

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: P1346012

Luminaire Tested: P3A13R409727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346012
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: P3A13R409727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

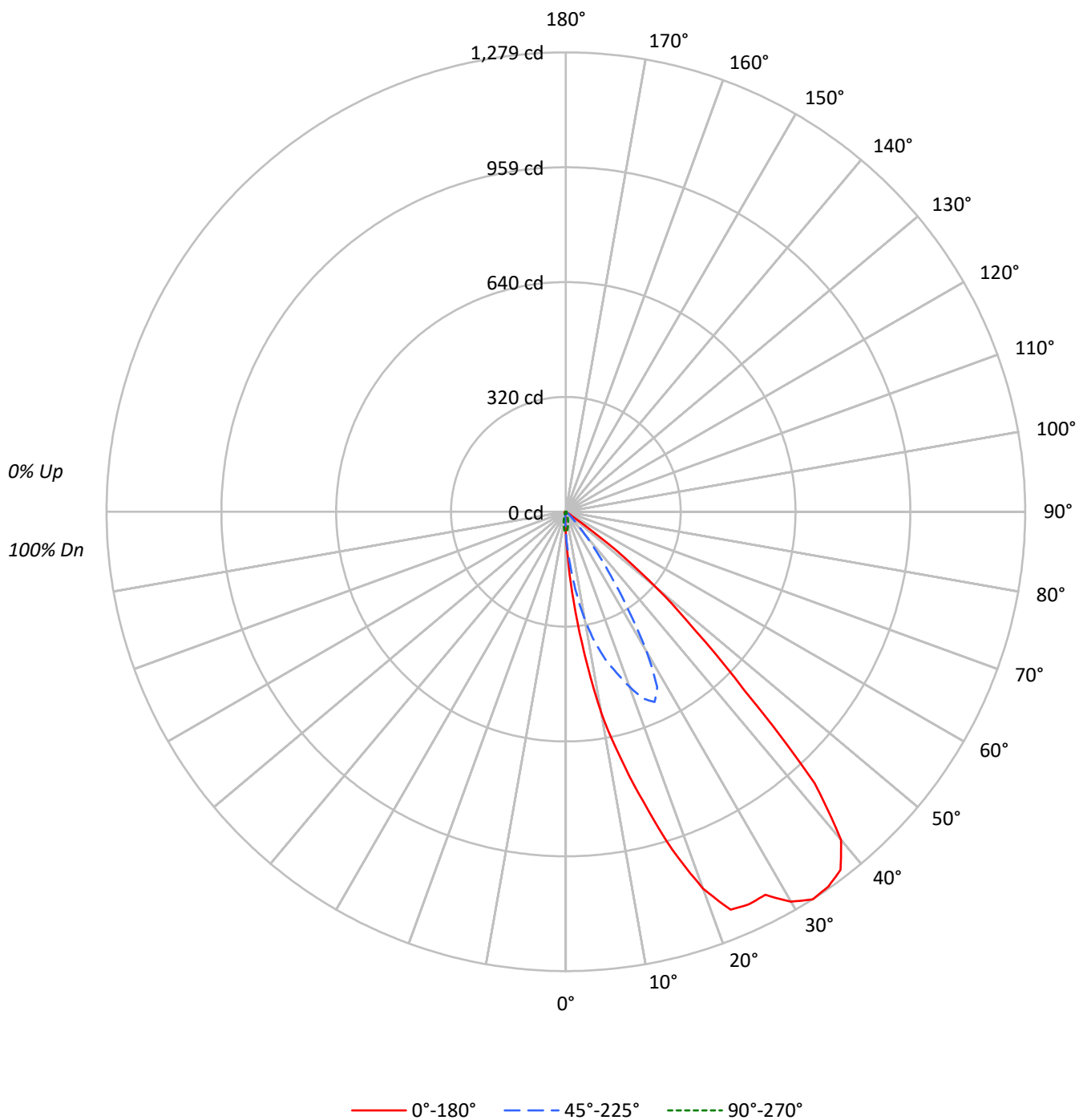
Lumens per Lamp: N/A
Luminaire Lumens: 472.0 lumens
Efficiency: N/A
Efficacy: 32.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12236	12236	12236	12236	12236
5°	55228	35219	10984	4204	3082
10°	126673	68046	7726	1514	1158
15°	190081	96550	4790	817	726
20°	260283	121017	2800	467	560
25°	291791	141395	1452	387	484
30°	317365	114144	608	304	506
35°	341094	58410	214	428	642
40°	341211	23301	115	458	802
45°	217852	7784	248	744	1116
50°	113088	955	409	955	1365
55°	9749	153	459	1223	1682
60°	351	175	526	1403	1930
65°	415	208	830	1453	2075
70°	256	256	1026	1539	2052
75°	339	339	1017	1694	2372
80°	505	505	1515	1515	2020
85°	0	1006	3019	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 217852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	2.3
10°-20°	63.9	13.5
20°-30°	139.9	29.6
30°-40°	159.4	33.8
40°-50°	84.1	17.8
50°-60°	9.9	2.1
60°-70°	1.8	0.4
70°-80°	1.5	0.3
80°-90°	0.7	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°	214.7	45.5
0°-40°	374.1	79.2
0°-60°	468.1	99.2
0°-90°	472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	472.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	251	160	50	19	14	34
15°	837	425	21	4	3	247
25°	1206	584	6	2	2	556
35°	1274	218	1	2	2	790
45°	702	25	1	2	4	566
55°	26	0	1	3	4	79
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°	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
2.5°	124.5	124.5	124.1	120.5	120.1	119.7	113.3	111.7	104.1	98.9	75.4
5°	250.9	245.3	244.9	238.6	227.8	213.4	204.3	189.5	175.1	160.0	92.9
7.5°	399.7	404.5	391.3	384.6	360.6	343.5	317.1	294.0	261.7	231.4	107.3
10°	568.9	560.5	547.3	534.2	508.2	477.5	438.4	397.3	350.7	305.6	115.3
12.5°	700.9	690.1	682.2	664.2	638.7	599.2	552.5	497.5	435.6	370.6	114.9
15°	837.3	826.6	808.6	792.7	754.8	710.5	659.8	587.2	511.4	425.3	106.5
17.5°	987.3	973.4	953.4	929.1	892.4	843.3	779.1	690.5	583.2	469.9	91.4
20°	1115.4	1107.0	1087.1	1058.4	1022.4	974.6	900.4	802.2	671.4	518.6	72.6
22.5°	1199.2	1191.6	1178.0	1152.9	1125.8	1074.7	1006.9	899.2	745.2	562.9	55.1
25°	1206.0	1202.8	1199.2	1190.8	1174.4	1138.1	1071.9	955.8	791.1	584.4	40.7
27.5°	1202.4	1201.2	1200.4	1196.0	1185.2	1149.3	1081.5	964.2	785.1	550.9	29.9
30°	1253.4	1249.8	1247.8	1233.5	1205.2	1149.7	1061.1	919.1	697.7	450.8	21.5
32.5°	1279.4	1278.6	1276.6	1262.6	1222.7	1150.5	1026.8	810.2	553.3	325.5	14.8
35°	1274.2	1270.2	1263.0	1237.1	1181.6	1091.1	915.9	647.1	399.3	218.2	9.6
37.5°	1256.6	1247.4	1233.5	1186.8	1113.0	989.3	742.8	476.3	271.7	141.2	5.6
40°	1192.0	1179.6	1157.7	1100.6	1003.7	815.4	549.3	321.9	178.3	81.4	1.6
42.5°	1024.8	1008.9	992.9	929.1	818.2	608.0	361.4	199.1	101.7	44.7	0.4
45°	702.5	682.6	660.6	614.3	525.4	368.2	215.0	112.1	52.7	25.1	0.4
47.5°	487.9	478.7	440.4	381.4	292.4	195.1	111.3	55.1	27.9	11.6	0.4
50°	331.5	321.1	276.5	219.4	155.6	93.3	51.1	27.5	12.4	2.8	0.4
52.5°	173.9	161.2	132.8	101.3	63.0	39.1	22.3	12.0	3.6	0.4	0.4
55°	25.5	23.5	19.1	15.6	14.0	10.8	6.4	2.8	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.2	1.2	0.8	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.2
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	55.8	55.8	55.8	55.8	55.8
2.5°	55.1	40.7	31.5	27.1	26.7
5°	49.9	29.1	19.1	14.8	14.0
7.5°	42.3	20.3	11.2	8.0	7.6
10°	34.7	14.0	6.8	5.6	5.2
12.5°	27.5	9.2	4.8	4.4	4.0
15°	21.1	6.0	3.6	3.2	3.2
17.5°	16.0	4.0	2.8	2.8	2.8
20°	12.0	2.8	2.0	2.4	2.4
22.5°	8.4	2.0	1.6	2.0	2.0
25°	6.0	1.6	1.6	2.0	2.0
27.5°	4.0	1.2	1.2	1.6	2.0
30°	2.4	0.8	1.2	1.6	2.0
32.5°	1.2	0.8	1.2	2.0	2.0
35°	0.8	1.2	1.6	2.0	2.4
37.5°	0.4	1.2	1.6	2.4	2.4
40°	0.4	1.2	1.6	2.4	2.8
42.5°	0.8	1.6	2.0	2.8	3.2
45°	0.8	1.6	2.4	3.2	3.6
47.5°	0.8	1.6	2.8	3.6	3.6
50°	1.2	2.0	2.8	3.6	4.0
52.5°	1.2	2.0	2.8	4.0	4.4
55°	1.2	2.0	3.2	4.0	4.4
57.5°	1.2	2.4	3.2	4.0	4.4
60°	1.2	2.0	3.2	4.0	4.4
62.5°	1.6	2.0	2.8	4.0	4.0
65°	1.6	2.0	2.8	4.0	4.0
67.5°	1.6	2.0	2.8	3.6	3.6
70°	1.6	2.0	2.4	3.2	3.2
72.5°	1.6	2.0	2.4	2.8	3.2
75°	1.2	1.6	2.0	2.4	2.8
77.5°	1.2	1.6	1.6	2.4	2.4
80°	1.2	1.2	1.2	1.6	1.6
82.5°	1.2	1.2	0.8	1.2	1.2
85°	1.2	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)