

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: P1337000

Luminaire Tested: P3A05R209840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337000
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: P3A05R209840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

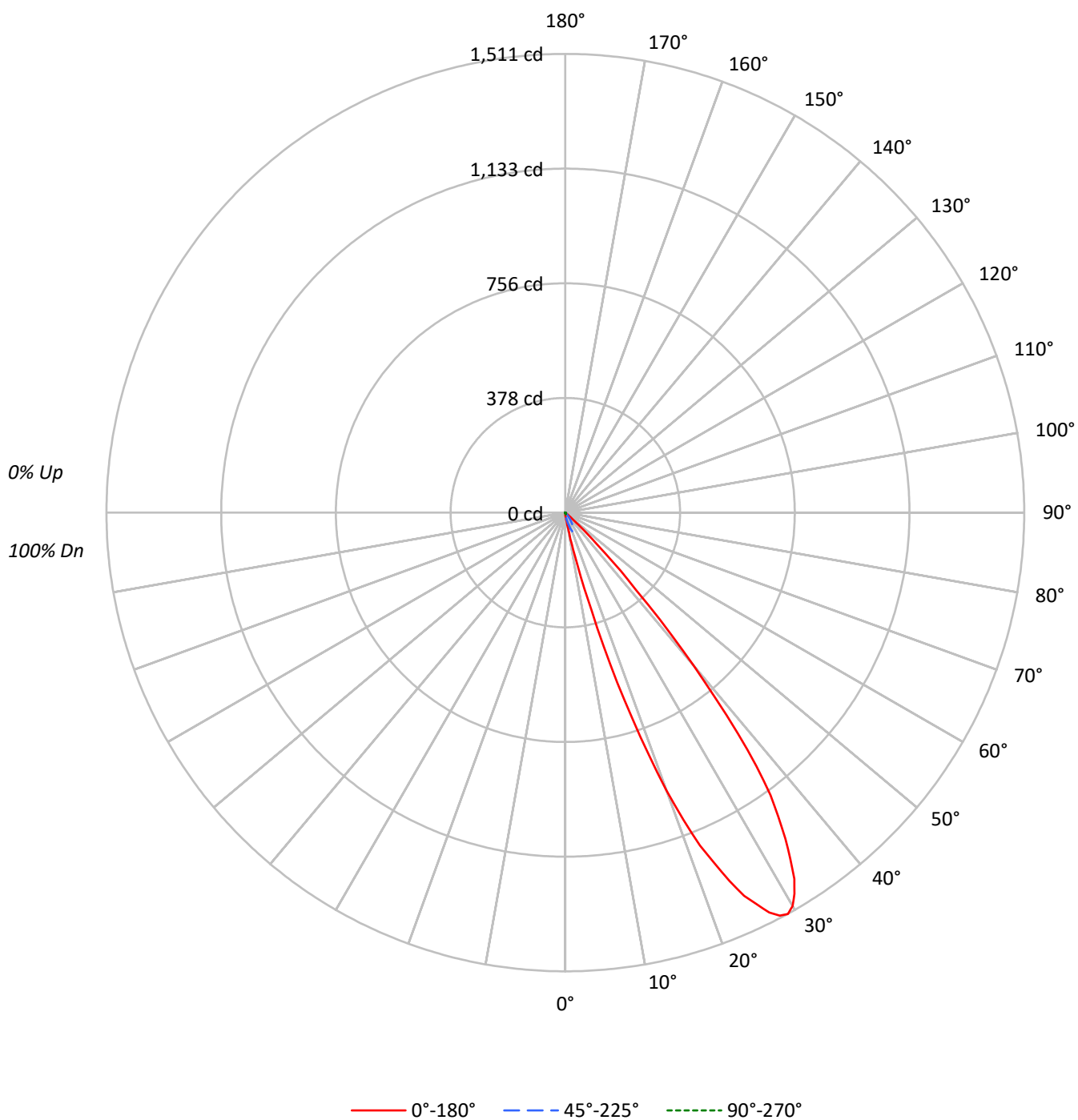
Lumens per Lamp: N/A
Luminaire Lumens: 212.1 lumens
Efficiency: N/A
Efficacy: 29.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	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°	1601	1601	1601	1601	1601
5°	3676	2751	1519	924	814
10°	11601	4787	1247	512	379
15°	75188	8854	908	182	45
20°	226913	15168	630	0	0
25°	337011	15315	363	0	0
30°	378970	11647	152	0	0
35°	326986	6960	107	0	0
40°	188296	2376	0	0	0
45°	45927	961	62	0	62
50°	5526	273	68	68	205
55°	726	0	153	153	306
60°	88	0	263	263	439
65°	104	104	415	415	623
70°	128	128	513	513	641
75°	0	169	678	508	678
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 46237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	19.6	9.3
20°-30°	85.6	40.4
30°-40°	86.2	40.7
40°-50°	17.3	8.2
50°-60°	0.9	0.4
60°-70°	0.6	0.3
70°-80°	0.5	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°	106.3	50.1
0°-40°	192.5	90.8
0°-60°	210.7	99.3
0°-90°	212.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	212.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	17	12	7	4	4	3
15°	331	39	4	1	0	130
25°	1393	63	2	0	0	628
35°	1222	26	0	0	0	727
45°	148	3	0	0	0	161
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°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	11.0	11.0	10.8	10.8	10.6	10.8	10.4	10.6	10.6	10.4	9.4
5°	16.7	17.1	16.9	16.9	16.7	16.9	16.5	16.2	15.8	15.8	12.5
7.5°	27.5	27.3	26.9	27.1	26.5	26.2	25.8	25.6	24.4	23.8	16.3
10°	52.1	53.3	52.3	52.1	48.7	48.5	46.2	42.9	40.0	38.5	21.5
12.5°	143.5	149.6	140.0	135.4	132.7	122.3	117.9	106.6	95.6	87.3	27.3
15°	331.2	346.4	327.0	328.3	312.2	282.5	256.6	234.3	207.9	181.4	39.0
17.5°	648.9	636.6	626.0	608.2	575.3	531.8	475.8	419.1	370.1	318.7	54.4
20°	972.4	961.5	937.4	898.4	856.5	792.0	725.5	640.3	557.8	480.5	65.0
21°	1083.8	1080.1	1040.7	1016.7	952.1	890.5	813.8	722.6	629.7	538.2	66.7
22°	1183.2	1161.3	1140.2	1104.6	1040.3	973.4	888.0	792.0	691.2	589.5	66.9
23°	1252.1	1242.1	1222.1	1181.9	1118.0	1039.4	949.4	849.0	742.8	625.9	66.4
24°	1328.3	1315.6	1286.3	1239.4	1175.0	1097.3	994.6	894.9	779.5	656.4	64.8
25°	1392.9	1373.1	1338.5	1287.9	1217.5	1137.3	1034.0	924.6	805.1	677.0	63.3
26°	1434.8	1424.0	1379.6	1324.6	1249.2	1166.5	1061.1	947.2	821.7	686.4	60.8
27°	1478.5	1458.7	1415.0	1351.7	1270.0	1185.5	1076.5	958.2	827.4	686.8	57.7
28°	1503.5	1481.9	1432.5	1366.0	1283.4	1196.1	1085.3	961.7	826.3	680.9	54.0
29°	1511.4	1484.2	1436.0	1368.3	1286.7	1196.9	1084.0	956.7	816.1	666.2	49.8
30°	1496.7	1469.0	1423.3	1357.3	1276.3	1187.3	1071.5	940.1	798.0	645.3	46.0
31°	1464.8	1441.4	1397.1	1331.0	1253.2	1164.8	1043.2	913.0	767.2	617.2	41.5
32°	1422.7	1399.6	1356.1	1296.3	1217.3	1128.0	1004.6	870.7	731.1	575.3	37.1
33°	1359.4	1346.1	1307.1	1250.0	1170.9	1075.5	952.6	820.1	679.5	528.7	33.3
34°	1295.4	1278.6	1251.3	1188.8	1103.8	1008.6	884.9	750.3	616.6	476.6	29.6
35°	1221.5	1211.5	1168.6	1118.6	1033.2	935.9	813.0	682.4	543.3	418.5	26.0
36°	1150.0	1134.6	1085.7	1032.8	949.9	844.7	723.4	600.7	480.1	364.1	22.1
37°	1046.1	1022.6	987.8	932.1	835.1	745.5	634.7	520.8	402.2	305.2	17.9
38°	924.0	913.0	864.7	808.6	728.4	643.4	533.7	437.2	331.8	254.8	13.7
39°	779.9	779.7	733.6	693.0	614.5	538.0	439.1	354.9	273.9	205.2	10.6
40°	657.8	635.1	606.6	555.7	495.5	430.4	343.9	277.7	212.5	165.4	8.3
42.5°	344.9	342.9	326.2	287.9	254.3	216.0	171.8	143.1	111.9	91.2	5.2
45°	148.1	149.1	137.5	131.7	118.7	102.7	86.7	72.3	61.9	50.2	3.1
47.5°	37.5	36.0	35.6	36.9	36.9	35.8	32.1	30.2	27.9	25.6	1.7
50°	16.2	15.8	15.4	15.4	14.4	13.8	12.9	11.7	10.8	9.6	0.8
52.5°	6.0	6.2	6.3	6.2	6.2	6.0	6.0	5.8	5.2	4.6	0.4
55°	1.9	1.9	1.9	2.1	2.1	2.3	2.3	2.3	2.3	2.1	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	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°	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	8.5	7.5	6.3	5.4	5.2	5.0
5°	9.4	6.9	5.2	4.2	3.8	3.7
7.5°	10.2	6.3	4.2	3.1	2.7	2.5
10°	10.6	5.6	3.5	2.3	1.7	1.7
12.5°	10.8	4.8	2.5	1.5	1.0	1.0
15°	10.6	4.0	1.9	0.8	0.2	0.2
17.5°	9.6	3.3	1.2	0.2	0.0	0.0
20°	8.3	2.7	0.8	0.0	0.0	0.0
21°	7.9	2.3	0.6	0.0	0.0	0.0
22°	7.3	2.1	0.4	0.0	0.0	0.0
23°	6.7	1.9	0.4	0.0	0.0	0.0
24°	6.2	1.7	0.2	0.0	0.0	0.0
25°	5.8	1.5	0.2	0.0	0.0	0.0
26°	5.4	1.3	0.2	0.0	0.0	0.0
27°	4.8	1.2	0.0	0.0	0.0	0.0
28°	4.4	1.0	0.0	0.0	0.0	0.0
29°	3.8	0.8	0.0	0.0	0.0	0.0
30°	3.3	0.6	0.0	0.0	0.0	0.0
31°	2.7	0.6	0.0	0.0	0.0	0.0
32°	2.3	0.4	0.0	0.0	0.0	0.0
33°	1.9	0.4	0.0	0.0	0.0	0.0
34°	1.7	0.4	0.0	0.0	0.0	0.0
35°	1.5	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.2	0.0	0.0	0.0	0.0
37°	1.0	0.2	0.0	0.0	0.0	0.0
38°	0.8	0.2	0.0	0.0	0.0	0.0
39°	0.6	0.0	0.0	0.0	0.0	0.0
40°	0.6	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	0.6
52.5°	0.0	0.4	0.2	0.2	0.6	0.6
55°	0.2	0.4	0.2	0.4	0.8	0.8
57.5°	0.2	0.4	0.4	0.6	0.8	1.0
60°	0.4	0.6	0.6	0.6	1.0	1.0
62.5°	0.4	0.6	0.8	0.8	1.0	1.2
65°	0.4	0.8	0.8	0.8	1.0	1.2
67.5°	0.6	0.8	0.8	0.8	1.0	1.2
70°	0.6	0.8	0.8	0.8	1.0	1.0
72.5°	0.6	0.8	0.6	0.8	0.8	1.0
75°	0.6	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)