

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: P1339496

Luminaire Tested: P3A05R459827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339496
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: P3A05R459827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

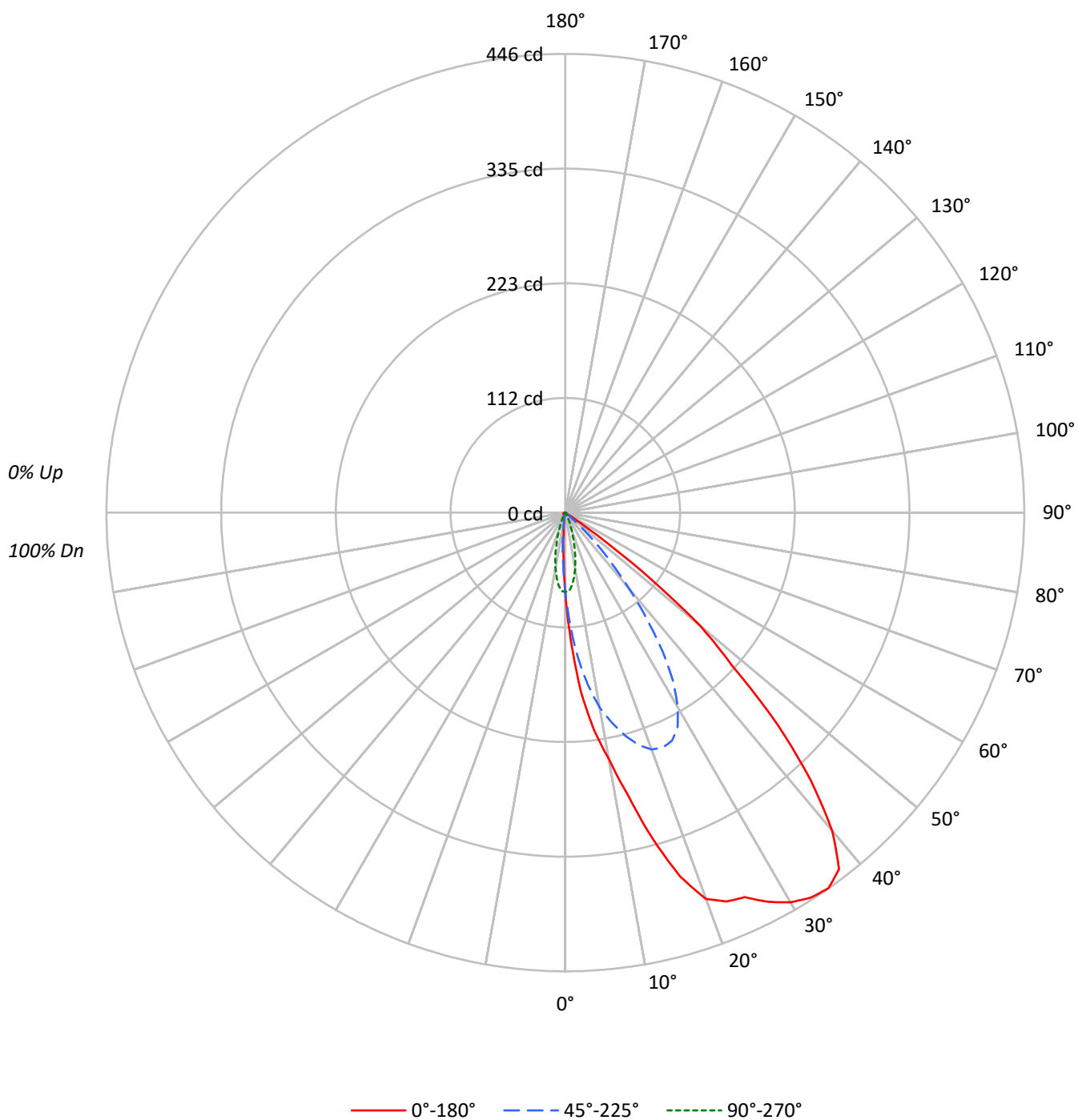
Lumens per Lamp: N/A
Luminaire Lumens: 202.0 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	16863	16863	16863	16863	16863
5°	38411	31169	15760	6317	4314
10°	54129	42796	12180	1403	646
15°	74597	50920	7787	454	386
20°	93271	57195	4060	327	327
25°	99804	59229	1887	242	290
30°	110777	55300	861	253	304
35°	119337	44089	268	268	375
40°	115473	27308	143	344	429
45°	90676	12901	155	434	527
50°	58267	1501	239	512	682
55°	8831	115	268	650	841
60°	132	132	307	746	877
65°	156	156	363	778	1038
70°	192	192	449	898	1218
75°	169	254	593	1017	1271
80°	253	379	631	1010	1515
85°	0	503	755	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 90676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	4.2
10°-20°	30.4	15.1
20°-30°	53.4	26.5
30°-40°	60.7	30.0
40°-50°	39.3	19.5
50°-60°	7.7	3.8
60°-70°	0.9	0.5
70°-80°	0.8	0.4
80°-90°	0.3	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°	92.3	45.7
0°-40°	152.9	75.7
0°-60°	199.9	99.0
0°-90°	202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	202.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	77	77	77	77	77	
5°	174	142	72	29	20	19
15°	329	224	34	2	2	95
25°	412	245	8	1	1	193
35°	446	165	1	1	1	274
45°	292	42	0	1	2	220
55°	23	0	1	2	2	44
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	0	0	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°	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
2.5°	124.8	124.5	125.0	121.6	121.5	118.9	118.3	115.4	111.5	109.6	105.2
5°	174.5	172.8	172.8	168.8	167.4	164.5	159.6	153.6	148.5	141.6	134.1
7.5°	212.9	212.5	212.5	209.0	205.6	201.5	195.0	188.0	179.9	169.3	158.5
10°	243.1	243.6	242.1	238.9	234.0	229.6	221.8	213.4	203.4	192.2	177.9
12.5°	281.3	277.6	276.4	269.1	262.9	254.4	245.1	235.5	223.2	209.1	192.9
15°	328.6	323.8	319.1	309.5	299.0	286.0	271.5	257.3	241.4	224.3	204.1
17.5°	370.8	370.8	364.6	349.4	335.8	316.6	297.0	278.1	259.3	236.8	211.5
20°	399.7	398.2	393.4	382.3	366.9	345.1	319.6	293.1	270.5	245.1	215.7
22.5°	409.2	408.8	409.0	402.4	390.1	367.4	336.2	304.9	276.5	247.2	213.7
25°	412.5	413.2	414.9	412.4	403.1	380.4	346.3	310.5	278.4	244.8	205.9
27.5°	426.6	425.2	427.1	425.4	414.9	387.9	348.3	309.1	274.3	236.2	192.1
30°	437.5	437.2	440.4	438.9	425.2	392.6	346.5	304.1	264.4	218.4	170.3
32.5°	443.8	444.0	444.8	438.6	418.3	382.3	337.4	293.8	245.6	195.3	141.9
35°	445.8	444.8	440.1	424.7	397.0	358.5	314.9	269.3	220.1	164.7	112.2
37.5°	437.0	431.8	419.6	396.7	364.6	328.6	286.2	238.4	185.2	130.1	83.6
40°	403.4	396.5	381.1	357.6	327.7	292.9	249.5	199.5	143.6	95.4	58.8
42.5°	353.1	349.5	333.5	313.0	287.7	252.6	207.8	157.1	106.3	65.9	37.5
45°	292.4	287.9	277.7	259.7	239.7	202.9	161.2	112.5	72.5	41.6	18.6
47.5°	219.3	219.6	212.7	199.0	179.4	148.7	110.3	75.5	45.4	21.5	4.2
50°	170.8	168.4	158.6	144.6	121.8	99.0	71.3	47.6	24.0	4.4	0.3
52.5°	94.6	96.1	90.9	86.3	74.5	59.1	42.1	24.2	5.1	0.5	0.3
55°	23.1	24.5	23.5	24.0	24.8	22.1	17.1	4.7	0.5	0.3	0.3
57.5°	0.5	0.5	0.5	0.5	0.8	1.2	1.2	0.3	0.3	0.3	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3
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°	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
2.5°	103.0	99.8	93.9	76.4	61.3	49.5	42.4	41.7
5°	127.5	118.9	106.4	71.6	45.3	28.7	20.8	19.6
7.5°	147.0	134.8	115.6	63.9	30.9	14.7	8.1	6.8
10°	163.0	145.8	120.3	54.7	19.4	6.3	3.4	2.9
12.5°	174.0	153.2	121.1	44.6	11.1	3.0	2.2	2.0
15°	181.1	155.6	117.1	34.3	6.3	2.0	1.9	1.7
17.5°	184.0	153.6	109.3	24.8	3.4	1.5	1.5	1.5
20°	182.6	147.0	97.8	17.4	2.2	1.4	1.4	1.4
22.5°	176.2	135.7	83.5	11.7	1.5	1.2	1.2	1.2
25°	163.5	120.3	68.2	7.8	1.0	1.0	1.2	1.2
27.5°	144.6	101.4	52.2	5.2	0.8	1.0	1.2	1.2
30°	120.8	80.2	37.5	3.4	0.8	1.0	1.0	1.2
32.5°	96.0	58.5	24.7	2.0	0.7	1.0	1.2	1.4
35°	69.6	39.9	15.7	1.0	0.8	1.0	1.2	1.4
37.5°	48.8	26.0	9.1	0.7	0.8	1.0	1.4	1.4
40°	31.8	14.5	3.4	0.5	0.8	1.2	1.4	1.5
42.5°	16.6	5.1	0.7	0.5	0.8	1.2	1.5	1.7
45°	4.2	0.7	0.2	0.5	1.0	1.4	1.7	1.7
47.5°	0.5	0.2	0.2	0.7	1.0	1.5	1.7	1.9
50°	0.2	0.3	0.3	0.7	1.0	1.5	1.9	2.0
52.5°	0.3	0.3	0.3	0.7	1.2	1.5	2.0	2.2
55°	0.3	0.3	0.3	0.7	1.2	1.7	2.0	2.2
57.5°	0.3	0.3	0.3	0.7	1.2	1.7	2.0	2.0
60°	0.3	0.3	0.3	0.7	1.2	1.7	2.0	2.0
62.5°	0.3	0.3	0.5	0.7	1.2	1.5	2.0	2.0
65°	0.3	0.5	0.5	0.7	1.2	1.5	1.9	2.0
67.5°	0.3	0.3	0.5	0.7	1.2	1.5	1.9	2.0
70°	0.3	0.3	0.5	0.7	1.0	1.4	1.7	1.9
72.5°	0.3	0.3	0.5	0.7	1.0	1.4	1.5	1.7
75°	0.3	0.3	0.5	0.7	0.8	1.2	1.5	1.5
77.5°	0.3	0.3	0.5	0.5	0.8	1.0	1.4	1.4
80°	0.3	0.3	0.5	0.5	0.7	0.8	1.0	1.2
82.5°	0.3	0.3	0.3	0.5	0.5	0.7	0.8	0.8
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)