

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: P1336950

Luminaire Tested: P3A05R209827DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336950
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: P3A05R209827DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

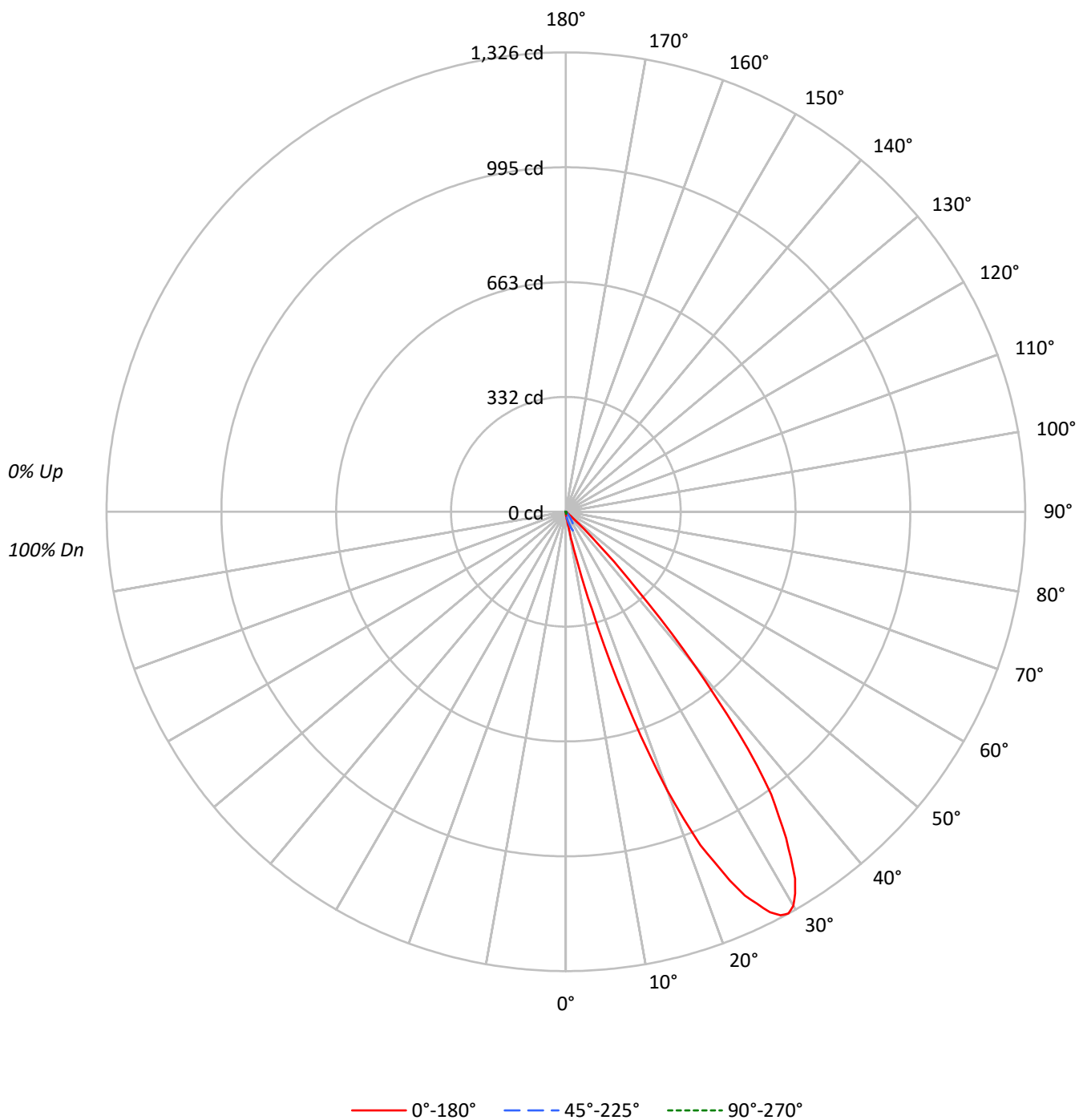
Lumens per Lamp: N/A
Luminaire Lumens: 186.0 lumens
Efficiency: N/A
Efficacy: 25.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336950

CATALOG NUMBER: P3A05R209827DE010 E3A301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1336950

CATALOG NUMBER: P3A05R209827DE010 E3A301MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1403	1403	1403	1403	1403
5°	3236	2421	1343	814	704
10°	10176	4208	1091	445	334
15°	65971	7787	795	159	45
20°	199097	13301	560	0	0
25°	295686	13428	315	0	0
30°	332507	10204	127	0	0
35°	286886	6103	80	0	0
40°	165195	2090	0	0	0
45°	40283	837	62	0	62
50°	4844	239	68	68	171
55°	650	0	115	115	268
60°	88	0	219	219	351
65°	104	104	363	363	519
70°	128	128	449	449	513
75°	0	169	593	424	593
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 40562 cd/sqm

TEST NUMBER: P1336950

CATALOG NUMBER: P3A05R209827DE010 E3A301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	17.2	9.3
20°-30°	75.1	40.4
30°-40°	75.7	40.7
40°-50°	15.2	8.2
50°-60°	0.8	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°	93.2	50.1
0°-40°	168.9	90.8
0°-60°	184.8	99.4
0°-90°	186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	186.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	15	11	6	4	3	2
15°	291	34	4	1	0	114
25°	1222	56	1	0	0	551
35°	1072	23	0	0	0	638
45°	130	3	0	0	0	141
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	

TEST NUMBER: P1336950

CATALOG NUMBER: P3A05R209827DE010 E3A301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	9.6	9.6	9.4	9.4	9.3	9.4	9.1	9.3	9.3	9.1	8.3
5°	14.7	15.0	14.8	14.8	14.7	14.8	14.5	14.2	13.8	13.8	11.0
7.5°	24.1	24.0	23.6	23.8	23.3	22.9	22.6	22.4	21.4	20.9	14.3
10°	45.7	46.7	45.9	45.7	42.7	42.5	40.5	37.6	35.1	33.7	18.9
12.5°	125.9	131.3	122.8	118.8	116.4	107.3	103.4	93.5	83.9	76.6	24.0
15°	290.6	303.9	286.9	288.0	273.9	247.9	225.1	205.5	182.4	159.1	34.3
17.5°	569.3	558.5	549.3	533.6	504.7	466.6	417.5	367.7	324.7	279.6	47.8
20°	853.2	843.6	822.5	788.2	751.4	694.9	636.5	561.8	489.4	421.5	57.0
21°	950.9	947.7	913.1	892.0	835.3	781.3	714.0	634.0	552.5	472.2	58.6
22°	1038.1	1018.9	1000.3	969.1	912.7	854.0	779.1	694.9	606.5	517.2	58.7
23°	1098.5	1089.8	1072.2	1036.9	980.9	911.9	832.9	744.8	651.7	549.1	58.2
24°	1165.4	1154.2	1128.6	1087.4	1030.9	962.7	872.6	785.2	683.9	575.9	56.9
25°	1222.1	1204.7	1174.3	1129.9	1068.2	997.8	907.2	811.2	706.4	594.0	55.5
26°	1258.8	1249.4	1210.4	1162.2	1096.0	1023.4	931.0	831.1	720.9	602.3	53.3
27°	1297.2	1279.8	1241.5	1185.9	1114.2	1040.2	944.5	840.7	725.9	602.6	50.6
28°	1319.1	1300.2	1256.8	1198.4	1126.0	1049.4	952.2	843.7	724.9	597.4	47.4
29°	1326.0	1302.2	1259.9	1200.5	1128.9	1050.1	951.1	839.3	716.0	584.5	43.7
30°	1313.2	1288.9	1248.7	1190.8	1119.8	1041.7	940.1	824.8	700.1	566.1	40.3
31°	1285.2	1264.6	1225.8	1167.7	1099.5	1021.9	915.3	801.0	673.1	541.5	36.4
32°	1248.2	1228.0	1189.8	1137.3	1068.0	989.7	881.4	763.9	641.4	504.7	32.6
33°	1192.7	1181.1	1146.8	1096.7	1027.3	943.6	835.8	719.5	596.2	463.9	29.2
34°	1136.5	1121.8	1097.9	1043.0	968.4	884.9	776.4	658.3	541.0	418.2	26.0
35°	1071.7	1062.9	1025.3	981.4	906.5	821.1	713.3	598.7	476.7	367.2	22.8
36°	1008.9	995.4	952.6	906.2	833.4	741.1	634.7	527.0	421.2	319.4	19.4
37°	917.8	897.2	866.7	817.7	732.7	654.1	556.9	457.0	352.8	267.8	15.7
38°	810.7	801.0	758.7	709.4	639.0	564.5	468.3	383.6	291.1	223.6	12.0
39°	684.3	684.1	643.6	608.0	539.1	472.0	385.2	311.3	240.3	180.1	9.3
40°	577.1	557.2	532.2	487.5	434.7	377.7	301.7	243.7	186.5	145.1	7.3
42.5°	302.6	300.9	286.2	252.6	223.1	189.5	150.7	125.5	98.2	80.0	4.6
45°	129.9	130.8	120.7	115.6	104.1	90.1	76.1	63.4	54.3	44.0	2.7
47.5°	32.9	31.6	31.2	32.4	32.4	31.4	28.2	26.5	24.5	22.4	1.5
50°	14.2	13.8	13.5	13.5	12.7	12.1	11.3	10.3	9.4	8.4	0.7
52.5°	5.2	5.4	5.6	5.4	5.4	5.2	5.2	5.1	4.6	4.0	0.3
55°	1.7	1.7	1.7	1.9	1.9	2.0	2.0	2.0	2.0	1.9	0.0
57.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	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



TEST NUMBER: P1336950

CATALOG NUMBER: P3A05R209827DE010 E3A301MW

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

TEST NUMBER: P1336950

CATALOG NUMBER: P3A05R209827DE010 E3A301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	7.4	6.6	5.6	4.7	4.6	4.4
5°	8.3	6.1	4.6	3.7	3.4	3.2
7.5°	8.9	5.6	3.7	2.7	2.4	2.2
10°	9.3	4.9	3.0	2.0	1.5	1.5
12.5°	9.4	4.2	2.2	1.3	0.8	0.8
15°	9.3	3.5	1.7	0.7	0.2	0.2
17.5°	8.4	2.9	1.0	0.2	0.0	0.0
20°	7.3	2.4	0.7	0.0	0.0	0.0
21°	6.9	2.0	0.5	0.0	0.0	0.0
22°	6.4	1.9	0.3	0.0	0.0	0.0
23°	5.9	1.7	0.3	0.0	0.0	0.0
24°	5.4	1.5	0.2	0.0	0.0	0.0
25°	5.1	1.3	0.2	0.0	0.0	0.0
26°	4.7	1.2	0.2	0.0	0.0	0.0
27°	4.2	1.0	0.0	0.0	0.0	0.0
28°	3.9	0.8	0.0	0.0	0.0	0.0
29°	3.4	0.7	0.0	0.0	0.0	0.0
30°	2.9	0.5	0.0	0.0	0.0	0.0
31°	2.4	0.5	0.0	0.0	0.0	0.0
32°	2.0	0.3	0.0	0.0	0.0	0.0
33°	1.7	0.3	0.0	0.0	0.0	0.0
34°	1.5	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°	0.7	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	0.7	0.7
57.5°	0.2	0.3	0.3	0.5	0.7	0.8
60°	0.3	0.5	0.5	0.5	0.8	0.8
62.5°	0.3	0.5	0.7	0.7	0.8	1.0
65°	0.3	0.7	0.7	0.7	0.8	1.0
67.5°	0.5	0.7	0.7	0.7	0.8	1.0
70°	0.5	0.7	0.7	0.7	0.8	0.8
72.5°	0.5	0.7	0.5	0.7	0.7	0.8
75°	0.5	0.7	0.5	0.5	0.7	0.7
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



TEST NUMBER: P1336950

CATALOG NUMBER: P3A05R209827DE010 E3A301MW

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)