

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: P1339523

Luminaire Tested: P3A05R459835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

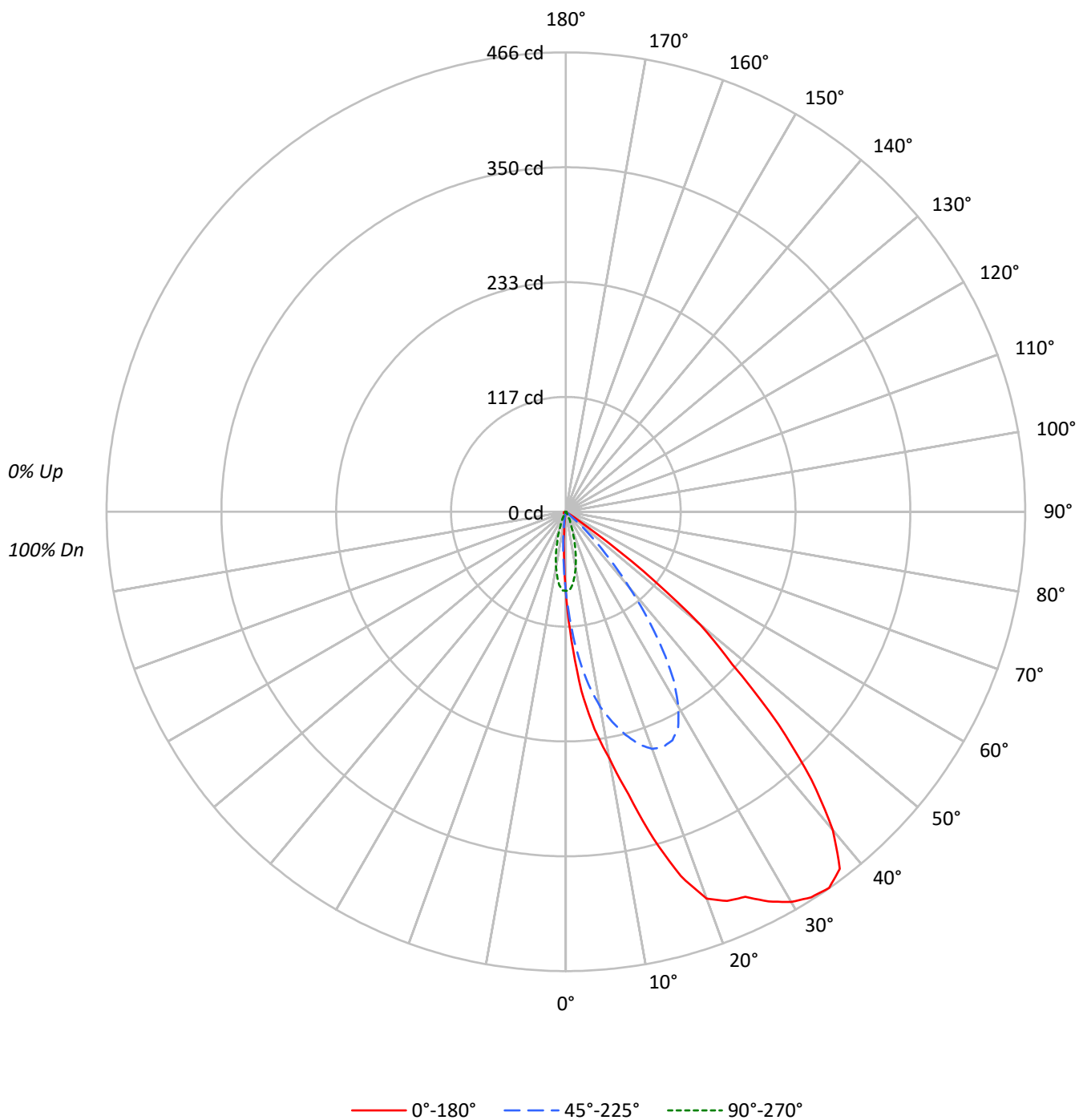
Lumens per Lamp: N/A
Luminaire Lumens: 211.0 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1339523

CATALOG NUMBER: P3A05R459835DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1339523

CATALOG NUMBER: P3A05R459835DE010 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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17608	17608	17608	17608	17608
5°	40128	32555	16465	6604	4512
10°	56534	44711	12736	1447	668
15°	77912	53190	8127	477	409
20°	97425	59739	4247	327	327
25°	104256	61866	1960	266	290
30°	115714	57781	886	279	304
35°	124664	46043	294	294	375
40°	120626	28539	143	344	458
45°	94739	13459	155	434	558
50°	60859	1569	239	546	716
55°	9252	153	268	688	879
60°	175	175	307	789	921
65°	208	208	363	830	1090
70°	256	256	449	898	1218
75°	169	339	593	1017	1356
80°	253	505	631	1137	1515
85°	0	503	1006	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 94739 cd/sqm

TEST NUMBER: P1339523

CATALOG NUMBER: P3A05R459835DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	4.2
10°-20°	31.8	15.1
20°-30°	55.8	26.4
30°-40°	63.4	30.0
40°-50°	41.0	19.4
50°-60°	8.1	3.8
60°-70°	1.0	0.5
70°-80°	0.8	0.4
80°-90°	0.4	0.2
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°	96.4	45.7
0°-40°	159.7	75.7
0°-60°	208.8	99.0
0°-90°	211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	211.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	182	148	75	30	20	19
15°	343	234	36	2	2	99
25°	431	256	8	1	1	202
35°	466	172	1	1	1	286
45°	306	43	0	1	2	230
55°	24	0	1	2	2	46
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1339523

CATALOG NUMBER: P3A05R459835DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
2.5°	130.4	130.1	130.6	127.1	126.9	124.2	123.5	120.5	116.5	114.5	109.9
5°	182.3	180.5	180.5	176.3	174.9	171.9	166.8	160.4	155.1	147.9	140.1
7.5°	222.3	222.0	222.0	218.3	214.8	210.5	203.6	196.4	187.9	176.8	165.5
10°	253.9	254.5	252.9	249.5	244.4	239.8	231.7	222.9	212.5	200.8	185.8
12.5°	293.8	289.9	288.7	281.1	274.6	265.8	256.0	246.0	233.1	218.5	201.5
15°	343.2	338.3	333.3	323.3	312.3	298.7	283.6	268.7	252.2	234.3	213.2
17.5°	387.3	387.3	380.8	364.9	350.8	330.7	310.2	290.5	270.9	247.4	220.9
20°	417.5	415.9	411.0	399.3	383.3	360.5	333.9	306.2	282.5	256.0	225.3
22.5°	427.4	427.0	427.2	420.3	407.4	383.8	351.2	318.5	288.9	258.2	223.2
25°	430.9	431.6	433.4	430.7	421.0	397.4	361.7	324.3	290.8	255.7	215.1
27.5°	445.6	444.2	446.1	444.3	433.4	405.2	363.9	322.9	286.6	246.7	200.6
30°	457.0	456.7	460.0	458.4	444.2	410.1	361.9	317.6	276.2	228.2	177.9
32.5°	463.6	463.7	464.6	458.1	436.9	399.3	352.4	306.9	256.6	204.0	148.2
35°	465.7	464.6	459.7	443.6	414.7	374.5	328.9	281.3	229.9	172.0	117.2
37.5°	456.5	451.0	438.3	414.3	380.8	343.2	298.9	249.0	193.4	135.9	87.3
40°	421.4	414.2	398.1	373.6	342.3	306.0	260.6	208.4	150.0	99.7	61.4
42.5°	368.8	365.1	348.3	327.0	300.5	263.8	217.0	164.1	111.0	68.8	39.2
45°	305.5	300.7	290.1	271.2	250.4	211.9	168.3	117.5	75.7	43.4	19.4
47.5°	229.0	229.4	222.2	207.9	187.4	155.3	115.2	78.9	47.5	22.4	4.4
50°	178.4	175.9	165.7	151.1	127.2	103.4	74.5	49.8	25.1	4.6	0.4
52.5°	98.8	100.4	94.9	90.2	77.8	61.8	43.9	25.2	5.3	0.5	0.4
55°	24.2	25.6	24.5	25.1	25.9	23.1	17.8	4.9	0.5	0.4	0.4
57.5°	0.5	0.5	0.5	0.5	0.9	1.2	1.2	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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: P1339523

CATALOG NUMBER: P3A05R459835DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
2.5°	107.6	104.3	98.1	79.8	64.1	51.7	44.3	43.6
5°	133.2	124.2	111.2	74.8	47.3	30.0	21.7	20.5
7.5°	153.5	140.8	120.7	66.7	32.3	15.4	8.5	7.1
10°	170.3	152.3	125.6	57.2	20.3	6.5	3.5	3.0
12.5°	181.8	160.1	126.5	46.6	11.6	3.2	2.3	2.1
15°	189.2	162.5	122.3	35.8	6.5	2.1	1.9	1.8
17.5°	192.2	160.4	114.2	25.9	3.5	1.6	1.6	1.6
20°	190.8	153.5	102.2	18.2	2.3	1.4	1.4	1.4
22.5°	184.0	141.7	87.2	12.2	1.6	1.2	1.2	1.2
25°	170.8	125.6	71.3	8.1	1.1	1.1	1.2	1.2
27.5°	151.1	105.9	54.5	5.5	0.9	1.1	1.2	1.2
30°	126.2	83.8	39.2	3.5	0.9	1.1	1.1	1.2
32.5°	100.2	61.1	25.8	2.1	0.7	1.1	1.2	1.4
35°	72.7	41.6	16.4	1.1	0.9	1.1	1.2	1.4
37.5°	51.0	27.2	9.5	0.7	0.9	1.1	1.4	1.4
40°	33.2	15.2	3.5	0.5	0.9	1.2	1.4	1.6
42.5°	17.3	5.3	0.7	0.5	0.9	1.2	1.6	1.8
45°	4.4	0.7	0.2	0.5	1.1	1.4	1.8	1.8
47.5°	0.5	0.2	0.2	0.7	1.1	1.6	1.8	1.9
50°	0.2	0.4	0.4	0.7	1.1	1.6	1.9	2.1
52.5°	0.4	0.4	0.4	0.7	1.2	1.6	2.1	2.3
55°	0.4	0.4	0.4	0.7	1.2	1.8	2.1	2.3
57.5°	0.4	0.4	0.4	0.7	1.2	1.8	2.1	2.1
60°	0.4	0.4	0.4	0.7	1.2	1.8	2.1	2.1
62.5°	0.4	0.4	0.5	0.7	1.2	1.6	2.1	2.1
65°	0.4	0.5	0.5	0.7	1.2	1.6	1.9	2.1
67.5°	0.4	0.4	0.5	0.7	1.2	1.6	1.9	2.1
70°	0.4	0.4	0.5	0.7	1.1	1.4	1.8	1.9
72.5°	0.4	0.4	0.5	0.7	1.1	1.4	1.6	1.8
75°	0.4	0.4	0.5	0.7	0.9	1.2	1.6	1.6
77.5°	0.4	0.4	0.5	0.5	0.9	1.1	1.4	1.4
80°	0.4	0.4	0.5	0.5	0.7	0.9	1.1	1.2
82.5°	0.4	0.4	0.4	0.5	0.5	0.7	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)