

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: P1336904

Luminaire Tested: P3A05R209730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R209730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

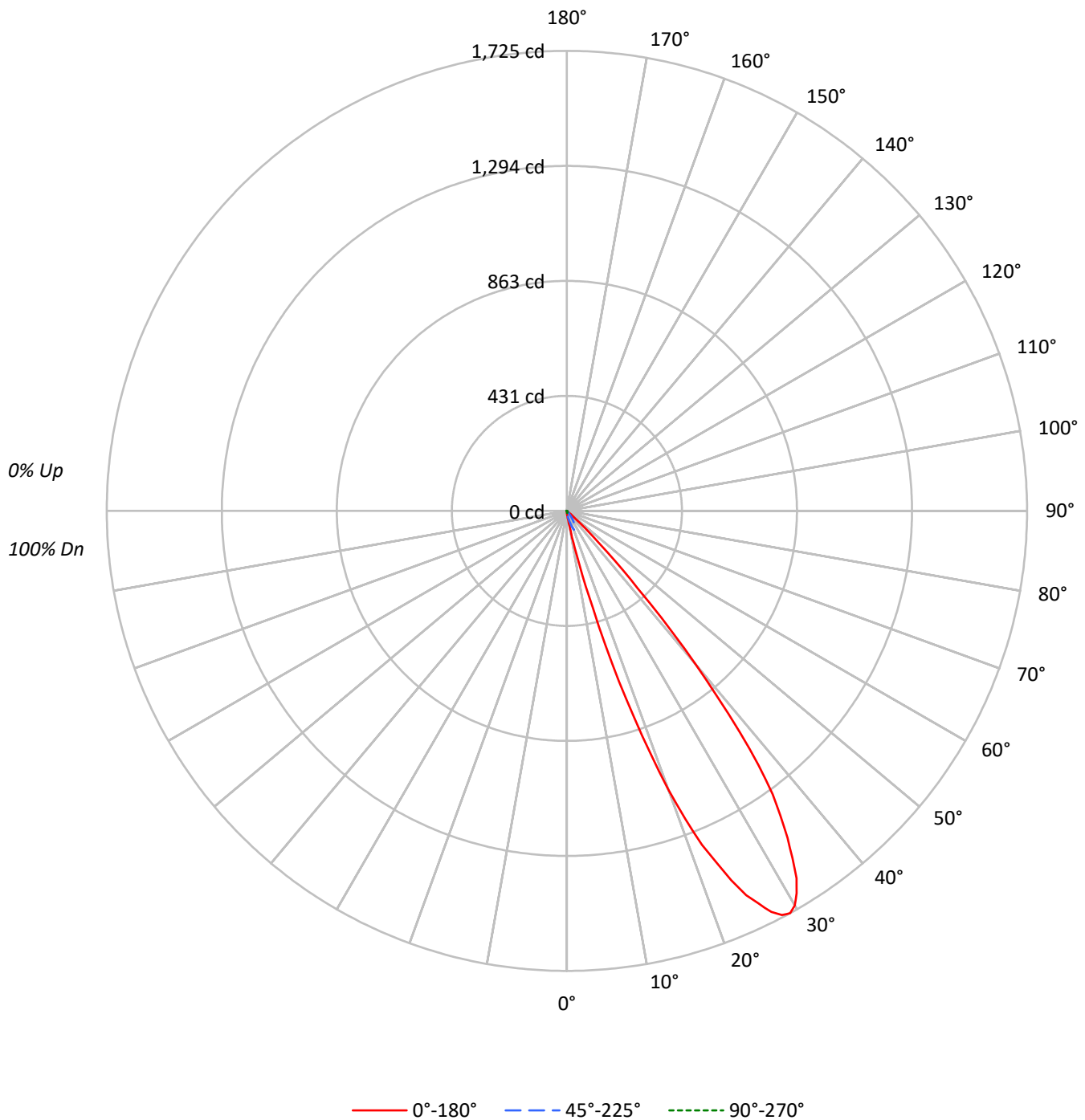
Lumens per Lamp: N/A
Luminaire Lumens: 242.0 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1820	1820	1820	1820	1820
5°	4204	3148	1739	1057	924
10°	13248	5478	1425	579	445
15°	85835	10125	1044	204	45
20°	259046	17315	723	0	0
25°	384700	17469	436	0	0
30°	432598	13293	177	0	0
35°	373270	7924	107	0	0
40°	214946	2691	0	0	0
45°	52440	1085	62	0	62
50°	6277	307	68	68	239
55°	841	0	153	153	344
60°	88	0	307	307	482
65°	104	104	467	467	675
70°	128	128	577	577	705
75°	0	169	763	593	763
80°	0	253	884	505	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 52781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	22.4	9.3
20°-30°	97.8	40.4
30°-40°	98.4	40.7
40°-50°	19.7	8.2
50°-60°	1.0	0.4
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	121.3	50.1
0°-40°	219.7	90.8
0°-60°	240.5	99.4
0°-90°	242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	242.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	19	14	8	5	4	3
15°	378	45	5	1	0	148
25°	1590	72	2	0	0	717
35°	1394	30	0	0	0	830
45°	169	4	0	0	0	184
55°	2	0	0	0	1	4
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	12.5	12.5	12.3	12.3	12.1	12.3	11.9	12.1	12.1	11.9	10.8
5°	19.1	19.5	19.3	19.3	19.1	19.3	18.9	18.4	18.0	18.0	14.3
7.5°	31.4	31.2	30.7	31.0	30.3	29.9	29.4	29.2	27.9	27.2	18.7
10°	59.5	60.8	59.7	59.5	55.5	55.3	52.7	49.0	45.7	43.9	24.6
12.5°	163.8	170.8	159.8	154.6	151.5	139.6	134.6	121.6	109.1	99.7	31.2
15°	378.1	395.4	373.2	374.8	356.3	322.5	292.9	267.4	237.3	207.0	44.6
17.5°	740.8	726.7	714.6	694.2	656.7	607.1	543.2	478.4	422.4	363.8	62.1
20°	1110.1	1097.5	1070.1	1025.5	977.7	904.1	828.1	730.9	636.7	548.4	74.2
21°	1237.2	1233.0	1188.0	1160.5	1086.8	1016.5	928.9	824.9	718.8	614.3	76.2
22°	1350.7	1325.7	1301.5	1260.9	1187.6	1111.1	1013.7	904.1	789.1	672.9	76.4
23°	1429.3	1417.9	1395.0	1349.1	1276.3	1186.5	1083.7	969.1	847.9	714.4	75.7
24°	1516.2	1501.7	1468.4	1414.8	1341.2	1252.5	1135.3	1021.6	889.8	749.3	74.0
25°	1590.0	1567.4	1527.9	1470.1	1389.8	1298.2	1180.3	1055.4	919.0	772.8	72.2
26°	1637.9	1625.6	1574.8	1512.1	1426.0	1331.6	1211.3	1081.3	937.9	783.6	69.4
27°	1687.7	1665.1	1615.2	1543.0	1449.7	1353.3	1228.8	1093.8	944.5	784.0	65.9
28°	1716.2	1691.6	1635.2	1559.3	1465.1	1365.4	1238.9	1097.8	943.2	777.2	61.7
29°	1725.2	1694.3	1639.2	1561.9	1468.8	1366.3	1237.4	1092.0	931.6	760.5	56.9
30°	1708.5	1676.9	1624.7	1549.4	1456.9	1355.3	1223.1	1073.2	910.9	736.6	52.5
31°	1672.1	1645.3	1594.8	1519.3	1430.6	1329.6	1190.8	1042.2	875.8	704.5	47.4
32°	1624.0	1597.7	1548.1	1479.8	1389.5	1287.7	1146.7	993.9	834.5	656.7	42.4
33°	1551.8	1536.6	1492.1	1426.9	1336.6	1227.7	1087.4	936.2	775.7	603.5	38.0
34°	1478.7	1459.6	1428.4	1357.0	1260.0	1151.3	1010.2	856.5	703.9	544.0	33.8
35°	1394.4	1383.0	1334.0	1276.9	1179.4	1068.3	928.0	779.0	620.2	477.7	29.6
36°	1312.7	1295.1	1239.4	1179.0	1084.4	964.3	825.7	685.7	548.0	415.6	25.2
37°	1194.1	1167.4	1127.6	1063.9	953.3	851.0	724.5	594.5	459.1	348.4	20.4
38°	1054.7	1042.2	987.1	923.0	831.4	734.4	609.3	499.0	378.7	290.9	15.6
39°	890.3	890.1	837.4	791.0	701.5	614.1	501.2	405.1	312.6	234.3	12.1
40°	750.9	725.0	692.5	634.3	565.6	491.4	392.6	317.0	242.6	188.8	9.4
42.5°	393.7	391.5	372.4	328.7	290.2	246.6	196.1	163.3	127.8	104.1	5.9
45°	169.1	170.2	157.0	150.4	135.5	117.2	99.0	82.6	70.7	57.3	3.5
47.5°	42.8	41.1	40.6	42.2	42.2	40.8	36.7	34.5	31.8	29.2	2.0
50°	18.4	18.0	17.6	17.6	16.5	15.8	14.7	13.4	12.3	11.0	0.9
52.5°	6.8	7.0	7.2	7.0	7.0	6.8	6.8	6.6	5.9	5.3	0.4
55°	2.2	2.2	2.2	2.4	2.4	2.6	2.6	2.6	2.6	2.4	0.0
57.5°	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
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	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	9.7	8.6	7.2	6.1	5.9	5.7
5°	10.8	7.9	5.9	4.8	4.4	4.2
7.5°	11.6	7.2	4.8	3.5	3.1	2.9
10°	12.1	6.4	4.0	2.6	2.0	2.0
12.5°	12.3	5.5	2.9	1.8	1.1	1.1
15°	12.1	4.6	2.2	0.9	0.2	0.2
17.5°	11.0	3.7	1.3	0.2	0.0	0.0
20°	9.4	3.1	0.9	0.0	0.0	0.0
21°	9.0	2.6	0.7	0.0	0.0	0.0
22°	8.3	2.4	0.4	0.0	0.0	0.0
23°	7.7	2.2	0.4	0.0	0.0	0.0
24°	7.0	2.0	0.2	0.0	0.0	0.0
25°	6.6	1.8	0.2	0.0	0.0	0.0
26°	6.1	1.5	0.2	0.0	0.0	0.0
27°	5.5	1.3	0.0	0.0	0.0	0.0
28°	5.0	1.1	0.0	0.0	0.0	0.0
29°	4.4	0.9	0.0	0.0	0.0	0.0
30°	3.7	0.7	0.0	0.0	0.0	0.0
31°	3.1	0.7	0.0	0.0	0.0	0.0
32°	2.6	0.4	0.0	0.0	0.0	0.0
33°	2.2	0.4	0.0	0.0	0.0	0.0
34°	2.0	0.4	0.0	0.0	0.0	0.0
35°	1.8	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.2	0.0	0.0	0.0	0.0
37°	1.1	0.2	0.0	0.0	0.0	0.0
38°	0.9	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.7
52.5°	0.0	0.4	0.2	0.2	0.7	0.7
55°	0.2	0.4	0.2	0.4	0.9	0.9
57.5°	0.2	0.4	0.4	0.7	0.9	1.1
60°	0.4	0.7	0.7	0.7	1.1	1.1
62.5°	0.4	0.7	0.9	0.9	1.1	1.3
65°	0.4	0.9	0.9	0.9	1.1	1.3
67.5°	0.7	0.9	0.9	0.9	1.1	1.3
70°	0.7	0.9	0.9	0.9	1.1	1.1
72.5°	0.7	0.9	0.7	0.9	0.9	1.1
75°	0.7	0.9	0.7	0.7	0.9	0.9
77.5°	0.4	0.7	0.7	0.4	0.7	0.7
80°	0.4	0.7	0.4	0.4	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.7	0.4	0.2	0.4	0.4
85°	0.4	0.7	0.4	0.2	0.2	0.2
87.5°	0.4	0.7	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)