

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: P1335774

Luminaire Tested: P3A02R409740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335774
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: P3A02R409740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

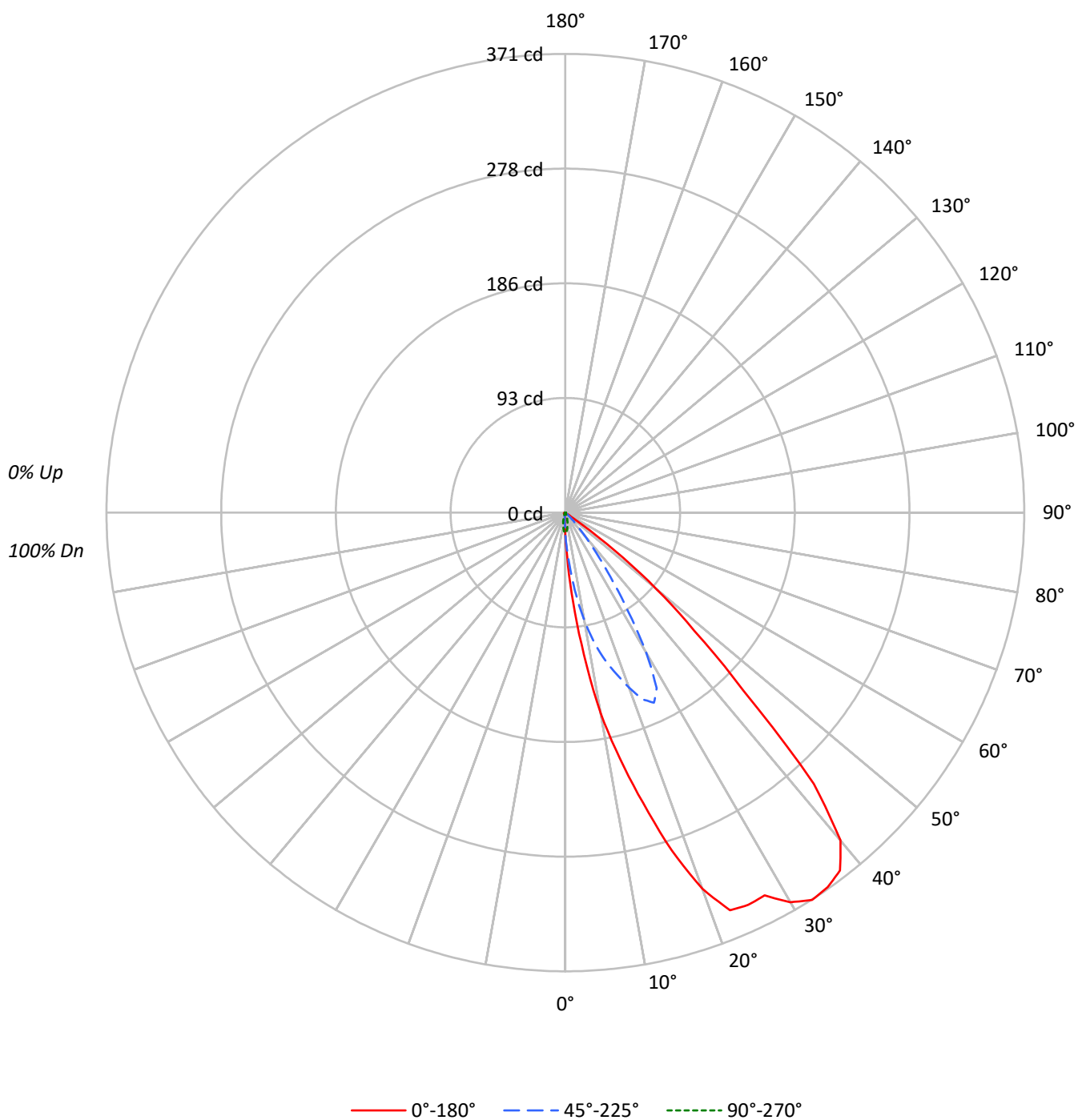
Lumens per Lamp: N/A
Luminaire Lumens: 137.0 lumens
Efficiency: N/A
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1335774

CATALOG NUMBER: P3A02R409740DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1335774

CATALOG NUMBER: P3A02R409740DE010 E3A301WMH

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	63	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°	3552	3552	3552	3552	3552
5°	16025	10213	3192	1233	902
10°	36762	19750	2249	445	334
15°	55165	28014	1385	227	204
20°	75537	35120	817	140	163
25°	84682	41035	411	121	145
30°	92115	33119	177	76	152
35°	98993	16945	54	134	187
40°	99043	6756	29	143	229
45°	63231	2264	62	217	310
50°	32818	273	102	273	409
55°	2829	38	115	344	497
60°	88	44	132	395	570
65°	104	52	259	415	623
70°	64	64	321	449	577
75°	85	85	254	508	678
80°	126	126	379	379	631
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 63231 cd/sqm

TEST NUMBER: P1335774

CATALOG NUMBER: P3A02R409740DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	2.3
10°-20°	18.5	13.5
20°-30°	40.6	29.7
30°-40°	46.3	33.8
40°-50°	24.4	17.8
50°-60°	2.9	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°	62.3	45.5
0°-40°	108.6	79.3
0°-60°	135.9	99.2
0°-90°	137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	137.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	73	46	14	6	4	10
15°	243	123	6	1	1	72
25°	350	170	2	0	1	161
35°	370	63	0	0	1	229
45°	204	7	0	1	1	164
55°	7	0	0	1	1	23
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: P1335774

CATALOG NUMBER: P3A02R409740DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	36.1	36.1	36.0	35.0	34.9	34.7	32.9	32.4	30.2	28.7	21.9
5°	72.8	71.2	71.1	69.2	66.1	61.9	59.3	55.0	50.8	46.4	27.0
7.5°	116.0	117.4	113.6	111.6	104.7	99.7	92.1	85.3	76.0	67.2	31.1
10°	165.1	162.7	158.9	155.0	147.5	138.6	127.3	115.3	101.8	88.7	33.5
12.5°	203.4	200.3	198.0	192.8	185.4	173.9	160.4	144.4	126.4	107.6	33.3
15°	243.0	239.9	234.7	230.1	219.1	206.2	191.5	170.4	148.4	123.4	30.9
17.5°	286.6	282.5	276.7	269.7	259.0	244.8	226.1	200.4	169.3	136.4	26.5
20°	323.7	321.3	315.5	307.2	296.8	282.9	261.3	232.9	194.9	150.5	21.1
22.5°	348.1	345.9	341.9	334.6	326.8	311.9	292.3	261.0	216.3	163.4	16.0
25°	350.0	349.1	348.1	345.6	340.9	330.3	311.1	277.4	229.6	169.6	11.8
27.5°	349.0	348.6	348.4	347.1	344.0	333.6	313.9	279.9	227.9	159.9	8.7
30°	363.8	362.8	362.2	358.0	349.8	333.7	308.0	266.8	202.5	130.8	6.3
32.5°	371.3	371.1	370.5	366.5	354.9	333.9	298.0	235.2	160.6	94.5	4.3
35°	369.8	368.7	366.6	359.1	343.0	316.7	265.9	187.8	115.9	63.3	2.8
37.5°	364.7	362.1	358.0	344.5	323.1	287.2	215.6	138.3	78.9	41.0	1.6
40°	346.0	342.4	336.0	319.5	291.3	236.7	159.4	93.4	51.8	23.6	0.5
42.5°	297.5	292.8	288.2	269.7	237.5	176.5	104.9	57.8	29.5	13.0	0.1
45°	203.9	198.1	191.7	178.3	152.5	106.9	62.4	32.5	15.3	7.3	0.1
47.5°	141.6	138.9	127.8	110.7	84.9	56.6	32.3	16.0	8.1	3.4	0.1
50°	96.2	93.2	80.2	63.7	45.2	27.1	14.8	8.0	3.6	0.8	0.1
52.5°	50.5	46.8	38.6	29.4	18.3	11.3	6.5	3.5	1.0	0.1	0.1
55°	7.4	6.8	5.6	4.5	4.1	3.1	1.9	0.8	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	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	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
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	0.3
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: P1335774

CATALOG NUMBER: P3A02R409740DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	16.2	16.2	16.2	16.2	16.2
2.5°	16.0	11.8	9.1	7.9	7.8
5°	14.5	8.5	5.6	4.3	4.1
7.5°	12.3	5.9	3.2	2.3	2.2
10°	10.1	4.1	2.0	1.6	1.5
12.5°	8.0	2.7	1.4	1.3	1.2
15°	6.1	1.7	1.0	0.9	0.9
17.5°	4.6	1.2	0.8	0.8	0.8
20°	3.5	0.8	0.6	0.7	0.7
22.5°	2.4	0.6	0.5	0.6	0.6
25°	1.7	0.5	0.5	0.6	0.6
27.5°	1.2	0.3	0.3	0.5	0.6
30°	0.7	0.2	0.3	0.5	0.6
32.5°	0.3	0.2	0.3	0.6	0.6
35°	0.2	0.3	0.5	0.6	0.7
37.5°	0.1	0.3	0.5	0.7	0.7
40°	0.1	0.3	0.5	0.7	0.8
42.5°	0.2	0.5	0.6	0.8	0.9
45°	0.2	0.5	0.7	0.9	1.0
47.5°	0.2	0.5	0.8	1.0	1.0
50°	0.3	0.6	0.8	1.0	1.2
52.5°	0.3	0.6	0.8	1.2	1.3
55°	0.3	0.6	0.9	1.2	1.3
57.5°	0.3	0.7	0.9	1.2	1.3
60°	0.3	0.6	0.9	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	1.0	1.0
70°	0.5	0.6	0.7	0.9	0.9
72.5°	0.5	0.6	0.7	0.8	0.9
75°	0.3	0.5	0.6	0.7	0.8
77.5°	0.3	0.5	0.5	0.7	0.7
80°	0.3	0.3	0.3	0.5	0.5
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	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)