

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: P1345980

Luminaire Tested: P3A13R409040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345980
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: P3A13R409040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

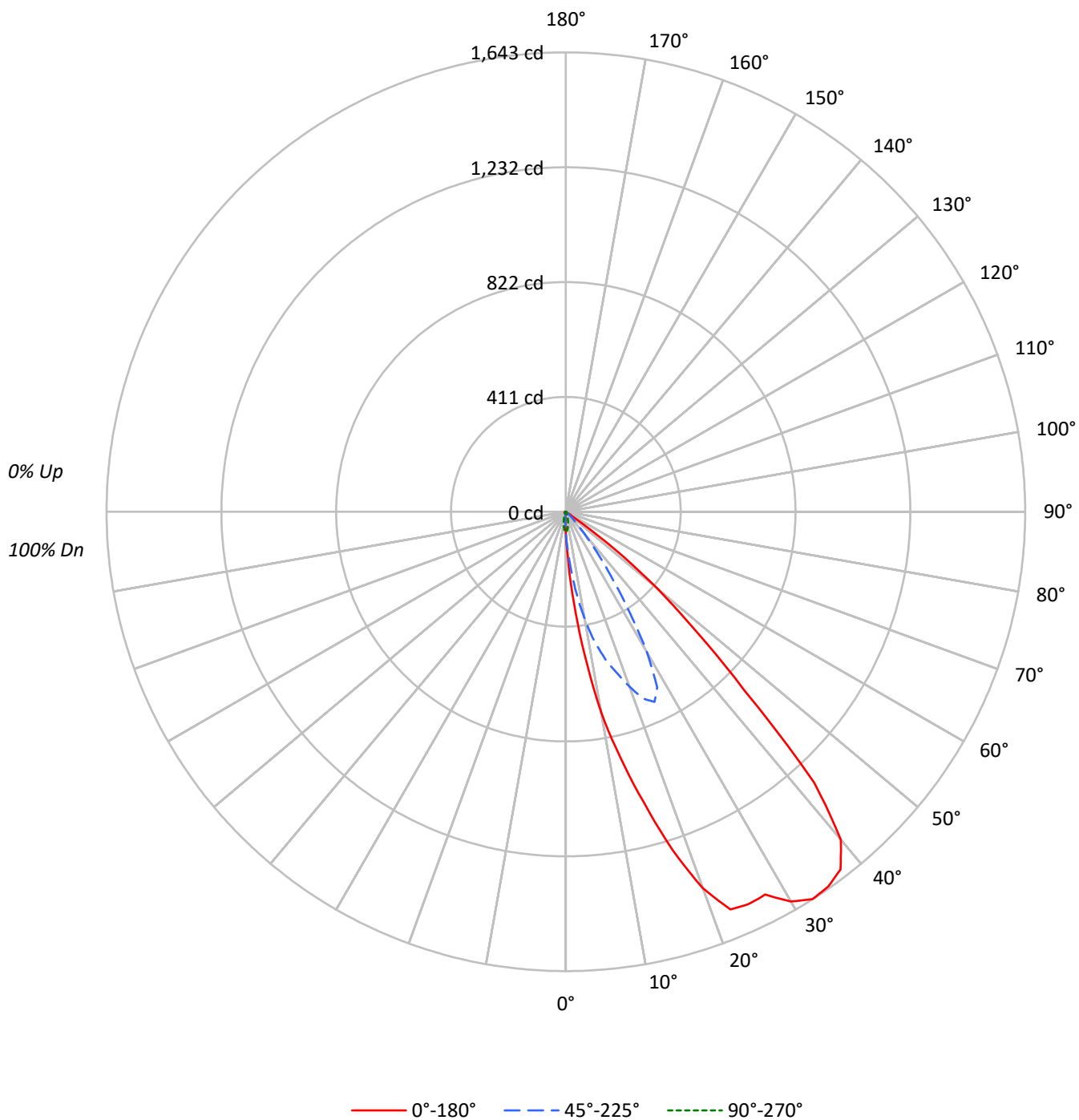
Lumens per Lamp: N/A
Luminaire Lumens: 605.9 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1345980

CATALOG NUMBER: P3A13R409040DE010 E3A301WMH

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	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	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	52	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°	15722	15722	15722	15722	15722
5°	70922	45212	14088	5415	3940
10°	162633	87351	9931	1937	1492
15°	244065	123951	6152	1044	931
20°	334186	155367	3594	607	723
25°	374610	181535	1863	484	629
30°	407480	146554	785	380	658
35°	437918	75007	268	535	830
40°	438078	29913	143	573	1031
45°	279688	10017	310	961	1427
50°	145189	1228	512	1228	1740
55°	12540	191	573	1567	2141
60°	439	219	658	1798	2456
65°	519	259	1038	1868	2646
70°	321	321	1282	1988	2629
75°	424	424	1271	2203	3050
80°	631	631	1894	1894	2526
85°	0	1258	3774	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 279688 cd/sqm

TEST NUMBER: P1345980

CATALOG NUMBER: P3A13R409040DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	2.3
10°-20°	82.0	13.5
20°-30°	179.6	29.6
30°-40°	204.6	33.8
40°-50°	108.0	17.8
50°-60°	12.7	2.1
60°-70°	2.3	0.4
70°-80°	1.9	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°	275.6	45.5
0°-40°	480.3	79.3
0°-60°	601.0	99.2
0°-90°	605.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	322	205	64	25	18	43
15°	1075	546	27	5	4	317
25°	1548	750	8	2	3	713
35°	1636	280	1	2	3	1014
45°	902	32	1	3	5	727
55°	33	0	2	4	6	102
65°	1	0	2	4	5	1
75°	0	0	2	3	4	1
85°	0	0	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1345980

CATALOG NUMBER: P3A13R409040DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
2.5°	159.8	159.8	159.3	154.7	154.2	153.7	145.5	143.4	133.7	127.0	96.8
5°	322.2	315.0	314.5	306.3	292.5	274.0	262.2	243.3	224.8	205.4	119.3
7.5°	513.2	519.4	502.4	493.7	463.0	441.0	407.2	377.5	336.0	297.1	137.8
10°	730.4	719.6	702.7	685.8	652.5	613.1	562.9	510.1	450.2	392.3	148.0
12.5°	899.9	886.1	875.8	852.8	820.0	769.3	709.4	638.7	559.3	475.8	147.5
15°	1075.1	1061.2	1038.2	1017.7	969.0	912.2	847.1	753.9	656.6	546.0	136.8
17.5°	1267.6	1249.7	1224.1	1192.9	1145.7	1082.7	1000.3	886.6	748.8	603.3	117.3
20°	1432.1	1421.3	1395.7	1358.8	1312.7	1251.3	1156.0	1030.0	862.0	665.8	93.2
22.5°	1539.6	1529.9	1512.5	1480.2	1445.4	1379.8	1292.7	1154.5	956.8	722.7	70.7
25°	1548.3	1544.2	1539.6	1528.9	1507.9	1461.3	1376.2	1227.2	1015.7	750.3	52.2
27.5°	1543.7	1542.2	1541.2	1535.5	1521.7	1475.6	1388.5	1237.9	1008.0	707.3	38.4
30°	1609.3	1604.7	1602.1	1583.7	1547.3	1476.1	1362.4	1180.1	895.8	578.8	27.7
32.5°	1642.6	1641.5	1639.0	1621.1	1569.8	1477.1	1318.4	1040.2	710.4	417.9	19.0
35°	1635.9	1630.8	1621.6	1588.3	1517.1	1400.8	1176.0	830.8	512.7	280.2	12.3
37.5°	1613.4	1601.6	1583.7	1523.7	1429.0	1270.2	953.7	611.5	348.8	181.3	7.2
40°	1530.4	1514.5	1486.3	1413.1	1288.6	1046.9	705.3	413.3	228.9	104.5	2.0
42.5°	1315.8	1295.3	1274.8	1192.9	1050.5	780.6	464.0	255.6	130.6	57.4	0.5
45°	901.9	876.3	848.2	788.8	674.5	472.7	276.1	143.9	67.6	32.3	0.5
47.5°	626.4	614.6	565.4	489.6	375.4	250.5	142.9	70.7	35.9	14.9	0.5
50°	425.6	412.3	354.9	281.7	199.8	119.9	65.6	35.3	15.9	3.6	0.5
52.5°	223.3	206.9	170.6	130.1	80.9	50.2	28.7	15.4	4.6	0.5	0.5
55°	32.8	30.2	24.6	20.0	17.9	13.8	8.2	3.6	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: P1345980

CATALOG NUMBER: P3A13R409040DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	71.7	71.7	71.7	71.7	71.7
2.5°	70.7	52.2	40.5	34.8	34.3
5°	64.0	37.4	24.6	19.0	17.9
7.5°	54.3	26.1	14.3	10.2	9.7
10°	44.6	17.9	8.7	7.2	6.7
12.5°	35.3	11.8	6.1	5.6	5.1
15°	27.1	7.7	4.6	4.1	4.1
17.5°	20.5	5.1	3.6	3.6	3.6
20°	15.4	3.6	2.6	3.1	3.1
22.5°	10.8	2.6	2.0	2.6	2.6
25°	7.7	2.0	2.0	2.6	2.6
27.5°	5.1	1.5	1.5	2.0	2.6
30°	3.1	1.0	1.5	2.0	2.6
32.5°	1.5	1.0	1.5	2.6	2.6
35°	1.0	1.5	2.0	2.6	3.1
37.5°	0.5	1.5	2.0	3.1	3.1
40°	0.5	1.5	2.0	3.1	3.6
42.5°	1.0	2.0	2.6	3.6	4.1
45°	1.0	2.0	3.1	4.1	4.6
47.5°	1.0	2.0	3.6	4.6	4.6
50°	1.5	2.6	3.6	4.6	5.1
52.5°	1.5	2.6	3.6	5.1	5.6
55°	1.5	2.6	4.1	5.1	5.6
57.5°	1.5	3.1	4.1	5.1	5.6
60°	1.5	2.6	4.1	5.1	5.6
62.5°	2.0	2.6	3.6	5.1	5.1
65°	2.0	2.6	3.6	5.1	5.1
67.5°	2.0	2.6	3.6	4.6	4.6
70°	2.0	2.6	3.1	4.1	4.1
72.5°	2.0	2.6	3.1	3.6	4.1
75°	1.5	2.0	2.6	3.1	3.6
77.5°	1.5	2.0	2.0	3.1	3.1
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)