

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: P1345900

Luminaire Tested: P3A13R409024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345900
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: P3A13R409024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

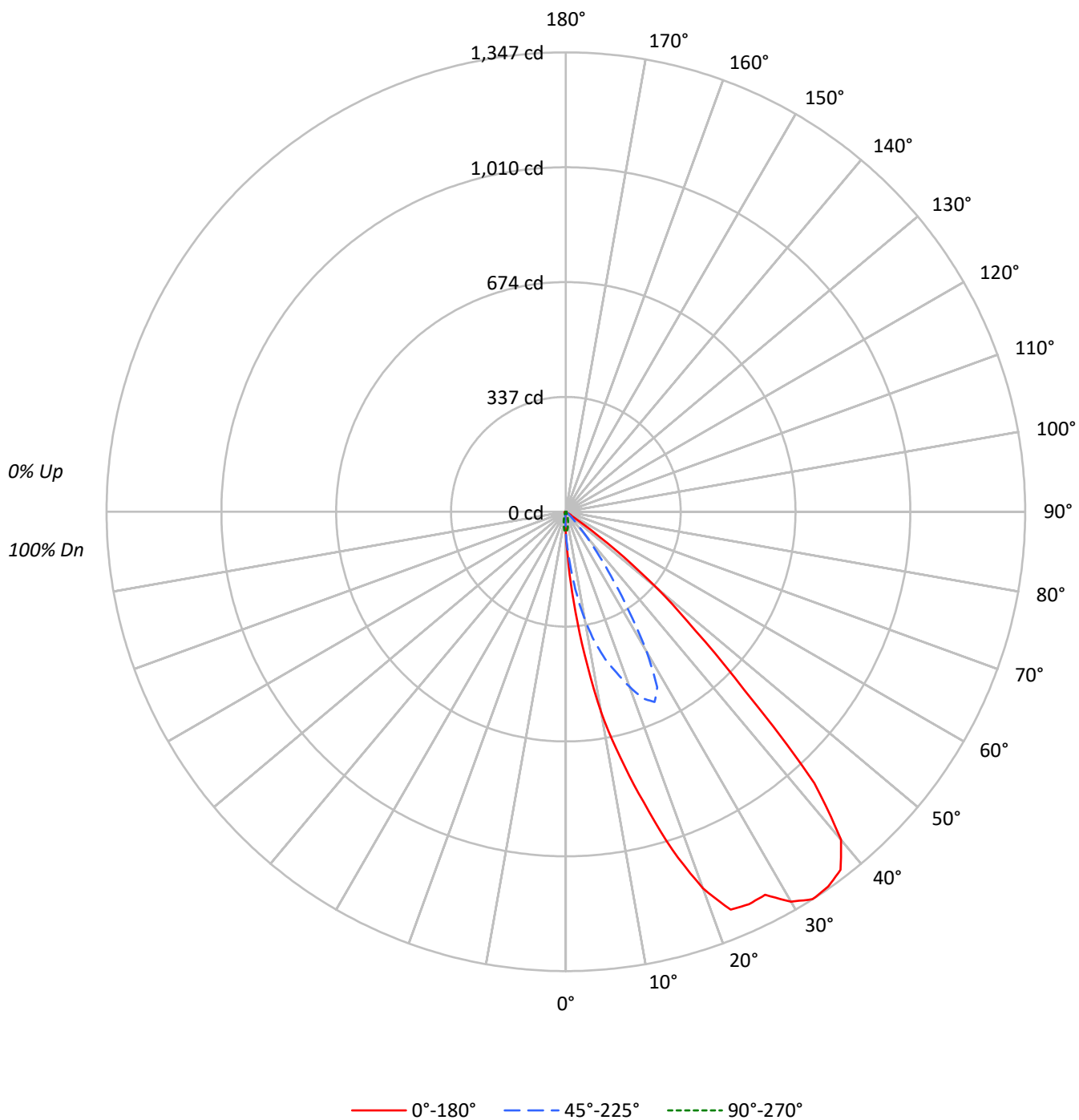
Lumens per Lamp: N/A
Luminaire Lumens: 497.0 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1345900

CATALOG NUMBER: P3A13R409024DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1345900

CATALOG NUMBER: P3A13R409024DE010 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	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°	12894	12894	12894	12894	12894
5°	58155	37068	11556	4446	3236
10°	133375	71653	8127	1581	1225
15°	200160	101658	5062	863	772
20°	274074	127434	2940	490	583
25°	307227	148896	1524	411	508
30°	334178	120196	633	329	532
35°	359163	61516	214	455	669
40°	359273	24532	115	487	830
45°	229388	8218	248	775	1178
50°	119092	989	443	989	1433
55°	10284	153	497	1300	1759
60°	351	175	570	1491	2017
65°	415	208	882	1505	2179
70°	256	256	1090	1603	2180
75°	339	339	1101	1779	2457
80°	505	505	1642	1642	2147
85°	0	1006	3271	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 229388 cd/sqm

TEST NUMBER: P1345900

CATALOG NUMBER: P3A13R409024DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	2.3
10°-20°	67.3	13.5
20°-30°	147.3	29.6
30°-40°	167.8	33.8
40°-50°	88.5	17.8
50°-60°	10.4	2.1
60°-70°	1.9	0.4
70°-80°	1.5	0.3
80°-90°	0.7	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°	226.1	45.5
0°-40°	393.9	79.3
0°-60°	492.9	99.2
0°-90°	497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	497.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	264	168	52	20	15	36
15°	882	448	22	4	3	260
25°	1270	615	6	2	2	585
35°	1342	230	1	2	2	832
45°	740	26	1	2	4	596
55°	27	0	1	3	5	83
65°	1	0	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1345900

CATALOG NUMBER: P3A13R409024DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
2.5°	131.1	131.1	130.6	126.9	126.4	126.0	119.3	117.6	109.6	104.2	79.4
5°	264.2	258.3	257.9	251.2	239.9	224.7	215.1	199.5	184.4	168.4	97.9
7.5°	420.9	425.9	412.1	404.9	379.7	361.7	333.9	309.6	275.6	243.6	113.0
10°	599.0	590.2	576.3	562.5	535.2	502.8	461.6	418.4	369.2	321.8	121.4
12.5°	738.0	726.7	718.3	699.4	672.5	630.9	581.8	523.8	458.7	390.2	121.0
15°	881.7	870.4	851.5	834.7	794.7	748.1	694.8	618.3	538.5	447.8	112.2
17.5°	1039.6	1024.9	1003.9	978.3	939.7	888.0	820.4	727.1	614.1	494.8	96.2
20°	1174.5	1165.7	1144.7	1114.4	1076.6	1026.2	948.1	844.7	707.0	546.1	76.5
22.5°	1262.7	1254.7	1240.4	1214.0	1185.4	1131.6	1060.2	946.8	784.7	592.7	58.0
25°	1269.8	1266.5	1262.7	1253.9	1236.6	1198.4	1128.7	1006.5	833.0	615.4	42.8
27.5°	1266.0	1264.8	1263.9	1259.3	1248.0	1210.2	1138.8	1015.3	826.7	580.1	31.5
30°	1319.8	1316.0	1313.9	1298.8	1269.0	1210.6	1117.3	967.8	734.7	474.7	22.7
32.5°	1347.1	1346.3	1344.2	1329.5	1287.5	1211.4	1081.2	853.1	582.6	342.8	15.5
35°	1341.7	1337.5	1329.9	1302.6	1244.2	1148.9	964.4	681.3	420.5	229.8	10.1
37.5°	1323.2	1313.5	1298.8	1249.7	1172.0	1041.7	782.1	501.5	286.1	148.7	5.9
40°	1255.1	1242.1	1219.0	1158.9	1056.9	858.6	578.4	339.0	187.8	85.7	1.7
42.5°	1079.1	1062.3	1045.5	978.3	861.5	640.2	380.6	209.6	107.1	47.0	0.4
45°	739.7	718.7	695.6	646.9	553.2	387.7	226.4	118.0	55.4	26.5	0.4
47.5°	513.7	504.1	463.7	401.6	307.9	205.4	117.2	58.0	29.4	12.2	0.4
50°	349.1	338.1	291.1	231.0	163.8	98.3	53.8	29.0	13.0	2.9	0.4
52.5°	183.1	169.7	139.9	106.7	66.4	41.2	23.5	12.6	3.8	0.4	0.4
55°	26.9	24.8	20.2	16.4	14.7	11.3	6.7	2.9	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.3	1.3	0.8	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.3
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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: P1345900

CATALOG NUMBER: P3A13R409024DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	58.8	58.8	58.8	58.8	58.8
2.5°	58.0	42.8	33.2	28.6	28.1
5°	52.5	30.7	20.2	15.5	14.7
7.5°	44.5	21.4	11.8	8.4	8.0
10°	36.5	14.7	7.1	5.9	5.5
12.5°	29.0	9.7	5.0	4.6	4.2
15°	22.3	6.3	3.8	3.4	3.4
17.5°	16.8	4.2	2.9	2.9	2.9
20°	12.6	2.9	2.1	2.5	2.5
22.5°	8.8	2.1	1.7	2.1	2.1
25°	6.3	1.7	1.7	2.1	2.1
27.5°	4.2	1.3	1.3	1.7	2.1
30°	2.5	0.8	1.3	1.7	2.1
32.5°	1.3	0.8	1.3	2.1	2.1
35°	0.8	1.3	1.7	2.1	2.5
37.5°	0.4	1.3	1.7	2.5	2.5
40°	0.4	1.3	1.7	2.5	2.9
42.5°	0.8	1.7	2.1	2.9	3.4
45°	0.8	1.7	2.5	3.4	3.8
47.5°	0.8	1.7	2.9	3.8	3.8
50°	1.3	2.1	2.9	3.8	4.2
52.5°	1.3	2.1	2.9	4.2	4.6
55°	1.3	2.1	3.4	4.2	4.6
57.5°	1.3	2.5	3.4	4.2	4.6
60°	1.3	2.1	3.4	4.2	4.6
62.5°	1.7	2.1	2.9	4.2	4.2
65°	1.7	2.1	2.9	4.2	4.2
67.5°	1.7	2.1	2.9	3.8	3.8
70°	1.7	2.1	2.5	3.4	3.4
72.5°	1.7	2.1	2.5	2.9	3.4
75°	1.3	1.7	2.1	2.5	2.9
77.5°	1.3	1.7	1.7	2.5	2.5
80°	1.3	1.3	1.3	1.7	1.7
82.5°	1.3	1.3	0.8	1.3	1.3
85°	1.3	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)