

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: P1337405

Luminaire Tested: P3A05R259730DE010 E3A451GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R259730DE010 E3A451GPH
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 97CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

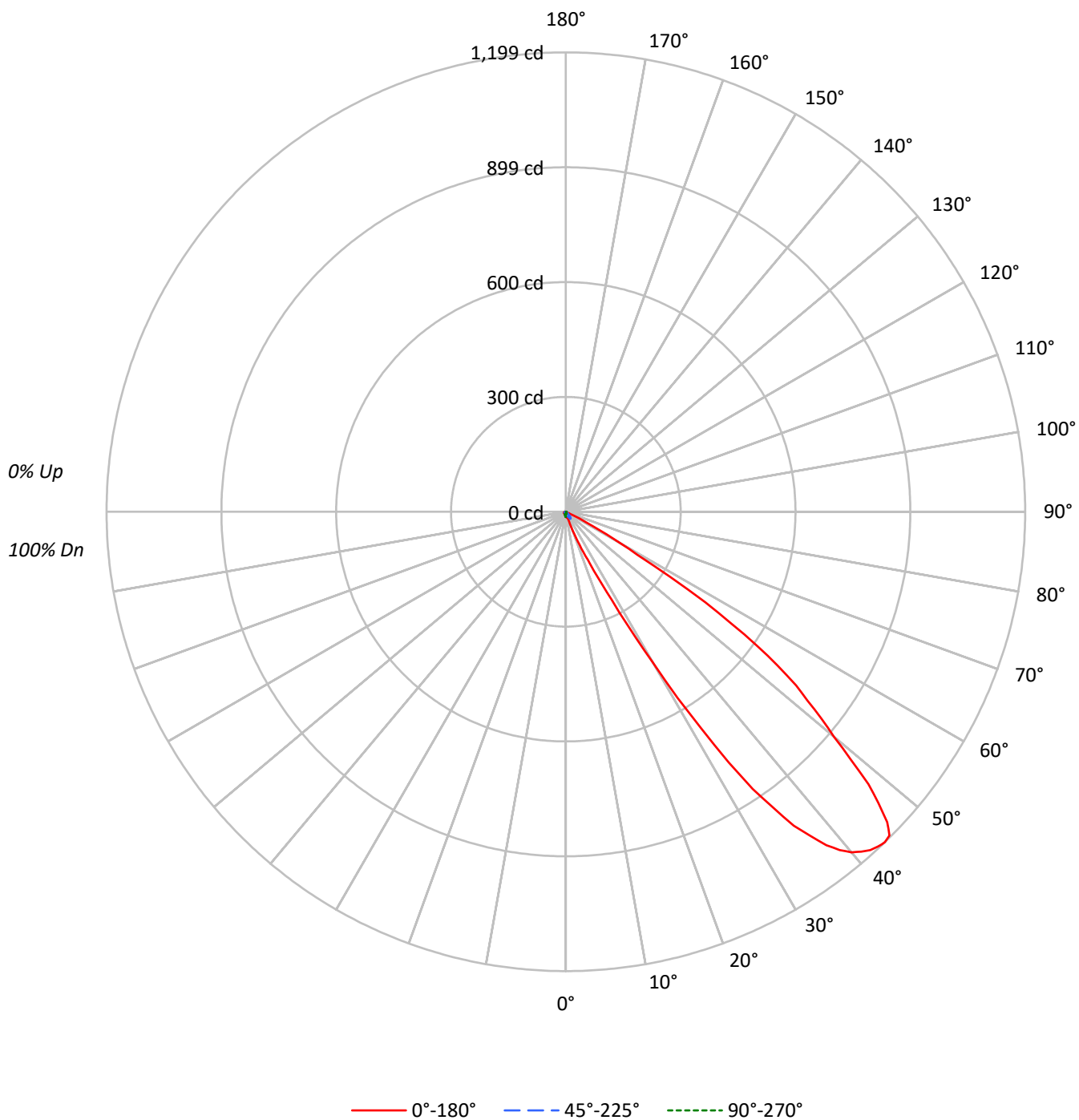
Lumens per Lamp: N/A
Luminaire Lumens: 250.0 lumens
Efficiency: N/A
Efficacy: 34.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1337405

CATALOG NUMBER: P3A05R259730DE010 E3A451GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1337405

CATALOG NUMBER: P3A05R259730DE010 E3A451GPH

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2807	2807	2807	2807	2807
5°	3192	3060	2707	2421	2377
10°	3184	2895	2293	2004	2004
15°	3541	2497	1793	1703	1793
20°	12531	2474	1377	1447	1587
25°	36026	3145	1113	1331	1548
30°	114980	4836	886	1291	1570
35°	251818	5702	776	1231	1579
40°	332194	5153	630	1260	1689
45°	370457	3628	620	1364	1830
50°	311836	1876	614	1433	2013
55°	233129	765	573	1606	2256
60°	72187	175	570	1754	2500
65°	6174	0	675	1816	2750
70°	449	128	705	2116	3077
75°	339	169	932	2203	3558
80°	253	253	1389	2526	4167
85°	503	503	2264	2768	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 370457 cd/sqm

TEST NUMBER: P1337405

CATALOG NUMBER: P3A05R259730DE010 E3A451GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	2.9	1.2
20°-30°	13.8	5.5
30°-40°	66.6	26.6
40°-50°	104.4	41.8
50°-60°	53.5	21.4
60°-70°	5.0	2.0
70°-80°	1.7	0.7
80°-90°	0.9	0.3
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°	17.9	7.2
0°-40°	84.5	33.8
0°-60°	242.4	97.0
0°-90°	250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	14	14	12	11	11	1
15°	16	11	8	8	8	7
25°	149	13	5	6	6	92
35°	941	21	3	5	6	571
45°	1195	12	2	4	6	874
55°	610	2	2	4	6	508
65°	12	0	1	4	5	37
75°	0	0	1	3	4	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1337405

CATALOG NUMBER: P3A05R259730DE010 E3A451GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.6	13.6	13.9	13.6	13.6
5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.3	14.3	14.3	13.9
7.5°	14.7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.3	14.3	13.6
10°	14.3	14.3	14.3	14.3	14.1	14.1	14.1	13.9	13.9	13.9	13.0
12.5°	14.3	14.3	14.3	14.3	14.1	14.1	13.9	13.9	13.6	13.4	11.9
15°	15.6	15.6	15.6	15.4	15.2	15.0	14.7	14.5	14.3	13.9	11.0
17.5°	22.9	22.2	22.0	21.1	20.0	18.9	18.0	17.2	16.3	15.6	10.6
20°	53.7	53.5	52.4	49.7	46.9	43.6	40.3	36.5	31.2	27.7	10.6
22.5°	93.1	91.7	89.8	87.8	82.7	76.8	70.6	63.6	56.8	49.5	11.2
25°	148.9	152.0	145.4	140.1	131.3	120.6	108.9	99.2	86.9	75.5	13.0
27.5°	258.9	260.9	247.9	230.8	210.3	187.7	165.7	149.2	128.5	109.6	16.3
30°	454.1	456.0	434.3	397.7	355.5	318.3	268.0	223.7	183.0	151.6	19.1
31°	566.7	551.3	526.0	490.6	437.1	381.0	320.5	267.1	215.6	174.2	20.0
32°	664.6	663.3	633.8	580.1	526.4	457.1	382.1	312.4	249.3	197.1	20.7
33°	780.1	771.3	729.7	679.1	608.1	538.3	441.5	361.9	283.8	222.6	21.1
34°	872.7	849.0	831.8	773.9	698.9	610.0	506.4	414.2	326.9	247.3	21.3
35°	940.7	935.6	902.2	848.3	772.0	681.1	576.4	468.6	363.0	275.9	21.3
36°	1012.6	997.0	964.5	915.6	841.3	747.3	629.8	515.7	405.0	301.6	21.1
37°	1057.7	1048.5	1016.2	965.8	893.0	803.2	689.7	565.4	438.4	327.4	20.7
38°	1104.2	1085.5	1053.6	1005.4	933.9	849.6	733.0	603.7	469.2	350.0	20.0
39°	1136.3	1116.9	1084.4	1036.4	966.4	882.8	767.3	636.2	496.1	367.0	19.1
40°	1160.5	1141.8	1108.8	1059.5	990.4	909.0	795.9	665.0	518.5	381.7	18.0
41°	1175.4	1158.0	1125.3	1076.2	1006.9	924.0	814.6	683.7	533.7	391.6	16.9
42°	1188.0	1170.1	1136.7	1086.6	1017.0	936.7	826.1	695.6	544.0	396.6	16.1
43°	1195.0	1177.2	1144.6	1093.4	1023.2	942.7	832.2	701.1	547.6	396.0	14.5
44°	1199.0	1180.5	1147.7	1096.5	1025.8	944.2	832.7	700.0	545.1	390.7	13.2
45°	1194.6	1176.3	1144.6	1093.4	1021.2	939.4	828.3	694.1	535.9	380.4	11.7
46°	1166.0	1151.9	1122.8	1075.8	1006.7	927.1	817.1	682.6	521.6	367.6	9.9
47°	1115.6	1104.4	1076.2	1041.2	978.8	904.4	796.4	660.9	501.6	348.5	7.9
48°	1063.0	1046.5	1020.3	984.5	931.7	863.7	762.3	629.0	471.2	323.4	7.0
49°	985.4	975.7	952.6	912.5	868.8	808.9	714.1	588.0	434.0	296.1	6.2
50°	914.1	907.5	875.1	845.7	799.2	743.4	648.8	534.1	387.8	262.2	5.5
51°	858.4	850.5	827.2	790.4	740.9	676.0	586.9	464.2	334.8	222.0	4.4
52°	800.3	795.9	775.3	737.4	688.8	624.1	526.9	404.8	283.4	187.7	3.5
53°	752.8	746.4	721.1	687.5	634.9	568.0	461.8	349.6	240.0	157.7	3.1
54°	683.5	680.9	664.6	629.4	572.4	499.6	402.8	294.4	200.2	133.8	2.6
55°	609.8	601.0	584.5	556.6	504.2	436.2	334.6	244.0	161.9	112.6	2.0
56°	520.1	519.6	490.1	466.8	420.4	348.3	267.3	190.5	131.6	93.9	1.8
57°	434.3	420.4	392.0	368.9	319.0	264.2	198.4	142.8	103.0	76.1	1.3
58°	321.2	313.9	306.5	272.6	226.4	187.2	141.7	100.3	76.1	58.1	0.9
59°	218.0	217.8	209.0	183.3	156.6	116.6	88.4	68.2	52.4	42.7	0.7
60°	164.6	160.6	143.0	126.1	98.6	73.7	52.4	40.3	32.6	27.5	0.4
62.5°	57.6	59.8	52.6	43.6	33.2	27.3	20.9	16.9	13.9	11.2	0.0
65°	11.9	13.0	11.2	10.6	8.4	7.3	6.4	5.5	4.6	4.0	0.0



TEST NUMBER: P1337405

CATALOG NUMBER: P3A05R259730DE010 E3A451GPH

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.5	1.3	1.3	1.3	1.1	1.1	1.1	1.1	0.9	0.9	0.2
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.2
72.5°	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	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

TEST NUMBER: P1337405

CATALOG NUMBER: P3A05R259730DE010 E3A451GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	13.4	13.0	12.3	12.1	11.9	11.9
5°	13.2	12.3	11.7	11.0	10.8	10.8
7.5°	12.5	11.4	10.6	10.1	9.9	9.7
10°	11.9	10.3	9.5	9.0	9.0	9.0
12.5°	10.6	9.2	8.4	8.1	8.4	8.4
15°	9.5	7.9	7.5	7.5	7.7	7.9
17.5°	8.1	7.0	6.6	6.8	7.0	7.3
20°	7.3	5.9	5.9	6.2	6.8	6.8
22.5°	6.4	5.3	5.3	5.9	6.4	6.6
25°	5.7	4.6	4.8	5.5	6.2	6.4
27.5°	4.8	4.0	4.4	5.3	5.9	6.2
30°	4.2	3.5	4.2	5.1	5.7	6.2
31°	4.0	3.3	4.2	4.8	5.7	6.2
32°	3.5	3.3	4.0	4.8	5.7	5.9
33°	3.3	3.1	4.0	4.8	5.7	5.9
34°	3.1	2.9	3.7	4.8	5.7	5.9
35°	2.6	2.9	3.7	4.6	5.5	5.9
36°	2.4	2.6	3.7	4.6	5.5	5.9
37°	2.2	2.6	3.5	4.6	5.5	5.9
38°	2.0	2.4	3.5	4.6	5.5	5.9
39°	1.8	2.4	3.3	4.6	5.5	5.9
40°	1.5	2.2	3.3	4.4	5.5	5.9
41°	1.5	2.2	3.3	4.4	5.5	5.9
42°	1.3	2.2	3.3	4.4	5.5	5.9
43°	1.1	2.0	3.3	4.4	5.5	5.9
44°	0.9	2.0	3.1	4.4	5.5	5.9
45°	0.9	2.0	3.1	4.4	5.5	5.9
46°	0.7	1.8	3.1	4.4	5.5	5.9
47°	0.4	1.8	3.1	4.2	5.5	5.9
48°	0.4	1.8	3.1	4.2	5.5	5.9
49°	0.4	1.8	2.9	4.2	5.5	5.9
50°	0.4	1.8	2.9	4.2	5.5	5.9
51°	0.2	1.5	2.9	4.2	5.5	5.9
52°	0.2	1.5	2.9	4.2	5.5	6.2
53°	0.2	1.5	2.9	4.2	5.5	5.9
54°	0.2	1.5	2.6	4.2	5.5	5.9
55°	0.2	1.5	2.6	4.2	5.5	5.9
56°	0.2	1.3	2.6	4.0	5.5	5.9
57°	0.4	1.3	2.6	4.0	5.5	5.7
58°	0.4	1.3	2.6	4.0	5.3	5.7
59°	0.4	1.3	2.6	4.0	5.3	5.7
60°	0.4	1.3	2.4	4.0	5.3	5.7
62.5°	0.4	1.3	2.4	3.7	5.1	5.5
65°	0.4	1.3	2.2	3.5	5.1	5.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.1	2.2	3.3	4.8	5.1
70°	0.7	1.1	2.0	3.3	4.6	4.8
72.5°	0.7	1.1	2.0	2.9	4.2	4.6
75°	0.7	1.1	1.8	2.6	4.0	4.2
77.5°	0.7	1.1	1.5	2.4	3.5	3.7
80°	0.9	1.1	1.3	2.0	3.1	3.3
82.5°	0.9	1.1	1.1	1.5	2.4	2.6
85°	0.7	0.9	0.9	1.1	1.5	1.8
87.5°	0.7	0.9	0.7	0.4	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)