

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: P1339459

Luminaire Tested: P3A05R459735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459735DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

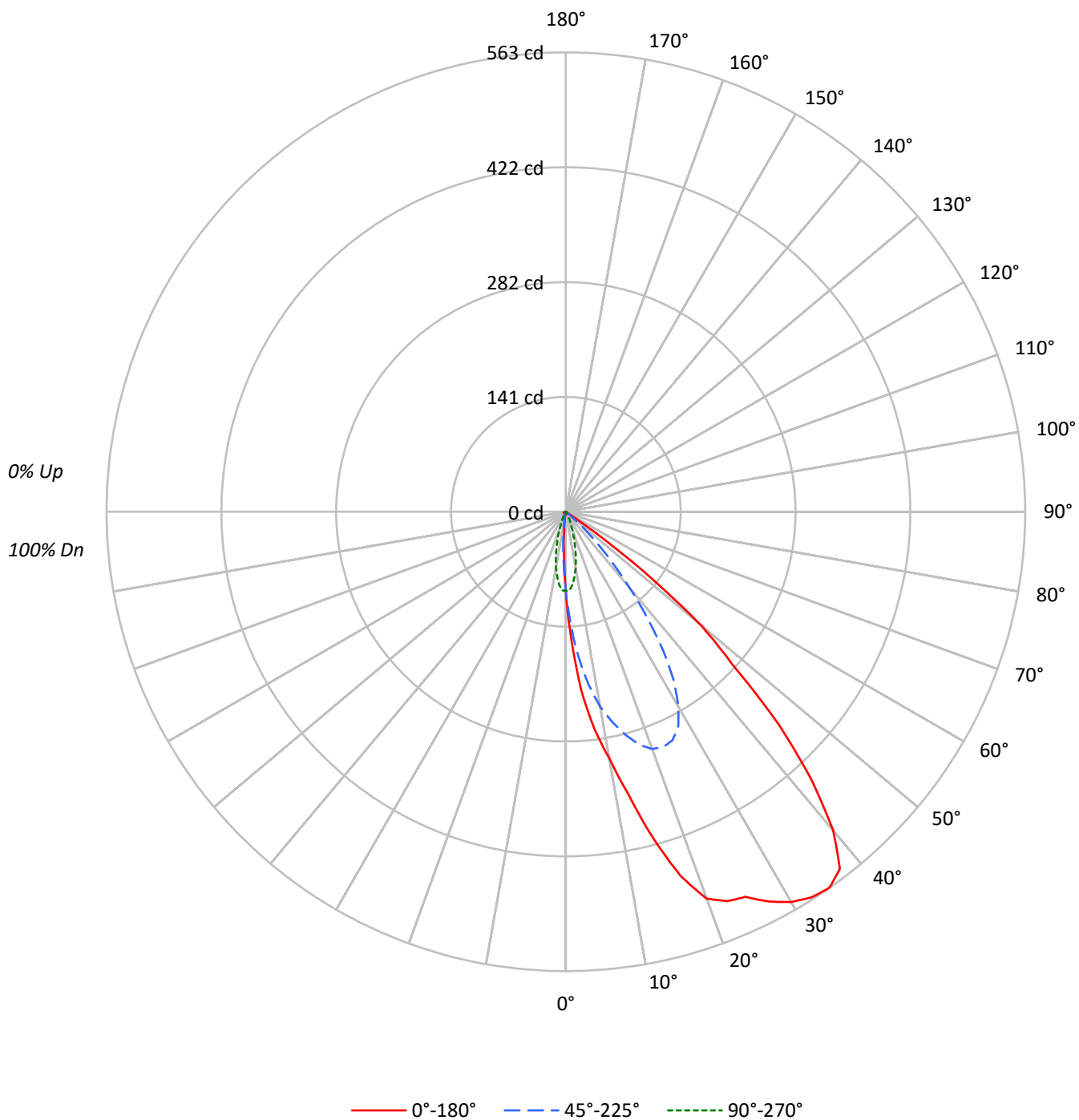
Lumens per Lamp: N/A
Luminaire Lumens: 255.0 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21270	21270	21270	21270	21270
5°	48492	39335	19899	7990	5437
10°	68335	54040	15386	1759	802
15°	94166	64291	9830	590	477
20°	117750	72200	5134	397	397
25°	126007	74762	2371	315	363
30°	139844	69808	1089	329	380
35°	150657	55653	348	348	455
40°	145787	34493	172	429	544
45°	114493	16281	186	527	651
50°	73550	1876	307	648	887
55°	11163	153	344	803	1070
60°	175	175	395	921	1140
65°	208	208	467	986	1349
70°	256	256	577	1090	1475
75°	169	339	763	1271	1610
80°	253	505	758	1389	1894
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 114493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	4.2
10°-20°	38.4	15.1
20°-30°	67.5	26.5
30°-40°	76.6	30.0
40°-50°	49.6	19.5
50°-60°	9.7	3.8
60°-70°	1.2	0.5
70°-80°	1.0	0.4
80°-90°	0.4	0.2
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°	116.5	45.7
0°-40°	193.1	75.7
0°-60°	252.4	99.0
0°-90°	255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	255.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	97	97	97	97	97	
5°	220	179	90	36	25	23
15°	415	283	43	3	2	120
25°	521	309	10	1	2	244
35°	563	208	1	1	2	346
45°	369	52	1	2	2	278
55°	29	0	1	2	3	56
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	157.6	157.2	157.8	153.5	153.3	150.1	149.3	145.7	140.8	138.4	132.9
5°	220.3	218.2	218.2	213.0	211.3	207.7	201.5	193.9	187.5	178.7	169.3
7.5°	268.7	268.3	268.3	263.8	259.5	254.4	246.1	237.4	227.1	213.7	200.0
10°	306.9	307.5	305.6	301.5	295.4	289.8	280.0	269.3	256.8	242.7	224.6
12.5°	355.1	350.4	348.9	339.7	331.8	321.2	309.4	297.3	281.7	264.0	243.5
15°	414.8	408.8	402.8	390.7	377.5	361.0	342.7	324.8	304.7	283.2	257.6
17.5°	468.1	468.1	460.2	441.0	424.0	399.6	374.9	351.0	327.4	299.0	267.0
20°	504.6	502.7	496.7	482.6	463.2	435.7	403.5	370.0	341.4	309.4	272.3
22.5°	516.5	516.1	516.3	508.0	492.4	463.8	424.4	384.9	349.1	312.0	269.8
25°	520.8	521.6	523.8	520.6	508.8	480.3	437.2	392.0	351.4	309.0	260.0
27.5°	538.5	536.8	539.1	537.0	523.8	489.6	439.7	390.3	346.3	298.1	242.5
30°	552.3	551.9	556.0	554.0	536.8	495.6	437.4	383.9	333.7	275.7	215.0
32.5°	560.2	560.4	561.5	553.6	528.0	482.6	425.9	370.9	310.1	246.5	179.1
35°	562.8	561.5	555.5	536.1	501.2	452.5	397.5	339.9	277.9	207.9	141.6
37.5°	551.7	545.1	529.7	500.7	460.2	414.8	361.3	300.9	233.7	164.2	105.6
40°	509.3	500.5	481.1	451.5	413.7	369.8	315.0	251.9	181.3	120.5	74.2
42.5°	445.7	441.2	421.0	395.2	363.2	318.8	262.3	198.3	134.1	83.2	47.3
45°	369.2	363.4	350.6	327.8	302.6	256.1	203.4	142.0	91.5	52.5	23.5
47.5°	276.8	277.2	268.5	251.2	226.5	187.7	139.3	95.3	57.4	27.1	5.3
50°	215.6	212.6	200.2	182.5	153.8	125.0	90.0	60.1	30.3	5.5	0.4
52.5°	119.4	121.3	114.7	109.0	94.0	74.6	53.1	30.5	6.4	0.6	0.4
55°	29.2	30.9	29.6	30.3	31.3	27.9	21.5	6.0	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.1	1.5	1.5	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	0.2	0.2	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	130.1	126.0	118.6	96.4	77.4	62.5	53.5	52.7
5°	161.0	150.1	134.4	90.4	57.2	36.3	26.2	24.7
7.5°	185.5	170.2	145.9	80.6	39.0	18.6	10.2	8.5
10°	205.8	184.0	151.8	69.1	24.5	7.9	4.3	3.6
12.5°	219.7	193.4	152.9	56.3	14.1	3.8	2.8	2.6
15°	228.6	196.4	147.8	43.3	7.9	2.6	2.3	2.1
17.5°	232.2	193.9	138.0	31.3	4.3	1.9	1.9	1.9
20°	230.5	185.5	123.5	22.0	2.8	1.7	1.7	1.7
22.5°	222.4	171.2	105.3	14.7	1.9	1.5	1.5	1.5
25°	206.4	151.8	86.2	9.8	1.3	1.3	1.5	1.5
27.5°	182.5	128.0	65.9	6.6	1.1	1.3	1.5	1.5
30°	152.5	101.3	47.3	4.3	1.1	1.3	1.3	1.5
32.5°	121.1	73.8	31.1	2.6	0.9	1.3	1.5	1.7
35°	87.9	50.3	19.8	1.3	1.1	1.3	1.5	1.7
37.5°	61.6	32.8	11.5	0.9	1.1	1.3	1.7	1.7
40°	40.1	18.3	4.3	0.6	1.1	1.5	1.7	1.9
42.5°	20.9	6.4	0.9	0.6	1.1	1.5	1.9	2.1
45°	5.3	0.9	0.2	0.6	1.3	1.7	2.1	2.1
47.5°	0.6	0.2	0.2	0.9	1.3	1.9	2.1	2.3
50°	0.2	0.4	0.4	0.9	1.3	1.9	2.3	2.6
52.5°	0.4	0.4	0.4	0.9	1.5	1.9	2.6	2.8
55°	0.4	0.4	0.4	0.9	1.5	2.1	2.6	2.8
57.5°	0.4	0.4	0.4	0.9	1.5	2.1	2.6	2.6
60°	0.4	0.4	0.4	0.9	1.5	2.1	2.6	2.6
62.5°	0.4	0.4	0.6	0.9	1.5	1.9	2.6	2.6
65°	0.4	0.6	0.6	0.9	1.5	1.9	2.3	2.6
67.5°	0.4	0.4	0.6	0.9	1.5	1.9	2.3	2.6
70°	0.4	0.4	0.6	0.9	1.3	1.7	2.1	2.3
72.5°	0.4	0.4	0.6	0.9	1.3	1.7	1.9	2.1
75°	0.4	0.4	0.6	0.9	1.1	1.5	1.9	1.9
77.5°	0.4	0.4	0.6	0.6	1.1	1.3	1.7	1.7
80°	0.4	0.4	0.6	0.6	0.9	1.1	1.3	1.5
82.5°	0.4	0.4	0.4	0.6	0.6	0.9	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)