

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: P1336899

Luminaire Tested: P3A05R209730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R209730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

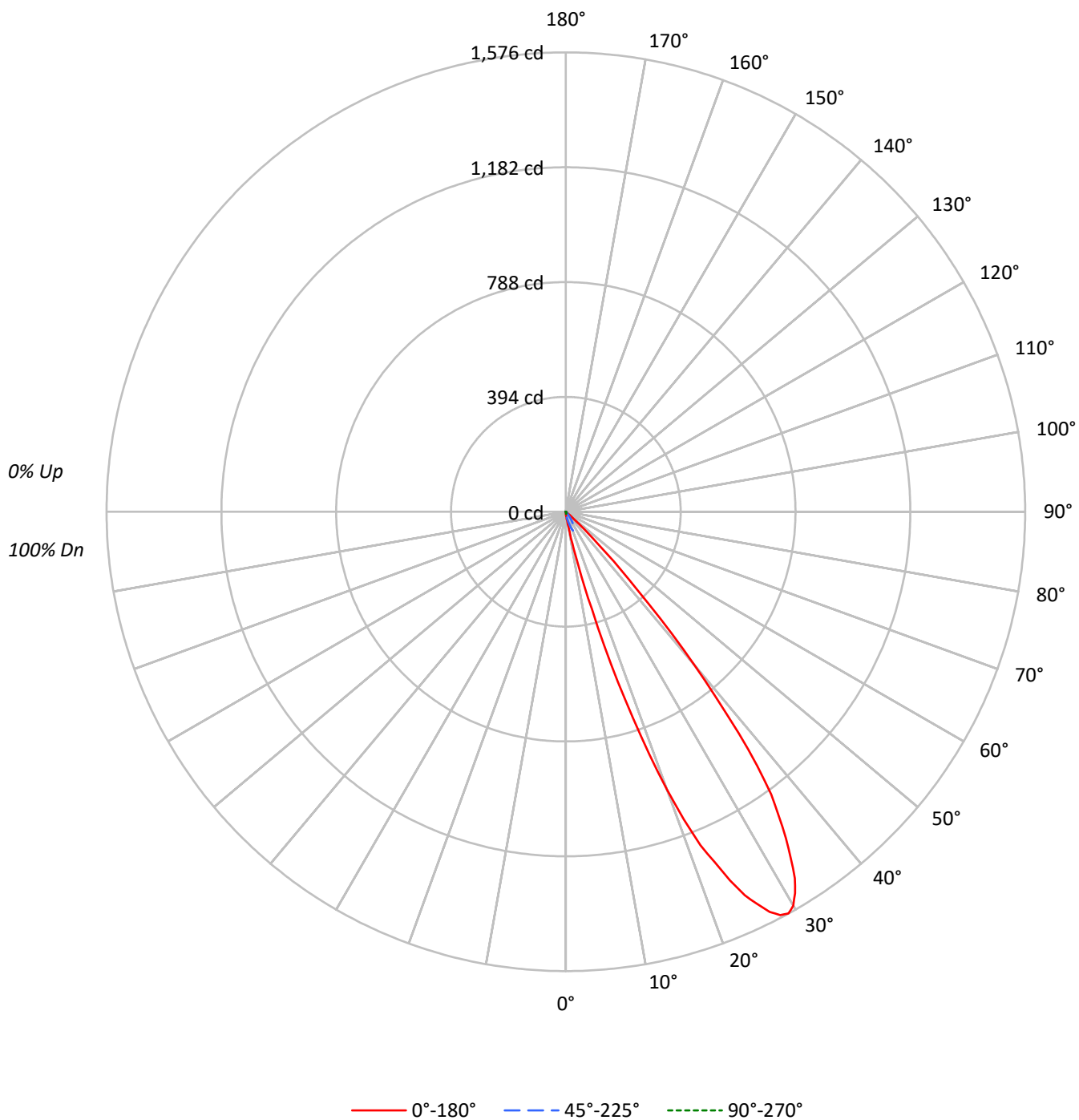
Lumens per Lamp: N/A
Luminaire Lumens: 221.0 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1667	1667	1667	1667	1667
5°	3830	2862	1585	969	836
10°	12091	5010	1291	534	401
15°	78389	9240	953	182	45
20°	236551	15821	653	0	0
25°	351311	15969	387	0	0
30°	395073	12128	152	0	0
35°	340879	7254	107	0	0
40°	196282	2462	0	0	0
45°	47881	992	62	0	62
50°	5731	273	68	68	205
55°	765	0	153	153	306
60°	88	0	263	263	439
65°	104	104	415	415	623
70°	128	128	513	513	641
75°	0	169	678	508	678
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 48191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	20.5	9.3
20°-30°	89.3	40.4
30°-40°	89.9	40.7
40°-50°	18.0	8.2
50°-60°	0.9	0.4
60°-70°	0.6	0.3
70°-80°	0.5	0.2
80°-90°	0.3	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°	110.8	50.1
0°-40°	200.7	90.8
0°-60°	219.6	99.4
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	13	7	4	4	3
15°	345	41	4	1	0	135
25°	1452	66	2	0	0	655
35°	1273	27	0	0	0	758
45°	154	3	0	0	0	168
55°	2	0	0	0	1	4
65°	0	0	1	1	1	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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	11.4	11.4	11.2	11.2	11.0	11.2	10.8	11.0	11.0	10.8	9.8
5°	17.4	17.8	17.6	17.6	17.4	17.6	17.2	16.8	16.4	16.4	13.0
7.5°	28.7	28.5	28.1	28.3	27.7	27.3	26.9	26.7	25.5	24.9	17.0
10°	54.3	55.5	54.5	54.3	50.7	50.5	48.1	44.7	41.7	40.1	22.5
12.5°	149.6	156.0	146.0	141.2	138.3	127.5	122.9	111.1	99.6	91.0	28.5
15°	345.3	361.1	340.8	342.3	325.4	294.5	267.5	244.2	216.7	189.1	40.7
17.5°	676.5	663.7	652.6	634.0	599.7	554.4	496.0	436.9	385.8	332.2	56.7
20°	1013.7	1002.3	977.2	936.5	892.8	825.7	756.3	667.5	581.4	500.8	67.8
21°	1129.8	1126.0	1084.9	1059.8	992.5	928.3	848.3	753.3	656.4	561.0	69.6
22°	1233.5	1210.6	1188.6	1151.5	1084.5	1014.7	925.7	825.7	720.6	614.5	69.8
23°	1305.3	1294.8	1274.0	1232.1	1165.5	1083.5	989.7	885.0	774.3	652.4	69.2
24°	1384.6	1371.4	1340.9	1292.0	1224.9	1143.8	1036.8	932.9	812.6	684.3	67.6
25°	1452.0	1431.4	1395.3	1342.5	1269.2	1185.6	1077.9	963.8	839.3	705.8	66.0
26°	1495.7	1484.5	1438.2	1380.8	1302.2	1216.0	1106.2	987.5	856.5	715.6	63.4
27°	1541.2	1520.6	1475.1	1409.1	1323.9	1235.9	1122.2	998.9	862.5	716.0	60.1
28°	1567.3	1544.8	1493.3	1423.9	1337.9	1246.9	1131.4	1002.5	861.3	709.8	56.3
29°	1575.5	1547.3	1496.9	1426.4	1341.3	1247.7	1130.0	997.3	850.7	694.5	51.9
30°	1560.3	1531.4	1483.7	1414.9	1330.5	1237.7	1117.0	980.0	831.9	672.7	47.9
31°	1527.0	1502.5	1456.4	1387.5	1306.5	1214.2	1087.5	951.8	799.8	643.4	43.3
32°	1483.1	1459.0	1413.7	1351.4	1269.0	1175.9	1047.2	907.7	762.1	599.7	38.7
33°	1417.1	1403.3	1362.6	1303.0	1220.6	1121.2	993.1	854.9	708.4	551.2	34.7
34°	1350.4	1332.9	1304.4	1239.3	1150.7	1051.4	922.5	782.1	642.8	496.8	30.9
35°	1273.4	1262.9	1218.2	1166.1	1077.1	975.6	847.5	711.4	566.4	436.3	27.1
36°	1198.8	1182.7	1131.8	1076.7	990.3	880.6	754.1	626.2	500.4	379.5	23.1
37°	1090.5	1066.1	1029.8	971.6	870.6	777.1	661.6	543.0	419.2	318.2	18.6
38°	963.2	951.8	901.4	842.9	759.3	670.7	556.4	455.7	345.9	265.7	14.2
39°	813.0	812.8	764.7	722.4	640.6	560.8	457.7	369.9	285.5	213.9	11.0
40°	685.7	662.0	632.4	579.2	516.5	448.7	358.5	289.5	221.6	172.4	8.6
42.5°	359.5	357.5	340.0	300.1	265.1	225.2	179.0	149.2	116.7	95.0	5.4
45°	154.4	155.4	143.4	137.3	123.7	107.1	90.4	75.4	64.6	52.3	3.2
47.5°	39.1	37.5	37.1	38.5	38.5	37.3	33.5	31.5	29.1	26.7	1.8
50°	16.8	16.4	16.0	16.0	15.0	14.4	13.4	12.2	11.2	10.0	0.8
52.5°	6.2	6.4	6.6	6.4	6.4	6.2	6.2	6.0	5.4	4.8	0.4
55°	2.0	2.0	2.0	2.2	2.2	2.4	2.4	2.4	2.4	2.2	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
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	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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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

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	8.8	7.8	6.6	5.6	5.4	5.2
5°	9.8	7.2	5.4	4.4	4.0	3.8
7.5°	10.6	6.6	4.4	3.2	2.8	2.6
10°	11.0	5.8	3.6	2.4	1.8	1.8
12.5°	11.2	5.0	2.6	1.6	1.0	1.0
15°	11.0	4.2	2.0	0.8	0.2	0.2
17.5°	10.0	3.4	1.2	0.2	0.0	0.0
20°	8.6	2.8	0.8	0.0	0.0	0.0
21°	8.2	2.4	0.6	0.0	0.0	0.0
22°	7.6	2.2	0.4	0.0	0.0	0.0
23°	7.0	2.0	0.4	0.0	0.0	0.0
24°	6.4	1.8	0.2	0.0	0.0	0.0
25°	6.0	1.6	0.2	0.0	0.0	0.0
26°	5.6	1.4	0.2	0.0	0.0	0.0
27°	5.0	1.2	0.0	0.0	0.0	0.0
28°	4.6	1.0	0.0	0.0	0.0	0.0
29°	4.0	0.8	0.0	0.0	0.0	0.0
30°	3.4	0.6	0.0	0.0	0.0	0.0
31°	2.8	0.6	0.0	0.0	0.0	0.0
32°	2.4	0.4	0.0	0.0	0.0	0.0
33°	2.0	0.4	0.0	0.0	0.0	0.0
34°	1.8	0.4	0.0	0.0	0.0	0.0
35°	1.6	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.2	0.0	0.0	0.0	0.0
37°	1.0	0.2	0.0	0.0	0.0	0.0
38°	0.8	0.2	0.0	0.0	0.0	0.0
39°	0.6	0.0	0.0	0.0	0.0	0.0
40°	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.2	0.6	0.6
55°	0.2	0.4	0.2	0.4	0.8	0.8
57.5°	0.2	0.4	0.4	0.6	0.8	1.0
60°	0.4	0.6	0.6	0.6	1.0	1.0
62.5°	0.4	0.6	0.8	0.8	1.0	1.2
65°	0.4	0.8	0.8	0.8	1.0	1.2
67.5°	0.6	0.8	0.8	0.8	1.0	1.2
70°	0.6	0.8	0.8	0.8	1.0	1.0
72.5°	0.6	0.8	0.6	0.8	0.8	1.0
75°	0.6	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)