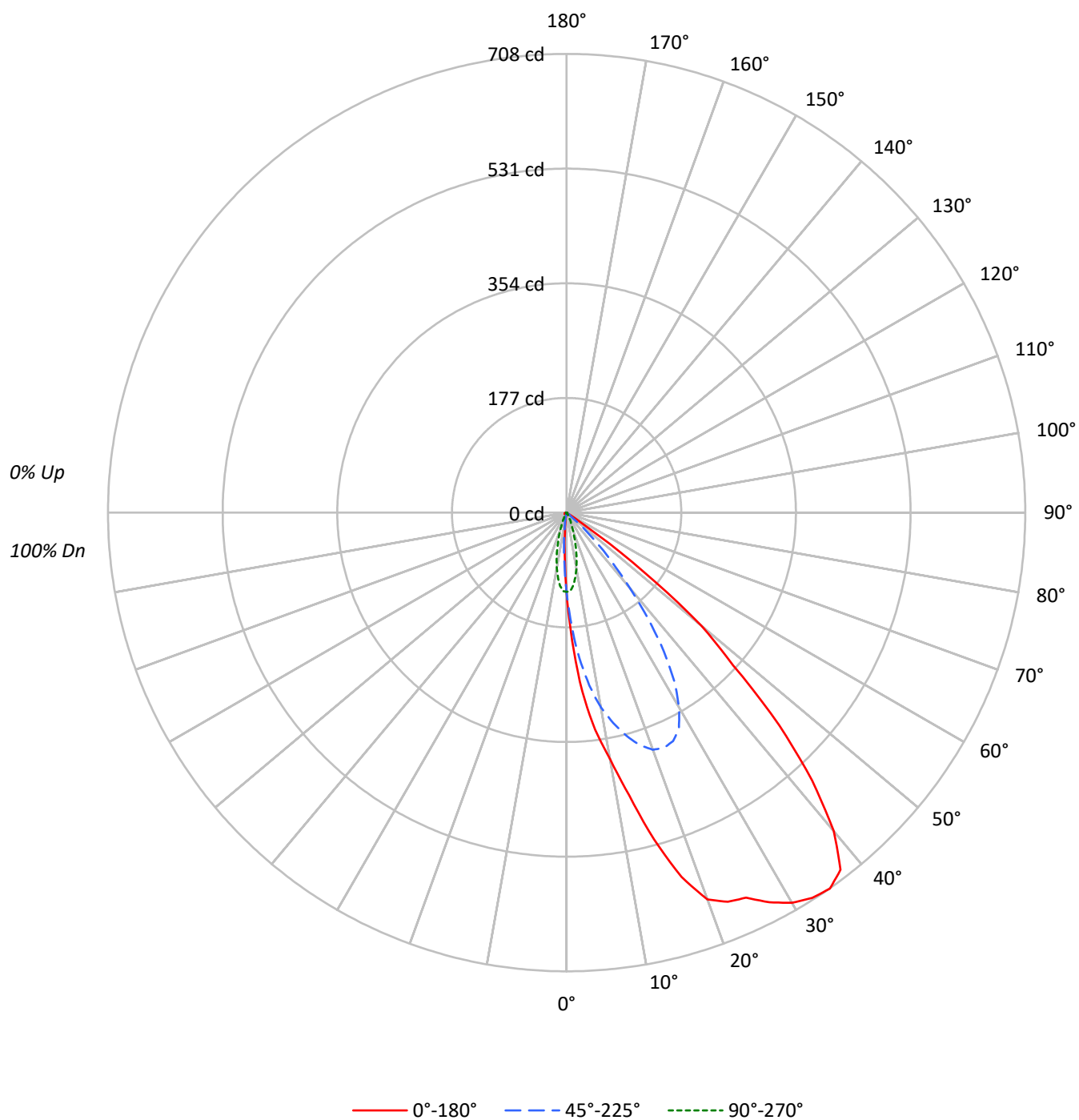
Lumens per Lamp: N/A
Luminaire Lumens: 321.0 lumens
Efficiency: N/A
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1343058

CATALOG NUMBER: P3A09R459830DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1343058

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26774	26774	26774	26774	26774
5°	61039	49527	25049	10037	6846
10°	86015	68024	19372	2204	1024
15°	118525	80931	12372	726	613
20°	148226	90891	6464	490	490
25°	158622	94118	2976	387	460
30°	176052	87887	1367	405	481
35°	189660	70055	428	428	562
40°	183515	43424	229	544	687
45°	144108	20467	248	651	837
50°	92585	2388	375	819	1092
55°	14069	191	421	1032	1338
60°	219	219	482	1184	1403
65°	259	259	571	1245	1660
70°	321	321	705	1346	1923
75°	254	424	932	1610	2033
80°	379	631	1010	1642	2399
85°	0	755	1258	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 144108 cd/sqm

TEST NUMBER: P1343058

CATALOG NUMBER: P3A09R459830DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	4.2
10°-20°	48.3	15.1
20°-30°	84.9	26.5
30°-40°	96.4	30.0
40°-50°	62.4	19.5
50°-60°	12.3	3.8
60°-70°	1.5	0.5
70°-80°	1.2	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°	146.6	45.7
0°-40°	243.0	75.7
0°-60°	317.7	99.0
0°-90°	321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	321.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	122	122	122	122	122	
5°	277	225	114	46	31	30
15°	522	356	54	3	3	150
25°	656	389	12	2	2	307
35°	708	262	2	2	2	436
45°	465	66	1	2	3	350
55°	37	0	1	3	4	70
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	

TEST NUMBER: P1343058

CATALOG NUMBER: P3A09R459830DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1
2.5°	198.4	197.9	198.7	193.3	193.0	189.0	187.9	183.4	177.2	174.2	167.2
5°	277.3	274.6	274.6	268.2	266.0	261.5	253.7	244.0	236.0	225.0	213.2
7.5°	338.3	337.7	337.7	332.1	326.7	320.3	309.8	298.8	285.9	269.0	251.8
10°	386.3	387.1	384.7	379.6	371.8	364.8	352.5	339.1	323.2	305.5	282.7
12.5°	447.0	441.1	439.2	427.6	417.7	404.3	389.5	374.2	354.6	332.3	306.6
15°	522.1	514.6	507.1	491.8	475.2	454.5	431.4	408.9	383.6	356.5	324.3
17.5°	589.3	589.3	579.3	555.2	533.7	503.1	471.9	441.9	412.1	376.4	336.1
20°	635.2	632.7	625.2	607.5	583.1	548.5	507.9	465.8	429.8	389.5	342.8
22.5°	650.2	649.7	649.9	639.5	619.9	583.9	534.2	484.6	439.5	392.7	339.6
25°	655.6	656.6	659.3	655.3	640.5	604.6	550.3	493.4	442.4	389.0	327.2
27.5°	677.8	675.7	678.7	676.0	659.3	616.4	553.6	491.3	436.0	375.3	305.2
30°	695.3	694.8	699.9	697.4	675.7	623.9	550.6	483.2	420.1	347.1	270.6
32.5°	705.2	705.5	706.8	696.9	664.7	607.5	536.1	466.8	390.3	310.3	225.5
35°	708.5	706.8	699.3	674.9	630.9	569.7	500.4	427.9	349.8	261.7	178.3
37.5°	694.5	686.2	666.8	630.3	579.3	522.1	454.8	378.8	294.2	206.7	132.9
40°	641.1	630.1	605.6	568.3	520.8	465.5	396.5	317.0	228.2	151.7	93.4
42.5°	561.1	555.4	529.9	497.4	457.2	401.3	330.2	249.7	168.9	104.7	59.6
45°	464.7	457.4	441.3	412.6	380.9	322.4	256.1	178.8	115.2	66.0	29.5
47.5°	348.5	349.0	338.0	316.2	285.1	236.2	175.3	120.0	72.2	34.1	6.7
50°	271.4	267.6	252.1	229.8	193.6	157.3	113.3	75.7	38.1	7.0	0.5
52.5°	150.3	152.8	144.4	137.2	118.4	94.0	66.8	38.4	8.1	0.8	0.5
55°	36.8	38.9	37.3	38.1	39.5	35.2	27.1	7.5	0.8	0.5	0.5
57.5°	0.8	0.8	0.8	0.8	1.3	1.9	1.9	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	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
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: P1343058

CATALOG NUMBER: P3A09R459830DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	122.1	122.1	122.1	122.1	122.1	122.1	122.1	122.1
2.5°	163.8	158.7	149.3	121.3	97.4	78.7	67.4	66.3
5°	202.7	189.0	169.1	113.8	71.9	45.6	33.0	31.1
7.5°	233.6	214.2	183.6	101.5	49.1	23.4	12.9	10.7
10°	259.1	231.7	191.1	87.0	30.9	9.9	5.4	4.6
12.5°	276.5	243.5	192.5	70.9	17.7	4.8	3.5	3.2
15°	287.8	247.2	186.0	54.5	9.9	3.2	3.0	2.7
17.5°	292.3	244.0	173.7	39.5	5.4	2.4	2.4	2.4
20°	290.2	233.6	155.4	27.7	3.5	2.1	2.1	2.1
22.5°	280.0	215.6	132.6	18.5	2.4	1.9	1.9	1.9
25°	259.9	191.1	108.5	12.3	1.6	1.6	1.9	1.9
27.5°	229.8	161.1	83.0	8.3	1.3	1.6	1.9	1.9
30°	191.9	127.5	59.6	5.4	1.3	1.6	1.6	1.9
32.5°	152.5	92.9	39.2	3.2	1.1	1.6	1.9	2.1
35°	110.6	63.4	25.0	1.6	1.3	1.6	1.9	2.1
37.5°	77.6	41.3	14.5	1.1	1.3	1.6	2.1	2.1
40°	50.5	23.1	5.4	0.8	1.3	1.9	2.1	2.4
42.5°	26.3	8.1	1.1	0.8	1.3	1.9	2.4	2.7
45°	6.7	1.1	0.3	0.8	1.6	2.1	2.7	2.7
47.5°	0.8	0.3	0.3	1.1	1.6	2.4	2.7	3.0
50°	0.3	0.5	0.5	1.1	1.6	2.4	3.0	3.2
52.5°	0.5	0.5	0.5	1.1	1.9	2.4	3.2	3.5
55°	0.5	0.5	0.5	1.1	1.9	2.7	3.2	3.5
57.5°	0.5	0.5	0.5	1.1	1.9	2.7	3.2	3.2
60°	0.5	0.5	0.5	1.1	1.9	2.7	3.2	3.2
62.5°	0.5	0.5	0.8	1.1	1.9	2.4	3.2	3.2
65°	0.5	0.8	0.8	1.1	1.9	2.4	3.0	3.2
67.5°	0.5	0.5	0.8	1.1	1.9	2.4	3.0	3.2
70°	0.5	0.5	0.8	1.1	1.6	2.1	2.7	3.0
72.5°	0.5	0.5	0.8	1.1	1.6	2.1	2.4	2.7
75°	0.5	0.5	0.8	1.1	1.3	1.9	2.4	2.4
77.5°	0.5	0.5	0.8	0.8	1.3	1.6	2.1	2.1
80°	0.5	0.5	0.8	0.8	1.1	1.3	1.6	1.9
82.5°	0.5	0.5	0.5	0.8	0.8	1.1	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)