

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: P1345036

Luminaire Tested: P3A13R309740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345036
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: P3A13R309740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

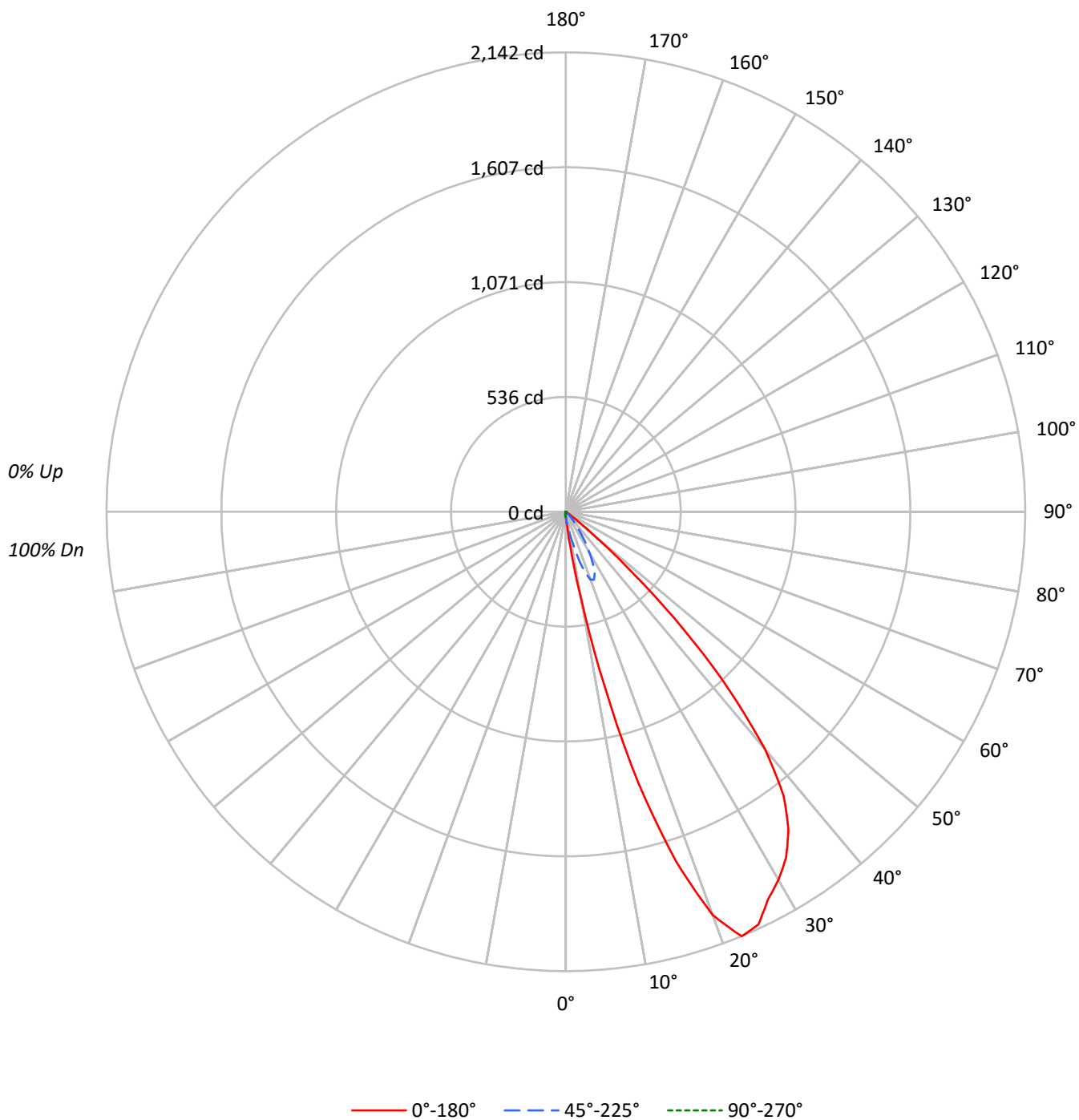
Lumens per Lamp: N/A
Luminaire Lumens: 505.0 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	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°	5263	5263	5263	5263	5263
5°	15849	10566	4975	2245	1827
10°	91760	22400	3897	1024	713
15°	298458	50806	2724	204	114
20°	467011	78617	1727	0	0
25°	513804	76819	895	0	0
30°	501824	55376	354	0	0
35°	484362	31507	134	0	0
40°	413060	13339	0	0	0
45°	242413	5024	155	0	155
50°	58881	955	171	171	478
55°	5123	0	344	535	688
60°	219	0	395	614	1009
65°	259	259	726	726	1193
70°	321	321	898	898	1154
75°	0	424	1186	1186	1186
80°	0	631	1768	1137	1137
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 242413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.9
10°-20°	69.4	13.7
20°-30°	176.4	34.9
30°-40°	175.8	34.8
40°-50°	71.2	14.1
50°-60°	4.9	1.0
60°-70°	1.1	0.2
70°-80°	1.1	0.2
80°-90°	0.6	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°	250.2	49.5
0°-40°	426.0	84.4
0°-60°	502.1	99.4
0°-90°	505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	72	48	23	10	8	17
15°	1315	224	12	1	0	383
25°	2124	318	4	0	0	959
35°	1809	118	0	0	0	1109
45°	782	16	0	0	0	596
55°	13	0	1	1	2	35
65°	0	0	1	1	2	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°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
2.5°	39.7	40.1	40.1	39.2	38.8	38.8	37.4	36.9	35.5	34.1	29.5
5°	72.0	70.6	68.8	68.8	64.6	62.3	59.1	55.4	52.6	48.0	34.1
7.5°	163.4	152.3	149.0	144.9	129.2	116.7	102.4	90.0	78.4	68.8	37.8
10°	412.1	390.4	372.4	335.9	290.3	246.4	205.8	158.7	126.4	100.6	40.6
12.5°	830.2	801.1	766.5	700.0	614.7	505.3	408.4	305.0	214.1	148.1	41.5
15°	1314.7	1265.3	1211.3	1126.9	987.1	830.2	655.3	490.5	343.8	223.8	40.6
17.5°	1709.7	1690.3	1610.5	1495.1	1323.9	1121.8	906.3	681.1	463.8	293.0	37.8
20°	2001.3	1987.9	1891.5	1768.8	1575.9	1344.2	1070.6	800.2	547.3	336.9	33.7
22.5°	2142.1	2139.8	2070.1	1944.6	1740.1	1477.6	1176.2	868.9	573.1	342.9	28.1
25°	2123.6	2131.9	2092.2	1999.0	1802.9	1532.5	1207.6	868.9	554.2	317.5	23.5
27.5°	2039.6	2045.2	2020.2	1948.7	1766.0	1492.8	1163.8	813.1	499.3	272.7	19.4
30°	1981.9	1984.3	1953.3	1876.7	1682.9	1402.4	1060.4	709.7	416.2	218.7	14.3
32.5°	1911.8	1911.3	1875.4	1787.7	1574.0	1275.5	929.4	586.5	319.8	166.1	8.3
35°	1809.4	1797.8	1748.9	1647.9	1411.6	1104.7	761.9	446.7	230.3	117.7	5.1
37.5°	1668.6	1638.6	1569.4	1434.2	1183.6	866.1	564.8	313.8	157.4	78.0	3.2
40°	1443.0	1411.1	1317.0	1152.7	895.2	623.4	380.7	204.4	99.2	46.6	1.8
42.5°	1131.5	1109.8	982.9	819.1	591.1	397.8	228.9	120.9	55.8	26.8	0.5
45°	781.7	753.6	653.9	515.0	354.9	220.6	128.3	63.2	31.8	16.2	0.0
47.5°	431.5	396.9	339.2	266.7	178.6	115.8	64.6	34.1	18.0	7.8	0.0
50°	172.6	171.2	136.1	96.9	68.3	52.6	32.3	18.5	9.2	2.8	0.5
52.5°	60.5	60.5	52.1	42.5	33.2	24.0	16.2	8.8	3.2	0.9	0.5
55°	13.4	14.8	13.8	12.9	12.5	10.6	6.9	3.2	0.9	0.0	0.5
57.5°	1.4	1.4	1.4	1.8	2.3	2.3	1.8	0.9	0.0	0.0	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.9
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.9
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9
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°	24.0	24.0	24.0	24.0	24.0
2.5°	24.0	18.9	15.7	13.8	13.4
5°	22.6	14.3	10.2	8.8	8.3
7.5°	20.3	10.6	6.9	5.5	5.1
10°	17.5	7.8	4.6	3.2	3.2
12.5°	14.8	6.0	2.8	1.4	0.9
15°	12.0	3.7	0.9	0.5	0.5
17.5°	9.2	2.3	0.0	0.0	0.0
20°	7.4	0.9	0.0	0.0	0.0
22.5°	5.5	0.5	0.0	0.0	0.0
25°	3.7	0.0	0.0	0.0	0.0
27.5°	2.3	0.0	0.0	0.0	0.0
30°	1.4	0.0	0.0	0.0	0.0
32.5°	0.5	0.0	0.0	0.0	0.0
35°	0.5	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°	0.5	0.0	0.0	0.5	0.5
47.5°	0.5	0.5	0.5	0.9	0.9
50°	0.5	0.5	0.5	0.9	1.4
52.5°	0.9	0.5	0.9	1.4	1.4
55°	0.9	0.9	1.4	1.8	1.8
57.5°	0.9	0.9	1.4	1.8	1.8
60°	0.9	0.9	1.4	1.8	2.3
62.5°	1.4	1.4	1.4	1.8	1.8
65°	1.4	1.4	1.4	1.8	2.3
67.5°	1.4	1.4	1.4	1.8	2.3
70°	1.4	1.4	1.4	1.8	1.8
72.5°	1.8	1.4	1.4	1.8	1.8
75°	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	0.9	1.4	1.4
80°	1.4	0.9	0.9	0.9	0.9
82.5°	1.4	0.9	0.9	0.9	0.9
85°	1.4	0.9	0.5	0.5	0.5
87.5°	1.4	0.9	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)