

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: P1345388

Luminaire Tested: P3A13R359024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

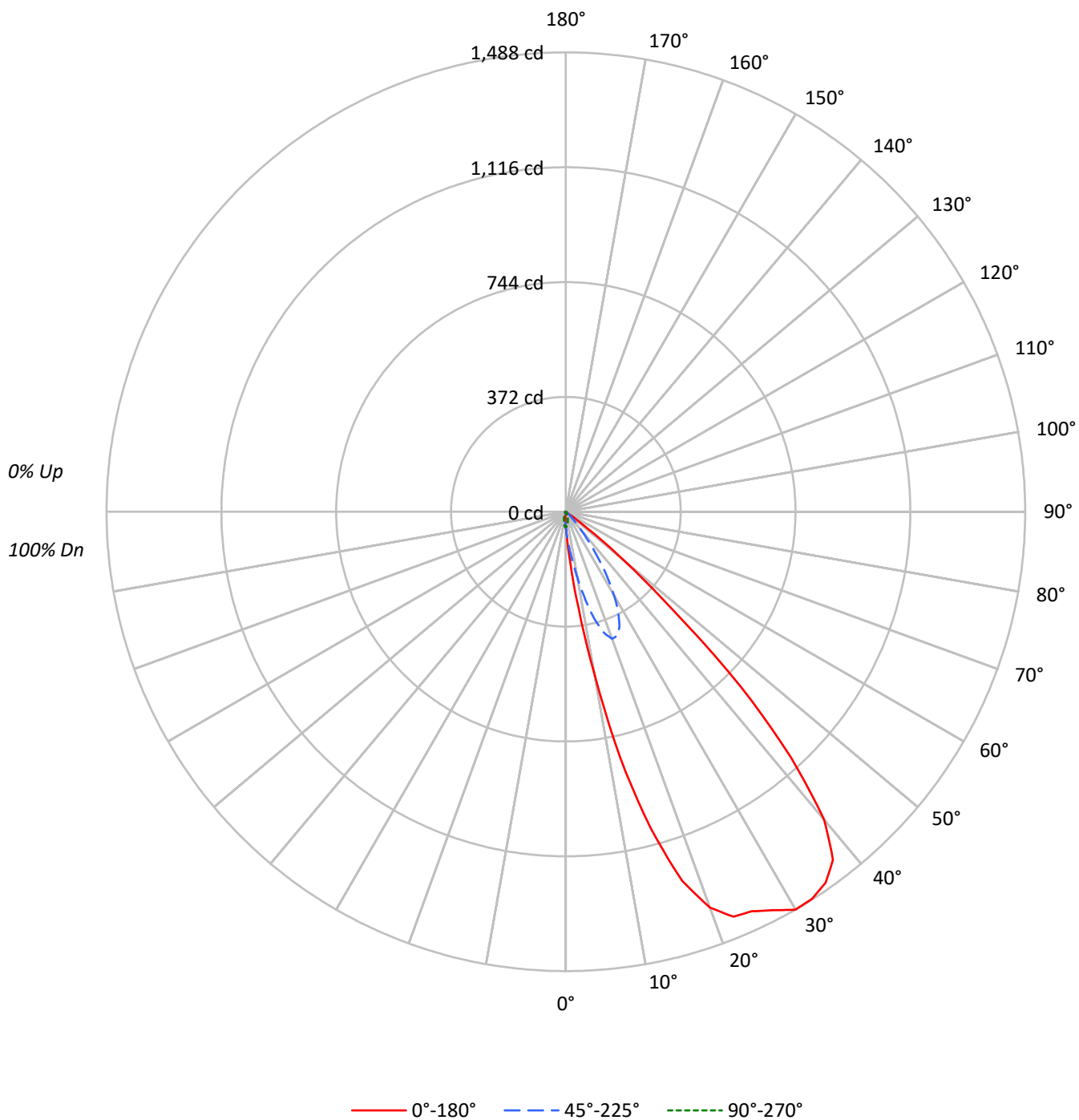
Lumens per Lamp: N/A
Luminaire Lumens: 468.0 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99		99	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	85	81	97	90	84	80	87	83	79		85	81	77		82	79	76	74
4	92	83	77	72	91	82	76	71	80	75	71		78	73	70		76	72	69	67
5	86	76	69	64	85	75	69	64	74	68	63		72	67	63		70	66	62	61
6	81	70	63	58	79	69	62	58	68	62	57		66	61	57		65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10789	10789	10789	10789	10789
5°	36716	23861	10081	4248	3148
10°	118145	48362	7949	1581	1024
15°	240705	82021	5630	568	386
20°	318318	102162	3617	187	187
25°	345383	99296	2032	97	194
30°	376767	79151	861	101	203
35°	392597	49255	214	107	214
40°	372555	21526	115	229	372
45°	248708	8590	124	403	651
50°	83409	1433	273	580	853
55°	4664	153	306	803	1109
60°	351	175	570	921	1272
65°	415	208	675	1090	1505
70°	256	256	833	1346	1603
75°	339	339	1101	1440	1779
80°	0	505	1642	1642	1642
85°	0	1006	3271	1006	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 248708 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	1.8
10°-20°	67.2	14.4
20°-30°	141.9	30.3
30°-40°	161.0	34.4
40°-50°	79.2	16.9
50°-60°	6.9	1.5
60°-70°	1.4	0.3
70°-80°	1.3	0.3
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°	217.6	46.5
0°-40°	378.6	80.9
0°-60°	464.6	99.3
0°-90°	468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	468.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	167	108	46	19	14	27
15°	1060	361	25	2	2	301
25°	1428	410	8	0	1	664
35°	1467	184	1	0	1	904
45°	802	28	0	1	2	593
55°	12	0	1	2	3	48
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	0	1	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°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
2.5°	85.3	87.4	86.5	86.1	85.7	84.0	80.2	79.8	76.0	73.5	60.9
5°	166.8	163.4	164.3	159.6	153.8	145.4	139.9	128.1	118.5	108.4	71.0
7.5°	314.2	309.6	300.8	287.4	273.5	255.4	228.1	206.3	181.1	157.1	79.0
10°	530.6	528.1	516.7	482.3	452.0	403.7	358.4	310.5	263.4	217.2	84.4
12.5°	819.6	802.4	781.8	736.0	676.4	615.9	526.4	443.6	368.4	291.1	84.9
15°	1060.3	1049.4	1020.4	960.8	888.9	801.6	695.3	583.9	470.5	361.3	80.7
17.5°	1254.0	1237.2	1199.8	1141.4	1058.7	945.2	820.9	685.2	547.0	411.3	73.5
20°	1364.1	1355.3	1326.7	1268.3	1178.0	1054.0	912.5	754.5	594.9	437.8	64.3
22.5°	1419.5	1413.2	1392.2	1345.6	1261.2	1136.4	974.2	790.6	608.7	434.8	54.6
25°	1427.5	1425.8	1407.8	1372.5	1301.9	1178.4	1001.1	797.4	597.4	410.4	45.4
27.5°	1455.2	1449.4	1427.9	1392.7	1321.7	1185.5	991.9	774.3	560.8	367.6	37.8
30°	1488.0	1483.8	1462.4	1425.8	1341.8	1178.8	959.1	723.0	502.4	312.6	28.1
32.5°	1485.5	1483.8	1465.8	1427.1	1327.5	1139.3	900.7	646.1	423.0	246.6	17.6
35°	1466.6	1460.7	1438.0	1378.4	1246.0	1037.7	789.8	541.9	334.8	184.0	11.3
37.5°	1421.2	1408.6	1370.4	1269.1	1100.3	881.0	643.2	418.4	236.9	123.1	7.1
40°	1301.5	1285.5	1208.6	1086.4	909.5	694.0	478.5	287.8	156.3	75.2	2.9
42.5°	1079.7	1047.3	970.4	844.8	678.9	490.7	314.2	186.5	92.0	45.4	0.8
45°	802.0	777.2	696.5	582.7	444.9	314.7	190.3	100.8	50.8	27.7	0.4
47.5°	467.2	452.0	410.4	335.7	245.8	165.1	97.5	54.2	29.8	13.4	0.4
50°	244.5	225.6	194.1	147.0	108.4	76.0	47.5	29.0	14.7	4.2	0.4
52.5°	85.7	84.4	76.9	58.0	47.1	34.0	23.1	12.6	4.2	0.8	0.4
55°	12.2	12.2	11.3	12.6	13.4	12.2	8.0	3.4	0.8	0.4	0.4
57.5°	0.8	0.8	0.8	1.3	1.7	1.7	1.3	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
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	0.4	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°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
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



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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	49.2	49.2	49.2	49.2	49.2
2.5°	48.7	39.1	31.1	27.3	26.0
5°	45.8	29.4	19.3	15.1	14.3
7.5°	40.8	21.0	11.8	8.4	8.0
10°	35.7	15.1	7.1	5.0	4.6
12.5°	29.8	10.5	4.6	2.9	2.5
15°	24.8	7.1	2.5	2.1	1.7
17.5°	19.7	4.6	1.7	1.3	1.7
20°	15.5	2.9	0.8	0.8	0.8
22.5°	11.8	1.7	0.8	0.8	0.8
25°	8.4	0.8	0.4	0.4	0.8
27.5°	5.9	0.4	0.4	0.4	0.8
30°	3.4	0.4	0.4	0.4	0.8
32.5°	1.7	0.4	0.4	0.8	0.8
35°	0.8	0.4	0.4	0.8	0.8
37.5°	0.4	0.4	0.4	0.8	1.3
40°	0.4	0.4	0.8	1.3	1.3
42.5°	0.4	0.4	0.8	1.3	1.7
45°	0.4	0.8	1.3	1.7	2.1
47.5°	0.8	0.8	1.7	2.1	2.5
50°	0.8	1.3	1.7	2.5	2.5
52.5°	0.8	1.3	2.1	2.5	2.9
55°	0.8	1.7	2.1	2.9	2.9
57.5°	1.3	1.7	2.1	2.9	2.9
60°	1.3	1.7	2.1	2.9	2.9
62.5°	1.3	1.7	2.1	2.9	2.9
65°	1.3	1.7	2.1	2.9	2.9
67.5°	1.3	1.7	2.1	2.5	2.9
70°	1.3	1.7	2.1	2.5	2.5
72.5°	1.7	1.7	2.1	2.5	2.5
75°	1.3	1.7	1.7	2.1	2.1
77.5°	1.3	1.3	1.3	1.7	1.7
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	0.8	0.8	1.3	1.3
85°	1.3	0.8	0.4	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)