

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: P1336463

Luminaire Tested: P3A05R159830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336463
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 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

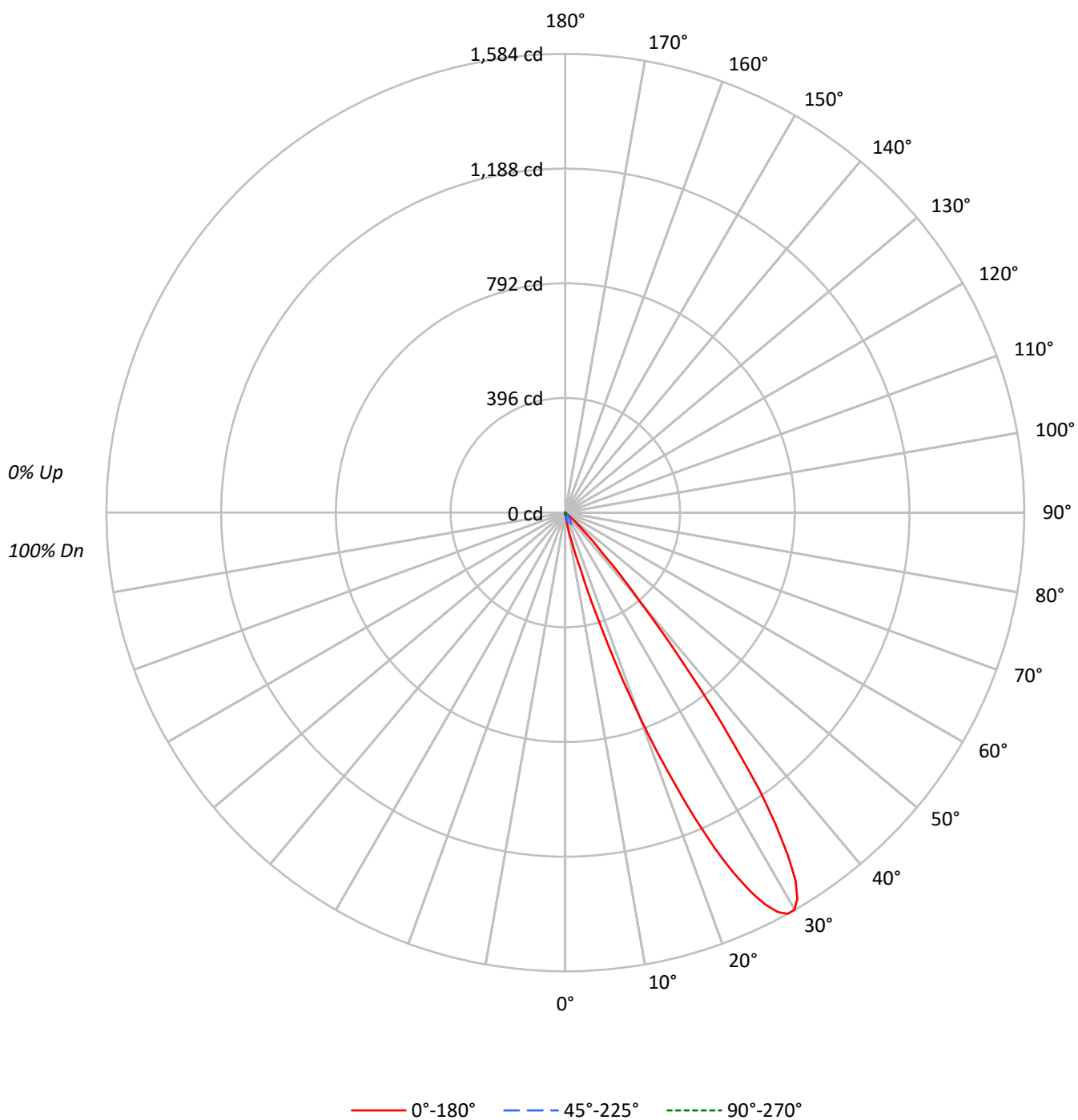
Lumens per Lamp: N/A
Luminaire Lumens: 173.0 lumens
Efficiency: N/A
Efficacy: 24.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.5 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	47	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	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1250	1250	1250	1250	1250
5°	2707	2003	1189	638	528
10°	12002	3785	935	267	178
15°	45358	8740	658	114	68
20°	174408	12321	397	47	47
25°	331640	11565	194	0	0
30°	400619	9343	76	0	0
35°	312450	6344	54	0	0
40°	114014	3120	57	0	57
45°	29274	930	62	0	93
50°	4947	102	68	68	171
55°	650	0	115	191	306
60°	88	88	219	307	439
65°	104	104	363	415	519
70°	128	128	449	449	513
75°	169	169	593	424	593
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29274 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	13.3	7.7
20°-30°	73.5	42.5
30°-40°	71.0	41.1
40°-50°	12.4	7.1
50°-60°	0.9	0.5
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°	87.6	50.6
0°-40°	158.6	91.7
0°-60°	171.8	99.3
0°-90°	173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	173.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	12	9	5	3	2	2
15°	200	38	3	0	0	89
25°	1371	48	1	0	0	613
35°	1167	24	0	0	0	671
45°	94	3	0	0	0	101
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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	8.4	8.1	8.2	8.2	8.2	8.2	8.2	7.9	7.9	8.1	7.2
5°	12.3	12.3	12.1	12.3	12.3	12.1	11.8	11.6	11.6	11.3	9.1
7.5°	24.6	24.2	24.2	23.9	22.2	21.7	21.4	20.5	19.0	18.7	11.8
10°	53.9	54.0	52.8	51.3	51.2	48.6	47.8	46.3	43.4	40.6	17.0
12.5°	97.8	95.6	92.7	92.9	88.0	86.3	82.5	78.3	73.9	69.3	27.9
15°	199.8	193.5	197.2	188.1	177.9	166.3	154.5	139.7	127.1	113.6	38.5
17.5°	420.7	426.8	416.5	377.6	353.7	325.6	286.1	247.9	215.2	189.0	47.1
20°	747.4	756.3	721.4	687.6	629.6	566.3	500.3	425.6	354.1	292.1	52.8
21°	883.8	878.5	864.1	810.0	743.0	669.6	588.8	506.4	419.7	339.3	53.3
22°	1015.8	1018.3	985.0	928.3	858.6	777.3	678.7	576.9	483.5	377.6	52.5
23°	1147.2	1155.3	1111.2	1058.0	970.3	878.6	764.5	654.6	539.2	421.6	50.8
24°	1268.9	1263.3	1233.5	1166.6	1072.8	965.5	847.0	713.7	585.0	459.1	49.5
25°	1370.7	1370.0	1323.2	1258.1	1150.9	1031.9	901.3	762.0	624.2	484.5	47.8
26°	1454.0	1440.4	1403.5	1324.1	1218.2	1092.7	945.9	797.2	646.2	497.3	46.1
27°	1518.3	1508.5	1459.0	1376.4	1265.8	1127.0	974.5	814.7	656.3	501.5	43.9
28°	1561.5	1550.9	1498.2	1413.1	1292.1	1148.5	989.7	822.1	656.3	497.5	41.9
29°	1583.9	1569.4	1516.9	1425.7	1298.2	1151.1	986.0	814.8	646.0	485.0	39.5
30°	1582.2	1564.2	1509.2	1414.3	1280.1	1130.4	965.3	788.8	622.8	466.5	36.9
31°	1555.0	1534.8	1473.3	1375.6	1243.0	1091.3	926.2	753.8	591.0	442.4	34.2
32°	1499.6	1474.0	1414.1	1316.7	1185.7	1032.9	869.5	699.7	543.4	407.3	31.3
33°	1409.4	1383.6	1319.4	1228.0	1108.3	958.9	794.3	641.7	489.2	365.3	28.9
34°	1296.5	1272.9	1217.5	1125.5	1010.7	865.2	707.8	561.4	433.0	323.8	26.4
35°	1167.2	1129.7	1079.6	1006.7	894.8	748.4	614.4	486.7	375.1	280.2	23.7
36°	992.4	999.1	945.9	856.7	764.0	649.2	520.7	405.7	313.7	238.8	21.4
37°	837.4	826.8	793.0	724.0	643.2	529.3	436.4	344.0	263.9	201.9	18.8
38°	675.5	677.9	644.7	591.7	511.6	435.2	351.2	282.6	220.8	171.8	16.5
39°	528.8	526.9	518.0	468.8	396.3	346.2	284.6	234.3	183.9	144.9	14.0
40°	398.3	401.4	380.5	350.9	308.6	267.4	226.7	186.8	152.1	122.2	10.9
42.5°	193.7	198.4	184.6	177.0	158.4	142.2	120.0	97.9	83.3	72.0	4.9
45°	94.4	91.7	90.5	86.8	82.5	73.7	65.3	56.0	49.0	42.2	3.0
47.5°	48.3	47.0	47.0	45.4	43.9	41.1	36.9	33.8	30.5	26.3	1.2
50°	14.5	14.3	14.1	14.3	13.8	14.3	14.6	14.8	13.5	13.3	0.3
52.5°	5.7	5.9	5.7	6.2	6.2	6.1	6.2	6.1	5.9	5.2	0.0
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.9	2.0	1.9	2.0	0.0
57.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	6.7	5.9	4.9	4.0	3.7	3.5
5°	7.2	5.4	3.7	2.9	2.5	2.4
7.5°	7.7	4.9	2.9	2.0	1.5	1.3
10°	8.1	4.2	2.2	1.2	0.8	0.8
12.5°	8.1	3.4	1.5	0.7	0.5	0.5
15°	7.9	2.9	1.0	0.5	0.3	0.3
17.5°	7.7	2.2	0.7	0.3	0.2	0.3
20°	7.2	1.7	0.3	0.2	0.2	0.2
21°	7.1	1.5	0.3	0.2	0.2	0.2
22°	6.7	1.3	0.2	0.0	0.2	0.2
23°	6.4	1.0	0.2	0.0	0.0	0.0
24°	5.9	0.8	0.2	0.0	0.0	0.0
25°	5.6	0.8	0.2	0.0	0.0	0.0
26°	5.2	0.5	0.0	0.0	0.0	0.0
27°	4.7	0.3	0.0	0.0	0.0	0.0
28°	4.4	0.3	0.0	0.0	0.0	0.0
29°	3.9	0.3	0.0	0.0	0.0	0.0
30°	3.4	0.3	0.0	0.0	0.0	0.0
31°	2.7	0.2	0.0	0.0	0.0	0.0
32°	2.2	0.2	0.0	0.0	0.0	0.0
33°	1.5	0.2	0.0	0.0	0.0	0.0
34°	1.0	0.2	0.0	0.0	0.0	0.0
35°	0.8	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°	0.3	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	0.3
45°	0.0	0.2	0.0	0.0	0.2	0.3
47.5°	0.0	0.2	0.0	0.0	0.3	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.3	0.5	0.7
55°	0.2	0.3	0.3	0.5	0.7	0.8
57.5°	0.2	0.5	0.5	0.7	0.8	0.8
60°	0.3	0.5	0.7	0.7	1.0	1.0
62.5°	0.3	0.7	0.7	0.7	1.0	1.0
65°	0.3	0.7	0.7	0.8	1.0	1.0
67.5°	0.3	0.7	0.7	0.7	0.8	1.0
70°	0.3	0.7	0.5	0.7	0.8	0.8
72.5°	0.3	0.7	0.5	0.5	0.7	0.8
75°	0.3	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



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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	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)