

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: P1344999

Luminaire Tested: P3A13R309730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

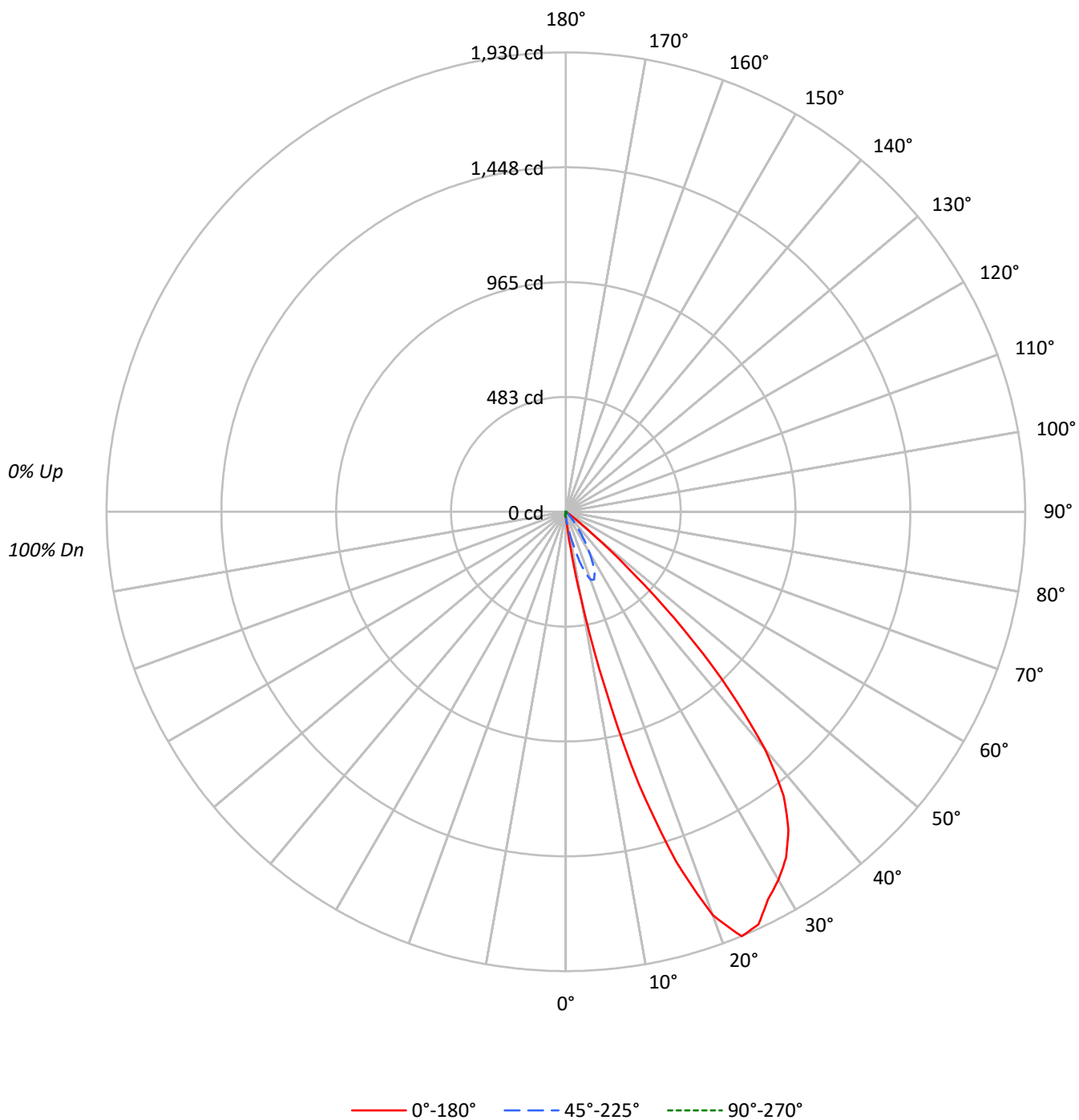
Lumens per Lamp: N/A
Luminaire Lumens: 454.9 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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	95	92	104	98	94	90	95	92	88	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	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	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	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	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°	4736	4736	4736	4736	4736
5°	14286	9509	4490	2003	1651
10°	82675	20173	3518	935	646
15°	268901	45766	2452	182	91
20°	420783	70823	1563	0	0
25°	462946	69198	798	0	0
30°	452146	49906	304	0	0
35°	436392	28375	107	0	0
40°	372154	12023	0	0	0
45°	218410	4528	124	0	124
50°	53047	853	136	136	409
55°	4626	0	306	459	650
60°	175	0	351	526	921
65°	208	208	623	623	1090
70°	256	256	769	769	1090
75°	0	339	1017	1017	1017
80°	0	505	1515	1010	1010
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 218410 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.9
10°-20°	62.5	13.7
20°-30°	158.9	34.9
30°-40°	158.4	34.8
40°-50°	64.2	14.1
50°-60°	4.4	1.0
60°-70°	1.0	0.2
70°-80°	1.0	0.2
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°	225.4	49.6
0°-40°	383.8	84.4
0°-60°	452.4	99.4
0°-90°	454.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	65	43	20	9	8	15
15°	1184	202	11	1	0	345
25°	1913	286	3	0	0	864
35°	1630	106	0	0	0	999
45°	704	15	0	0	0	537
55°	12	0	1	1	2	32
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
2.5°	35.8	36.2	36.2	35.3	34.9	34.9	33.7	33.3	32.0	30.8	26.6
5°	64.9	63.6	61.9	61.9	58.2	56.1	53.2	49.9	47.4	43.2	30.8
7.5°	147.2	137.2	134.3	130.6	116.4	105.2	92.3	81.1	70.7	61.9	34.1
10°	371.3	351.7	335.5	302.7	261.5	222.0	185.4	143.0	113.9	90.6	36.6
12.5°	748.0	721.8	690.6	630.7	553.8	455.3	368.0	274.8	192.9	133.5	37.4
15°	1184.5	1140.0	1091.4	1015.3	889.3	748.0	590.4	442.0	309.7	201.6	36.6
17.5°	1540.4	1523.0	1451.0	1347.1	1192.8	1010.7	816.6	613.7	417.8	264.0	34.1
20°	1803.2	1791.1	1704.2	1593.6	1419.8	1211.1	964.6	720.9	493.1	303.5	30.4
22.5°	1930.0	1927.9	1865.1	1752.0	1567.9	1331.3	1059.8	782.9	516.4	308.9	25.4
25°	1913.4	1920.8	1885.1	1801.1	1624.4	1380.8	1088.1	782.9	499.3	286.0	21.2
27.5°	1837.7	1842.7	1820.2	1755.8	1591.1	1345.0	1048.6	732.6	449.9	245.7	17.5
30°	1785.7	1787.8	1759.9	1690.9	1516.3	1263.5	955.4	639.4	375.0	197.1	12.9
32.5°	1722.5	1722.1	1689.7	1610.7	1418.2	1149.2	837.4	528.4	288.1	149.7	7.5
35°	1630.2	1619.8	1575.8	1484.7	1271.8	995.3	686.4	402.5	207.5	106.0	4.6
37.5°	1503.4	1476.4	1414.0	1292.2	1066.4	780.4	508.9	282.7	141.8	70.3	2.9
40°	1300.1	1271.4	1186.6	1038.6	806.6	561.7	343.0	184.2	89.4	42.0	1.7
42.5°	1019.5	999.9	885.6	738.0	532.6	358.4	206.2	108.9	50.3	24.1	0.4
45°	704.3	678.9	589.1	464.0	319.7	198.7	115.6	57.0	28.7	14.6	0.0
47.5°	388.7	357.6	305.6	240.3	160.9	104.4	58.2	30.8	16.2	7.1	0.0
50°	155.5	154.2	122.7	87.3	61.5	47.4	29.1	16.6	8.3	2.5	0.4
52.5°	54.5	54.5	47.0	38.3	29.9	21.6	14.6	7.9	2.9	0.8	0.4
55°	12.1	13.3	12.5	11.6	11.2	9.6	6.2	2.9	0.8	0.0	0.4
57.5°	1.2	1.2	1.2	1.7	2.1	2.1	1.7	0.8	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.2
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	21.6	21.6	21.6	21.6	21.6
2.5°	21.6	17.0	14.1	12.5	12.1
5°	20.4	12.9	9.1	7.9	7.5
7.5°	18.3	9.6	6.2	5.0	4.6
10°	15.8	7.1	4.2	2.9	2.9
12.5°	13.3	5.4	2.5	1.2	0.8
15°	10.8	3.3	0.8	0.4	0.4
17.5°	8.3	2.1	0.0	0.0	0.0
20°	6.7	0.8	0.0	0.0	0.0
22.5°	5.0	0.4	0.0	0.0	0.0
25°	3.3	0.0	0.0	0.0	0.0
27.5°	2.1	0.0	0.0	0.0	0.0
30°	1.2	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.8	0.8
50°	0.4	0.4	0.4	0.8	1.2
52.5°	0.8	0.4	0.8	1.2	1.2
55°	0.8	0.8	1.2	1.7	1.7
57.5°	0.8	0.8	1.2	1.7	1.7
60°	0.8	0.8	1.2	1.7	2.1
62.5°	1.2	1.2	1.2	1.7	1.7
65°	1.2	1.2	1.2	1.7	2.1
67.5°	1.2	1.2	1.2	1.7	2.1
70°	1.2	1.2	1.2	1.7	1.7
72.5°	1.7	1.2	1.2	1.7	1.7
75°	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	0.8	1.2	1.2
80°	1.2	0.8	0.8	0.8	0.8
82.5°	1.2	0.8	0.8	0.8	0.8
85°	1.2	0.8	0.4	0.4	0.4
87.5°	1.2	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)