

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: P1336979

Luminaire Tested: P3A05R209835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336979
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: P3A05R209835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

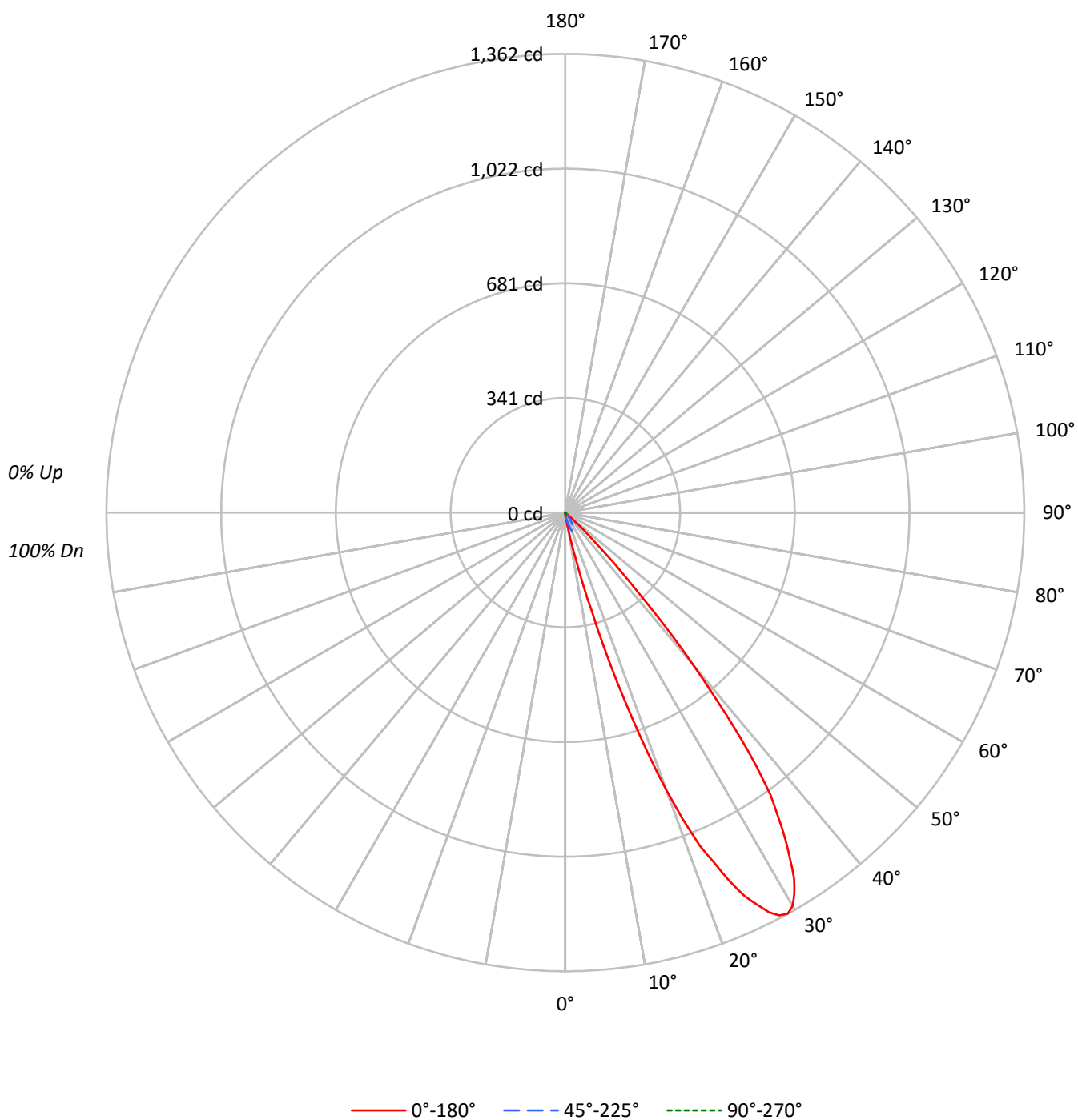
Lumens per Lamp: N/A
Luminaire Lumens: 191.0 lumens
Efficiency: N/A
Efficacy: 26.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	1447	1447	1447	1447	1447
5°	3324	2487	1365	836	726
10°	10465	4320	1113	468	356
15°	67742	7991	817	159	45
20°	204441	13675	560	0	0
25°	303622	13791	339	0	0
30°	341445	10483	127	0	0
35°	294595	6264	80	0	0
40°	169632	2147	0	0	0
45°	41369	868	62	0	62
50°	4981	239	68	68	171
55°	650	0	115	115	268
60°	88	0	219	219	395
65°	104	104	363	363	519
70°	128	128	449	449	577
75°	0	169	593	424	593
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 41648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	17.7	9.3
20°-30°	77.2	40.4
30°-40°	77.7	40.7
40°-50°	15.6	8.2
50°-60°	0.8	0.4
60°-70°	0.5	0.3
70°-80°	0.5	0.2
80°-90°	0.2	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°	95.7	50.1
0°-40°	173.4	90.8
0°-60°	189.8	99.4
0°-90°	191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	191.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	15	11	6	4	3	2
15°	298	35	4	1	0	117
25°	1255	57	1	0	0	566
35°	1100	23	0	0	0	655
45°	133	3	0	0	0	145
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°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
2.5°	9.9	9.9	9.7	9.7	9.5	9.7	9.4	9.5	9.5	9.4	8.5
5°	15.1	15.4	15.2	15.2	15.1	15.2	14.9	14.6	14.2	14.2	11.3
7.5°	24.8	24.6	24.3	24.4	23.9	23.6	23.2	23.0	22.0	21.5	14.7
10°	47.0	48.0	47.1	47.0	43.8	43.7	41.6	38.6	36.0	34.7	19.4
12.5°	129.3	134.8	126.1	122.0	119.6	110.2	106.2	96.0	86.1	78.7	24.6
15°	298.4	312.1	294.6	295.8	281.2	254.6	231.2	211.1	187.3	163.4	35.2
17.5°	584.7	573.6	564.0	547.9	518.3	479.1	428.7	377.6	333.4	287.1	49.0
20°	876.1	866.2	844.6	809.4	771.6	713.6	653.6	576.9	502.5	432.9	58.6
21°	976.4	973.2	937.6	916.0	857.7	802.3	733.2	651.0	567.3	484.8	60.1
22°	1066.0	1046.3	1027.2	995.2	937.3	877.0	800.0	713.6	622.8	531.1	60.3
23°	1128.1	1119.1	1101.0	1064.8	1007.3	936.4	855.3	764.9	669.2	563.9	59.8
24°	1196.7	1185.3	1158.9	1116.6	1058.6	988.6	896.0	806.3	702.3	591.4	58.4
25°	1254.9	1237.1	1205.9	1160.3	1096.9	1024.6	931.6	833.0	725.4	610.0	57.0
26°	1292.7	1283.0	1243.0	1193.4	1125.5	1051.0	956.0	853.4	740.3	618.4	54.8
27°	1332.0	1314.2	1274.8	1217.8	1144.2	1068.1	969.9	863.3	745.5	618.8	52.0
28°	1354.5	1335.1	1290.6	1230.7	1156.3	1077.6	977.8	866.4	744.4	613.4	48.7
29°	1361.7	1337.2	1293.7	1232.7	1159.3	1078.3	976.6	861.9	735.2	600.2	44.9
30°	1348.5	1323.5	1282.3	1222.9	1149.9	1069.7	965.4	847.0	718.9	581.4	41.4
31°	1319.7	1298.6	1258.7	1199.1	1129.1	1049.4	939.9	822.6	691.2	556.1	37.4
32°	1281.8	1261.0	1221.8	1167.9	1096.7	1016.3	905.1	784.4	658.6	518.3	33.4
33°	1224.8	1212.8	1177.6	1126.2	1054.9	969.0	858.3	738.9	612.2	476.4	30.0
34°	1167.1	1152.0	1127.4	1071.1	994.5	908.7	797.3	676.0	555.5	429.4	26.7
35°	1100.5	1091.5	1052.9	1007.8	930.9	843.2	732.5	614.8	489.5	377.1	23.4
36°	1036.1	1022.2	978.2	930.5	855.8	761.1	651.7	541.2	432.5	328.0	19.9
37°	942.5	921.3	890.0	839.7	752.4	671.6	571.8	469.2	362.3	275.0	16.1
38°	832.4	822.6	779.1	728.5	656.2	579.6	480.9	393.9	298.9	229.6	12.3
39°	702.7	702.5	660.9	624.3	553.6	484.7	395.6	319.7	246.8	184.9	9.5
40°	592.6	572.2	546.5	500.6	446.4	387.8	309.8	250.2	191.5	149.0	7.5
42.5°	310.7	309.0	293.9	259.4	229.1	194.6	154.7	128.9	100.9	82.1	4.7
45°	133.4	134.3	123.9	118.7	106.9	92.5	78.2	65.2	55.8	45.2	2.8
47.5°	33.8	32.4	32.1	33.3	33.3	32.2	28.9	27.2	25.1	23.0	1.6
50°	14.6	14.2	13.9	13.9	13.0	12.5	11.6	10.6	9.7	8.7	0.7
52.5°	5.4	5.5	5.7	5.5	5.5	5.4	5.4	5.2	4.7	4.2	0.3
55°	1.7	1.7	1.7	1.9	1.9	2.1	2.1	2.1	2.1	1.9	0.0
57.5°	0.3	0.3	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°	6.6	6.6	6.6	6.6	6.6	6.6
2.5°	7.6	6.8	5.7	4.9	4.7	4.5
5°	8.5	6.2	4.7	3.8	3.5	3.3
7.5°	9.2	5.7	3.8	2.8	2.4	2.3
10°	9.5	5.0	3.1	2.1	1.6	1.6
12.5°	9.7	4.3	2.3	1.4	0.9	0.9
15°	9.5	3.6	1.7	0.7	0.2	0.2
17.5°	8.7	2.9	1.0	0.2	0.0	0.0
20°	7.5	2.4	0.7	0.0	0.0	0.0
21°	7.1	2.1	0.5	0.0	0.0	0.0
22°	6.6	1.9	0.3	0.0	0.0	0.0
23°	6.1	1.7	0.3	0.0	0.0	0.0
24°	5.5	1.6	0.2	0.0	0.0	0.0
25°	5.2	1.4	0.2	0.0	0.0	0.0
26°	4.9	1.2	0.2	0.0	0.0	0.0
27°	4.3	1.0	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°	2.9	0.5	0.0	0.0	0.0	0.0
31°	2.4	0.5	0.0	0.0	0.0	0.0
32°	2.1	0.3	0.0	0.0	0.0	0.0
33°	1.7	0.3	0.0	0.0	0.0	0.0
34°	1.6	0.3	0.0	0.0	0.0	0.0
35°	1.4	0.3	0.0	0.0	0.0	0.0
36°	1.0	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	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.2	0.5	0.5
55°	0.2	0.3	0.2	0.3	0.7	0.7
57.5°	0.2	0.3	0.3	0.5	0.7	0.9
60°	0.3	0.5	0.5	0.5	0.9	0.9
62.5°	0.3	0.5	0.7	0.7	0.9	1.0
65°	0.3	0.7	0.7	0.7	0.9	1.0
67.5°	0.5	0.7	0.7	0.7	0.9	1.0
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°	0.3	0.5	0.5	0.3	0.5	0.5
80°	0.3	0.5	0.3	0.3	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.5	0.3	0.2	0.3	0.3
85°	0.3	0.5	0.3	0.2	0.2	0.2
87.5°	0.3	0.5	0.3	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)