

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: P1334322

Luminaire Tested: P3A02R209030D2WDE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334322
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: P3A02R209030D2WDE010 E3A301H
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

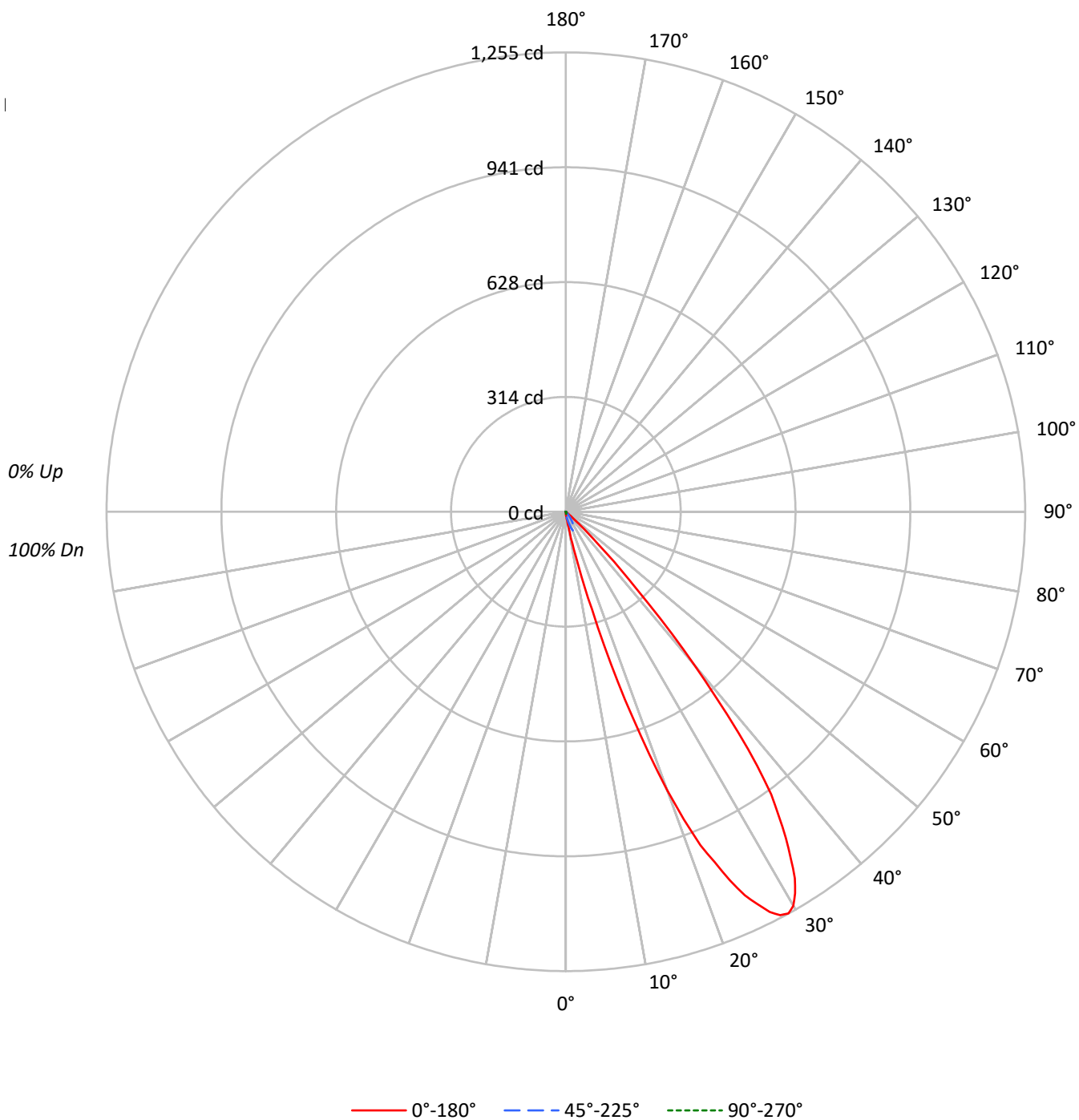
Lumens per Lamp: N/A
Luminaire Lumens: 176.0 lumens
Efficiency: N/A
Efficacy: 24.4 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1338	1338	1338	1338	1338
5°	3060	2289	1255	770	660
10°	9641	3986	1024	423	312
15°	62429	7355	772	136	45
20°	188386	12601	513	0	0
25°	279790	12702	315	0	0
30°	314631	9672	127	0	0
35°	271467	5782	80	0	0
40°	156321	1975	0	0	0
45°	38112	806	62	0	62
50°	4571	205	68	68	171
55°	612	0	115	115	229
60°	88	0	219	219	351
65°	104	104	311	311	519
70°	128	128	385	385	513
75°	0	169	508	424	508
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 38361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	16.3	9.3
20°-30°	71.1	40.4
30°-40°	71.6	40.7
40°-50°	14.4	8.2
50°-60°	0.7	0.4
60°-70°	0.5	0.3
70°-80°	0.4	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°	88.2	50.1
0°-40°	159.8	90.8
0°-60°	174.9	99.4
0°-90°	176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	176.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	14	10	6	4	3	2
15°	275	32	3	1	0	108
25°	1156	52	1	0	0	521
35°	1014	22	0	0	0	603
45°	123	3	0	0	0	134
55°	2	0	0	0	1	3
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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
2.5°	9.1	9.1	8.9	8.9	8.8	8.9	8.6	8.8	8.8	8.6	7.8
5°	13.9	14.2	14.1	14.1	13.9	14.1	13.7	13.4	13.1	13.1	10.4
7.5°	22.8	22.7	22.4	22.5	22.0	21.7	21.4	21.2	20.3	19.8	13.6
10°	43.3	44.2	43.4	43.3	40.4	40.2	38.3	35.6	33.2	31.9	17.9
12.5°	119.1	124.2	116.2	112.4	110.2	101.6	97.9	88.5	79.4	72.5	22.7
15°	275.0	287.6	271.4	272.6	259.2	234.6	213.0	194.5	172.6	150.6	32.4
17.5°	538.7	528.5	519.7	504.9	477.6	441.5	395.0	347.9	307.2	264.6	45.2
20°	807.3	798.2	778.2	745.8	711.0	657.5	602.3	531.6	463.1	398.9	54.0
21°	899.8	896.7	864.0	844.0	790.4	739.3	675.6	599.9	522.8	446.8	55.4
22°	982.3	964.1	946.5	917.0	863.7	808.1	737.2	657.5	573.9	489.4	55.6
23°	1039.5	1031.2	1014.6	981.2	928.2	862.9	788.1	704.8	616.7	519.6	55.1
24°	1102.7	1092.2	1067.9	1028.9	975.4	910.9	825.7	743.0	647.2	545.0	53.8
25°	1156.4	1139.9	1111.2	1069.2	1010.7	944.2	858.4	767.6	668.4	562.1	52.5
26°	1191.2	1182.2	1145.3	1099.7	1037.1	968.4	880.9	786.4	682.1	569.9	50.5
27°	1227.4	1211.0	1174.7	1122.2	1054.3	984.2	893.7	795.5	686.9	570.2	47.9
28°	1248.2	1230.3	1189.2	1134.0	1065.5	993.0	901.0	798.4	686.0	565.2	44.9
29°	1254.7	1232.2	1192.1	1135.9	1068.2	993.6	899.9	794.2	677.5	553.1	41.4
30°	1242.6	1219.6	1181.6	1126.8	1059.6	985.7	889.5	780.5	662.5	535.7	38.2
31°	1216.1	1196.6	1159.9	1104.9	1040.4	967.0	866.1	758.0	636.9	512.4	34.5
32°	1181.1	1161.9	1125.9	1076.2	1010.6	936.5	834.0	722.8	606.9	477.6	30.8
33°	1128.6	1117.6	1085.1	1037.7	972.1	892.9	790.9	680.8	564.1	438.9	27.6
34°	1075.4	1061.5	1038.8	986.9	916.4	837.3	734.7	622.9	511.9	395.7	24.6
35°	1014.1	1005.8	970.2	928.7	857.8	777.0	674.9	566.5	451.1	347.4	21.6
36°	954.7	941.9	901.4	857.4	788.6	701.3	600.5	498.7	398.5	302.3	18.4
37°	868.5	849.0	820.1	773.8	693.3	618.9	526.9	432.4	333.9	253.4	14.8
38°	767.1	758.0	717.9	671.3	604.7	534.1	443.1	362.9	275.4	211.6	11.3
39°	647.5	647.3	609.0	575.3	510.2	446.6	364.5	294.6	227.4	170.4	8.8
40°	546.1	527.2	503.6	461.3	411.3	357.3	285.5	230.6	176.4	137.3	6.9
42.5°	286.3	284.7	270.8	239.0	211.1	179.3	142.6	118.8	92.9	75.7	4.3
45°	122.9	123.7	114.2	109.4	98.5	85.3	72.0	60.0	51.4	41.7	2.6
47.5°	31.1	29.9	29.5	30.7	30.7	29.7	26.7	25.1	23.2	21.2	1.4
50°	13.4	13.1	12.8	12.8	12.0	11.5	10.7	9.7	8.9	8.0	0.6
52.5°	4.9	5.1	5.3	5.1	5.1	4.9	4.9	4.8	4.3	3.8	0.3
55°	1.6	1.6	1.6	1.8	1.8	1.9	1.9	1.9	1.9	1.8	0.0
57.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	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°	6.1	6.1	6.1	6.1	6.1	6.1
2.5°	7.0	6.2	5.3	4.5	4.3	4.2
5°	7.8	5.7	4.3	3.5	3.2	3.0
7.5°	8.5	5.3	3.5	2.6	2.2	2.1
10°	8.8	4.6	2.9	1.9	1.4	1.4
12.5°	8.9	4.0	2.1	1.3	0.8	0.8
15°	8.8	3.4	1.6	0.6	0.2	0.2
17.5°	8.0	2.7	1.0	0.2	0.0	0.0
20°	6.9	2.2	0.6	0.0	0.0	0.0
21°	6.5	1.9	0.5	0.0	0.0	0.0
22°	6.1	1.8	0.3	0.0	0.0	0.0
23°	5.6	1.6	0.3	0.0	0.0	0.0
24°	5.1	1.4	0.2	0.0	0.0	0.0
25°	4.8	1.3	0.2	0.0	0.0	0.0
26°	4.5	1.1	0.2	0.0	0.0	0.0
27°	4.0	1.0	0.0	0.0	0.0	0.0
28°	3.7	0.8	0.0	0.0	0.0	0.0
29°	3.2	0.6	0.0	0.0	0.0	0.0
30°	2.7	0.5	0.0	0.0	0.0	0.0
31°	2.2	0.5	0.0	0.0	0.0	0.0
32°	1.9	0.3	0.0	0.0	0.0	0.0
33°	1.6	0.3	0.0	0.0	0.0	0.0
34°	1.4	0.3	0.0	0.0	0.0	0.0
35°	1.3	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.2	0.0	0.0	0.0	0.0
37°	0.8	0.2	0.0	0.0	0.0	0.0
38°	0.6	0.2	0.0	0.0	0.0	0.0
39°	0.5	0.0	0.0	0.0	0.0	0.0
40°	0.5	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	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.2	0.5	0.5
55°	0.2	0.3	0.2	0.3	0.6	0.6
57.5°	0.2	0.3	0.3	0.5	0.6	0.8
60°	0.3	0.5	0.5	0.5	0.8	0.8
62.5°	0.3	0.5	0.6	0.6	0.8	1.0
65°	0.3	0.6	0.6	0.6	0.8	1.0
67.5°	0.5	0.6	0.6	0.6	0.8	1.0
70°	0.5	0.6	0.6	0.6	0.8	0.8
72.5°	0.5	0.6	0.5	0.6	0.6	0.8
75°	0.5	0.6	0.5	0.5	0.6	0.6
77.5°	0.3	0.5	0.5	0.3	0.5	0.5
80°	0.3	0.5	0.3	0.3	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.5	0.3	0.2	0.3	0.3
85°	0.3	0.5	0.3	0.2	0.2	0.2
87.5°	0.3	0.5	0.3	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)