

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: P1339945

Luminaire Tested: P3A09R159730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339945
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: P3A09R159730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

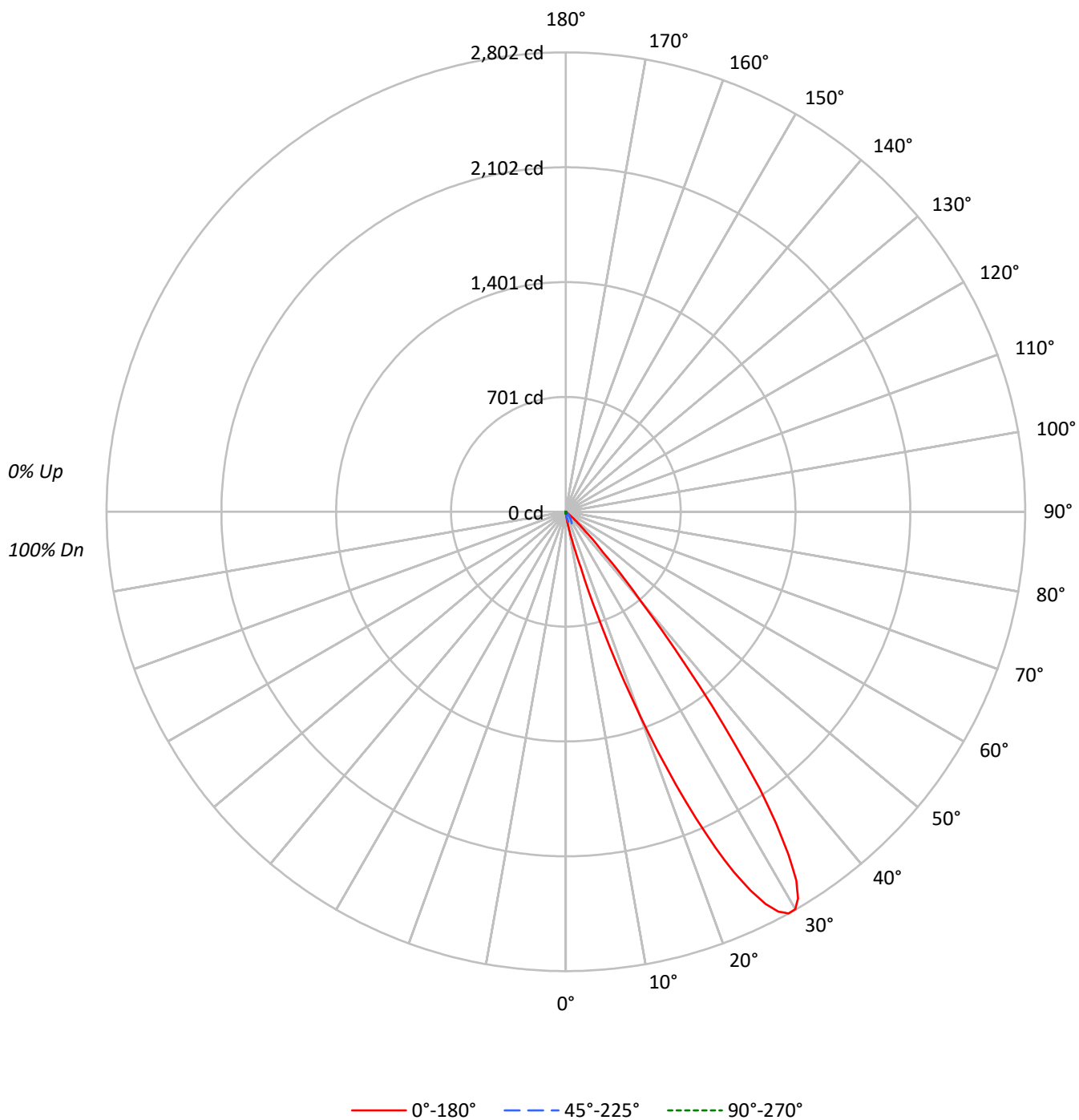
Lumens per Lamp: N/A
Luminaire Lumens: 306.0 lumens
Efficiency: N/A
Efficacy: 27.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1339945

CATALOG NUMBER: P3A09R159730DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1339945

CATALOG NUMBER: P3A09R159730DE010 E3A301GPH

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°	2215	2215	2215	2215	2215
5°	4777	3544	2091	1123	924
10°	21220	6702	1648	468	334
15°	80205	15482	1158	204	136
20°	308470	21819	700	70	70
25°	586582	20445	363	0	0
30°	708615	16509	152	0	0
35°	552677	11243	80	0	0
40°	201692	5525	86	0	86
45°	51788	1675	93	0	186
50°	8733	205	102	102	307
55°	1147	0	229	344	573
60°	132	132	395	526	789
65°	156	156	623	778	934
70°	192	192	769	769	962
75°	254	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51788 cd/sqm

TEST NUMBER: P1339945

CATALOG NUMBER: P3A09R159730DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	23.4	7.7
20°-30°	130.1	42.5
30°-40°	125.6	41.1
40°-50°	21.9	7.1
50°-60°	1.6	0.5
60°-70°	0.9	0.3
70°-80°	0.8	0.2
80°-90°	0.4	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°	154.9	50.6
0°-40°	280.5	91.7
0°-60°	304.0	99.3
0°-90°	306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	306.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	10	5	4	4
15°	353	68	5	1	1	157
25°	2424	84	2	0	0	1084
35°	2065	42	0	0	0	1187
45°	167	5	0	0	1	179
55°	3	0	1	1	2	6
65°	0	0	1	2	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1339945

CATALOG NUMBER: P3A09R159730DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
2.5°	14.9	14.3	14.6	14.6	14.6	14.6	14.6	14.0	14.0	14.3	12.8
5°	21.7	21.7	21.4	21.7	21.7	21.4	20.8	20.5	20.5	19.9	16.1
7.5°	43.5	42.9	42.9	42.3	39.3	38.4	37.8	36.3	33.6	33.0	20.8
10°	95.3	95.5	93.5	90.8	90.5	86.0	84.5	81.9	76.8	71.7	30.1
12.5°	172.9	169.1	164.0	164.3	155.7	152.7	145.9	138.4	130.7	122.6	49.4
15°	353.3	342.3	348.9	332.8	314.6	294.1	273.3	247.1	224.7	200.9	68.2
17.5°	744.2	754.9	736.7	668.0	625.7	576.0	506.0	438.5	380.7	334.3	83.3
20°	1321.9	1337.7	1276.1	1216.2	1113.6	1001.6	884.9	752.8	626.3	516.7	93.5
21°	1563.3	1553.8	1528.5	1432.6	1314.2	1184.4	1041.5	895.7	742.4	600.1	94.4
22°	1796.7	1801.1	1742.2	1641.9	1518.7	1374.9	1200.5	1020.4	855.2	668.0	92.9
23°	2029.2	2043.4	1965.5	1871.4	1716.3	1554.1	1352.3	1157.9	953.7	745.6	89.9
24°	2244.4	2234.5	2181.9	2063.4	1897.6	1707.7	1498.1	1262.4	1034.7	812.0	87.5
25°	2424.4	2423.3	2340.5	2225.3	2035.7	1825.3	1594.3	1347.8	1104.0	857.0	84.5
26°	2571.8	2547.7	2482.5	2342.0	2154.8	1932.7	1673.2	1410.0	1143.0	879.6	81.6
27°	2685.5	2668.2	2580.7	2434.6	2239.0	1993.4	1723.8	1441.0	1160.9	887.0	77.7
28°	2762.0	2743.2	2650.1	2499.5	2285.4	2031.5	1750.5	1454.1	1160.9	879.9	74.1
29°	2801.6	2776.0	2683.1	2521.8	2296.2	2036.0	1744.0	1441.3	1142.7	857.9	70.0
30°	2798.6	2766.8	2669.4	2501.5	2264.3	1999.4	1707.4	1395.1	1101.6	825.1	65.2
31°	2750.4	2714.7	2606.0	2433.1	2198.5	1930.3	1638.3	1333.2	1045.4	782.6	60.4
32°	2652.5	2607.2	2501.2	2328.9	2097.3	1827.0	1538.0	1237.7	961.1	720.3	55.4
33°	2492.9	2447.4	2333.7	2172.0	1960.4	1696.1	1405.0	1135.0	865.3	646.2	51.2
34°	2293.2	2251.5	2153.6	1990.8	1787.8	1530.3	1252.0	993.0	765.9	572.7	46.7
35°	2064.6	1998.2	1909.5	1780.6	1582.7	1323.7	1086.8	860.8	663.5	495.6	42.0
36°	1755.3	1767.2	1673.2	1515.4	1351.4	1148.4	921.0	717.7	554.8	422.4	37.8
37°	1481.2	1462.4	1402.6	1280.5	1137.7	936.1	771.8	608.4	466.7	357.2	33.3
38°	1194.8	1199.0	1140.3	1046.6	904.9	769.8	621.2	499.8	390.5	303.9	29.2
39°	935.3	932.0	916.2	829.3	701.0	612.3	503.3	414.3	325.3	256.3	24.7
40°	704.6	709.9	673.0	620.6	545.9	473.0	400.9	330.4	269.1	216.1	19.3
42.5°	342.6	350.9	326.5	313.1	280.1	251.5	212.2	173.2	147.3	127.4	8.6
45°	167.0	162.2	160.1	153.6	145.9	130.4	115.5	99.1	86.6	74.7	5.4
47.5°	85.4	83.0	83.0	80.4	77.7	72.6	65.2	59.8	53.9	46.4	2.1
50°	25.6	25.3	25.0	25.3	24.4	25.3	25.9	26.2	23.8	23.5	0.6
52.5°	10.1	10.4	10.1	11.0	11.0	10.7	11.0	10.7	10.4	9.2	0.0
55°	3.0	3.0	3.0	3.0	3.0	3.0	3.3	3.6	3.3	3.6	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



TEST NUMBER: P1339945

CATALOG NUMBER: P3A09R159730DE010 E3A301GPH

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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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: P1339945

CATALOG NUMBER: P3A09R159730DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.1	10.1	10.1	10.1	10.1	10.1
2.5°	11.9	10.4	8.6	7.1	6.5	6.3
5°	12.8	9.5	6.5	5.1	4.5	4.2
7.5°	13.7	8.6	5.1	3.6	2.7	2.4
10°	14.3	7.4	3.9	2.1	1.5	1.5
12.5°	14.3	6.0	2.7	1.2	0.9	0.9
15°	14.0	5.1	1.8	0.9	0.6	0.6
17.5°	13.7	3.9	1.2	0.6	0.3	0.6
20°	12.8	3.0	0.6	0.3	0.3	0.3
21°	12.5	2.7	0.6	0.3	0.3	0.3
22°	11.9	2.4	0.3	0.0	0.3	0.3
23°	11.3	1.8	0.3	0.0	0.0	0.0
24°	10.4	1.5	0.3	0.0	0.0	0.0
25°	9.8	1.5	0.3	0.0	0.0	0.0
26°	9.2	0.9	0.0	0.0	0.0	0.0
27°	8.3	0.6	0.0	0.0	0.0	0.0
28°	7.7	0.6	0.0	0.0	0.0	0.0
29°	6.8	0.6	0.0	0.0	0.0	0.0
30°	6.0	0.6	0.0	0.0	0.0	0.0
31°	4.8	0.3	0.0	0.0	0.0	0.0
32°	3.9	0.3	0.0	0.0	0.0	0.0
33°	2.7	0.3	0.0	0.0	0.0	0.0
34°	1.8	0.3	0.0	0.0	0.0	0.0
35°	1.5	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.3	0.0	0.0	0.0	0.3
37°	0.9	0.3	0.0	0.0	0.0	0.3
38°	0.6	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.6	0.9	1.2
55°	0.3	0.6	0.6	0.9	1.2	1.5
57.5°	0.3	0.9	0.9	1.2	1.5	1.5
60°	0.6	0.9	1.2	1.2	1.8	1.8
62.5°	0.6	1.2	1.2	1.2	1.8	1.8
65°	0.6	1.2	1.2	1.5	1.8	1.8
67.5°	0.6	1.2	1.2	1.2	1.5	1.8
70°	0.6	1.2	0.9	1.2	1.5	1.5
72.5°	0.6	1.2	0.9	0.9	1.2	1.5
75°	0.6	1.2	0.9	0.9	1.2	1.2
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



TEST NUMBER: P1339945

CATALOG NUMBER: P3A09R159730DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)