

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: P1336447

Luminaire Tested: P3A05R159827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336447
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: P3A05R159827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

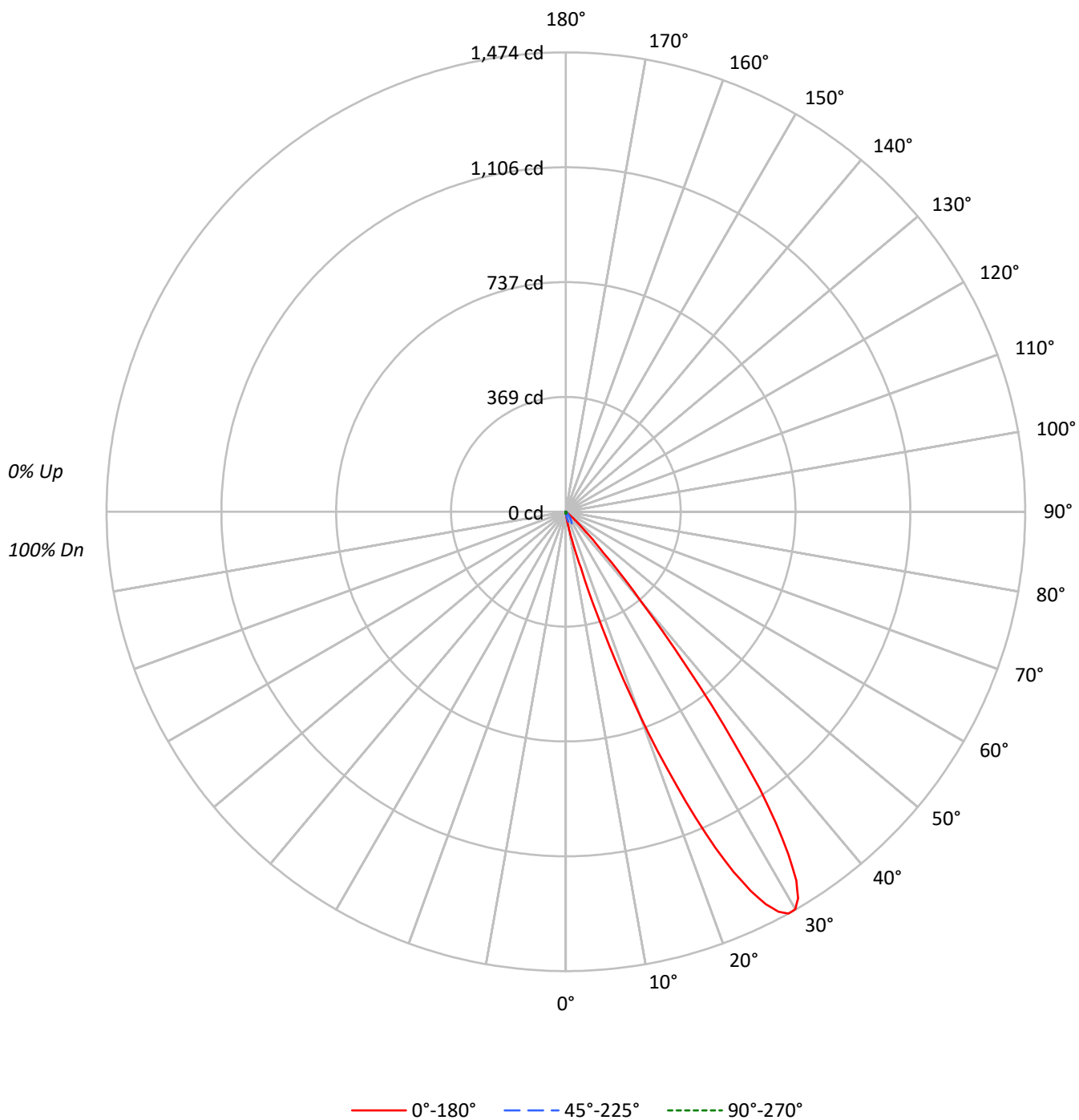
Lumens per Lamp: N/A
Luminaire Lumens: 161.0 lumens
Efficiency: N/A
Efficacy: 22.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1336447

CATALOG NUMBER: P3A05R159827DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1336447

CATALOG NUMBER: P3A05R159827DE010 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	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	98	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	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	52	48	70	59	52	47	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	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1162	1162	1162	1162	1162
5°	2509	1871	1101	594	484
10°	11155	3518	868	245	178
15°	42202	8150	613	114	68
20°	162297	11481	373	47	47
25°	308631	10767	194	0	0
30°	372842	8685	76	0	0
35°	290794	5916	54	0	0
40°	106113	2920	57	0	57
45°	27259	868	62	0	93
50°	4605	102	68	68	171
55°	612	0	115	191	306
60°	88	88	219	263	395
65°	104	104	311	415	467
70°	128	128	385	385	513
75°	169	169	508	424	508
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27259 cd/sqm

TEST NUMBER: P1336447

CATALOG NUMBER: P3A05R159827DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.5
10°-20°	12.3	7.7
20°-30°	68.4	42.5
30°-40°	66.1	41.0
40°-50°	11.5	7.1
50°-60°	0.8	0.5
60°-70°	0.5	0.3
70°-80°	0.4	0.3
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°	81.5	50.6
0°-40°	147.6	91.7
0°-60°	159.9	99.3
0°-90°	161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	161.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	11	8	5	3	2	2
15°	186	36	3	0	0	83
25°	1276	44	1	0	0	570
35°	1086	22	0	0	0	625
45°	88	3	0	0	0	94
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: P1336447

CATALOG NUMBER: P3A05R159827DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
2.5°	7.8	7.5	7.7	7.7	7.7	7.7	7.7	7.4	7.4	7.5	6.7
5°	11.4	11.4	11.3	11.4	11.4	11.3	11.0	10.8	10.8	10.5	8.5
7.5°	22.9	22.6	22.6	22.2	20.7	20.2	19.9	19.1	17.7	17.4	11.0
10°	50.1	50.3	49.2	47.8	47.6	45.3	44.5	43.1	40.4	37.7	15.8
12.5°	91.0	89.0	86.3	86.5	81.9	80.3	76.7	72.8	68.8	64.5	26.0
15°	185.9	180.1	183.5	175.1	165.5	154.7	143.8	130.0	118.2	105.7	35.9
17.5°	391.5	397.2	387.6	351.4	329.2	303.0	266.2	230.7	200.3	175.9	43.9
20°	695.5	703.8	671.4	639.9	585.9	527.0	465.6	396.1	329.5	271.9	49.2
21°	822.5	817.5	804.2	753.8	691.4	623.2	548.0	471.2	390.6	315.7	49.6
22°	945.3	947.7	916.7	863.9	799.0	723.4	631.6	536.9	449.9	351.4	48.9
23°	1067.6	1075.1	1034.1	984.6	903.0	817.7	711.5	609.2	501.8	392.3	47.3
24°	1180.9	1175.7	1148.0	1085.6	998.4	898.5	788.2	664.2	544.4	427.2	46.0
25°	1275.6	1275.0	1231.4	1170.8	1071.1	960.3	838.8	709.1	580.9	450.9	44.5
26°	1353.1	1340.4	1306.1	1232.2	1133.7	1016.9	880.3	741.9	601.4	462.8	42.9
27°	1413.0	1403.9	1357.8	1280.9	1178.0	1048.8	906.9	758.2	610.8	466.7	40.9
28°	1453.2	1443.3	1394.3	1315.1	1202.5	1068.9	921.0	765.1	610.8	462.9	39.0
29°	1474.0	1460.6	1411.7	1326.8	1208.1	1071.2	917.6	758.3	601.2	451.4	36.8
30°	1472.5	1455.7	1404.5	1316.2	1191.4	1052.0	898.3	734.0	579.6	434.1	34.3
31°	1447.1	1428.3	1371.1	1280.2	1156.7	1015.6	862.0	701.5	550.0	411.7	31.8
32°	1395.6	1371.8	1316.0	1225.3	1103.5	961.3	809.2	651.2	505.7	379.0	29.1
33°	1311.6	1287.7	1227.8	1142.8	1031.5	892.4	739.2	597.2	455.3	340.0	26.9
34°	1206.5	1184.6	1133.1	1047.4	940.6	805.1	658.7	522.5	403.0	301.3	24.6
35°	1086.3	1051.3	1004.7	936.9	832.7	696.5	571.8	452.9	349.1	260.8	22.1
36°	923.5	929.8	880.3	797.3	711.0	604.2	484.6	377.6	291.9	222.2	19.9
37°	779.3	769.4	738.0	673.7	598.6	492.5	406.1	320.1	245.6	187.9	17.5
38°	628.6	630.8	600.0	550.6	476.1	405.0	326.9	263.0	205.5	159.9	15.3
39°	492.1	490.4	482.1	436.3	368.8	322.2	264.8	218.0	171.2	134.8	13.0
40°	370.7	373.5	354.1	326.5	287.2	248.9	211.0	173.8	141.6	113.7	10.2
42.5°	180.3	184.6	171.8	164.8	147.4	132.3	111.7	91.1	77.5	67.0	4.5
45°	87.9	85.4	84.3	80.8	76.7	68.6	60.8	52.2	45.6	39.3	2.8
47.5°	44.9	43.7	43.7	42.3	40.9	38.2	34.3	31.5	28.3	24.4	1.1
50°	13.5	13.3	13.2	13.3	12.8	13.3	13.6	13.8	12.5	12.4	0.3
52.5°	5.3	5.5	5.3	5.8	5.8	5.6	5.8	5.6	5.5	4.9	0.0
55°	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.9	1.7	1.9	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



TEST NUMBER: P1336447

CATALOG NUMBER: P3A05R159827DE010 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	0.2
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: P1336447

CATALOG NUMBER: P3A05R159827DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.3	5.3	5.3	5.3	5.3	5.3
2.5°	6.3	5.5	4.5	3.8	3.4	3.3
5°	6.7	5.0	3.4	2.7	2.3	2.2
7.5°	7.2	4.5	2.7	1.9	1.4	1.3
10°	7.5	3.9	2.0	1.1	0.8	0.8
12.5°	7.5	3.1	1.4	0.6	0.5	0.5
15°	7.4	2.7	0.9	0.5	0.3	0.3
17.5°	7.2	2.0	0.6	0.3	0.2	0.3
20°	6.7	1.6	0.3	0.2	0.2	0.2
21°	6.6	1.4	0.3	0.2	0.2	0.2
22°	6.3	1.3	0.2	0.0	0.2	0.2
23°	6.0	0.9	0.2	0.0	0.0	0.0
24°	5.5	0.8	0.2	0.0	0.0	0.0
25°	5.2	0.8	0.2	0.0	0.0	0.0
26°	4.9	0.5	0.0	0.0	0.0	0.0
27°	4.4	0.3	0.0	0.0	0.0	0.0
28°	4.1	0.3	0.0	0.0	0.0	0.0
29°	3.6	0.3	0.0	0.0	0.0	0.0
30°	3.1	0.3	0.0	0.0	0.0	0.0
31°	2.5	0.2	0.0	0.0	0.0	0.0
32°	2.0	0.2	0.0	0.0	0.0	0.0
33°	1.4	0.2	0.0	0.0	0.0	0.0
34°	0.9	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	0.6
55°	0.2	0.3	0.3	0.5	0.6	0.8
57.5°	0.2	0.5	0.5	0.6	0.8	0.8
60°	0.3	0.5	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	0.8	0.9	0.9
67.5°	0.3	0.6	0.6	0.6	0.8	0.9
70°	0.3	0.6	0.5	0.6	0.8	0.8
72.5°	0.3	0.6	0.5	0.5	0.6	0.8
75°	0.3	0.6	0.5	0.5	0.6	0.6
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: P1336447

CATALOG NUMBER: P3A05R159827DE010 E3A301GPH

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)