

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: P1345418

Luminaire Tested: P3A13R359030D2WDE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359030D2WDE010 E3A301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

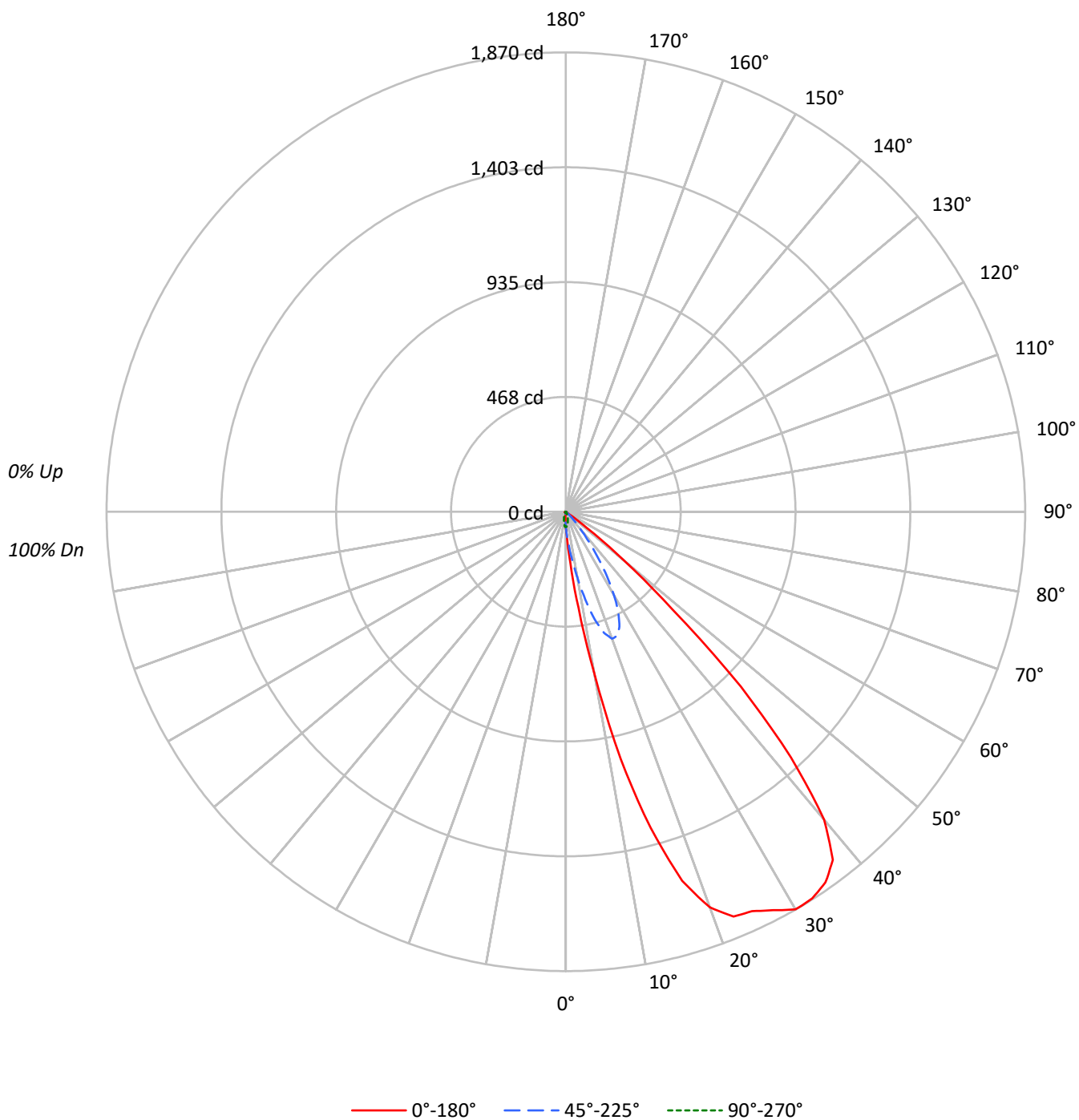
Lumens per Lamp: N/A
Luminaire Lumens: 588.0 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74		
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	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	46	42	51	46	42	41		
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13552	13552	13552	13552	13552
5°	46115	29980	12657	5349	3940
10°	148427	60765	9998	2004	1291
15°	302431	103043	7060	726	477
20°	399945	128344	4550	257	257
25°	433961	124773	2565	121	266
30°	473389	99433	1063	127	279
35°	493250	61890	294	134	294
40°	468077	27051	143	315	458
45°	312467	10792	155	496	806
50°	104798	1808	375	716	1092
55°	5849	191	421	994	1415
60°	482	219	702	1140	1623
65°	571	259	830	1349	1920
70°	321	321	1026	1667	2052
75°	424	424	1356	1779	2203
80°	0	631	2020	2020	2020
85°	0	1258	4026	1258	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 312467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	1.8
10°-20°	84.4	14.4
20°-30°	178.2	30.3
30°-40°	202.2	34.4
40°-50°	99.5	16.9
50°-60°	8.6	1.5
60°-70°	1.8	0.3
70°-80°	1.6	0.3
80°-90°	0.8	0.1
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°	273.4	46.5
0°-40°	475.7	80.9
0°-60°	583.8	99.3
0°-90°	588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	588.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	210	136	58	24	18	34
15°	1332	454	31	3	2	379
25°	1794	516	11	0	1	835
35°	1843	231	1	0	1	1136
45°	1008	35	0	2	3	744
55°	15	0	1	3	4	60
65°	1	0	2	3	4	1
75°	0	0	2	2	3	0
85°	0	0	2	0	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°	67.5°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	107.1	109.8	108.7	108.2	107.7	105.6	100.8	100.3	95.5	92.4	76.5
5°	209.5	205.3	206.4	200.6	193.2	182.6	175.8	161.0	148.8	136.2	89.2
7.5°	394.8	389.0	377.9	361.0	343.6	320.9	286.6	259.2	227.5	197.4	99.2
10°	666.6	663.5	649.2	605.9	567.9	507.2	450.2	390.1	330.9	272.9	106.1
12.5°	1029.8	1008.1	982.3	924.8	849.8	773.8	661.4	557.4	462.9	365.8	106.6
15°	1332.2	1318.5	1282.1	1207.1	1116.9	1007.1	873.6	733.7	591.2	453.9	101.3
17.5°	1575.6	1554.4	1507.5	1434.1	1330.1	1187.6	1031.4	860.9	687.2	516.7	92.4
20°	1713.9	1702.8	1666.9	1593.5	1480.0	1324.3	1146.4	948.0	747.4	550.0	80.8
22.5°	1783.5	1775.6	1749.2	1690.6	1584.5	1427.8	1224.0	993.4	764.8	546.3	68.6
25°	1793.6	1791.4	1768.7	1724.4	1635.7	1480.6	1257.8	1001.8	750.6	515.7	57.0
27.5°	1828.4	1821.0	1794.1	1749.7	1660.5	1489.5	1246.2	972.8	704.6	461.8	47.5
30°	1869.6	1864.3	1837.4	1791.4	1685.9	1481.1	1205.0	908.4	631.3	392.7	35.4
32.5°	1866.4	1864.3	1841.6	1793.0	1667.9	1431.5	1131.7	811.8	531.5	309.8	22.2
35°	1842.6	1835.3	1806.7	1731.8	1565.5	1303.7	992.3	680.9	420.7	231.2	14.3
37.5°	1785.6	1769.8	1721.8	1594.6	1382.4	1106.9	808.1	525.7	297.7	154.7	9.0
40°	1635.2	1615.1	1518.6	1365.0	1142.7	872.0	601.2	361.6	196.4	94.5	3.7
42.5°	1356.5	1315.9	1219.3	1061.5	853.0	616.5	394.8	234.4	115.6	57.0	1.1
45°	1007.6	976.5	875.1	732.1	559.0	395.3	239.1	126.7	63.9	34.8	0.5
47.5°	586.9	567.9	515.7	421.7	308.8	207.4	122.5	68.1	37.5	16.9	0.5
50°	307.2	283.4	243.9	184.7	136.2	95.5	59.6	36.4	18.5	5.3	0.5
52.5°	107.7	106.1	96.6	72.8	59.1	42.8	29.0	15.8	5.3	1.1	0.5
55°	15.3	15.3	14.3	15.8	16.9	15.3	10.0	4.2	1.1	0.5	0.5
57.5°	1.1	1.1	1.1	1.6	2.1	2.1	1.6	0.5	0.5	0.5	1.1
60°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
62.5°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
65°	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
77.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
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):

	90°	112.5°	135°	157.5°	180°
0°	61.8	61.8	61.8	61.8	61.8
2.5°	61.2	49.1	39.1	34.3	32.7
5°	57.5	36.9	24.3	19.0	17.9
7.5°	51.2	26.4	14.8	10.6	10.0
10°	44.9	19.0	9.0	6.3	5.8
12.5°	37.5	13.2	5.8	3.7	3.2
15°	31.1	9.0	3.2	2.6	2.1
17.5°	24.8	5.8	2.1	1.6	2.1
20°	19.5	3.7	1.1	1.1	1.1
22.5°	14.8	2.1	1.1	1.1	1.1
25°	10.6	1.1	0.5	0.5	1.1
27.5°	7.4	0.5	0.5	0.5	1.1
30°	4.2	0.5	0.5	0.5	1.1
32.5°	2.1	0.5	0.5	1.1	1.1
35°	1.1	0.5	0.5	1.1	1.1
37.5°	0.5	0.5	0.5	1.1	1.6
40°	0.5	0.5	1.1	1.6	1.6
42.5°	0.5	0.5	1.1	1.6	2.1
45°	0.5	1.1	1.6	2.1	2.6
47.5°	1.1	1.1	2.1	2.6	3.2
50°	1.1	1.6	2.1	3.2	3.2
52.5°	1.1	1.6	2.6	3.2	3.7
55°	1.1	2.1	2.6	3.7	3.7
57.5°	1.6	2.1	2.6	3.7	3.7
60°	1.6	2.1	2.6	3.7	3.7
62.5°	1.6	2.1	2.6	3.7	3.7
65°	1.6	2.1	2.6	3.7	3.7
67.5°	1.6	2.1	2.6	3.2	3.7
70°	1.6	2.1	2.6	3.2	3.2
72.5°	2.1	2.1	2.6	3.2	3.2
75°	1.6	2.1	2.1	2.6	2.6
77.5°	1.6	1.6	1.6	2.1	2.1
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.1	1.1	1.6	1.6
85°	1.6	1.1	0.5	1.1	1.1
87.5°	1.1	1.1	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)