

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: P1345991

Luminaire Tested: P3A13R409050DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345991
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: P3A13R409050DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

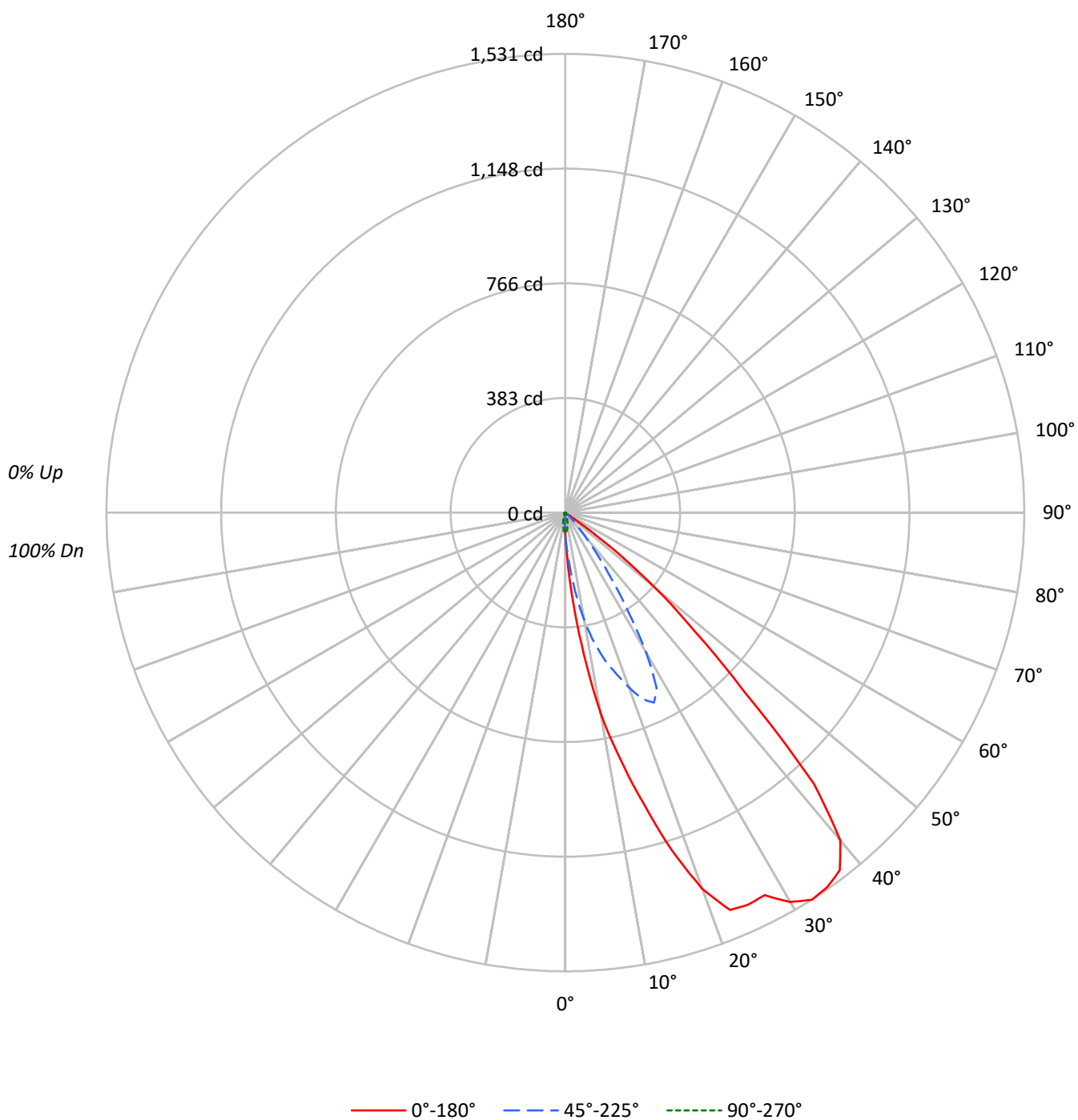
Lumens per Lamp: N/A
Luminaire Lumens: 565.0 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	14670	14670	14670	14670	14670
5°	66124	42153	13141	5041	3676
10°	151634	81450	9241	1804	1381
15°	227538	115551	5744	976	863
20°	311574	144866	3337	560	677
25°	349278	169268	1742	460	581
30°	379907	136629	734	354	608
35°	408284	69921	268	509	776
40°	408451	27881	143	544	945
45°	260771	9334	310	899	1333
50°	135364	1126	478	1126	1637
55°	11699	191	535	1453	2026
60°	439	219	614	1667	2324
65°	519	259	986	1712	2491
70°	321	321	1218	1859	2436
75°	424	424	1186	2033	2796
80°	631	631	1768	1768	2399
85°	0	1258	3522	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 260771 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	2.3
10°-20°	76.5	13.5
20°-30°	167.5	29.6
30°-40°	190.8	33.8
40°-50°	100.7	17.8
50°-60°	11.9	2.1
60°-70°	2.1	0.4
70°-80°	1.8	0.3
80°-90°	0.8	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°	257.0	45.5
0°-40°	447.8	79.2
0°-60°	560.3	99.2
0°-90°	565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	300	192	60	23	17	40
15°	1002	509	25	4	4	295
25°	1444	700	7	2	2	665
35°	1525	261	1	2	3	945
45°	841	30	1	3	4	678
55°	31	0	1	4	5	95
65°	1	0	2	3	5	1
75°	0	0	1	2	3	1
85°	0	0	1	1	1	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°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2.5°	149.0	149.0	148.5	144.2	143.7	143.3	135.6	133.7	124.6	118.4	90.3
5°	300.4	293.7	293.2	285.6	272.7	255.5	244.5	226.8	209.6	191.5	111.3
7.5°	478.5	484.2	468.5	460.3	431.7	411.2	379.6	351.9	313.3	277.0	128.5
10°	681.0	670.9	655.2	639.4	608.4	571.6	524.8	475.6	419.7	365.8	138.0
12.5°	839.0	826.1	816.6	795.1	764.5	717.2	661.4	595.5	521.5	443.6	137.5
15°	1002.3	989.4	967.9	948.8	903.5	850.5	789.8	702.9	612.2	509.0	127.5
17.5°	1181.9	1165.2	1141.3	1112.2	1068.2	1009.5	932.6	826.6	698.1	562.5	109.4
20°	1335.2	1325.1	1301.3	1266.9	1223.9	1166.6	1077.8	960.3	803.7	620.8	86.9
22.5°	1435.4	1426.4	1410.1	1380.1	1347.6	1286.5	1205.3	1076.3	892.0	673.8	65.9
25°	1443.6	1439.7	1435.4	1425.4	1405.8	1362.4	1283.1	1144.2	946.9	699.6	48.7
27.5°	1439.3	1437.8	1436.9	1431.6	1418.7	1375.8	1294.6	1154.2	939.8	659.5	35.8
30°	1500.4	1496.1	1493.7	1476.5	1442.6	1376.2	1270.2	1100.2	835.2	539.6	25.8
32.5°	1531.4	1530.5	1528.1	1511.4	1463.6	1377.2	1229.2	969.9	662.3	389.7	17.7
35°	1525.2	1520.4	1511.9	1480.8	1414.4	1306.0	1096.4	774.6	478.0	261.2	11.5
37.5°	1504.2	1493.2	1476.5	1420.6	1332.3	1184.3	889.2	570.2	325.2	169.0	6.7
40°	1426.9	1412.1	1385.8	1317.5	1201.5	976.1	657.6	385.4	213.5	97.4	1.9
42.5°	1226.8	1207.7	1188.6	1112.2	979.4	727.8	432.6	238.3	121.8	53.5	0.5
45°	840.9	817.1	790.8	735.4	628.9	440.8	257.4	134.2	63.0	30.1	0.5
47.5°	584.0	573.0	527.2	456.5	350.0	233.5	133.2	65.9	33.4	13.8	0.5
50°	396.8	384.4	330.9	262.6	186.2	111.7	61.1	32.9	14.8	3.3	0.5
52.5°	208.2	192.9	159.0	121.3	75.4	46.8	26.7	14.3	4.3	0.5	0.5
55°	30.6	28.2	22.9	18.6	16.7	12.9	7.6	3.3	0.5	0.5	1.0
57.5°	1.0	1.0	1.0	1.0	1.4	1.4	1.0	0.5	0.5	0.5	1.0
60°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.4
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.4
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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°	66.9	66.9	66.9	66.9	66.9
2.5°	65.9	48.7	37.7	32.5	32.0
5°	59.7	34.9	22.9	17.7	16.7
7.5°	50.6	24.4	13.4	9.6	9.1
10°	41.5	16.7	8.1	6.7	6.2
12.5°	32.9	11.0	5.7	5.3	4.8
15°	25.3	7.2	4.3	3.8	3.8
17.5°	19.1	4.8	3.3	3.3	3.3
20°	14.3	3.3	2.4	2.9	2.9
22.5°	10.0	2.4	1.9	2.4	2.4
25°	7.2	1.9	1.9	2.4	2.4
27.5°	4.8	1.4	1.4	1.9	2.4
30°	2.9	1.0	1.4	1.9	2.4
32.5°	1.4	1.0	1.4	2.4	2.4
35°	1.0	1.4	1.9	2.4	2.9
37.5°	0.5	1.4	1.9	2.9	2.9
40°	0.5	1.4	1.9	2.9	3.3
42.5°	1.0	1.9	2.4	3.3	3.8
45°	1.0	1.9	2.9	3.8	4.3
47.5°	1.0	1.9	3.3	4.3	4.3
50°	1.4	2.4	3.3	4.3	4.8
52.5°	1.4	2.4	3.3	4.8	5.3
55°	1.4	2.4	3.8	4.8	5.3
57.5°	1.4	2.9	3.8	4.8	5.3
60°	1.4	2.4	3.8	4.8	5.3
62.5°	1.9	2.4	3.3	4.8	4.8
65°	1.9	2.4	3.3	4.8	4.8
67.5°	1.9	2.4	3.3	4.3	4.3
70°	1.9	2.4	2.9	3.8	3.8
72.5°	1.9	2.4	2.9	3.3	3.8
75°	1.4	1.9	2.4	2.9	3.3
77.5°	1.4	1.9	1.9	2.9	2.9
80°	1.4	1.4	1.4	1.9	1.9
82.5°	1.4	1.4	1.0	1.4	1.4
85°	1.4	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)