

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: P1337912

Luminaire Tested: P3A05R309730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

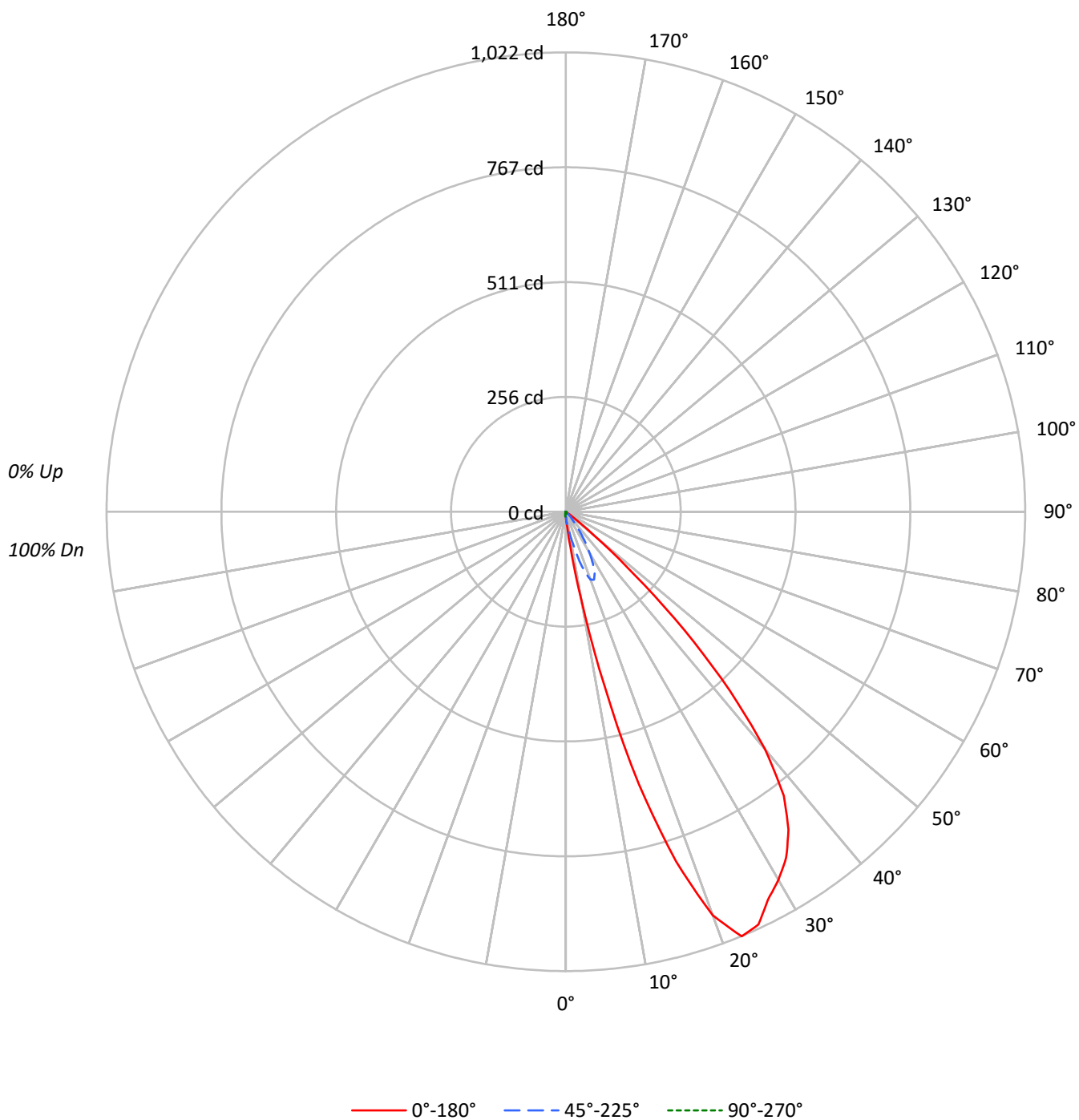
Lumens per Lamp: N/A
Luminaire Lumens: 241.0 lumens
Efficiency: N/A
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.49 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1337912

CATALOG NUMBER: P3A05R309730DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1337912

CATALOG NUMBER: P3A05R309730DE010 E3A301WMH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	67	55	48	43	65	55	48	43	53	47	43		52	47	43		52	46	43	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°	2522	2522	2522	2522	2522
5°	7572	5041	2377	1057	880
10°	43798	10688	1870	490	334
15°	142430	24245	1294	91	45
20°	222876	37523	817	0	0
25°	245192	36655	436	0	0
30°	239480	26434	177	0	0
35°	231152	15044	54	0	0
40°	197112	6355	0	0	0
45°	115702	2388	62	0	62
50°	28110	443	68	68	239
55°	2447	0	153	268	344
60°	88	0	175	307	482
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	593	593
80°	0	253	884	505	505
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 115702 cd/sqm

TEST NUMBER: P1337912

CATALOG NUMBER: P3A05R309730DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.9
10°-20°	33.1	13.7
20°-30°	84.2	34.9
30°-40°	83.9	34.8
40°-50°	34.0	14.1
50°-60°	2.3	1.0
60°-70°	0.5	0.2
70°-80°	0.5	0.2
80°-90°	0.3	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°	119.4	49.5
0°-40°	203.3	84.4
0°-60°	239.6	99.4
0°-90°	241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	241.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	34	23	11	5	4	8
15°	627	107	6	0	0	183
25°	1013	152	2	0	0	458
35°	864	56	0	0	0	529
45°	373	8	0	0	0	285
55°	6	0	0	1	1	17
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1337912

CATALOG NUMBER: P3A05R309730DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	18.9	19.2	19.2	18.7	18.5	18.5	17.8	17.6	17.0	16.3	14.1
5°	34.4	33.7	32.8	32.8	30.8	29.7	28.2	26.4	25.1	22.9	16.3
7.5°	78.0	72.7	71.1	69.1	61.7	55.7	48.9	42.9	37.4	32.8	18.1
10°	196.7	186.3	177.7	160.3	138.5	117.6	98.2	75.8	60.3	48.0	19.4
12.5°	396.2	382.3	365.8	334.1	293.3	241.1	194.9	145.6	102.2	70.7	19.8
15°	627.4	603.8	578.1	537.8	471.0	396.2	312.7	234.1	164.1	106.8	19.4
17.5°	815.9	806.7	768.6	713.5	631.8	535.4	432.5	325.0	221.3	139.8	18.1
20°	955.1	948.7	902.7	844.1	752.0	641.5	510.9	381.9	261.2	160.8	16.1
22.5°	1022.3	1021.2	987.9	928.0	830.4	705.1	561.3	414.7	273.5	163.6	13.4
25°	1013.4	1017.4	998.5	954.0	860.4	731.3	576.3	414.7	264.5	151.5	11.2
27.5°	973.4	976.0	964.1	930.0	842.8	712.4	555.4	388.0	238.3	130.1	9.2
30°	945.8	946.9	932.2	895.6	803.1	669.2	506.1	338.7	198.6	104.4	6.8
32.5°	912.4	912.1	895.0	853.1	751.2	608.7	443.5	279.9	152.6	79.3	4.0
35°	863.5	858.0	834.6	786.4	673.6	527.2	363.6	213.2	109.9	56.2	2.4
37.5°	796.3	782.0	749.0	684.4	564.9	413.4	269.5	149.7	75.1	37.2	1.5
40°	688.6	673.4	628.5	550.1	427.2	297.5	181.7	97.6	47.3	22.2	0.9
42.5°	540.0	529.6	469.1	390.9	282.1	189.8	109.2	57.7	26.6	12.8	0.2
45°	373.1	359.6	312.1	245.8	169.3	105.3	61.2	30.2	15.2	7.7	0.0
47.5°	205.9	189.4	161.9	127.3	85.2	55.3	30.8	16.3	8.6	3.7	0.0
50°	82.4	81.7	65.0	46.2	32.6	25.1	15.4	8.8	4.4	1.3	0.2
52.5°	28.8	28.8	24.9	20.3	15.9	11.5	7.7	4.2	1.5	0.4	0.2
55°	6.4	7.0	6.6	6.2	5.9	5.1	3.3	1.5	0.4	0.0	0.2
57.5°	0.7	0.7	0.7	0.9	1.1	1.1	0.9	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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: P1337912

CATALOG NUMBER: P3A05R309730DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	11.5	11.5	11.5	11.5	11.5
2.5°	11.5	9.0	7.5	6.6	6.4
5°	10.8	6.8	4.8	4.2	4.0
7.5°	9.7	5.1	3.3	2.6	2.4
10°	8.4	3.7	2.2	1.5	1.5
12.5°	7.0	2.9	1.3	0.7	0.4
15°	5.7	1.8	0.4	0.2	0.2
17.5°	4.4	1.1	0.0	0.0	0.0
20°	3.5	0.4	0.0	0.0	0.0
22.5°	2.6	0.2	0.0	0.0	0.0
25°	1.8	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	0.0	0.0	0.0
30°	0.7	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.7
52.5°	0.4	0.2	0.4	0.7	0.7
55°	0.4	0.4	0.7	0.9	0.9
57.5°	0.4	0.4	0.7	0.9	0.9
60°	0.4	0.4	0.7	0.9	1.1
62.5°	0.7	0.7	0.7	0.9	0.9
65°	0.7	0.7	0.7	0.9	1.1
67.5°	0.7	0.7	0.7	0.9	1.1
70°	0.7	0.7	0.7	0.9	0.9
72.5°	0.9	0.7	0.7	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.4	0.7	0.7
80°	0.7	0.4	0.4	0.4	0.4
82.5°	0.7	0.4	0.4	0.4	0.4
85°	0.7	0.4	0.2	0.2	0.2
87.5°	0.7	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)