

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: P1346108

Luminaire Tested: P3A13R409835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

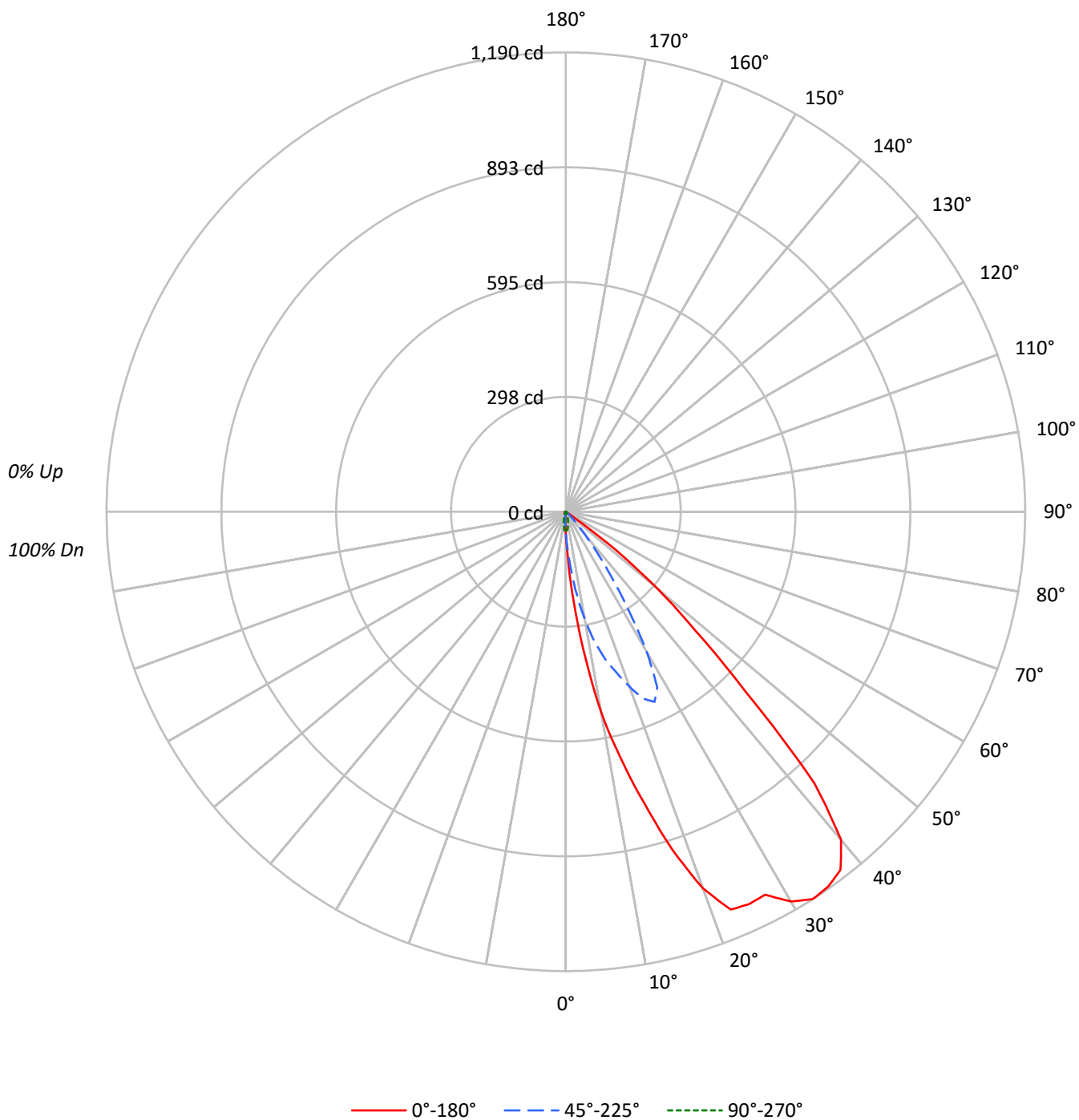
Lumens per Lamp: N/A
Luminaire Lumens: 439.0 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11381	11381	11381	11381	11381
5°	51376	32754	10213	3918	2862
10°	117811	63281	7192	1403	1069
15°	176800	89785	4472	749	681
20°	242081	112546	2590	443	513
25°	271371	131524	1355	363	460
30°	295185	106168	557	279	481
35°	317242	54342	187	402	589
40°	317366	21669	115	429	744
45°	202626	7257	217	682	1023
50°	105174	887	375	887	1262
55°	9061	153	421	1147	1567
60°	307	175	482	1316	1798
65°	363	208	778	1349	1920
70°	256	256	962	1410	1923
75°	339	339	932	1610	2203
80°	505	505	1389	1389	1894
85°	0	1006	2768	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 202626 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	2.3
10°-20°	59.4	13.5
20°-30°	130.1	29.6
30°-40°	148.2	33.8
40°-50°	78.2	17.8
50°-60°	9.2	2.1
60°-70°	1.7	0.4
70°-80°	1.4	0.3
80°-90°	0.6	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°	199.7	45.5
0°-40°	347.9	79.3
0°-60°	435.4	99.2
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	233	149	46	18	13	31
15°	779	396	20	3	3	229
25°	1122	544	6	2	2	517
35°	1185	203	1	2	2	735
45°	653	23	1	2	3	527
55°	24	0	1	3	4	74
65°	1	0	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	1	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°	67.5°
0°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	115.8	115.8	115.4	112.1	111.7	111.3	105.4	103.9	96.8	92.0	70.1
5°	233.4	228.2	227.8	221.9	211.9	198.5	190.0	176.2	162.9	148.8	86.5
7.5°	371.8	376.2	364.0	357.7	335.4	319.5	295.0	273.5	243.4	215.2	99.8
10°	529.1	521.3	509.1	496.8	472.7	444.1	407.8	369.6	326.1	284.2	107.2
12.5°	651.9	641.9	634.5	617.8	594.0	557.3	513.9	462.7	405.2	344.7	106.9
15°	778.8	768.8	752.1	737.2	702.0	660.8	613.7	546.2	475.7	395.5	99.1
17.5°	918.3	905.3	886.8	864.1	830.0	784.4	724.6	642.3	542.5	437.1	85.0
20°	1037.4	1029.6	1011.1	984.4	951.0	906.4	837.4	746.2	624.5	482.3	67.5
22.5°	1115.3	1108.3	1095.7	1072.3	1047.1	999.6	936.5	836.3	693.1	523.5	51.2
25°	1121.6	1118.7	1115.3	1107.5	1092.3	1058.6	997.0	889.0	735.8	543.6	37.8
27.5°	1118.3	1117.2	1116.4	1112.4	1102.3	1069.0	1005.9	896.8	730.2	512.4	27.8
30°	1165.8	1162.5	1160.6	1147.2	1120.9	1069.3	987.0	854.9	648.9	419.3	20.0
32.5°	1189.9	1189.2	1187.3	1174.3	1137.2	1070.1	955.0	753.6	514.6	302.8	13.7
35°	1185.1	1181.4	1174.7	1150.6	1099.0	1014.8	851.9	601.8	371.4	203.0	8.9
37.5°	1168.8	1160.2	1147.2	1103.8	1035.2	920.2	690.9	443.0	252.7	131.3	5.2
40°	1108.7	1097.2	1076.7	1023.7	933.5	758.4	510.9	299.4	165.9	75.7	1.5
42.5°	953.2	938.3	923.5	864.1	761.0	565.5	336.2	185.1	94.6	41.6	0.4
45°	653.4	634.8	614.4	571.4	488.7	342.5	200.0	104.3	49.0	23.4	0.4
47.5°	453.8	445.2	409.6	354.7	272.0	181.4	103.5	51.2	26.0	10.8	0.4
50°	308.3	298.7	257.1	204.1	144.7	86.8	47.5	25.6	11.5	2.6	0.4
52.5°	161.8	149.9	123.6	94.2	58.6	36.4	20.8	11.1	3.3	0.4	0.4
55°	23.7	21.9	17.8	14.5	13.0	10.0	5.9	2.6	0.4	0.4	0.7
57.5°	0.7	0.7	0.7	0.7	1.1	1.1	0.7	0.4	0.4	0.4	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
67.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.1
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	0.7	1.1
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
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°	51.9	51.9	51.9	51.9	51.9
2.5°	51.2	37.8	29.3	25.2	24.9
5°	46.4	27.1	17.8	13.7	13.0
7.5°	39.3	18.9	10.4	7.4	7.0
10°	32.3	13.0	6.3	5.2	4.8
12.5°	25.6	8.5	4.5	4.1	3.7
15°	19.7	5.6	3.3	3.0	3.0
17.5°	14.8	3.7	2.6	2.6	2.6
20°	11.1	2.6	1.9	2.2	2.2
22.5°	7.8	1.9	1.5	1.9	1.9
25°	5.6	1.5	1.5	1.9	1.9
27.5°	3.7	1.1	1.1	1.5	1.9
30°	2.2	0.7	1.1	1.5	1.9
32.5°	1.1	0.7	1.1	1.9	1.9
35°	0.7	1.1	1.5	1.9	2.2
37.5°	0.4	1.1	1.5	2.2	2.2
40°	0.4	1.1	1.5	2.2	2.6
42.5°	0.7	1.5	1.9	2.6	3.0
45°	0.7	1.5	2.2	3.0	3.3
47.5°	0.7	1.5	2.6	3.3	3.3
50°	1.1	1.9	2.6	3.3	3.7
52.5°	1.1	1.9	2.6	3.7	4.1
55°	1.1	1.9	3.0	3.7	4.1
57.5°	1.1	2.2	3.0	3.7	4.1
60°	1.1	1.9	3.0	3.7	4.1
62.5°	1.5	1.9	2.6	3.7	3.7
65°	1.5	1.9	2.6	3.7	3.7
67.5°	1.5	1.9	2.6	3.3	3.3
70°	1.5	1.9	2.2	3.0	3.0
72.5°	1.5	1.9	2.2	2.6	3.0
75°	1.1	1.5	1.9	2.2	2.6
77.5°	1.1	1.5	1.5	2.2	2.2
80°	1.1	1.1	1.1	1.5	1.5
82.5°	1.1	1.1	0.7	1.1	1.1
85°	1.1	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)