

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: P1345612

Luminaire Tested: P3A13R359840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345612
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: P3A13R359840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

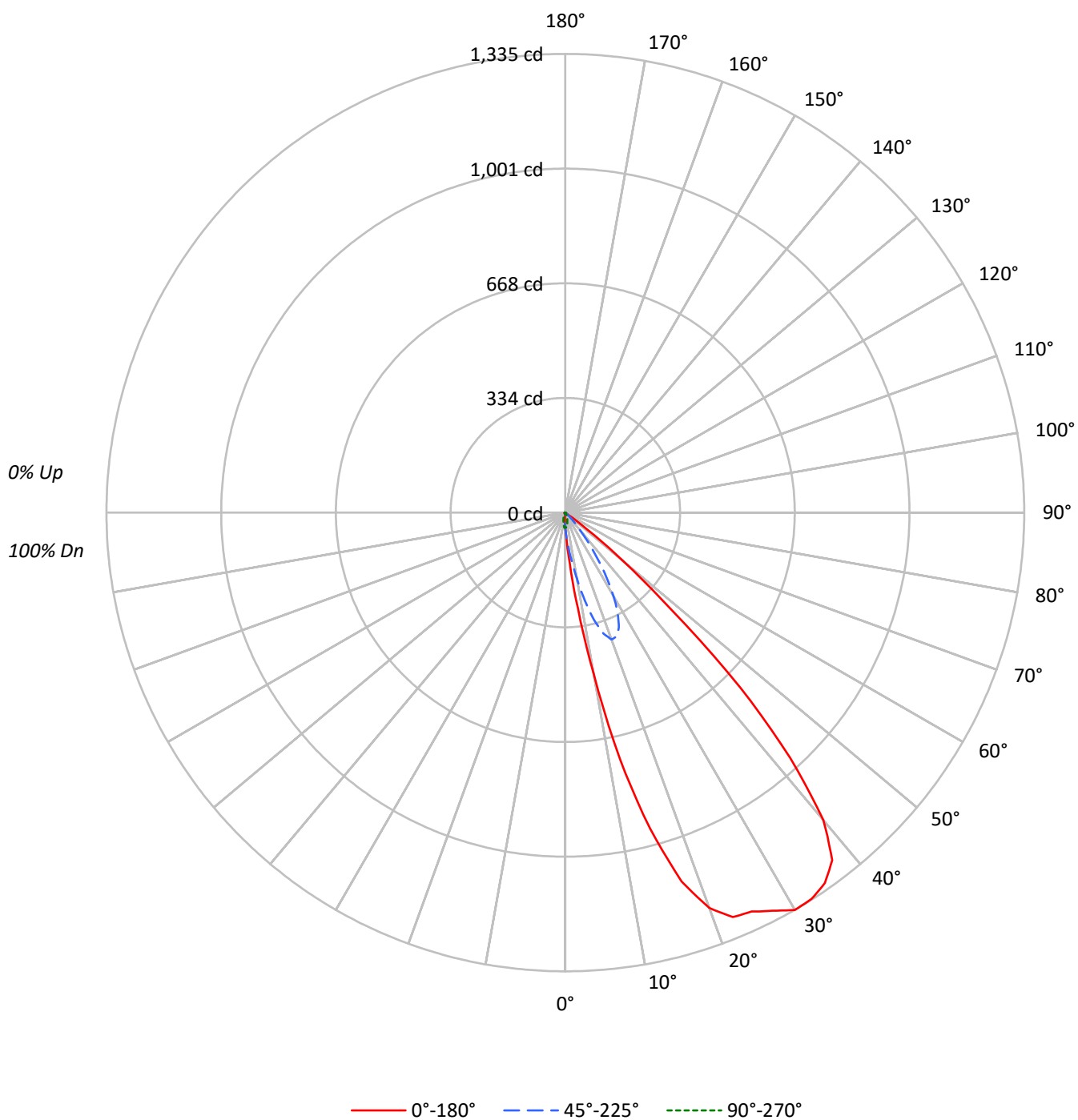
Lumens per Lamp: N/A
Luminaire Lumens: 420.0 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	9670	9670	9670	9670	9670
5°	32952	21418	9047	3808	2818
10°	106032	43397	7125	1425	913
15°	216028	73599	5040	522	341
20°	285672	91685	3244	187	187
25°	309961	89110	1815	97	194
30°	338128	71024	760	101	203
35°	352337	44196	214	107	214
40°	334341	19322	115	229	315
45°	223186	7722	124	341	589
50°	74846	1296	273	512	785
55°	4167	153	306	726	994
60°	351	175	482	833	1140
65°	415	208	571	986	1349
70°	256	256	705	1218	1475
75°	339	339	932	1271	1610
80°	0	505	1389	1389	1389
85°	0	1006	2768	1006	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 223186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	1.8
10°-20°	60.3	14.4
20°-30°	127.3	30.3
30°-40°	144.5	34.4
40°-50°	71.1	16.9
50°-60°	6.2	1.5
60°-70°	1.3	0.3
70°-80°	1.2	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°	195.3	46.5
0°-40°	339.8	80.9
0°-60°	417.0	99.3
0°-90°	420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	420.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	150	97	41	17	13	25
15°	952	324	22	2	2	271
25°	1281	368	8	0	1	596
35°	1316	165	1	0	1	811
45°	720	25	0	1	2	532
55°	11	0	1	2	3	43
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	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°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
2.5°	76.5	78.4	77.7	77.3	76.9	75.4	72.0	71.6	68.2	66.0	54.7
5°	149.7	146.7	147.4	143.3	138.0	130.4	125.5	115.0	106.3	97.3	63.7
7.5°	282.0	277.9	269.9	257.9	245.4	229.2	204.7	185.1	162.5	141.0	70.9
10°	476.2	473.9	463.7	432.8	405.7	362.3	321.6	278.6	236.4	194.9	75.8
12.5°	735.6	720.1	701.6	660.5	607.0	552.7	472.4	398.1	330.6	261.3	76.2
15°	951.6	941.8	915.8	862.2	797.8	719.4	624.0	524.1	422.3	324.2	72.4
17.5°	1125.4	1110.3	1076.8	1024.4	950.1	848.3	736.7	614.9	490.9	369.1	66.0
20°	1224.2	1216.3	1190.6	1138.2	1057.2	945.9	818.9	677.1	533.9	392.9	57.7
22.5°	1273.9	1268.3	1249.4	1207.6	1131.8	1019.8	874.3	709.5	546.3	390.2	49.0
25°	1281.1	1279.6	1263.4	1231.7	1168.4	1057.5	898.4	715.6	536.1	368.3	40.7
27.5°	1306.0	1300.7	1281.5	1249.8	1186.1	1063.9	890.1	694.8	503.3	329.9	33.9
30°	1335.4	1331.6	1312.4	1279.6	1204.2	1057.9	860.7	648.8	450.9	280.5	25.3
32.5°	1333.1	1331.6	1315.4	1280.7	1191.4	1022.5	808.3	579.9	379.7	221.3	15.8
35°	1316.2	1310.9	1290.5	1237.0	1118.2	931.2	708.8	486.4	300.5	165.1	10.2
37.5°	1275.5	1264.1	1229.8	1139.0	987.4	790.6	577.2	375.5	212.6	110.5	6.4
40°	1168.0	1153.7	1084.7	975.0	816.2	622.8	429.4	258.3	140.3	67.5	2.6
42.5°	968.9	939.9	870.9	758.2	609.3	440.4	282.0	167.4	82.6	40.7	0.8
45°	719.7	697.5	625.1	522.9	399.3	282.4	170.8	90.5	45.6	24.9	0.4
47.5°	419.2	405.7	368.3	301.2	220.6	148.2	87.5	48.6	26.8	12.1	0.4
50°	219.4	202.5	174.2	132.0	97.3	68.2	42.6	26.0	13.2	3.8	0.4
52.5°	76.9	75.8	69.0	52.0	42.2	30.5	20.7	11.3	3.8	0.8	0.4
55°	10.9	10.9	10.2	11.3	12.1	10.9	7.2	3.0	0.8	0.4	0.4
57.5°	0.8	0.8	0.8	1.1	1.5	1.5	1.1	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.4	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°	44.1	44.1	44.1	44.1	44.1
2.5°	43.7	35.1	27.9	24.5	23.4
5°	41.1	26.4	17.3	13.6	12.8
7.5°	36.6	18.9	10.6	7.5	7.2
10°	32.0	13.6	6.4	4.5	4.1
12.5°	26.8	9.4	4.1	2.6	2.3
15°	22.2	6.4	2.3	1.9	1.5
17.5°	17.7	4.1	1.5	1.1	1.5
20°	13.9	2.6	0.8	0.8	0.8
22.5°	10.6	1.5	0.8	0.8	0.8
25°	7.5	0.8	0.4	0.4	0.8
27.5°	5.3	0.4	0.4	0.4	0.8
30°	3.0	0.4	0.4	0.4	0.8
32.5°	1.5	0.4	0.4	0.8	0.8
35°	0.8	0.4	0.4	0.8	0.8
37.5°	0.4	0.4	0.4	0.8	1.1
40°	0.4	0.4	0.8	1.1	1.1
42.5°	0.4	0.4	0.8	1.1	1.5
45°	0.4	0.8	1.1	1.5	1.9
47.5°	0.8	0.8	1.5	1.9	2.3
50°	0.8	1.1	1.5	2.3	2.3
52.5°	0.8	1.1	1.9	2.3	2.6
55°	0.8	1.5	1.9	2.6	2.6
57.5°	1.1	1.5	1.9	2.6	2.6
60°	1.1	1.5	1.9	2.6	2.6
62.5°	1.1	1.5	1.9	2.6	2.6
65°	1.1	1.5	1.9	2.6	2.6
67.5°	1.1	1.5	1.9	2.3	2.6
70°	1.1	1.5	1.9	2.3	2.3
72.5°	1.5	1.5	1.9	2.3	2.3
75°	1.1	1.5	1.5	1.9	1.9
77.5°	1.1	1.1	1.1	1.5	1.5
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	0.8	0.8	1.1	1.1
85°	1.1	0.8	0.4	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)