

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: P1336468

Luminaire Tested: P3A05R159830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R159830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

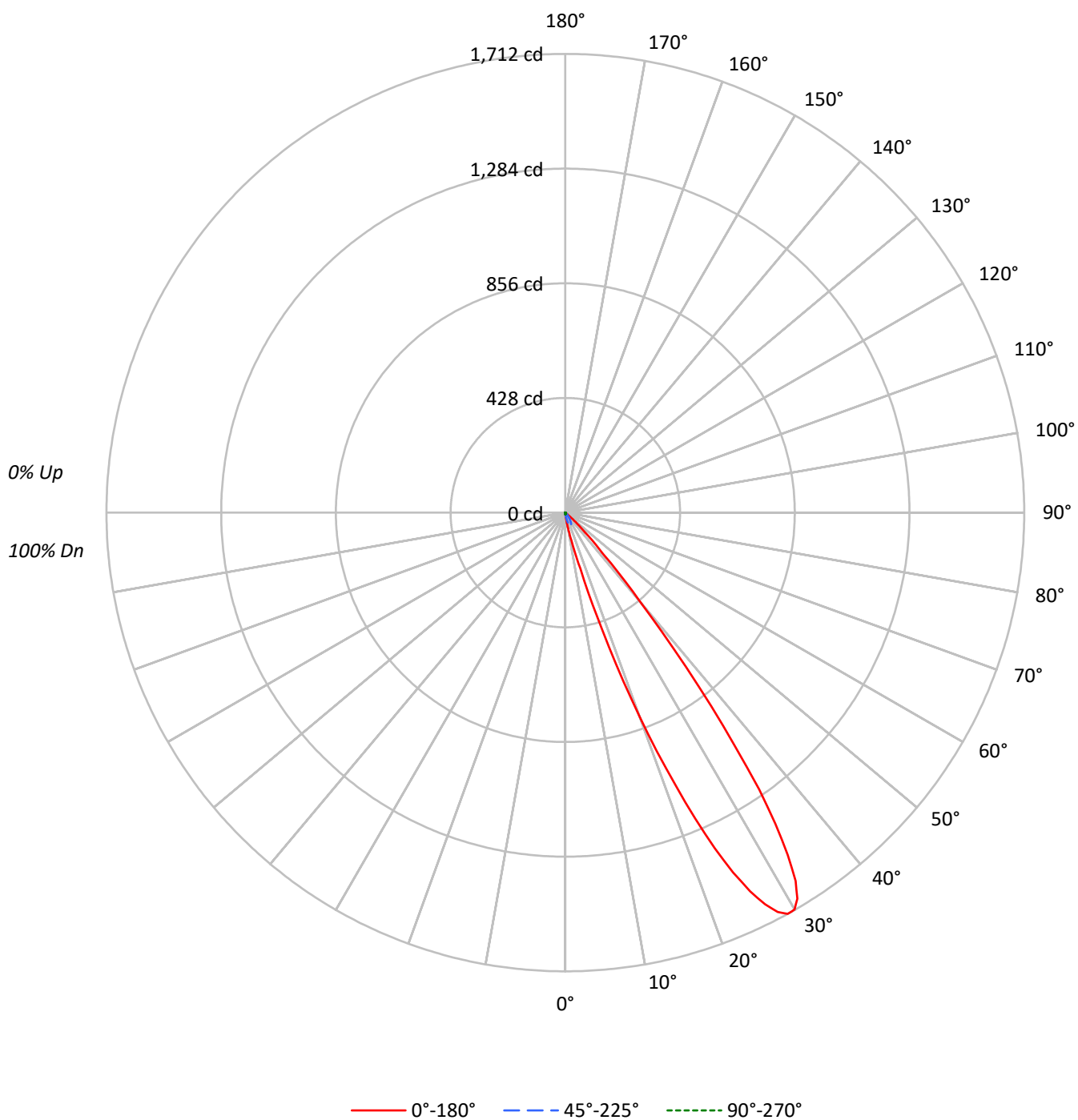
Lumens per Lamp: N/A
Luminaire Lumens: 187.0 lumens
Efficiency: N/A
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50
8	71	60	53	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1360	1360	1360	1360	1360
5°	2928	2157	1277	682	550
10°	12959	4097	1002	289	200
15°	49013	9467	704	114	91
20°	188503	13324	420	47	47
25°	358472	12509	218	0	0
30°	433054	10077	101	0	0
35°	337747	6853	54	0	0
40°	123260	3378	57	0	57
45°	31631	1023	62	0	124
50°	5322	136	68	68	171
55°	688	0	153	191	344
60°	88	88	219	307	482
65°	104	104	363	467	571
70°	128	128	449	449	577
75°	169	169	593	424	593
80°	0	253	631	505	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	14.3	7.7
20°-30°	79.5	42.5
30°-40°	76.8	41.1
40°-50°	13.4	7.1
50°-60°	1.0	0.5
60°-70°	0.6	0.3
70°-80°	0.5	0.2
80°-90°	0.2	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°	94.7	50.6
0°-40°	171.4	91.7
0°-60°	185.8	99.3
0°-90°	187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	187.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	13	10	6	3	2	3
15°	216	42	3	0	0	96
25°	1482	52	1	0	0	662
35°	1262	26	0	0	0	726
45°	102	3	0	0	0	110
55°	2	0	0	0	1	4
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
2.5°	9.1	8.7	8.9	8.9	8.9	8.9	8.9	8.5	8.5	8.7	7.8
5°	13.3	13.3	13.1	13.3	13.3	13.1	12.7	12.6	12.6	12.2	9.8
7.5°	26.6	26.2	26.2	25.8	24.0	23.5	23.1	22.2	20.6	20.2	12.7
10°	58.2	58.4	57.1	55.5	55.3	52.6	51.7	50.0	46.9	43.8	18.4
12.5°	105.7	103.3	100.2	100.4	95.1	93.3	89.1	84.6	79.9	74.9	30.2
15°	215.9	209.2	213.2	203.4	192.3	179.7	167.0	151.0	137.3	122.8	41.7
17.5°	454.8	461.3	450.2	408.2	382.4	352.0	309.2	267.9	232.7	204.3	50.9
20°	807.8	817.5	779.8	743.3	680.5	612.1	540.8	460.0	382.7	315.8	57.1
21°	955.4	949.5	934.1	875.5	803.1	723.8	636.5	547.3	453.7	366.7	57.7
22°	1098.0	1100.7	1064.7	1003.4	928.1	840.2	733.6	623.6	522.6	408.2	56.8
23°	1240.0	1248.8	1201.1	1143.6	1048.9	949.7	826.4	707.6	582.8	455.7	54.9
24°	1371.6	1365.6	1333.4	1261.0	1159.6	1043.6	915.5	771.5	632.3	496.2	53.5
25°	1481.6	1480.9	1430.3	1359.9	1244.0	1115.4	974.3	823.7	674.7	523.7	51.7
26°	1571.7	1556.9	1517.1	1431.2	1316.8	1181.1	1022.5	861.7	698.5	537.5	49.8
27°	1641.1	1630.6	1577.1	1487.8	1368.3	1218.2	1053.4	880.6	709.4	542.1	47.5
28°	1687.9	1676.4	1619.5	1527.4	1396.7	1241.5	1069.8	888.6	709.4	537.7	45.3
29°	1712.1	1696.4	1639.7	1541.1	1403.2	1244.2	1065.8	880.8	698.3	524.2	42.7
30°	1710.3	1690.8	1631.3	1528.7	1383.7	1221.8	1043.4	852.6	673.2	504.2	39.8
31°	1680.8	1659.0	1592.6	1486.9	1343.5	1179.6	1001.2	814.7	638.8	478.2	36.9
32°	1620.9	1593.3	1528.5	1423.2	1281.7	1116.5	939.9	756.4	587.4	440.2	33.8
33°	1523.4	1495.6	1426.1	1327.4	1198.0	1036.5	858.6	693.6	528.8	394.9	31.3
34°	1401.4	1375.9	1316.1	1216.6	1092.5	935.2	765.1	606.8	468.0	350.0	28.6
35°	1261.7	1221.1	1166.9	1088.1	967.2	808.9	664.1	526.1	405.5	302.9	25.6
36°	1072.7	1080.0	1022.5	926.1	825.8	701.8	562.8	438.6	339.1	258.1	23.1
37°	905.2	893.7	857.1	782.6	695.2	572.1	471.7	371.8	285.2	218.3	20.4
38°	730.2	732.7	696.9	639.6	553.0	470.4	379.6	305.4	238.7	185.7	17.8
39°	571.5	569.5	559.9	506.8	428.4	374.2	307.6	253.2	198.8	156.6	15.1
40°	430.6	433.8	411.3	379.3	333.6	289.0	245.0	201.9	164.4	132.1	11.8
42.5°	209.4	214.5	199.5	191.4	171.2	153.7	129.7	105.9	90.0	77.9	5.3
45°	102.0	99.1	97.9	93.9	89.1	79.7	70.6	60.6	52.9	45.7	3.3
47.5°	52.2	50.8	50.8	49.1	47.5	44.4	39.8	36.6	32.9	28.4	1.3
50°	15.6	15.5	15.3	15.5	14.9	15.5	15.8	16.0	14.6	14.4	0.4
52.5°	6.2	6.4	6.2	6.7	6.7	6.5	6.7	6.5	6.4	5.6	0.0
55°	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.2	2.0	2.2	0.0
57.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.2	6.2	6.2	6.2	6.2	6.2
2.5°	7.3	6.4	5.3	4.4	4.0	3.8
5°	7.8	5.8	4.0	3.1	2.7	2.5
7.5°	8.4	5.3	3.1	2.2	1.6	1.5
10°	8.7	4.5	2.4	1.3	0.9	0.9
12.5°	8.7	3.6	1.6	0.7	0.5	0.5
15°	8.5	3.1	1.1	0.5	0.4	0.4
17.5°	8.4	2.4	0.7	0.4	0.2	0.4
20°	7.8	1.8	0.4	0.2	0.2	0.2
21°	7.6	1.6	0.4	0.2	0.2	0.2
22°	7.3	1.5	0.2	0.0	0.2	0.2
23°	6.9	1.1	0.2	0.0	0.0	0.0
24°	6.4	0.9	0.2	0.0	0.0	0.0
25°	6.0	0.9	0.2	0.0	0.0	0.0
26°	5.6	0.5	0.0	0.0	0.0	0.0
27°	5.1	0.4	0.0	0.0	0.0	0.0
28°	4.7	0.4	0.0	0.0	0.0	0.0
29°	4.2	0.4	0.0	0.0	0.0	0.0
30°	3.6	0.4	0.0	0.0	0.0	0.0
31°	2.9	0.2	0.0	0.0	0.0	0.0
32°	2.4	0.2	0.0	0.0	0.0	0.0
33°	1.6	0.2	0.0	0.0	0.0	0.0
34°	1.1	0.2	0.0	0.0	0.0	0.0
35°	0.9	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.2	0.0	0.0	0.0	0.2
37°	0.5	0.2	0.0	0.0	0.0	0.2
38°	0.4	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.4
45°	0.0	0.2	0.0	0.0	0.2	0.4
47.5°	0.0	0.2	0.0	0.0	0.4	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.5
52.5°	0.0	0.4	0.2	0.4	0.5	0.7
55°	0.2	0.4	0.4	0.5	0.7	0.9
57.5°	0.2	0.5	0.5	0.7	0.9	0.9
60°	0.4	0.5	0.7	0.7	1.1	1.1
62.5°	0.4	0.7	0.7	0.7	1.1	1.1
65°	0.4	0.7	0.7	0.9	1.1	1.1
67.5°	0.4	0.7	0.7	0.7	0.9	1.1
70°	0.4	0.7	0.5	0.7	0.9	0.9
72.5°	0.4	0.7	0.5	0.5	0.7	0.9
75°	0.4	0.7	0.5	0.5	0.7	0.7
77.5°	0.4	0.5	0.5	0.4	0.5	0.5
80°	0.4	0.5	0.4	0.4	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.5	0.4	0.2	0.4	0.4
85°	0.4	0.5	0.4	0.2	0.2	0.2
87.5°	0.4	0.5	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)