

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: P1335660

Luminaire Tested: P3A02R409030DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335660
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: P3A02R409030DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

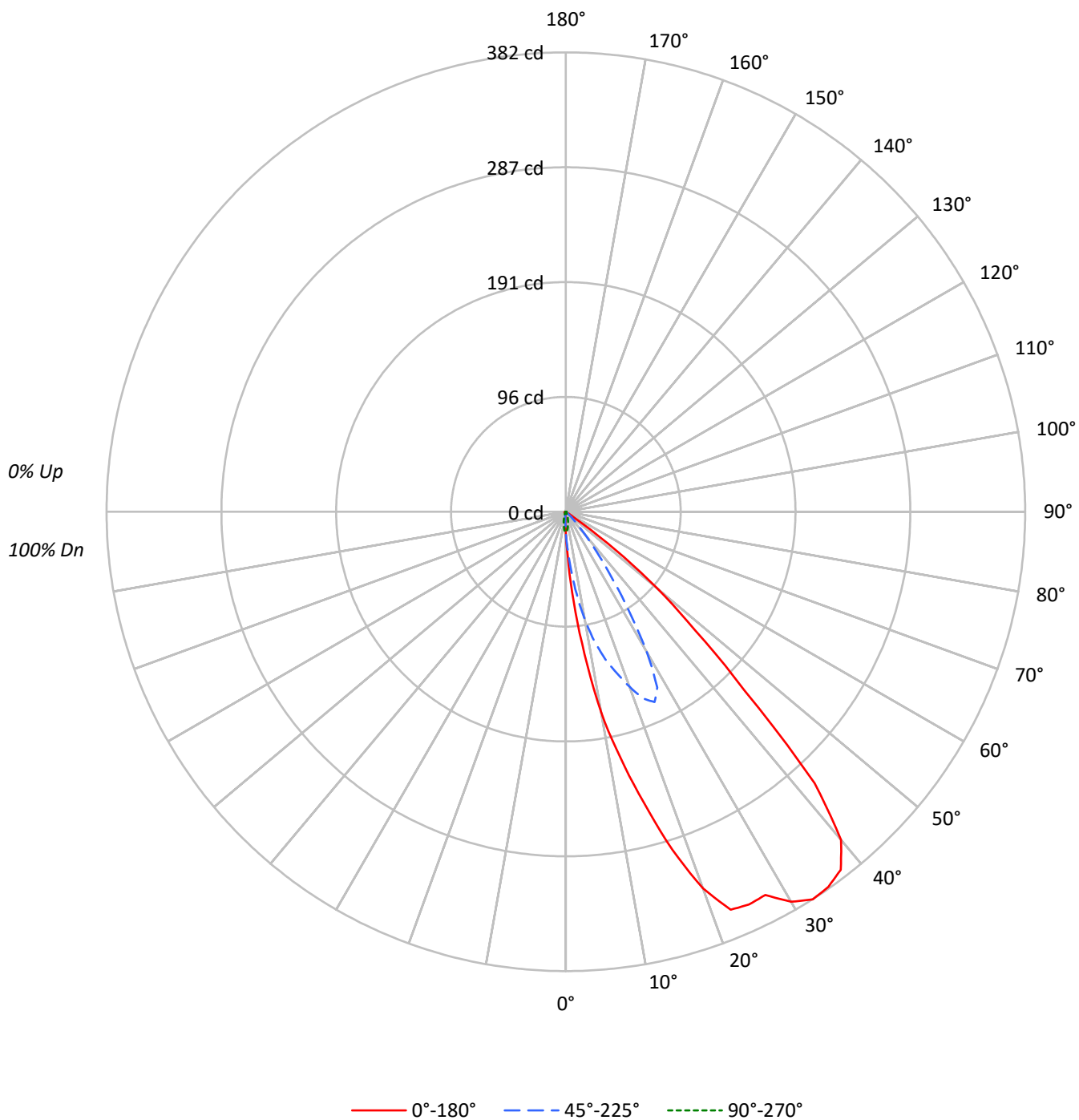
Lumens per Lamp: N/A
Luminaire Lumens: 141.0 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335660

CATALOG NUMBER: P3A02R409030DE010 E3A301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335660

CATALOG NUMBER: P3A02R409030DE010 E3A301MW

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3662	3662	3662	3662	3662
5°	16509	10522	3280	1255	924
10°	37831	20329	2316	445	334
15°	56777	28831	1430	250	227
20°	77753	36146	840	140	163
25°	87174	42244	436	121	145
30°	94799	34107	177	101	152
35°	101884	17454	54	134	187
40°	101934	6956	29	143	229
45°	65092	2326	62	217	341
50°	33773	273	136	273	409
55°	2906	38	153	382	497
60°	88	44	175	439	570
65°	104	52	259	415	623
70°	64	64	321	449	641
75°	85	85	339	508	678
80°	126	126	505	505	631
85°	0	252	1006	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 65092 cd/sqm

TEST NUMBER: P1335660

CATALOG NUMBER: P3A02R409030DE010 E3A301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	2.3
10°-20°	19.1	13.5
20°-30°	41.8	29.6
30°-40°	47.6	33.8
40°-50°	25.1	17.8
50°-60°	3.0	2.1
60°-70°	0.5	0.4
70°-80°	0.4	0.3
80°-90°	0.2	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°	64.1	45.5
0°-40°	111.7	79.3
0°-60°	139.8	99.2
0°-90°	141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	141.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	75	48	15	6	4	10
15°	250	127	6	1	1	74
25°	360	175	2	0	1	166
35°	381	65	0	0	1	236
45°	210	8	0	1	1	169
55°	8	0	0	1	1	24
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: P1335660

CATALOG NUMBER: P3A02R409030DE010 E3A301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
2.5°	37.2	37.2	37.1	36.0	35.9	35.8	33.8	33.4	31.1	29.6	22.5
5°	75.0	73.3	73.2	71.3	68.0	63.8	61.0	56.6	52.3	47.8	27.8
7.5°	119.4	120.8	116.9	114.9	107.7	102.6	94.7	87.8	78.2	69.1	32.1
10°	169.9	167.4	163.5	159.6	151.8	142.6	131.0	118.7	104.8	91.3	34.4
12.5°	209.4	206.2	203.8	198.4	190.8	179.0	165.1	148.6	130.1	110.7	34.3
15°	250.1	246.9	241.6	236.8	225.5	212.2	197.1	175.4	152.8	127.0	31.8
17.5°	294.9	290.8	284.8	277.5	266.6	251.9	232.7	206.3	174.2	140.4	27.3
20°	333.2	330.7	324.7	316.2	305.4	291.1	269.0	239.7	200.6	154.9	21.7
22.5°	358.2	356.0	351.9	344.4	336.3	321.0	300.8	268.6	222.6	168.1	16.4
25°	360.3	359.3	358.2	355.7	350.8	340.0	320.2	285.5	236.3	174.6	12.2
27.5°	359.2	358.8	358.6	357.3	354.1	343.3	323.1	288.0	234.5	164.6	8.9
30°	374.4	373.4	372.8	368.5	360.0	343.4	317.0	274.6	208.4	134.7	6.4
32.5°	382.2	381.9	381.3	377.2	365.3	343.7	306.7	242.0	165.3	97.2	4.4
35°	380.6	379.4	377.3	369.5	353.0	325.9	273.6	193.3	119.3	65.2	2.9
37.5°	375.4	372.6	368.5	354.5	332.5	295.5	221.9	142.3	81.2	42.2	1.7
40°	356.1	352.4	345.8	328.8	299.8	243.6	164.1	96.2	53.3	24.3	0.5
42.5°	306.1	301.4	296.6	277.5	244.4	181.6	108.0	59.5	30.4	13.3	0.1
45°	209.9	203.9	197.3	183.5	156.9	110.0	64.2	33.5	15.7	7.5	0.1
47.5°	145.7	143.0	131.6	113.9	87.4	58.3	33.2	16.4	8.3	3.5	0.1
50°	99.0	95.9	82.6	65.5	46.5	27.9	15.3	8.2	3.7	0.8	0.1
52.5°	52.0	48.1	39.7	30.3	18.8	11.7	6.7	3.6	1.1	0.1	0.1
55°	7.6	7.0	5.7	4.6	4.2	3.2	1.9	0.8	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.4
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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: P1335660

CATALOG NUMBER: P3A02R409030DE010 E3A301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	16.7	16.7	16.7	16.7	16.7
2.5°	16.4	12.2	9.4	8.1	8.0
5°	14.9	8.7	5.7	4.4	4.2
7.5°	12.6	6.1	3.3	2.4	2.3
10°	10.4	4.2	2.0	1.7	1.5
12.5°	8.2	2.7	1.4	1.3	1.2
15°	6.3	1.8	1.1	1.0	1.0
17.5°	4.8	1.2	0.8	0.8	0.8
20°	3.6	0.8	0.6	0.7	0.7
22.5°	2.5	0.6	0.5	0.6	0.6
25°	1.8	0.5	0.5	0.6	0.6
27.5°	1.2	0.4	0.4	0.5	0.6
30°	0.7	0.2	0.4	0.5	0.6
32.5°	0.4	0.2	0.4	0.6	0.6
35°	0.2	0.4	0.5	0.6	0.7
37.5°	0.1	0.4	0.5	0.7	0.7
40°	0.1	0.4	0.5	0.7	0.8
42.5°	0.2	0.5	0.6	0.8	1.0
45°	0.2	0.5	0.7	1.0	1.1
47.5°	0.2	0.5	0.8	1.1	1.1
50°	0.4	0.6	0.8	1.1	1.2
52.5°	0.4	0.6	0.8	1.2	1.3
55°	0.4	0.6	1.0	1.2	1.3
57.5°	0.4	0.7	1.0	1.2	1.3
60°	0.4	0.6	1.0	1.2	1.3
62.5°	0.5	0.6	0.8	1.2	1.2
65°	0.5	0.6	0.8	1.2	1.2
67.5°	0.5	0.6	0.8	1.1	1.1
70°	0.5	0.6	0.7	1.0	1.0
72.5°	0.5	0.6	0.7	0.8	1.0
75°	0.4	0.5	0.6	0.7	0.8
77.5°	0.4	0.5	0.5	0.7	0.7
80°	0.4	0.4	0.4	0.5	0.5
82.5°	0.4	0.4	0.2	0.4	0.4
85°	0.4	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)