

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: P1336811

Luminaire Tested: P3A05R209030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336811
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: P3A05R209030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

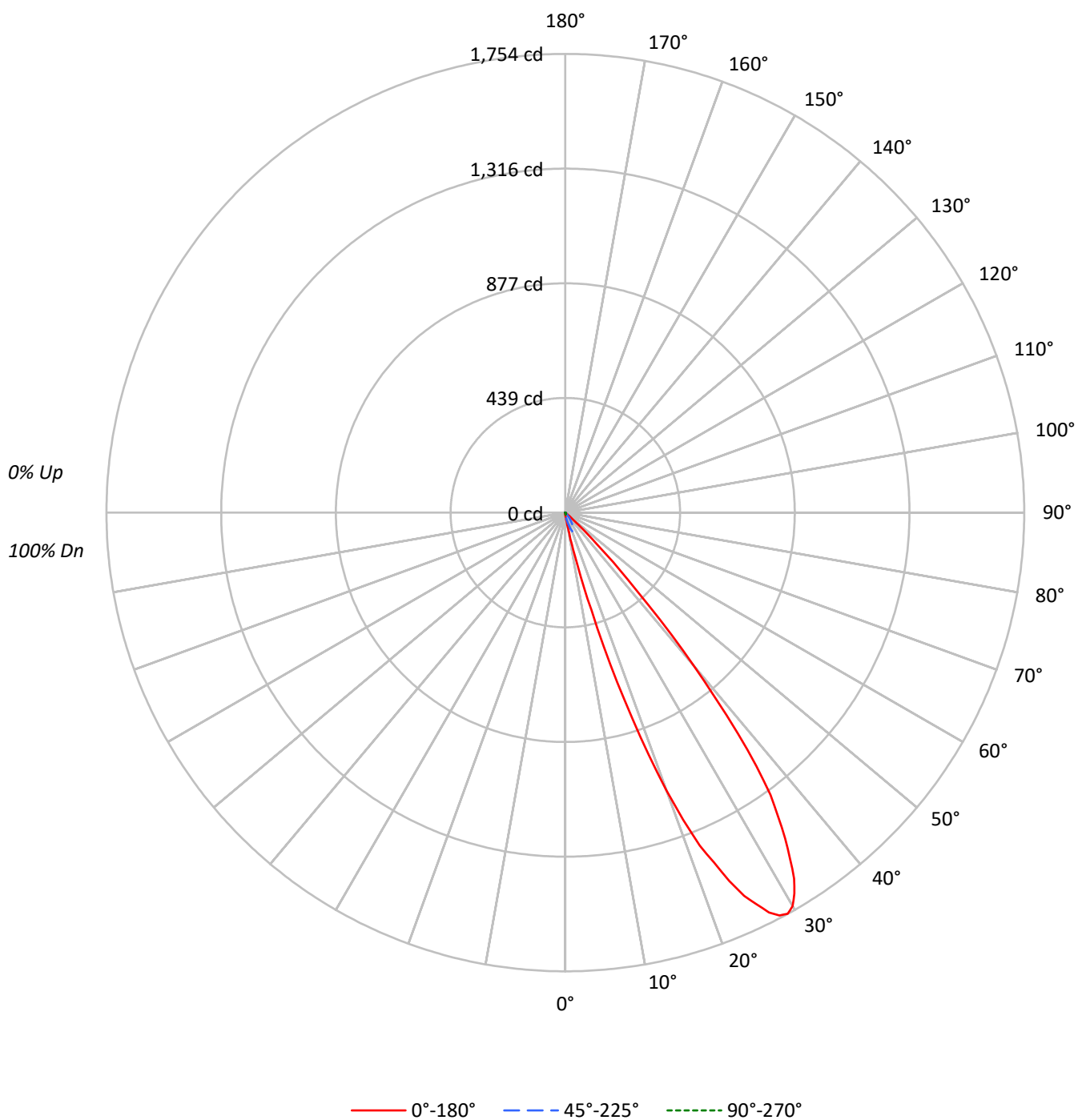
Lumens per Lamp: N/A
Luminaire Lumens: 246.0 lumens
Efficiency: N/A
Efficacy: 22.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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°	1864	1864	1864	1864	1864
5°	4270	3192	1761	1079	924
10°	13471	5567	1447	601	445
15°	87242	10284	1067	204	45
20°	263316	17595	723	0	0
25°	391063	17759	436	0	0
30°	439764	13496	177	0	0
35°	379427	8058	107	0	0
40°	218495	2748	0	0	0
45°	53277	1116	62	0	62
50°	6379	307	68	68	239
55°	841	0	153	153	344
60°	88	0	307	307	482
65°	104	104	467	467	675
70°	128	128	577	577	705
75°	0	169	763	593	763
80°	0	253	884	505	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 53649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	22.8	9.3
20°-30°	99.4	40.4
30°-40°	100.1	40.7
40°-50°	20.1	8.2
50°-60°	1.0	0.4
60°-70°	0.7	0.3
70°-80°	0.6	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°	123.3	50.1
0°-40°	223.4	90.8
0°-60°	244.4	99.4
0°-90°	246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	246.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	19	14	8	5	4	3
15°	384	45	5	1	0	151
25°	1616	73	2	0	0	729
35°	1417	30	0	0	0	843
45°	172	4	0	0	0	187
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°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	12.7	12.7	12.5	12.5	12.3	12.5	12.1	12.3	12.3	12.1	10.9
5°	19.4	19.9	19.6	19.6	19.4	19.6	19.2	18.7	18.3	18.3	14.5
7.5°	31.9	31.7	31.2	31.5	30.8	30.4	29.9	29.7	28.3	27.7	19.0
10°	60.5	61.8	60.7	60.5	56.5	56.2	53.6	49.8	46.4	44.6	25.0
12.5°	166.5	173.6	162.5	157.1	154.0	141.9	136.8	123.6	110.9	101.3	31.7
15°	384.3	401.9	379.4	381.0	362.2	327.9	297.7	271.8	241.3	210.5	45.3
17.5°	753.0	738.7	726.5	705.7	667.5	617.1	552.1	486.3	429.4	369.8	63.2
20°	1128.4	1115.7	1087.8	1042.5	993.8	919.1	841.8	743.0	647.2	557.5	75.4
21°	1257.6	1253.4	1207.6	1179.7	1104.7	1033.3	944.3	838.5	730.7	624.5	77.4
22°	1373.0	1347.6	1323.0	1281.7	1207.2	1129.5	1030.4	919.1	802.1	684.0	77.7
23°	1452.9	1441.3	1418.1	1371.4	1297.3	1206.1	1101.6	985.1	861.9	726.2	77.0
24°	1541.3	1526.6	1492.6	1438.2	1363.4	1273.2	1154.1	1038.5	904.5	761.7	75.2
25°	1616.3	1593.3	1553.1	1494.4	1412.7	1319.7	1199.8	1072.8	934.2	785.6	73.4
26°	1664.9	1652.4	1600.9	1537.0	1449.6	1353.6	1231.3	1099.2	953.4	796.5	70.5
27°	1715.6	1692.6	1641.9	1568.5	1473.7	1375.7	1249.1	1111.9	960.1	797.0	67.0
28°	1744.6	1719.6	1662.2	1585.0	1489.3	1388.0	1259.4	1115.9	958.8	790.1	62.7
29°	1753.8	1722.3	1666.3	1587.7	1493.1	1388.9	1257.8	1110.1	947.0	773.1	57.8
30°	1736.8	1704.7	1651.5	1575.0	1481.0	1377.7	1243.3	1090.9	926.0	748.8	53.3
31°	1699.7	1672.5	1621.2	1544.4	1454.2	1351.6	1210.5	1059.4	890.3	716.2	48.2
32°	1650.9	1624.1	1573.6	1504.2	1412.5	1309.0	1165.7	1010.3	848.3	667.5	43.1
33°	1577.4	1562.0	1516.7	1450.4	1358.7	1248.0	1105.4	951.6	788.5	613.5	38.6
34°	1503.1	1483.7	1452.0	1379.5	1280.8	1170.4	1026.9	870.6	715.5	553.0	34.4
35°	1417.4	1405.8	1356.0	1298.0	1198.9	1086.0	943.4	791.8	630.5	485.6	30.1
36°	1334.4	1316.5	1259.9	1198.5	1102.3	980.2	839.4	697.0	557.1	422.5	25.7
37°	1213.9	1186.6	1146.3	1081.5	969.0	865.0	736.5	604.4	466.7	354.2	20.8
38°	1072.2	1059.4	1003.4	938.2	845.2	746.5	619.3	507.3	385.0	295.7	15.8
39°	905.0	904.8	851.2	804.1	713.1	624.2	509.5	411.8	317.8	238.1	12.3
40°	763.3	736.9	703.9	644.8	574.9	499.5	399.0	322.3	246.6	191.9	9.6
42.5°	400.2	397.9	378.5	334.1	295.0	250.6	199.3	166.0	129.9	105.8	6.0
45°	171.8	173.0	159.6	152.9	137.7	119.2	100.7	83.9	71.9	58.3	3.6
47.5°	43.5	41.7	41.3	42.9	42.9	41.5	37.3	35.0	32.4	29.7	2.0
50°	18.7	18.3	17.9	17.9	16.7	16.1	15.0	13.6	12.5	11.2	0.9
52.5°	6.9	7.1	7.4	7.1	7.1	6.9	6.9	6.7	6.0	5.4	0.4
55°	2.2	2.2	2.2	2.5	2.5	2.7	2.7	2.7	2.7	2.5	0.0
57.5°	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	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°	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	9.8	8.7	7.4	6.2	6.0	5.8
5°	10.9	8.0	6.0	4.9	4.5	4.2
7.5°	11.8	7.4	4.9	3.6	3.1	2.9
10°	12.3	6.5	4.0	2.7	2.0	2.0
12.5°	12.5	5.6	2.9	1.8	1.1	1.1
15°	12.3	4.7	2.2	0.9	0.2	0.2
17.5°	11.2	3.8	1.3	0.2	0.0	0.0
20°	9.6	3.1	0.9	0.0	0.0	0.0
21°	9.2	2.7	0.7	0.0	0.0	0.0
22°	8.5	2.5	0.4	0.0	0.0	0.0
23°	7.8	2.2	0.4	0.0	0.0	0.0
24°	7.1	2.0	0.2	0.0	0.0	0.0
25°	6.7	1.8	0.2	0.0	0.0	0.0
26°	6.2	1.6	0.2	0.0	0.0	0.0
27°	5.6	1.3	0.0	0.0	0.0	0.0
28°	5.1	1.1	0.0	0.0	0.0	0.0
29°	4.5	0.9	0.0	0.0	0.0	0.0
30°	3.8	0.7	0.0	0.0	0.0	0.0
31°	3.1	0.7	0.0	0.0	0.0	0.0
32°	2.7	0.4	0.0	0.0	0.0	0.0
33°	2.2	0.4	0.0	0.0	0.0	0.0
34°	2.0	0.4	0.0	0.0	0.0	0.0
35°	1.8	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.2	0.0	0.0	0.0	0.0
37°	1.1	0.2	0.0	0.0	0.0	0.0
38°	0.9	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	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	0.7
52.5°	0.0	0.4	0.2	0.2	0.7	0.7
55°	0.2	0.4	0.2	0.4	0.9	0.9
57.5°	0.2	0.4	0.4	0.7	0.9	1.1
60°	0.4	0.7	0.7	0.7	1.1	1.1
62.5°	0.4	0.7	0.9	0.9	1.1	1.3
65°	0.4	0.9	0.9	0.9	1.1	1.3
67.5°	0.7	0.9	0.9	0.9	1.1	1.3
70°	0.7	0.9	0.9	0.9	1.1	1.1
72.5°	0.7	0.9	0.7	0.9	0.9	1.1
75°	0.7	0.9	0.7	0.7	0.9	0.9
77.5°	0.4	0.7	0.7	0.4	0.7	0.7
80°	0.4	0.7	0.4	0.4	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.7	0.4	0.2	0.4	0.4
85°	0.4	0.7	0.4	0.2	0.2	0.2
87.5°	0.4	0.7	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)