

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: P1341554

Luminaire Tested: P3A09R309840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1341554
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: P3A09R309840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

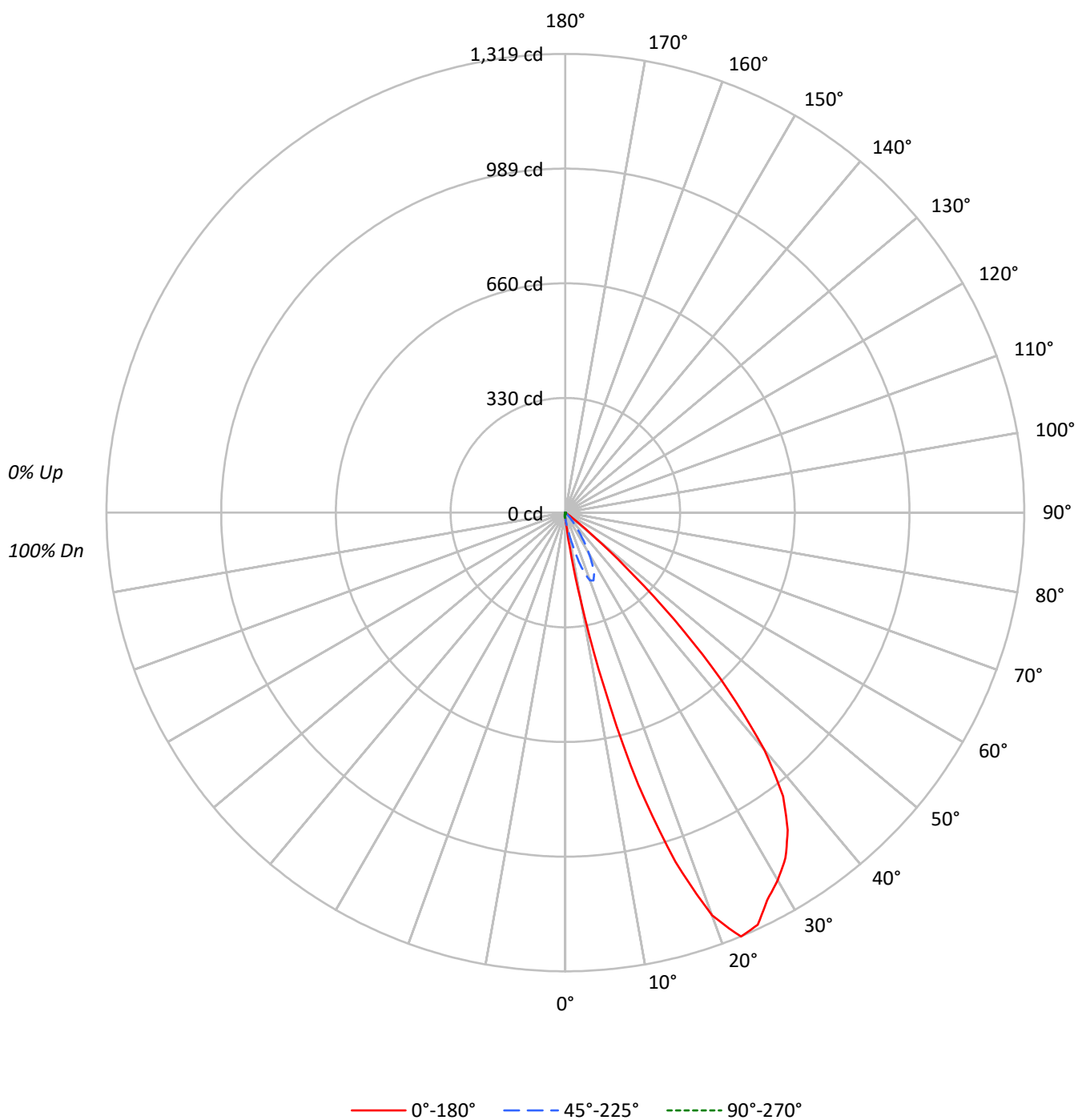
Lumens per Lamp: N/A
Luminaire Lumens: 311.1 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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	87	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	66	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°	3245	3245	3245	3245	3245
5°	9751	6516	3060	1387	1123
10°	56512	13805	2405	623	445
15°	183792	31283	1680	136	68
20°	287608	48421	1050	0	0
25°	316421	47301	556	0	0
30°	309060	34107	228	0	0
35°	298290	19408	80	0	0
40°	254362	8215	0	0	0
45°	149287	3070	93	0	93
50°	36263	580	102	102	307
55°	3135	0	229	344	421
60°	132	0	263	395	614
65°	156	156	467	467	726
70°	192	192	577	577	705
75°	0	254	763	763	763
80°	0	379	1137	758	758
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 149287 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.9
10°-20°	42.7	13.7
20°-30°	108.6	34.9
30°-40°	108.3	34.8
40°-50°	43.9	14.1
50°-60°	3.0	1.0
60°-70°	0.7	0.2
70°-80°	0.7	0.2
80°-90°	0.4	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°	154.1	49.5
0°-40°	262.3	84.3
0°-60°	309.3	99.4
0°-90°	311.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	311.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	44	30	14	6	5	10
15°	810	138	7	1	0	236
25°	1308	196	2	0	0	590
35°	1114	72	0	0	0	683
45°	481	10	0	0	0	367
55°	8	0	1	1	1	22
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
2.5°	24.4	24.7	24.7	24.2	23.9	23.9	23.0	22.7	21.9	21.0	18.2
5°	44.3	43.5	42.3	42.3	39.8	38.4	36.4	34.1	32.4	29.6	21.0
7.5°	100.6	93.8	91.8	89.2	79.6	71.9	63.1	55.4	48.3	42.3	23.3
10°	253.8	240.4	229.3	206.9	178.8	151.8	126.7	97.8	77.9	62.0	25.0
12.5°	511.2	493.3	472.0	431.1	378.5	311.2	251.5	187.8	131.9	91.2	25.6
15°	809.6	779.2	746.0	694.0	607.9	511.2	403.5	302.1	211.7	137.8	25.0
17.5°	1052.9	1041.0	991.8	920.8	815.3	690.8	558.1	419.5	285.6	180.5	23.3
20°	1232.5	1224.3	1164.9	1089.3	970.5	827.8	659.3	492.8	337.0	207.5	20.7
22.5°	1319.2	1317.8	1274.8	1197.5	1071.7	910.0	724.4	535.1	353.0	211.1	17.3
25°	1307.8	1312.9	1288.5	1231.1	1110.3	943.8	743.7	535.1	341.3	195.5	14.5
27.5°	1256.1	1259.5	1244.2	1200.1	1087.6	919.3	716.7	500.7	307.5	168.0	11.9
30°	1220.6	1222.0	1202.9	1155.8	1036.4	863.6	653.1	437.1	256.3	134.7	8.8
32.5°	1177.4	1177.1	1154.9	1100.9	969.3	785.5	572.3	361.2	196.9	102.3	5.1
35°	1114.3	1107.2	1077.1	1014.8	869.3	680.3	469.2	275.1	141.8	72.5	3.1
37.5°	1027.6	1009.1	966.5	883.2	728.9	533.4	347.8	193.2	96.9	48.0	2.0
40°	888.6	869.0	811.1	709.9	551.3	383.9	234.5	125.9	61.1	28.7	1.1
42.5°	696.8	683.5	605.3	504.4	364.0	245.0	141.0	74.5	34.4	16.5	0.3
45°	481.4	464.1	402.7	317.1	218.5	135.8	79.0	38.9	19.6	9.9	0.0
47.5°	265.7	244.4	208.9	164.3	110.0	71.3	39.8	21.0	11.1	4.8	0.0
50°	106.3	105.4	83.8	59.7	42.1	32.4	19.9	11.4	5.7	1.7	0.3
52.5°	37.2	37.2	32.1	26.1	20.5	14.8	9.9	5.4	2.0	0.6	0.3
55°	8.2	9.1	8.5	8.0	7.7	6.5	4.3	2.0	0.6	0.0	0.3
57.5°	0.9	0.9	0.9	1.1	1.4	1.4	1.1	0.6	0.0	0.0	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.6
62.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.6
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
75°	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.9
77.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
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):

	90°	112.5°	135°	157.5°	180°
0°	14.8	14.8	14.8	14.8	14.8
2.5°	14.8	11.7	9.7	8.5	8.2
5°	13.9	8.8	6.3	5.4	5.1
7.5°	12.5	6.5	4.3	3.4	3.1
10°	10.8	4.8	2.8	2.0	2.0
12.5°	9.1	3.7	1.7	0.9	0.6
15°	7.4	2.3	0.6	0.3	0.3
17.5°	5.7	1.4	0.0	0.0	0.0
20°	4.5	0.6	0.0	0.0	0.0
22.5°	3.4	0.3	0.0	0.0	0.0
25°	2.3	0.0	0.0	0.0	0.0
27.5°	1.4	0.0	0.0	0.0	0.0
30°	0.9	0.0	0.0	0.0	0.0
32.5°	0.3	0.0	0.0	0.0	0.0
35°	0.3	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°	0.3	0.0	0.0	0.3	0.3
47.5°	0.3	0.3	0.3	0.6	0.6
50°	0.3	0.3	0.3	0.6	0.9
52.5°	0.6	0.3	0.6	0.9	0.9
55°	0.6	0.6	0.9	1.1	1.1
57.5°	0.6	0.6	0.9	1.1	1.1
60°	0.6	0.6	0.9	1.1	1.4
62.5°	0.9	0.9	0.9	1.1	1.1
65°	0.9	0.9	0.9	1.1	1.4
67.5°	0.9	0.9	0.9	1.1	1.4
70°	0.9	0.9	0.9	1.1	1.1
72.5°	1.1	0.9	0.9	1.1	1.1
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.6	0.9	0.9
80°	0.9	0.6	0.6	0.6	0.6
82.5°	0.9	0.6	0.6	0.6	0.6
85°	0.9	0.6	0.3	0.3	0.3
87.5°	0.9	0.6	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)