

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: P1333997

Luminaire Tested: P3A02R159030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1333997
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: P3A02R159030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

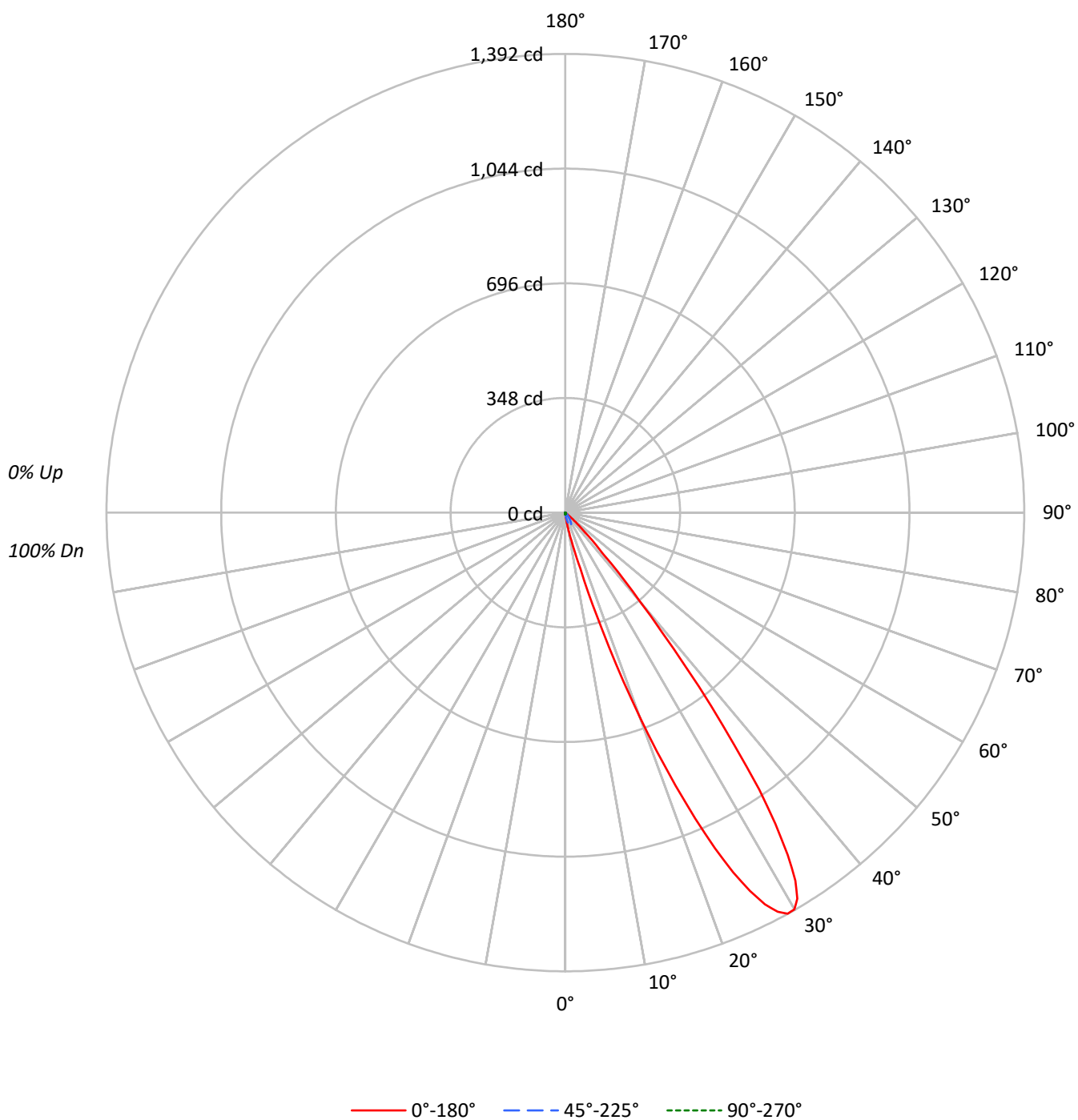
Lumens per Lamp: N/A
Luminaire Lumens: 151.9 lumens
Efficiency: N/A
Efficacy: 21.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1333997

CATALOG NUMBER: P3A02R159030D2WDE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1333997

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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	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	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	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°	1096	1096	1096	1096	1096
5°	2377	1761	1035	550	462
10°	10532	3318	824	223	156
15°	39841	7696	568	91	68
20°	153220	10828	350	23	23
25°	291380	10162	169	0	0
30°	352004	8204	76	0	0
35°	274518	5568	27	0	0
40°	100188	2748	29	0	29
45°	25708	837	31	0	93
50°	4332	102	34	34	136
55°	573	0	115	153	268
60°	44	44	175	263	395
65°	52	52	311	363	467
70°	64	64	385	385	449
75°	85	85	508	339	508
80°	0	126	505	379	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 25708 cd/sqm

TEST NUMBER: P1333997

CATALOG NUMBER: P3A02R159030D2WDE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.5
10°-20°	11.6	7.7
20°-30°	64.6	42.5
30°-40°	62.4	41.1
40°-50°	10.8	7.1
50°-60°	0.8	0.5
60°-70°	0.4	0.3
70°-80°	0.3	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°	76.9	50.6
0°-40°	139.3	91.7
0°-60°	150.9	99.4
0°-90°	151.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	151.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	11	8	5	2	2	2
15°	176	34	2	0	0	78
25°	1204	42	1	0	0	538
35°	1026	21	0	0	0	590
45°	83	3	0	0	0	89
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: P1333997

CATALOG NUMBER: P3A02R159030D2WDE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
2.5°	7.4	7.1	7.2	7.2	7.2	7.2	7.2	6.9	6.9	7.1	6.4
5°	10.8	10.8	10.6	10.8	10.8	10.6	10.4	10.2	10.2	9.9	8.0
7.5°	21.6	21.3	21.3	21.0	19.5	19.1	18.8	18.0	16.7	16.4	10.4
10°	47.3	47.5	46.4	45.1	44.9	42.7	42.0	40.7	38.1	35.6	14.9
12.5°	85.9	84.0	81.5	81.6	77.3	75.9	72.5	68.8	64.9	60.9	24.5
15°	175.5	170.0	173.3	165.3	156.3	146.1	135.7	122.7	111.6	99.8	33.9
17.5°	369.6	375.0	365.9	331.8	310.8	286.1	251.4	217.8	189.1	166.0	41.4
20°	656.6	664.5	633.9	604.1	553.1	497.5	439.6	373.9	311.1	256.7	46.4
21°	776.5	771.8	759.2	711.6	652.8	588.3	517.4	444.9	368.8	298.1	46.9
22°	892.5	894.7	865.4	815.6	754.4	683.0	596.3	506.9	424.8	331.8	46.1
23°	1007.9	1015.0	976.3	929.6	852.5	772.0	671.7	575.2	473.7	370.4	44.7
24°	1114.8	1110.0	1083.8	1025.0	942.6	848.3	744.2	627.1	514.0	403.4	43.5
25°	1204.3	1203.7	1162.6	1105.4	1011.2	906.7	791.9	669.5	548.4	425.7	42.0
26°	1277.5	1265.5	1233.1	1163.3	1070.3	960.0	831.1	700.4	567.8	436.9	40.5
27°	1334.0	1325.4	1281.9	1209.3	1112.2	990.2	856.2	715.8	576.6	440.6	38.6
28°	1372.0	1362.7	1316.4	1241.6	1135.3	1009.1	869.6	722.3	576.6	437.1	36.8
29°	1391.6	1378.9	1332.8	1252.7	1140.6	1011.3	866.3	715.9	567.6	426.1	34.7
30°	1390.2	1374.3	1326.0	1242.6	1124.8	993.2	848.1	693.0	547.2	409.9	32.4
31°	1366.2	1348.5	1294.5	1208.6	1092.1	958.9	813.8	662.3	519.3	388.7	30.0
32°	1317.6	1295.1	1242.4	1156.8	1041.8	907.6	764.0	614.8	477.4	357.8	27.5
33°	1238.3	1215.7	1159.2	1078.9	973.8	842.5	697.9	563.8	429.8	321.0	25.4
34°	1139.1	1118.4	1069.8	988.9	888.0	760.1	621.9	493.3	380.4	284.5	23.2
35°	1025.5	992.6	948.5	884.5	786.2	657.5	539.8	427.6	329.6	246.2	20.8
36°	871.9	877.8	831.1	752.7	671.3	570.4	457.5	356.5	275.6	209.8	18.8
37°	735.7	726.4	696.7	636.1	565.1	465.0	383.4	302.2	231.8	177.4	16.6
38°	593.5	595.6	566.4	519.9	449.5	382.4	308.6	248.3	194.0	151.0	14.5
39°	464.6	462.9	455.1	411.9	348.2	304.1	250.0	205.8	161.6	127.3	12.3
40°	350.0	352.6	334.3	308.3	271.2	234.9	199.2	164.1	133.7	107.3	9.6
42.5°	170.2	174.3	162.2	155.5	139.1	124.9	105.4	86.1	73.2	63.3	4.3
45°	82.9	80.6	79.5	76.3	72.5	64.8	57.4	49.2	43.0	37.1	2.7
47.5°	42.4	41.3	41.3	39.9	38.6	36.1	32.4	29.7	26.8	23.1	1.0
50°	12.7	12.6	12.4	12.6	12.1	12.6	12.9	13.0	11.8	11.7	0.3
52.5°	5.0	5.2	5.0	5.5	5.5	5.3	5.5	5.3	5.2	4.6	0.0
55°	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.8	1.6	1.8	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°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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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	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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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CATALOG NUMBER: P3A02R159030D2WDE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.0	5.0	5.0	5.0	5.0	5.0
2.5°	5.9	5.2	4.3	3.5	3.3	3.1
5°	6.4	4.7	3.3	2.5	2.2	2.1
7.5°	6.8	4.3	2.5	1.8	1.3	1.2
10°	7.1	3.7	1.9	1.0	0.7	0.7
12.5°	7.1	3.0	1.3	0.6	0.4	0.4
15°	6.9	2.5	0.9	0.4	0.3	0.3
17.5°	6.8	1.9	0.6	0.3	0.1	0.3
20°	6.4	1.5	0.3	0.1	0.1	0.1
21°	6.2	1.3	0.3	0.1	0.1	0.1
22°	5.9	1.2	0.1	0.0	0.1	0.1
23°	5.6	0.9	0.1	0.0	0.0	0.0
24°	5.2	0.7	0.1	0.0	0.0	0.0
25°	4.9	0.7	0.1	0.0	0.0	0.0
26°	4.6	0.4	0.0	0.0	0.0	0.0
27°	4.1	0.3	0.0	0.0	0.0	0.0
28°	3.8	0.3	0.0	0.0	0.0	0.0
29°	3.4	0.3	0.0	0.0	0.0	0.0
30°	3.0	0.3	0.0	0.0	0.0	0.0
31°	2.4	0.1	0.0	0.0	0.0	0.0
32°	1.9	0.1	0.0	0.0	0.0	0.0
33°	1.3	0.1	0.0	0.0	0.0	0.0
34°	0.9	0.1	0.0	0.0	0.0	0.0
35°	0.7	0.1	0.0	0.0	0.0	0.0
36°	0.4	0.1	0.0	0.0	0.0	0.1
37°	0.4	0.1	0.0	0.0	0.0	0.1
38°	0.3	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.3
45°	0.0	0.1	0.0	0.0	0.1	0.3
47.5°	0.0	0.1	0.0	0.0	0.3	0.3
50°	0.0	0.1	0.1	0.1	0.3	0.4
52.5°	0.0	0.3	0.1	0.3	0.4	0.6
55°	0.1	0.3	0.3	0.4	0.6	0.7
57.5°	0.1	0.4	0.4	0.6	0.7	0.7
60°	0.3	0.4	0.6	0.6	0.9	0.9
62.5°	0.3	0.6	0.6	0.6	0.9	0.9
65°	0.3	0.6	0.6	0.7	0.9	0.9
67.5°	0.3	0.6	0.6	0.6	0.7	0.9
70°	0.3	0.6	0.4	0.6	0.7	0.7
72.5°	0.3	0.6	0.4	0.4	0.6	0.7
75°	0.3	0.6	0.4	0.4	0.6	0.6
77.5°	0.3	0.4	0.4	0.3	0.4	0.4
80°	0.3	0.4	0.3	0.3	0.4	0.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.4	0.3	0.1	0.3	0.3
85°	0.3	0.4	0.3	0.1	0.1	0.1
87.5°	0.3	0.4	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)