

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: P1345964

Luminaire Tested: P3A13R409035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345964
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: P3A13R409035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

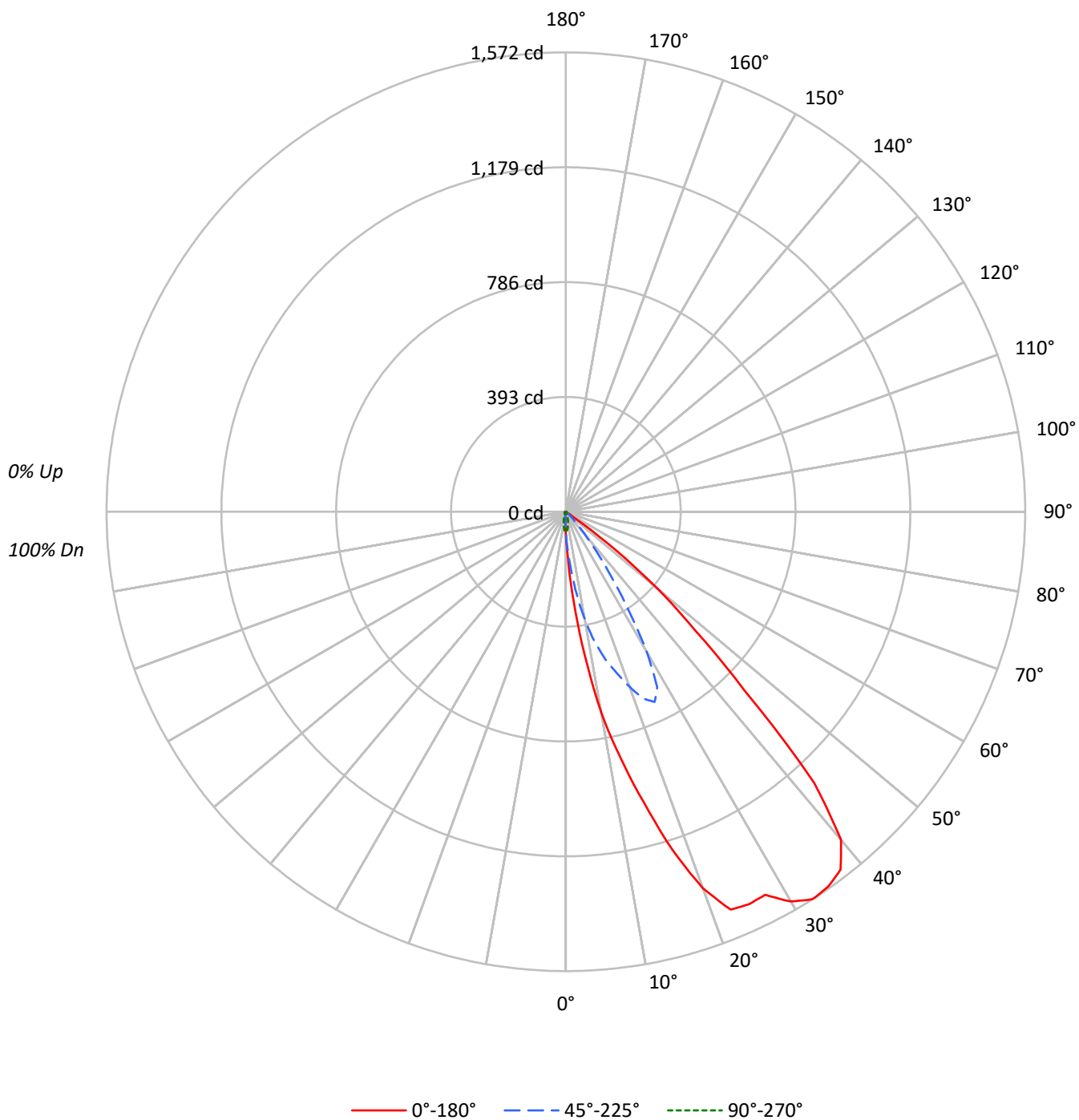
Lumens per Lamp: N/A
Luminaire Lumens: 580.1 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1345964

CATALOG NUMBER: P3A13R409035DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1345964

CATALOG NUMBER: P3A13R409035DE010 E3A301WMH

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	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	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	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15043	15043	15043	15043	15043
5°	67862	43275	13493	5173	3786
10°	155642	83610	9485	1848	1425
15°	233577	118639	5902	999	885
20°	319834	148716	3430	583	677
25°	358545	173768	1790	484	605
30°	389984	140249	734	380	633
35°	419126	71768	268	535	776
40°	419271	28625	143	573	973
45°	267718	9582	310	899	1364
50°	138981	1160	512	1160	1672
55°	12004	191	573	1491	2064
60°	439	219	658	1710	2368
65°	519	259	1038	1764	2542
70°	321	321	1282	1859	2500
75°	424	424	1271	2118	2881
80°	631	631	1894	1894	2526
85°	0	1258	3774	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 267718 cd/sqm

TEST NUMBER: P1345964

CATALOG NUMBER: P3A13R409035DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	2.3
10°-20°	78.5	13.5
20°-30°	171.9	29.6
30°-40°	195.9	33.8
40°-50°	103.3	17.8
50°-60°	12.2	2.1
60°-70°	2.2	0.4
70°-80°	1.8	0.3
80°-90°	0.8	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°	263.8	45.5
0°-40°	459.7	79.2
0°-60°	575.2	99.2
0°-90°	580.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	308	197	61	24	17	42
15°	1029	523	26	4	4	303
25°	1482	718	7	2	2	683
35°	1566	268	1	2	3	970
45°	863	31	1	3	4	696
55°	31	0	2	4	5	97
65°	1	0	2	3	5	1
75°	0	0	2	2	3	1
85°	0	0	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1345964

CATALOG NUMBER: P3A13R409035DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
2.5°	152.9	152.9	152.5	148.0	147.6	147.1	139.2	137.3	127.9	121.6	92.6
5°	308.3	301.5	301.0	293.1	279.9	262.3	251.0	232.8	215.2	196.6	114.2
7.5°	491.2	497.1	480.9	472.6	443.1	422.1	389.7	361.3	321.6	284.3	131.9
10°	699.0	688.7	672.6	656.4	624.5	586.8	538.7	488.2	430.9	375.5	141.7
12.5°	861.3	848.1	838.3	816.2	784.8	736.3	678.9	611.3	535.3	455.4	141.2
15°	1028.9	1015.7	993.6	974.0	927.5	873.1	810.8	721.6	628.4	522.6	130.9
17.5°	1213.3	1196.1	1171.6	1141.7	1096.6	1036.3	957.4	848.5	716.7	577.5	112.3
20°	1370.6	1360.3	1335.8	1300.5	1256.4	1197.6	1106.4	985.8	825.0	637.3	89.2
22.5°	1473.6	1464.2	1447.6	1416.7	1383.4	1320.6	1237.3	1104.9	915.7	691.7	67.6
25°	1481.9	1478.0	1473.6	1463.3	1443.2	1398.6	1317.2	1174.5	972.1	718.2	50.0
27.5°	1477.5	1476.0	1475.0	1469.6	1456.4	1412.3	1328.9	1184.8	964.7	677.0	36.8
30°	1540.2	1535.8	1533.4	1515.7	1480.9	1412.8	1303.9	1129.4	857.4	553.9	26.5
32.5°	1572.1	1571.1	1568.7	1551.5	1502.5	1413.8	1261.8	995.6	679.9	400.0	18.1
35°	1565.7	1560.8	1552.0	1520.1	1452.0	1340.7	1125.5	795.1	490.7	268.1	11.8
37.5°	1544.1	1532.9	1515.7	1458.4	1367.7	1215.7	912.8	585.3	333.8	173.5	6.9
40°	1464.7	1449.5	1422.6	1352.5	1233.4	1002.0	675.0	395.6	219.1	100.0	2.0
42.5°	1259.3	1239.7	1220.1	1141.7	1005.4	747.1	444.1	244.6	125.0	54.9	0.5
45°	863.3	838.7	811.8	754.9	645.6	452.5	264.2	137.7	64.7	30.9	0.5
47.5°	599.5	588.2	541.2	468.6	359.3	239.7	136.8	67.6	34.3	14.2	0.5
50°	407.4	394.6	339.7	269.6	191.2	114.7	62.7	33.8	15.2	3.4	0.5
52.5°	213.7	198.0	163.2	124.5	77.5	48.0	27.5	14.7	4.4	0.5	0.5
55°	31.4	28.9	23.5	19.1	17.2	13.2	7.8	3.4	0.5	0.5	1.0
57.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5	0.5	0.5	1.0
60°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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: P1345964

CATALOG NUMBER: P3A13R409035DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	68.6	68.6	68.6	68.6	68.6
2.5°	67.6	50.0	38.7	33.3	32.8
5°	61.3	35.8	23.5	18.1	17.2
7.5°	52.0	25.0	13.7	9.8	9.3
10°	42.6	17.2	8.3	6.9	6.4
12.5°	33.8	11.3	5.9	5.4	4.9
15°	26.0	7.4	4.4	3.9	3.9
17.5°	19.6	4.9	3.4	3.4	3.4
20°	14.7	3.4	2.5	2.9	2.9
22.5°	10.3	2.5	2.0	2.5	2.5
25°	7.4	2.0	2.0	2.5	2.5
27.5°	4.9	1.5	1.5	2.0	2.5
30°	2.9	1.0	1.5	2.0	2.5
32.5°	1.5	1.0	1.5	2.5	2.5
35°	1.0	1.5	2.0	2.5	2.9
37.5°	0.5	1.5	2.0	2.9	2.9
40°	0.5	1.5	2.0	2.9	3.4
42.5°	1.0	2.0	2.5	3.4	3.9
45°	1.0	2.0	2.9	3.9	4.4
47.5°	1.0	2.0	3.4	4.4	4.4
50°	1.5	2.5	3.4	4.4	4.9
52.5°	1.5	2.5	3.4	4.9	5.4
55°	1.5	2.5	3.9	4.9	5.4
57.5°	1.5	2.9	3.9	4.9	5.4
60°	1.5	2.5	3.9	4.9	5.4
62.5°	2.0	2.5	3.4	4.9	4.9
65°	2.0	2.5	3.4	4.9	4.9
67.5°	2.0	2.5	3.4	4.4	4.4
70°	2.0	2.5	2.9	3.9	3.9
72.5°	2.0	2.5	2.9	3.4	3.9
75°	1.5	2.0	2.5	2.9	3.4
77.5°	1.5	2.0	2.0	2.9	2.9
80°	1.5	1.5	1.5	2.0	2.0
82.5°	1.5	1.5	1.0	1.5	1.5
85°	1.5	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)