

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: P1346092

Luminaire Tested: P3A13R409830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346092
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: P3A13R409830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

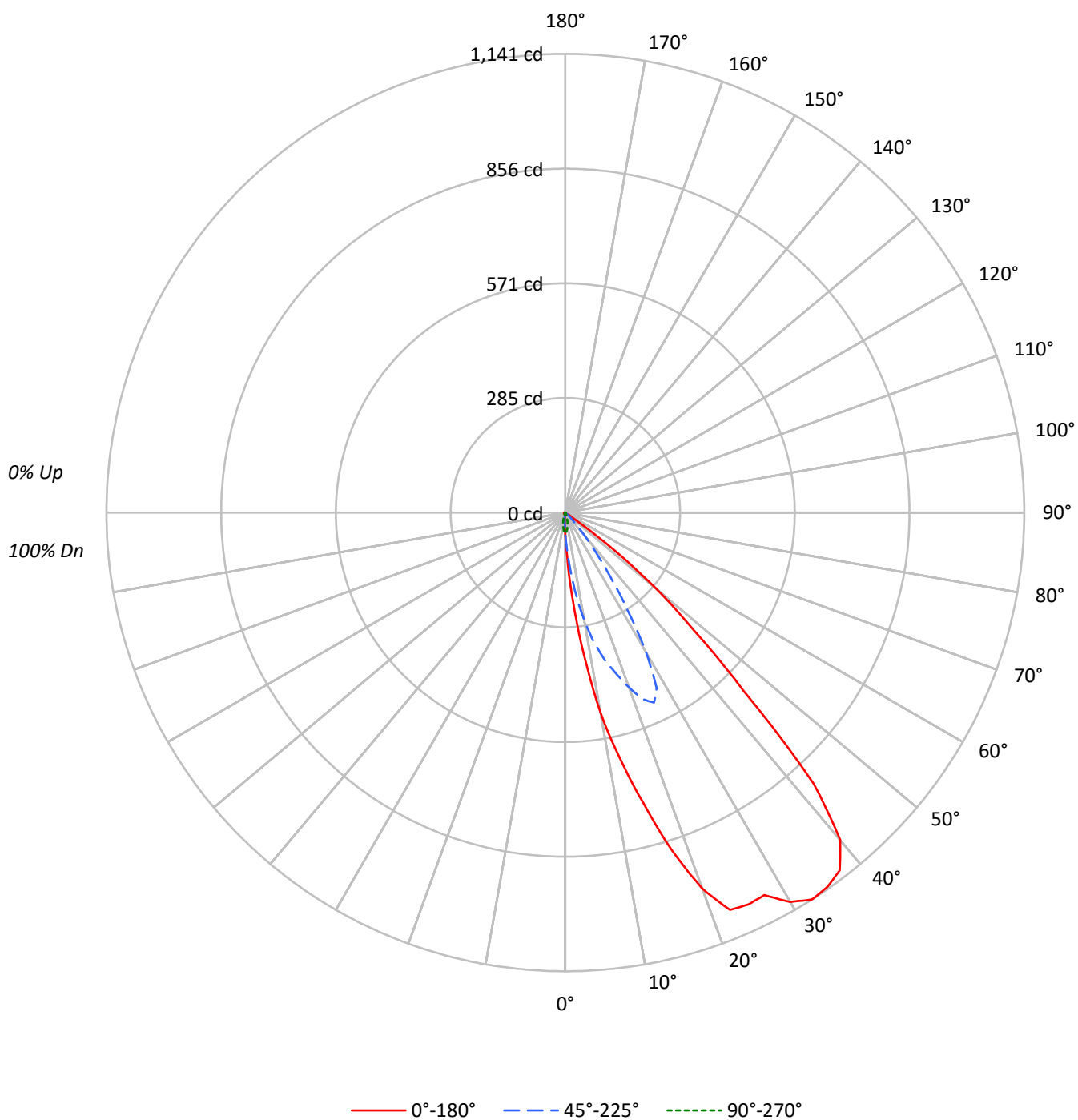
Lumens per Lamp: N/A
Luminaire Lumens: 421.1 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	10920	10920	10920	10920	10920
5°	49262	31411	9795	3764	2751
10°	112979	60698	6903	1336	1024
15°	169558	86107	4291	726	636
20°	232164	107949	2497	420	490
25°	260241	126128	1282	339	436
30°	283082	101813	532	279	456
35°	304232	52093	187	375	562
40°	304342	20782	115	401	716
45°	194315	6946	217	651	992
50°	100875	853	375	853	1228
55°	8717	153	421	1070	1491
60°	307	175	482	1228	1710
65°	363	208	726	1297	1868
70°	256	256	898	1346	1795
75°	339	339	932	1525	2118
80°	505	505	1389	1389	1768
85°	0	1006	2768	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 194315 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	2.3
10°-20°	57.0	13.5
20°-30°	124.8	29.6
30°-40°	142.2	33.8
40°-50°	75.0	17.8
50°-60°	8.9	2.1
60°-70°	1.6	0.4
70°-80°	1.3	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°	191.5	45.5
0°-40°	333.7	79.2
0°-60°	417.5	99.2
0°-90°	421.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	224	143	44	17	12	30
15°	747	379	19	3	3	220
25°	1076	521	5	1	2	496
35°	1136	195	1	1	2	704
45°	627	22	1	2	3	505
55°	23	0	1	3	4	71
65°	1	0	1	2	4	1
75°	0	0	1	2	2	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°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	111.0	111.0	110.7	107.5	107.1	106.7	101.1	99.6	92.9	88.2	67.3
5°	223.8	218.8	218.5	212.8	203.2	190.4	182.2	169.0	156.2	142.7	82.9
7.5°	356.5	360.8	349.1	343.0	321.7	306.4	282.9	262.2	233.4	206.4	95.7
10°	507.4	499.9	488.2	476.4	453.3	425.9	391.0	354.4	312.8	272.6	102.8
12.5°	625.2	615.6	608.5	592.4	569.7	534.4	492.8	443.7	388.6	330.6	102.5
15°	746.9	737.3	721.3	707.0	673.2	633.7	588.5	523.8	456.2	379.3	95.0
17.5°	880.7	868.2	850.4	828.7	796.0	752.2	694.9	615.9	520.2	419.2	81.5
20°	994.9	987.4	969.6	944.0	912.0	869.3	803.1	715.6	598.8	462.6	64.8
22.5°	1069.6	1062.8	1050.7	1028.3	1004.1	958.6	898.1	802.0	664.7	502.1	49.1
25°	1075.6	1072.8	1069.6	1062.1	1047.5	1015.2	956.1	852.5	705.6	521.3	36.3
27.5°	1072.4	1071.4	1070.7	1066.8	1057.1	1025.1	964.6	860.0	700.3	491.4	26.7
30°	1118.0	1114.8	1113.0	1100.2	1074.9	1025.5	946.5	819.8	622.3	402.1	19.2
32.5°	1141.1	1140.4	1138.6	1126.2	1090.6	1026.2	915.9	722.7	493.5	290.4	13.2
35°	1136.5	1132.9	1126.5	1103.4	1053.9	973.2	817.0	577.1	356.2	194.6	8.5
37.5°	1120.8	1112.7	1100.2	1058.6	992.7	882.4	662.5	424.9	242.3	126.0	5.0
40°	1063.2	1052.2	1032.6	981.7	895.2	727.3	490.0	287.1	159.1	72.6	1.4
42.5°	914.1	899.9	885.6	828.7	729.8	542.3	322.4	177.6	90.7	39.9	0.4
45°	626.6	608.8	589.2	548.0	468.6	328.4	191.8	100.0	47.0	22.4	0.4
47.5°	435.2	427.0	392.8	340.2	260.8	174.0	99.3	49.1	24.9	10.3	0.4
50°	295.7	286.4	246.6	195.7	138.8	83.3	45.5	24.6	11.0	2.5	0.4
52.5°	155.1	143.8	118.5	90.4	56.2	34.9	19.9	10.7	3.2	0.4	0.4
55°	22.8	21.0	17.1	13.9	12.5	9.6	5.7	2.5	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°	49.8	49.8	49.8	49.8	49.8
2.5°	49.1	36.3	28.1	24.2	23.8
5°	44.5	26.0	17.1	13.2	12.5
7.5°	37.7	18.1	10.0	7.1	6.8
10°	31.0	12.5	6.0	5.0	4.6
12.5°	24.6	8.2	4.3	3.9	3.6
15°	18.9	5.3	3.2	2.8	2.8
17.5°	14.2	3.6	2.5	2.5	2.5
20°	10.7	2.5	1.8	2.1	2.1
22.5°	7.5	1.8	1.4	1.8	1.8
25°	5.3	1.4	1.4	1.8	1.8
27.5°	3.6	1.1	1.1	1.4	1.8
30°	2.1	0.7	1.1	1.4	1.8
32.5°	1.1	0.7	1.1	1.8	1.8
35°	0.7	1.1	1.4	1.8	2.1
37.5°	0.4	1.1	1.4	2.1	2.1
40°	0.4	1.1	1.4	2.1	2.5
42.5°	0.7	1.4	1.8	2.5	2.8
45°	0.7	1.4	2.1	2.8	3.2
47.5°	0.7	1.4	2.5	3.2	3.2
50°	1.1	1.8	2.5	3.2	3.6
52.5°	1.1	1.8	2.5	3.6	3.9
55°	1.1	1.8	2.8	3.6	3.9
57.5°	1.1	2.1	2.8	3.6	3.9
60°	1.1	1.8	2.8	3.6	3.9
62.5°	1.4	1.8	2.5	3.6	3.6
65°	1.4	1.8	2.5	3.6	3.6
67.5°	1.4	1.8	2.5	3.2	3.2
70°	1.4	1.8	2.1	2.8	2.8
72.5°	1.4	1.8	2.1	2.5	2.8
75°	1.1	1.4	1.8	2.1	2.5
77.5°	1.1	1.4	1.4	2.1	2.1
80°	1.1	1.1	1.1	1.4	1.4
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)