

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: P1336995

Luminaire Tested: P3A05R209840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336995
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: P3A05R209840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

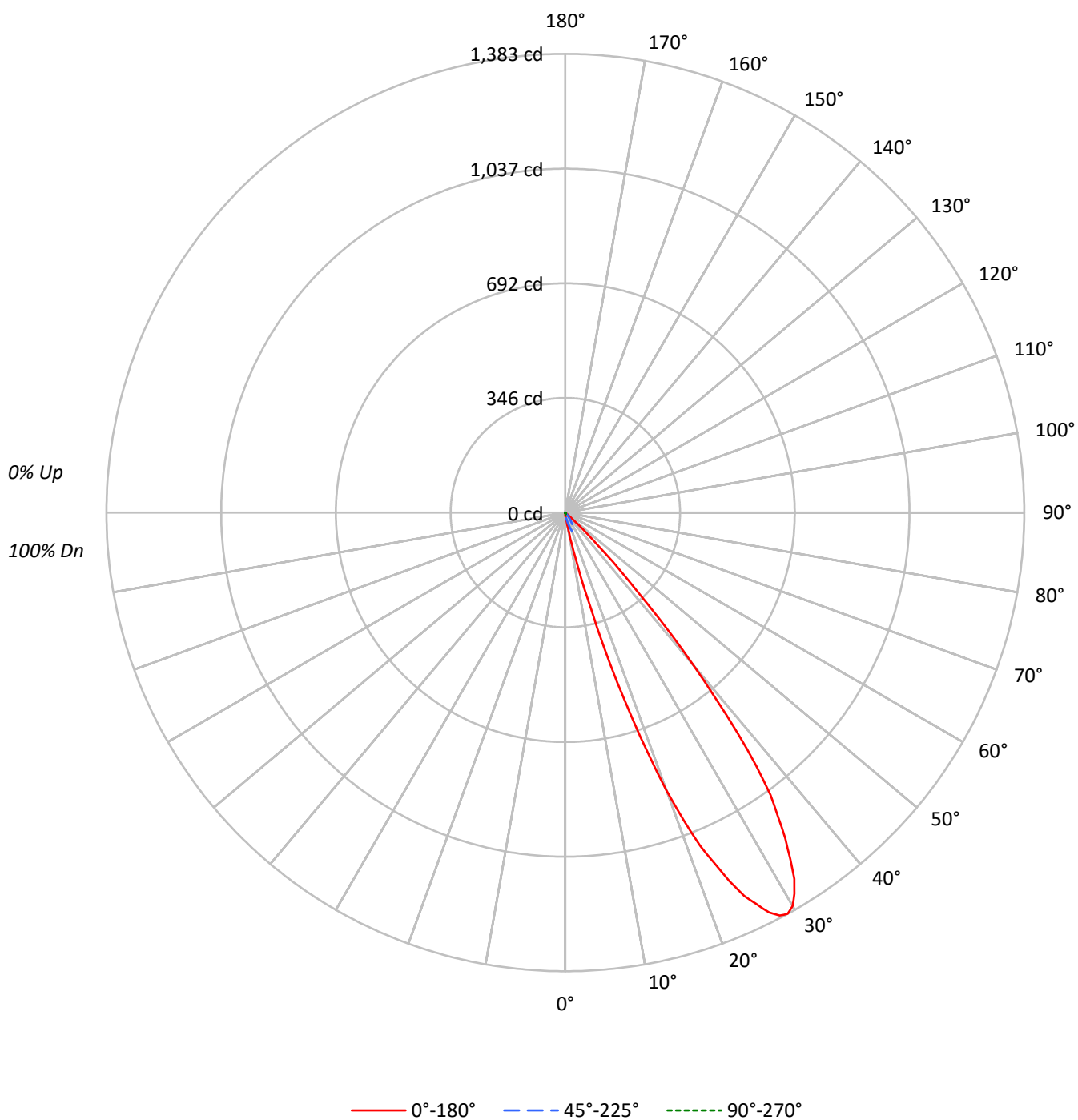
Lumens per Lamp: N/A
Luminaire Lumens: 194.1 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	75	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°	1469	1469	1469	1469	1469
5°	3368	2509	1387	858	726
10°	10621	4386	1136	468	356
15°	68809	8104	840	159	45
20°	207661	13885	583	0	0
25°	308389	14009	339	0	0
30°	346813	10660	127	0	0
35°	299226	6371	107	0	0
40°	172294	2176	0	0	0
45°	42020	868	62	0	62
50°	5049	239	68	68	171
55°	688	0	153	153	268
60°	88	0	219	219	395
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	424	593
80°	0	253	631	505	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 42299 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	18.0	9.3
20°-30°	78.4	40.4
30°-40°	78.9	40.7
40°-50°	15.8	8.2
50°-60°	0.8	0.4
60°-70°	0.5	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°	97.2	50.1
0°-40°	176.2	90.8
0°-60°	192.8	99.4
0°-90°	194.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	194.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	15	11	6	4	3	2
15°	303	36	4	1	0	119
25°	1275	58	1	0	0	575
35°	1118	24	0	0	0	665
45°	136	3	0	0	0	148
55°	2	0	0	0	1	3
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	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°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
2.5°	10.0	10.0	9.9	9.9	9.7	9.9	9.5	9.7	9.7	9.5	8.6
5°	15.3	15.7	15.5	15.5	15.3	15.5	15.1	14.8	14.4	14.4	11.4
7.5°	25.2	25.0	24.6	24.8	24.3	23.9	23.6	23.4	22.4	21.8	15.0
10°	47.7	48.8	47.9	47.7	44.5	44.4	42.2	39.2	36.6	35.2	19.7
12.5°	131.3	136.9	128.1	123.9	121.4	111.9	107.9	97.5	87.5	79.9	25.0
15°	303.1	317.0	299.2	300.4	285.7	258.5	234.8	214.4	190.3	166.0	35.7
17.5°	593.8	582.6	572.9	556.5	526.4	486.7	435.4	383.5	338.6	291.6	49.8
20°	889.9	879.8	857.8	822.1	783.7	724.8	663.9	585.9	510.4	439.7	59.5
21°	991.8	988.4	952.4	930.4	871.2	814.9	744.7	661.2	576.2	492.5	61.1
22°	1082.8	1062.7	1043.4	1010.8	952.0	890.8	812.6	724.8	632.6	539.5	61.2
23°	1145.8	1136.6	1118.3	1081.5	1023.1	951.1	868.8	776.9	679.7	572.7	60.7
24°	1215.5	1203.9	1177.1	1134.2	1075.2	1004.1	910.1	818.9	713.3	600.7	59.3
25°	1274.6	1256.5	1224.8	1178.5	1114.1	1040.7	946.2	846.1	736.8	619.5	57.9
26°	1313.0	1303.1	1262.5	1212.1	1143.1	1067.5	971.0	866.8	751.9	628.2	55.6
27°	1352.9	1334.8	1294.9	1237.0	1162.2	1084.9	985.1	876.9	757.2	628.5	52.8
28°	1375.8	1356.1	1310.9	1250.0	1174.5	1094.6	993.2	880.0	756.1	623.1	49.5
29°	1383.0	1358.2	1314.0	1252.1	1177.5	1095.3	992.0	875.4	746.8	609.7	45.6
30°	1369.7	1344.3	1302.4	1242.1	1168.0	1086.5	980.5	860.3	730.2	590.5	42.1
31°	1340.4	1319.0	1278.5	1217.9	1146.8	1065.9	954.6	835.5	702.1	564.8	38.0
32°	1301.9	1280.8	1241.0	1186.3	1113.9	1032.3	919.3	796.8	669.0	526.4	34.0
33°	1244.0	1231.9	1196.1	1143.8	1071.5	984.2	871.7	750.5	621.8	483.8	30.4
34°	1185.4	1170.1	1145.1	1087.9	1010.1	923.0	809.8	686.6	564.3	436.1	27.1
35°	1117.8	1108.6	1069.4	1023.6	945.5	856.4	744.0	624.5	497.2	383.0	23.8
36°	1052.3	1038.2	993.5	945.1	869.3	773.0	662.0	549.7	439.3	333.2	20.2
37°	957.3	935.8	904.0	852.9	764.2	682.2	580.8	476.6	368.0	279.3	16.4
38°	845.5	835.5	791.3	739.9	666.5	588.7	488.4	400.1	303.6	233.2	12.5
39°	713.7	713.5	671.3	634.1	562.3	492.3	401.8	324.7	250.6	187.8	9.7
40°	601.9	581.2	555.1	508.5	453.4	393.9	314.7	254.1	194.5	151.4	7.6
42.5°	315.6	313.8	298.5	263.5	232.7	197.7	157.2	130.9	102.4	83.4	4.8
45°	135.5	136.4	125.8	120.6	108.6	94.0	79.4	66.2	56.7	45.9	2.8
47.5°	34.3	32.9	32.6	33.8	33.8	32.7	29.4	27.6	25.5	23.4	1.6
50°	14.8	14.4	14.1	14.1	13.2	12.7	11.8	10.7	9.9	8.8	0.7
52.5°	5.5	5.6	5.8	5.6	5.6	5.5	5.5	5.3	4.8	4.2	0.4
55°	1.8	1.8	1.8	1.9	1.9	2.1	2.1	2.1	2.1	1.9	0.0
57.5°	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	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°	6.7	6.7	6.7	6.7	6.7	6.7
2.5°	7.7	6.9	5.8	4.9	4.8	4.6
5°	8.6	6.3	4.8	3.9	3.5	3.3
7.5°	9.3	5.8	3.9	2.8	2.5	2.3
10°	9.7	5.1	3.2	2.1	1.6	1.6
12.5°	9.9	4.4	2.3	1.4	0.9	0.9
15°	9.7	3.7	1.8	0.7	0.2	0.2
17.5°	8.8	3.0	1.1	0.2	0.0	0.0
20°	7.6	2.5	0.7	0.0	0.0	0.0
21°	7.2	2.1	0.5	0.0	0.0	0.0
22°	6.7	1.9	0.4	0.0	0.0	0.0
23°	6.2	1.8	0.4	0.0	0.0	0.0
24°	5.6	1.6	0.2	0.0	0.0	0.0
25°	5.3	1.4	0.2	0.0	0.0	0.0
26°	4.9	1.2	0.2	0.0	0.0	0.0
27°	4.4	1.1	0.0	0.0	0.0	0.0
28°	4.0	0.9	0.0	0.0	0.0	0.0
29°	3.5	0.7	0.0	0.0	0.0	0.0
30°	3.0	0.5	0.0	0.0	0.0	0.0
31°	2.5	0.5	0.0	0.0	0.0	0.0
32°	2.1	0.4	0.0	0.0	0.0	0.0
33°	1.8	0.4	0.0	0.0	0.0	0.0
34°	1.6	0.4	0.0	0.0	0.0	0.0
35°	1.4	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.2	0.0	0.0	0.0	0.0
37°	0.9	0.2	0.0	0.0	0.0	0.0
38°	0.7	0.2	0.0	0.0	0.0	0.0
39°	0.5	0.0	0.0	0.0	0.0	0.0
40°	0.5	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	0.5
52.5°	0.0	0.4	0.2	0.2	0.5	0.5
55°	0.2	0.4	0.2	0.4	0.7	0.7
57.5°	0.2	0.4	0.4	0.5	0.7	0.9
60°	0.4	0.5	0.5	0.5	0.9	0.9
62.5°	0.4	0.5	0.7	0.7	0.9	1.1
65°	0.4	0.7	0.7	0.7	0.9	1.1
67.5°	0.5	0.7	0.7	0.7	0.9	1.1
70°	0.5	0.7	0.7	0.7	0.9	0.9
72.5°	0.5	0.7	0.5	0.7	0.7	0.9
75°	0.5	0.7	0.5	0.5	0.7	0.7
77.5°	0.4	0.5	0.5	0.4	0.5	0.5
80°	0.4	0.5	0.4	0.4	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.5	0.4	0.2	0.4	0.4
85°	0.4	0.5	0.4	0.2	0.2	0.2
87.5°	0.4	0.5	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)