

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: P1336181

Luminaire Tested: P3A02R459840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336181
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: P3A02R459840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

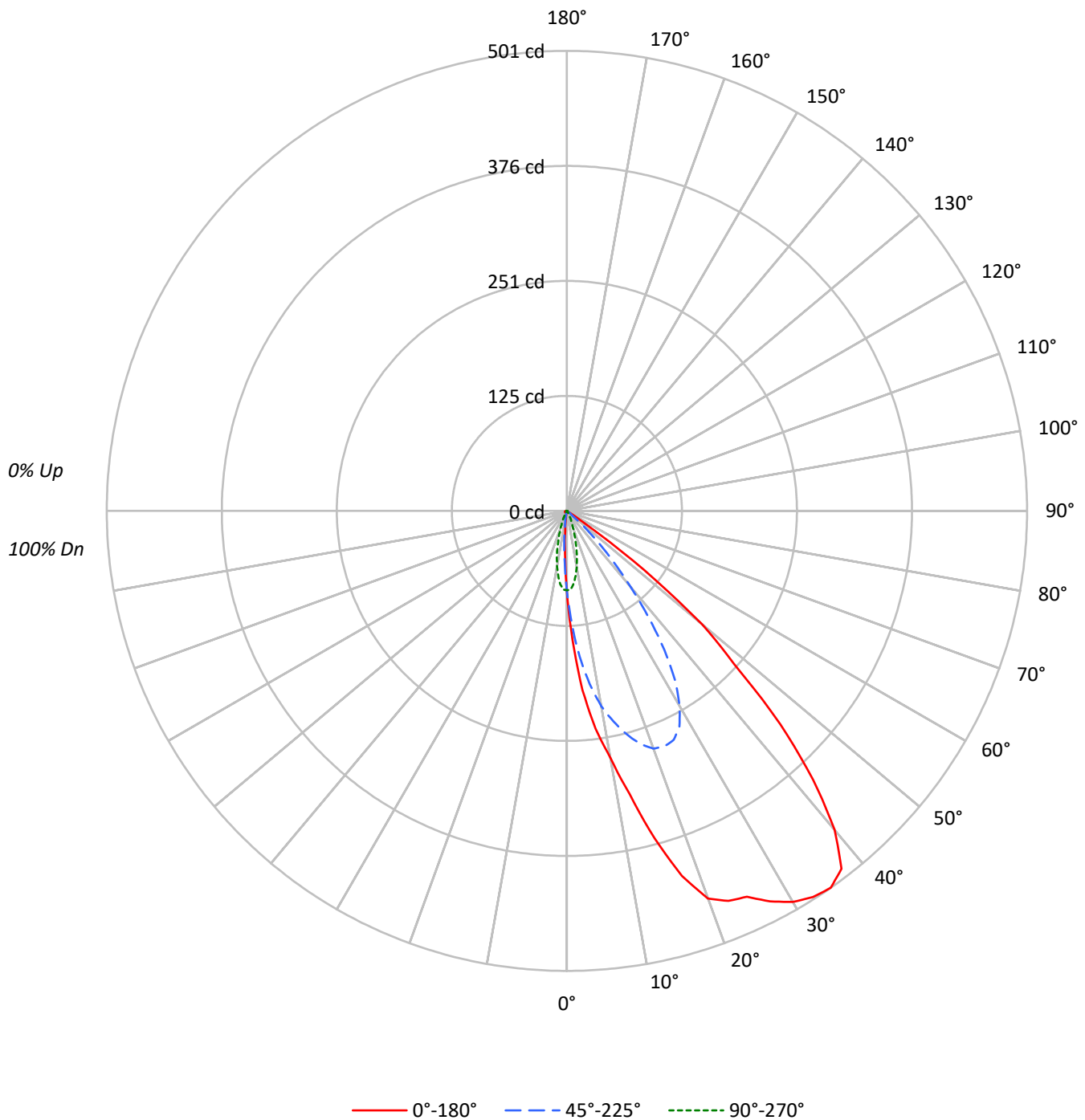
Lumens per Lamp: N/A
Luminaire Lumens: 227.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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			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	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	94	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°	18946	18946	18946	18946	18946
5°	43165	35021	17720	7110	4843
10°	60832	48095	13694	1559	713
15°	83814	57231	8740	522	431
20°	104822	64289	4574	350	350
25°	112168	66560	2105	266	315
30°	124500	62161	962	279	329
35°	134114	49550	294	294	402
40°	129757	30715	172	372	487
45°	101902	14482	186	465	589
50°	65465	1672	273	580	785
55°	9940	153	306	726	956
60°	175	175	351	833	1009
65°	208	208	415	882	1193
70°	256	256	513	962	1346
75°	169	339	678	1101	1440
80°	253	505	758	1137	1642
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 101902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	4.2
10°-20°	34.2	15.1
20°-30°	60.0	26.4
30°-40°	68.2	30.0
40°-50°	44.1	19.4
50°-60°	8.7	3.8
60°-70°	1.1	0.5
70°-80°	0.9	0.4
80°-90°	0.4	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°	103.7	45.7
0°-40°	171.8	75.7
0°-60°	224.7	99.0
0°-90°	227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	196	159	80	32	22	21
15°	369	252	38	2	2	106
25°	464	275	9	1	1	217
35°	501	185	1	1	2	308
45°	329	47	1	2	2	248
55°	26	0	1	2	2	50
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	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°	50°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	140.3	139.9	140.5	136.7	136.5	133.6	132.9	129.7	125.3	123.2	118.3
5°	196.1	194.2	194.2	189.7	188.1	184.9	179.4	172.6	166.9	159.1	150.7
7.5°	239.2	238.8	238.8	234.8	231.0	226.5	219.1	211.3	202.2	190.2	178.1
10°	273.2	273.8	272.0	268.4	262.9	258.0	249.3	239.8	228.6	216.0	199.9
12.5°	316.1	311.9	310.6	302.4	295.4	285.9	275.5	264.6	250.8	235.0	216.8
15°	369.2	363.9	358.6	347.8	336.0	321.4	305.1	289.1	271.3	252.1	229.3
17.5°	416.7	416.7	409.7	392.6	377.4	355.8	333.7	312.5	291.4	266.2	237.7
20°	449.2	447.5	442.1	429.6	412.3	387.8	359.2	329.4	303.9	275.5	242.4
22.5°	459.8	459.4	459.6	452.2	438.3	412.9	377.8	342.7	310.8	277.7	240.1
25°	463.6	464.4	466.3	463.4	453.0	427.5	389.2	348.9	312.9	275.1	231.4
27.5°	479.4	477.8	479.9	478.0	466.3	435.9	391.5	347.4	308.3	265.4	215.9
30°	491.7	491.3	494.9	493.2	477.8	441.2	389.4	341.7	297.1	245.5	191.4
32.5°	498.7	498.9	499.9	492.8	470.0	429.6	379.1	330.1	276.0	219.5	159.5
35°	501.0	499.9	494.5	477.3	446.1	402.8	353.9	302.6	247.4	185.1	126.1
37.5°	491.1	485.2	471.6	445.7	409.7	369.2	321.6	267.9	208.1	146.2	94.0
40°	453.3	445.6	428.3	401.9	368.3	329.2	280.4	224.2	161.4	107.3	66.1
42.5°	396.8	392.8	374.7	351.8	323.3	283.8	233.5	176.6	119.4	74.0	42.1
45°	328.6	323.5	312.1	291.8	269.4	228.0	181.1	126.4	81.4	46.7	20.9
47.5°	246.4	246.8	239.0	223.6	201.6	167.1	124.0	84.9	51.1	24.1	4.7
50°	191.9	189.3	178.3	162.5	136.9	111.2	80.1	53.5	27.0	4.9	0.4
52.5°	106.3	108.0	102.1	97.0	83.7	66.4	47.3	27.1	5.7	0.6	0.4
55°	26.0	27.5	26.4	27.0	27.9	24.9	19.2	5.3	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	0.9	1.3	1.3	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	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	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	115.8	112.2	105.6	85.8	68.9	55.6	47.7	46.9
5°	143.3	133.6	119.6	80.5	50.9	32.3	23.4	22.0
7.5°	165.2	151.5	129.9	71.8	34.7	16.5	9.1	7.6
10°	183.2	163.8	135.2	61.5	21.8	7.0	3.8	3.2
12.5°	195.5	172.2	136.1	50.1	12.5	3.4	2.5	2.3
15°	203.5	174.8	131.6	38.5	7.0	2.3	2.1	1.9
17.5°	206.7	172.6	122.8	27.9	3.8	1.7	1.7	1.7
20°	205.2	165.2	109.9	19.6	2.5	1.5	1.5	1.5
22.5°	198.0	152.4	93.8	13.1	1.7	1.3	1.3	1.3
25°	183.8	135.2	76.7	8.7	1.1	1.1	1.3	1.3
27.5°	162.5	113.9	58.7	5.9	0.9	1.1	1.3	1.3
30°	135.7	90.2	42.1	3.8	0.9	1.1	1.1	1.3
32.5°	107.8	65.7	27.7	2.3	0.8	1.1	1.3	1.5
35°	78.2	44.8	17.7	1.1	0.9	1.1	1.3	1.5
37.5°	54.9	29.2	10.3	0.8	0.9	1.1	1.5	1.5
40°	35.7	16.3	3.8	0.6	0.9	1.3	1.5	1.7
42.5°	18.6	5.7	0.8	0.6	0.9	1.3	1.7	1.9
45°	4.7	0.8	0.2	0.6	1.1	1.5	1.9	1.9
47.5°	0.6	0.2	0.2	0.8	1.1	1.7	1.9	2.1
50°	0.2	0.4	0.4	0.8	1.1	1.7	2.1	2.3
52.5°	0.4	0.4	0.4	0.8	1.3	1.7	2.3	2.5
55°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.5
57.5°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
60°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
62.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.3	2.3
65°	0.4	0.6	0.6	0.8	1.3	1.7	2.1	2.3
67.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.1	2.3
70°	0.4	0.4	0.6	0.8	1.1	1.5	1.9	2.1
72.5°	0.4	0.4	0.6	0.8	1.1	1.5	1.7	1.9
75°	0.4	0.4	0.6	0.8	0.9	1.3	1.7	1.7
77.5°	0.4	0.4	0.6	0.6	0.9	1.1	1.5	1.5
80°	0.4	0.4	0.6	0.6	0.8	0.9	1.1	1.3
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)