

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: P1345235

Luminaire Tested: P3A13R30W2N902750DE010 E3A301WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R30W2N902750DE010 E3A301WMH_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

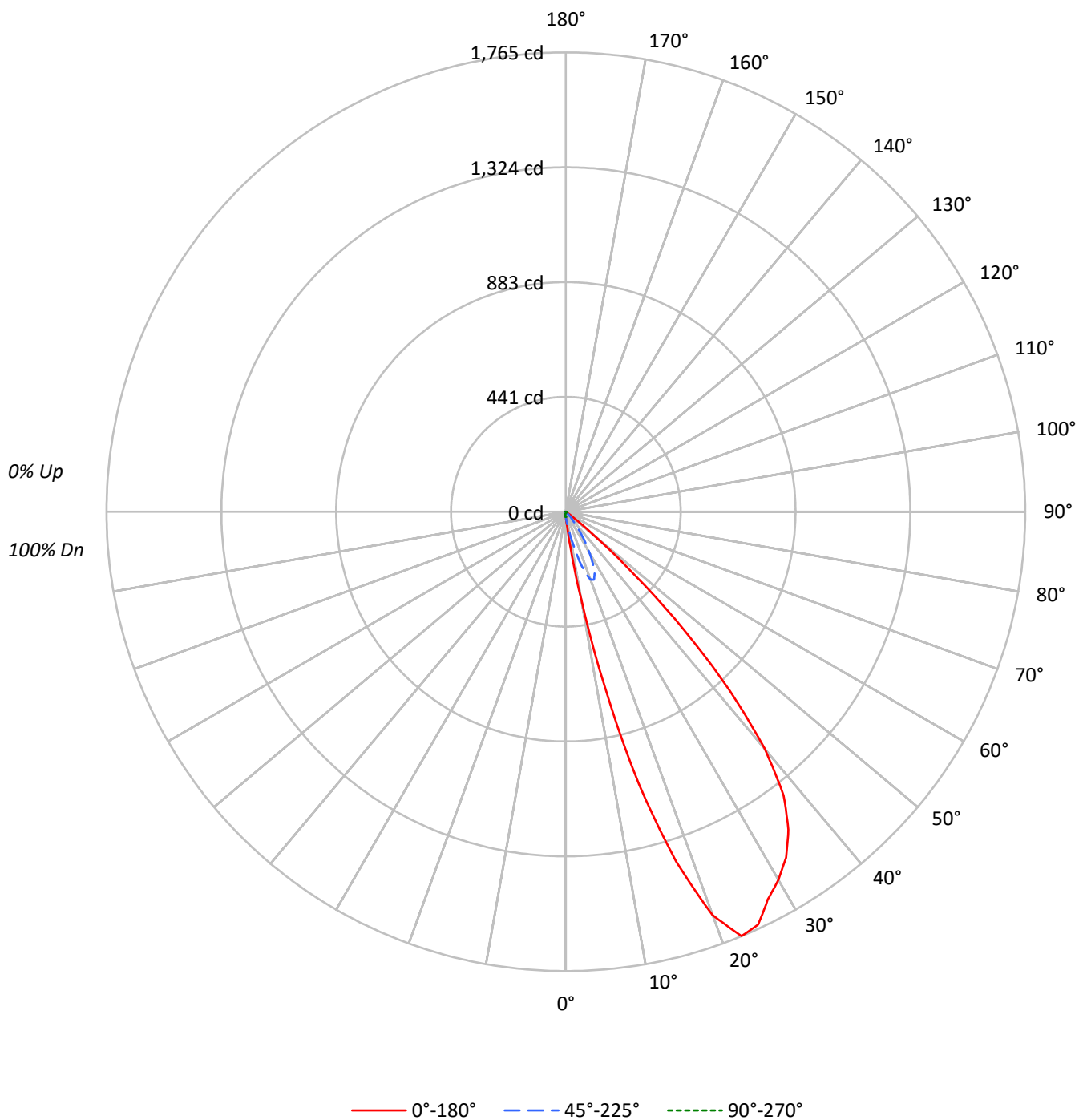
Lumens per Lamp: N/A
Luminaire Lumens: 416.0 lumens
Efficiency: N/A
Efficacy: 33.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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			0
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	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°	4342	4342	4342	4342	4342
5°	13053	8695	4094	1849	1497
10°	75594	18459	3206	846	601
15°	245858	41862	2247	182	91
20°	384707	64756	1423	0	0
25°	423266	63270	726	0	0
30°	413405	45627	279	0	0
35°	398995	25939	107	0	0
40°	340266	10992	0	0	0
45°	199680	4124	124	0	124
50°	48510	785	136	136	375
55°	4205	0	306	421	573
60°	175	0	351	482	833
65°	208	208	571	571	986
70°	256	256	705	705	962
75°	0	339	932	932	932
80°	0	505	1389	1010	1010
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 199680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.9
10°-20°	57.2	13.7
20°-30°	145.3	34.9
30°-40°	144.8	34.8
40°-50°	58.7	14.1
50°-60°	4.1	1.0
60°-70°	0.9	0.2
70°-80°	0.9	0.2
80°-90°	0.5	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°	206.1	49.5
0°-40°	350.9	84.4
0°-60°	413.7	99.4
0°-90°	416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	416.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	59	40	19	8	7	14
15°	1083	184	10	1	0	315
25°	1749	262	3	0	0	790
35°	1490	97	0	0	0	914
45°	644	13	0	0	0	491
55°	11	0	1	1	2	29
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	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°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	32.7	33.1	33.1	32.3	31.9	31.9	30.8	30.4	29.3	28.1	24.3
5°	59.3	58.2	56.6	56.6	53.2	51.3	48.7	45.6	43.3	39.5	28.1
7.5°	134.6	125.4	122.8	119.4	106.4	96.2	84.4	74.1	64.6	56.6	31.2
10°	339.5	321.6	306.8	276.7	239.1	203.0	169.5	130.8	104.2	82.9	33.5
12.5°	683.9	659.9	631.4	576.7	506.3	416.2	336.4	251.3	176.4	122.0	34.2
15°	1083.0	1042.3	997.8	928.3	813.1	683.9	539.8	404.1	283.2	184.4	33.5
17.5°	1408.4	1392.4	1326.6	1231.6	1090.6	924.1	746.6	561.1	382.0	241.4	31.2
20°	1648.6	1637.6	1558.1	1457.0	1298.1	1107.3	881.9	659.1	450.8	277.5	27.7
22.5°	1764.6	1762.7	1705.3	1601.9	1433.5	1217.2	968.9	715.8	472.1	282.4	23.2
25°	1749.4	1756.2	1723.5	1646.7	1485.2	1262.4	994.8	715.8	456.5	261.5	19.4
27.5°	1680.2	1684.7	1664.2	1605.3	1454.8	1229.7	958.7	669.8	411.3	224.7	16.0
30°	1632.7	1634.6	1609.1	1546.0	1386.3	1155.2	873.5	584.6	342.9	180.2	11.8
32.5°	1574.9	1574.5	1544.8	1472.6	1296.6	1050.7	765.6	483.1	263.4	136.8	6.8
35°	1490.5	1481.0	1440.7	1357.4	1162.8	910.0	627.6	368.0	189.7	96.9	4.2
37.5°	1374.5	1349.8	1292.8	1181.4	975.0	713.5	465.3	258.5	129.6	64.2	2.7
40°	1188.7	1162.4	1084.9	949.6	737.4	513.6	313.6	168.4	81.7	38.4	1.5
42.5°	932.1	914.2	809.7	674.7	486.9	327.7	188.5	99.6	46.0	22.0	0.4
45°	643.9	620.8	538.6	424.2	292.3	181.7	105.7	52.1	26.2	13.3	0.0
47.5°	355.4	326.9	279.4	219.7	147.1	95.4	53.2	28.1	14.8	6.5	0.0
50°	142.2	141.0	112.1	79.8	56.3	43.3	26.6	15.2	7.6	2.3	0.4
52.5°	49.8	49.8	43.0	35.0	27.4	19.8	13.3	7.2	2.7	0.8	0.4
55°	11.0	12.2	11.4	10.6	10.3	8.7	5.7	2.7	0.8	0.0	0.4
57.5°	1.1	1.1	1.1	1.5	1.9	1.9	1.5	0.8	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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°	19.8	19.8	19.8	19.8	19.8
2.5°	19.8	15.6	12.9	11.4	11.0
5°	18.6	11.8	8.4	7.2	6.8
7.5°	16.7	8.7	5.7	4.6	4.2
10°	14.4	6.5	3.8	2.7	2.7
12.5°	12.2	4.9	2.3	1.1	0.8
15°	9.9	3.0	0.8	0.4	0.4
17.5°	7.6	1.9	0.0	0.0	0.0
20°	6.1	0.8	0.0	0.0	0.0
22.5°	4.6	0.4	0.0	0.0	0.0
25°	3.0	0.0	0.0	0.0	0.0
27.5°	1.9	0.0	0.0	0.0	0.0
30°	1.1	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.8	0.8
50°	0.4	0.4	0.4	0.8	1.1
52.5°	0.8	0.4	0.8	1.1	1.1
55°	0.8	0.8	1.1	1.5	1.5
57.5°	0.8	0.8	1.1	1.5	1.5
60°	0.8	0.8	1.1	1.5	1.9
62.5°	1.1	1.1	1.1	1.5	1.5
65°	1.1	1.1	1.1	1.5	1.9
67.5°	1.1	1.1	1.1	1.5	1.9
70°	1.1	1.1	1.1	1.5	1.5
72.5°	1.5	1.1	1.1	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.8	1.1	1.1
80°	1.1	0.8	0.8	0.8	0.8
82.5°	1.1	0.8	0.8	0.8	0.8
85°	1.1	0.8	0.4	0.4	0.4
87.5°	1.1	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)