

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: P1335998

Luminaire Tested: P3A02R459030DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459030DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

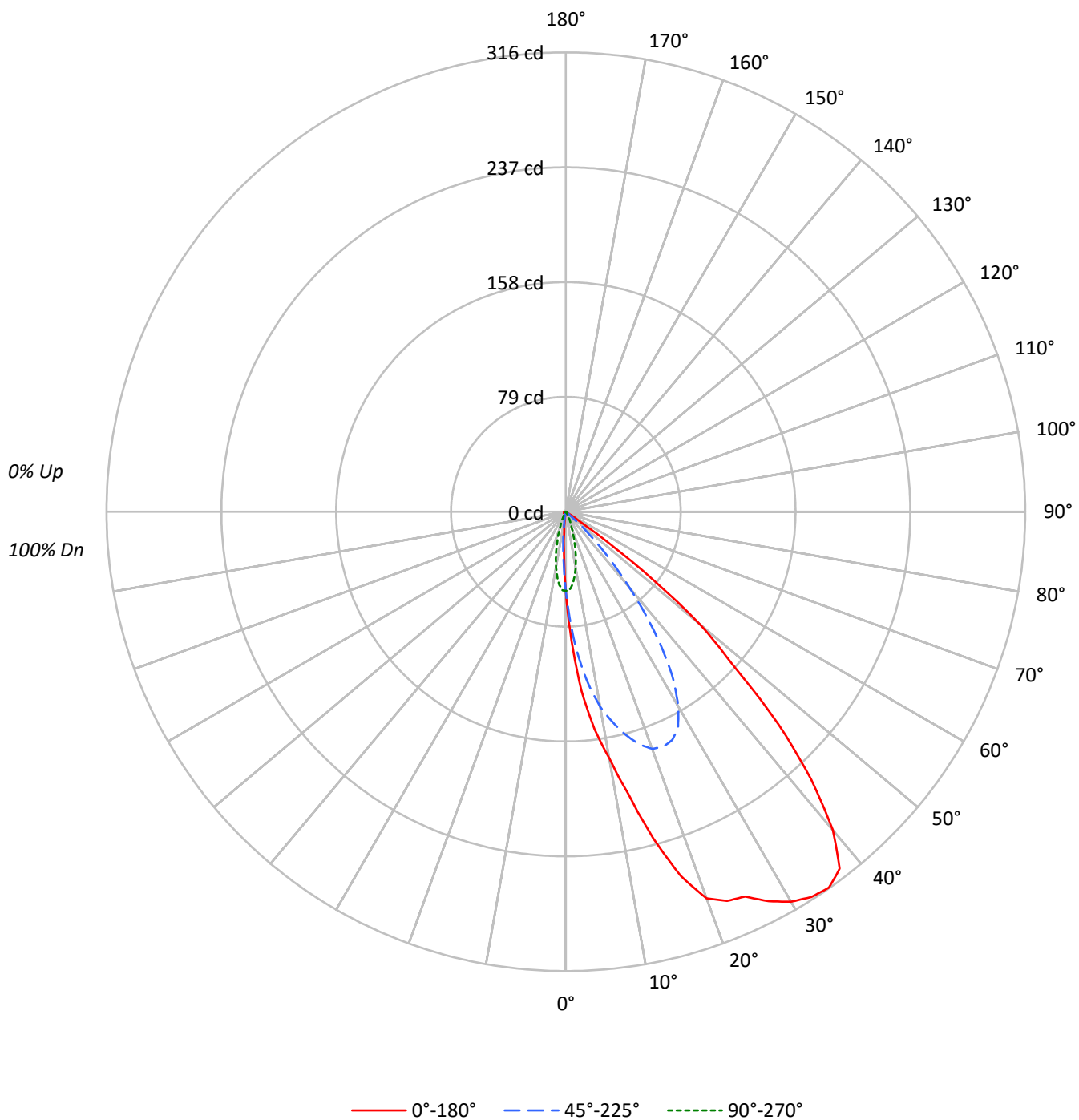
Lumens per Lamp: N/A
Luminaire Lumens: 143.0 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1335998

CATALOG NUMBER: P3A02R459030DE010 E3A301WMH

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	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	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	47	43	51	46	42	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°	11929	11929	11929	11929	11929
5°	27185	22056	11160	4468	3060
10°	38320	30304	8617	980	445
15°	52804	36050	5516	318	272
20°	66039	40487	2870	233	233
25°	70649	41930	1331	169	194
30°	78417	39145	608	177	203
35°	84484	31213	187	187	268
40°	81753	19351	115	229	315
45°	64193	9117	124	310	372
50°	41244	1058	171	375	478
55°	6270	76	191	459	612
60°	88	88	219	526	614
65°	104	104	259	571	726
70°	128	128	321	641	833
75°	85	169	424	678	932
80°	126	253	505	758	1010
85°	0	252	503	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64193 cd/sqm

TEST NUMBER: P1335998

CATALOG NUMBER: P3A02R459030DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	4.2
10°-20°	21.5	15.1
20°-30°	37.8	26.5
30°-40°	43.0	30.0
40°-50°	27.8	19.5
50°-60°	5.4	3.8
60°-70°	0.6	0.5
70°-80°	0.6	0.4
80°-90°	0.2	0.2
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°	65.3	45.7
0°-40°	108.3	75.7
0°-60°	141.5	99.0
0°-90°	143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	124	100	51	20	14	13
15°	233	159	24	1	1	67
25°	292	173	6	1	1	137
35°	316	117	1	1	1	194
45°	207	29	0	1	1	156
55°	16	0	0	1	2	31
65°	0	0	0	1	1	0
75°	0	0	0	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335998

CATALOG NUMBER: P3A02R459030DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	88.4	88.1	88.5	86.1	86.0	84.2	83.7	81.7	78.9	77.6	74.5
5°	123.5	122.3	122.3	119.5	118.5	116.5	113.0	108.7	105.1	100.2	95.0
7.5°	150.7	150.4	150.4	147.9	145.5	142.7	138.0	133.1	127.4	119.8	112.2
10°	172.1	172.5	171.4	169.1	165.6	162.5	157.0	151.0	144.0	136.1	125.9
12.5°	199.1	196.5	195.7	190.5	186.1	180.1	173.5	166.7	158.0	148.1	136.6
15°	232.6	229.3	225.9	219.1	211.7	202.5	192.2	182.1	170.9	158.8	144.5
17.5°	262.5	262.5	258.1	247.3	237.7	224.1	210.2	196.8	183.6	167.7	149.7
20°	283.0	281.9	278.5	270.6	259.8	244.3	226.3	207.5	191.5	173.5	152.7
22.5°	289.7	289.4	289.5	284.9	276.1	260.1	238.0	215.9	195.8	175.0	151.3
25°	292.0	292.5	293.7	291.9	285.3	269.3	245.2	219.8	197.1	173.3	145.8
27.5°	302.0	301.0	302.3	301.1	293.7	274.6	246.6	218.9	194.2	167.2	136.0
30°	309.7	309.5	311.8	310.7	301.0	277.9	245.3	215.3	187.2	154.6	120.5
32.5°	314.2	314.3	314.9	310.5	296.1	270.6	238.8	208.0	173.9	138.2	100.5
35°	315.6	314.9	311.5	300.7	281.0	253.8	222.9	190.6	155.8	116.6	79.4
37.5°	309.4	305.7	297.1	280.8	258.1	232.6	202.6	168.7	131.1	92.1	59.2
40°	285.6	280.7	269.8	253.2	232.0	207.4	176.6	141.2	101.7	67.6	41.6
42.5°	249.9	247.4	236.1	221.6	203.7	178.8	147.1	111.2	75.2	46.6	26.5
45°	207.0	203.8	196.6	183.8	169.7	143.6	114.1	79.6	51.3	29.4	13.2
47.5°	155.2	155.5	150.6	140.9	127.0	105.2	78.1	53.5	32.2	15.2	3.0
50°	120.9	119.2	112.3	102.4	86.2	70.1	50.5	33.7	17.0	3.1	0.2
52.5°	67.0	68.0	64.3	61.1	52.7	41.9	29.8	17.1	3.6	0.4	0.2
55°	16.4	17.3	16.6	17.0	17.6	15.7	12.1	3.3	0.4	0.2	0.2
57.5°	0.4	0.4	0.4	0.4	0.6	0.8	0.8	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1335998

CATALOG NUMBER: P3A02R459030DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	73.0	70.7	66.5	54.1	43.4	35.0	30.0	29.5
5°	90.3	84.2	75.3	50.7	32.1	20.3	14.7	13.9
7.5°	104.0	95.4	81.8	45.2	21.9	10.4	5.7	4.8
10°	115.4	103.2	85.1	38.7	13.8	4.4	2.4	2.0
12.5°	123.2	108.5	85.7	31.6	7.9	2.2	1.6	1.4
15°	128.2	110.1	82.9	24.3	4.4	1.4	1.3	1.2
17.5°	130.2	108.7	77.4	17.6	2.4	1.1	1.1	1.1
20°	129.3	104.0	69.2	12.3	1.6	1.0	1.0	1.0
22.5°	124.7	96.0	59.1	8.3	1.1	0.8	0.8	0.8
25°	115.8	85.1	48.3	5.5	0.7	0.7	0.8	0.8
27.5°	102.4	71.8	37.0	3.7	0.6	0.7	0.8	0.8
30°	85.5	56.8	26.5	2.4	0.6	0.7	0.7	0.8
32.5°	67.9	41.4	17.5	1.4	0.5	0.7	0.8	1.0
35°	49.3	28.2	11.1	0.7	0.6	0.7	0.8	1.0
37.5°	34.6	18.4	6.5	0.5	0.6	0.7	1.0	1.0
40°	22.5	10.3	2.4	0.4	0.6	0.8	1.0	1.1
42.5°	11.7	3.6	0.5	0.4	0.6	0.8	1.1	1.2
45°	3.0	0.5	0.1	0.4	0.7	1.0	1.2	1.2
47.5°	0.4	0.1	0.1	0.5	0.7	1.1	1.2	1.3
50°	0.1	0.2	0.2	0.5	0.7	1.1	1.3	1.4
52.5°	0.2	0.2	0.2	0.5	0.8	1.1	1.4	1.6
55°	0.2	0.2	0.2	0.5	0.8	1.2	1.4	1.6
57.5°	0.2	0.2	0.2	0.5	0.8	1.2	1.4	1.4
60°	0.2	0.2	0.2	0.5	0.8	1.2	1.4	1.4
62.5°	0.2	0.2	0.4	0.5	0.8	1.1	1.4	1.4
65°	0.2	0.4	0.4	0.5	0.8	1.1	1.3	1.4
67.5°	0.2	0.2	0.4	0.5	0.8	1.1	1.3	1.4
70°	0.2	0.2	0.4	0.5	0.7	1.0	1.2	1.3
72.5°	0.2	0.2	0.4	0.5	0.7	1.0	1.1	1.2
75°	0.2	0.2	0.4	0.5	0.6	0.8	1.1	1.1
77.5°	0.2	0.2	0.4	0.4	0.6	0.7	1.0	1.0
80°	0.2	0.2	0.4	0.4	0.5	0.6	0.7	0.8
82.5°	0.2	0.2	0.2	0.4	0.4	0.5	0.6	0.6
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)