

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: P1346007

Luminaire Tested: P3A13R409727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

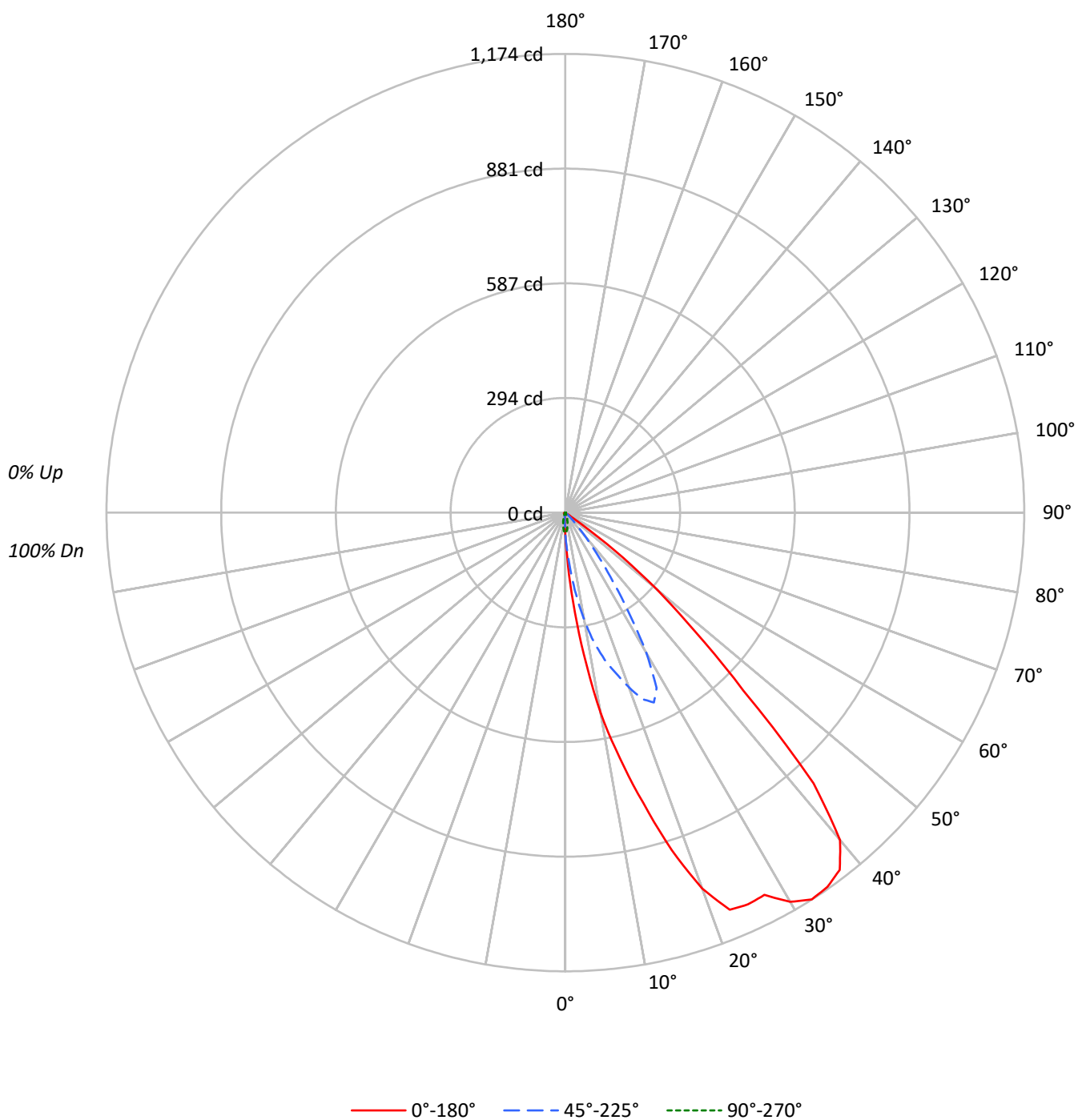
Lumens per Lamp: N/A
Luminaire Lumens: 433.0 lumens
Efficiency: N/A
Efficacy: 29.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1346007

CATALOG NUMBER: P3A13R409727DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1346007

CATALOG NUMBER: P3A13R409727DE010 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	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11227	11227	11227	11227	11227
5°	50671	32313	10059	3874	2818
10°	116208	62413	7081	1381	1069
15°	174394	88559	4404	749	658
20°	238767	111030	2567	420	513
25°	267669	129709	1331	363	436
30°	291159	104700	557	279	456
35°	312906	53592	187	402	589
40°	313015	21383	115	429	744
45°	199866	7164	217	682	1023
50°	103741	887	375	887	1262
55°	8946	153	421	1109	1529
60°	307	175	482	1272	1754
65°	363	208	778	1349	1920
70°	256	256	962	1410	1859
75°	339	339	932	1525	2203
80°	505	505	1389	1389	1894
85°	0	1006	2768	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 199866 cd/sqm

TEST NUMBER: P1346007

CATALOG NUMBER: P3A13R409727DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	2.3
10°-20°	58.6	13.5
20°-30°	128.4	29.6
30°-40°	146.2	33.8
40°-50°	77.2	17.8
50°-60°	9.1	2.1
60°-70°	1.6	0.4
70°-80°	1.4	0.3
80°-90°	0.6	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°	196.9	45.5
0°-40°	343.2	79.2
0°-60°	429.4	99.2
0°-90°	433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	433.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	230	147	46	18	13	31
15°	768	390	19	3	3	226
25°	1106	536	6	2	2	510
35°	1169	200	1	2	2	724
45°	644	23	1	2	3	520
55°	23	0	1	3	4	73
65°	1	0	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1346007

CATALOG NUMBER: P3A13R409727DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	114.2	114.2	113.8	110.5	110.2	109.8	103.9	102.5	95.5	90.8	69.2
5°	230.2	225.1	224.7	218.8	209.0	195.8	187.4	173.8	160.7	146.8	85.3
7.5°	366.7	371.1	359.0	352.8	330.8	315.1	290.9	269.7	240.1	212.3	98.4
10°	521.9	514.2	502.1	490.0	466.2	438.1	402.2	364.5	321.7	280.3	105.8
12.5°	643.0	633.1	625.8	609.3	585.9	549.7	506.9	456.4	399.6	340.0	105.4
15°	768.2	758.3	741.8	727.2	692.4	651.8	605.3	538.7	469.2	390.1	97.7
17.5°	905.8	893.0	874.7	852.3	818.7	773.6	714.7	633.5	535.0	431.1	83.8
20°	1023.2	1015.5	997.3	970.9	938.0	894.0	826.0	736.0	615.9	475.8	66.6
22.5°	1100.1	1093.1	1080.7	1057.6	1032.8	985.9	923.7	824.9	683.6	516.4	50.5
25°	1106.3	1103.4	1100.1	1092.4	1077.4	1044.1	983.3	876.8	725.7	536.1	37.3
27.5°	1103.0	1101.9	1101.2	1097.2	1087.3	1054.3	992.1	884.5	720.2	505.4	27.4
30°	1149.9	1146.6	1144.7	1131.6	1105.6	1054.7	973.5	843.2	640.1	413.5	19.8
32.5°	1173.6	1172.9	1171.1	1158.3	1121.7	1055.4	942.0	743.3	507.6	298.6	13.5
35°	1168.9	1165.2	1158.6	1134.9	1084.0	1000.9	840.3	593.6	366.3	200.2	8.8
37.5°	1152.8	1144.4	1131.6	1088.7	1021.0	907.6	681.4	437.0	249.2	129.6	5.1
40°	1093.5	1082.2	1062.0	1009.7	920.8	748.0	503.9	295.3	163.6	74.7	1.5
42.5°	940.2	925.5	910.9	852.3	750.6	557.7	331.6	182.6	93.3	41.0	0.4
45°	644.5	626.2	606.0	563.6	482.0	337.8	197.3	102.8	48.3	23.1	0.4
47.5°	447.6	439.2	404.0	349.9	268.3	179.0	102.1	50.5	25.6	10.6	0.4
50°	304.1	294.6	253.6	201.3	142.7	85.6	46.8	25.3	11.3	2.6	0.4
52.5°	159.6	147.8	121.9	93.0	57.8	35.9	20.5	11.0	3.3	0.4	0.4
55°	23.4	21.6	17.6	14.3	12.8	9.9	5.9	2.6	0.4	0.4	0.7
57.5°	0.7	0.7	0.7	0.7	1.1	1.1	0.7	0.4	0.4	0.4	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
67.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.1
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
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: P1346007

CATALOG NUMBER: P3A13R409727DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	51.2	51.2	51.2	51.2	51.2
2.5°	50.5	37.3	28.9	24.9	24.5
5°	45.7	26.7	17.6	13.5	12.8
7.5°	38.8	18.7	10.2	7.3	7.0
10°	31.8	12.8	6.2	5.1	4.8
12.5°	25.3	8.4	4.4	4.0	3.7
15°	19.4	5.5	3.3	2.9	2.9
17.5°	14.6	3.7	2.6	2.6	2.6
20°	11.0	2.6	1.8	2.2	2.2
22.5°	7.7	1.8	1.5	1.8	1.8
25°	5.5	1.5	1.5	1.8	1.8
27.5°	3.7	1.1	1.1	1.5	1.8
30°	2.2	0.7	1.1	1.5	1.8
32.5°	1.1	0.7	1.1	1.8	1.8
35°	0.7	1.1	1.5	1.8	2.2
37.5°	0.4	1.1	1.5	2.2	2.2
40°	0.4	1.1	1.5	2.2	2.6
42.5°	0.7	1.5	1.8	2.6	2.9
45°	0.7	1.5	2.2	2.9	3.3
47.5°	0.7	1.5	2.6	3.3	3.3
50°	1.1	1.8	2.6	3.3	3.7
52.5°	1.1	1.8	2.6	3.7	4.0
55°	1.1	1.8	2.9	3.7	4.0
57.5°	1.1	2.2	2.9	3.7	4.0
60°	1.1	1.8	2.9	3.7	4.0
62.5°	1.5	1.8	2.6	3.7	3.7
65°	1.5	1.8	2.6	3.7	3.7
67.5°	1.5	1.8	2.6	3.3	3.3
70°	1.5	1.8	2.2	2.9	2.9
72.5°	1.5	1.8	2.2	2.6	2.9
75°	1.1	1.5	1.8	2.2	2.6
77.5°	1.1	1.5	1.5	2.2	2.2
80°	1.1	1.1	1.1	1.5	1.5
82.5°	1.1	1.1	0.7	1.1	1.1
85°	1.1	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)