

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: P1339544

Luminaire Tested: P3A05R459840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339544
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: P3A05R459840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

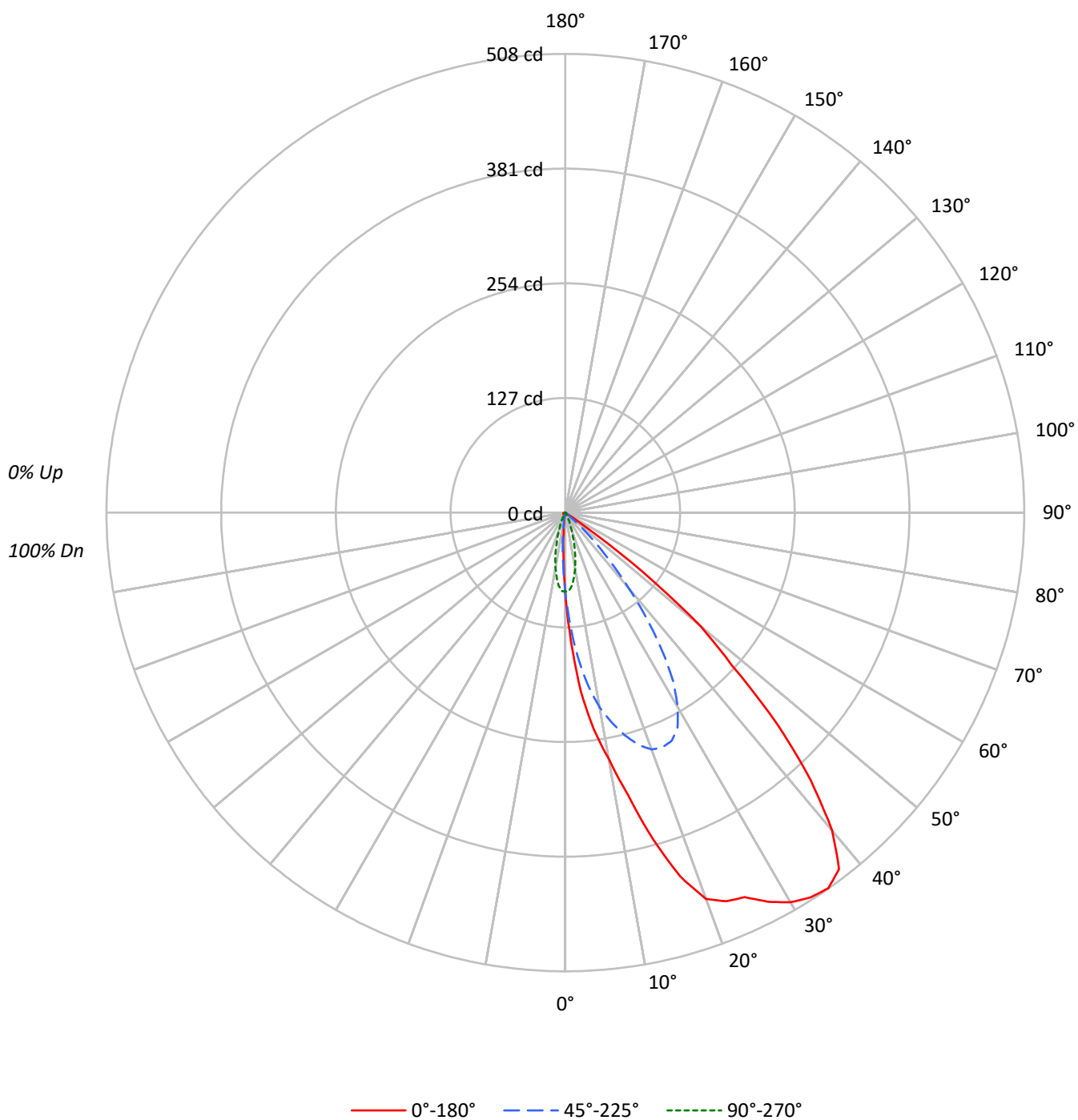
Lumens per Lamp: N/A
Luminaire Lumens: 230.0 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19187	19187	19187	19187	19187
5°	43738	35483	17962	7198	4909
10°	61633	48741	13872	1581	735
15°	84927	57980	8854	522	431
20°	106199	65129	4620	350	350
25°	113644	67431	2129	290	315
30°	126146	62972	962	304	329
35°	135881	50192	321	321	402
40°	131475	31115	172	372	487
45°	103267	14668	186	465	589
50°	66352	1706	273	580	785
55°	10093	153	306	726	956
60°	175	175	351	833	1009
65°	208	208	415	882	1193
70°	256	256	513	962	1346
75°	169	339	678	1101	1440
80°	253	505	758	1263	1642
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 103267 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	4.2
10°-20°	34.6	15.1
20°-30°	60.8	26.4
30°-40°	69.1	30.0
40°-50°	44.7	19.4
50°-60°	8.8	3.8
60°-70°	1.1	0.5
70°-80°	0.9	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°	105.0	45.7
0°-40°	174.1	75.7
0°-60°	227.6	99.0
0°-90°	230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	230.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	199	161	82	33	22	21
15°	374	255	39	2	2	108
25°	470	279	9	1	1	220
35°	508	188	1	1	2	312
45°	333	47	1	2	2	251
55°	26	0	1	2	2	50
65°	0	0	1	2	2	0
75°	0	0	1	1	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°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	142.1	141.8	142.3	138.5	138.3	135.4	134.6	131.4	127.0	124.8	119.8
5°	198.7	196.8	196.8	192.2	190.6	187.3	181.8	174.8	169.1	161.2	152.7
7.5°	242.4	242.0	242.0	237.9	234.1	229.5	222.0	214.1	204.9	192.7	180.4
10°	276.8	277.4	275.6	272.0	266.4	261.4	252.6	242.9	231.6	218.9	202.5
12.5°	320.3	316.0	314.7	306.4	299.3	289.7	279.1	268.1	254.1	238.1	219.7
15°	374.1	368.7	363.4	352.4	340.5	325.6	309.1	293.0	274.9	255.4	232.4
17.5°	422.2	422.2	415.1	397.8	382.4	360.5	338.2	316.6	295.3	269.7	240.8
20°	455.1	453.4	448.0	435.3	417.8	393.0	363.9	333.7	308.0	279.1	245.6
22.5°	465.9	465.5	465.7	458.2	444.1	418.4	382.8	347.2	314.9	281.4	243.3
25°	469.7	470.5	472.4	469.5	458.9	433.2	394.3	353.5	317.0	278.7	234.5
27.5°	485.7	484.1	486.3	484.3	472.4	441.6	396.6	352.0	312.4	268.9	218.7
30°	498.2	497.8	501.5	499.7	484.1	447.0	394.5	346.2	301.0	248.7	193.9
32.5°	505.3	505.5	506.5	499.3	476.3	435.3	384.1	334.5	279.7	222.4	161.6
35°	507.6	506.5	501.1	483.6	452.0	408.2	358.5	306.6	250.6	187.5	127.7
37.5°	497.6	491.6	477.8	451.6	415.1	374.1	325.8	271.4	210.8	148.1	95.2
40°	459.3	451.4	433.9	407.2	373.2	333.5	284.1	227.2	163.5	108.7	66.9
42.5°	402.0	398.0	379.7	356.4	327.6	287.6	236.6	178.9	121.0	75.0	42.7
45°	333.0	327.8	316.2	295.6	272.9	231.0	183.5	128.1	82.5	47.3	21.2
47.5°	249.7	250.1	242.2	226.6	204.3	169.3	125.6	86.0	51.7	24.4	4.8
50°	194.5	191.8	180.6	164.7	138.7	112.7	81.2	54.2	27.3	5.0	0.4
52.5°	107.7	109.4	103.5	98.3	84.8	67.3	47.9	27.5	5.8	0.6	0.4
55°	26.4	27.9	26.7	27.3	28.3	25.2	19.4	5.4	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.0	1.3	1.3	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°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	117.3	113.7	106.9	86.9	69.8	56.4	48.3	47.5
5°	145.2	135.4	121.2	81.6	51.6	32.7	23.7	22.3
7.5°	167.3	153.5	131.6	72.7	35.2	16.7	9.2	7.7
10°	185.6	166.0	137.0	62.3	22.1	7.1	3.8	3.3
12.5°	198.1	174.5	137.9	50.8	12.7	3.5	2.5	2.3
15°	206.2	177.2	133.3	39.0	7.1	2.3	2.1	1.9
17.5°	209.5	174.8	124.5	28.3	3.8	1.7	1.7	1.7
20°	207.9	167.3	111.4	19.8	2.5	1.5	1.5	1.5
22.5°	200.6	154.5	95.0	13.3	1.7	1.3	1.3	1.3
25°	186.2	137.0	77.7	8.8	1.2	1.2	1.3	1.3
27.5°	164.7	115.4	59.4	6.0	1.0	1.2	1.3	1.3
30°	137.5	91.4	42.7	3.8	1.0	1.2	1.2	1.3
32.5°	109.3	66.6	28.1	2.3	0.8	1.2	1.3	1.5
35°	79.2	45.4	17.9	1.2	1.0	1.2	1.3	1.5
37.5°	55.6	29.6	10.4	0.8	1.0	1.2	1.5	1.5
40°	36.2	16.5	3.8	0.6	1.0	1.3	1.5	1.7
42.5°	18.9	5.8	0.8	0.6	1.0	1.3	1.7	1.9
45°	4.8	0.8	0.2	0.6	1.2	1.5	1.9	1.9
47.5°	0.6	0.2	0.2	0.8	1.2	1.7	1.9	2.1
50°	0.2	0.4	0.4	0.8	1.2	1.7	2.1	2.3
52.5°	0.4	0.4	0.4	0.8	1.3	1.7	2.3	2.5
55°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.5
57.5°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
60°	0.4	0.4	0.4	0.8	1.3	1.9	2.3	2.3
62.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.3	2.3
65°	0.4	0.6	0.6	0.8	1.3	1.7	2.1	2.3
67.5°	0.4	0.4	0.6	0.8	1.3	1.7	2.1	2.3
70°	0.4	0.4	0.6	0.8	1.2	1.5	1.9	2.1
72.5°	0.4	0.4	0.6	0.8	1.2	1.5	1.7	1.9
75°	0.4	0.4	0.6	0.8	1.0	1.3	1.7	1.7
77.5°	0.4	0.4	0.6	0.6	1.0	1.2	1.5	1.5
80°	0.4	0.4	0.6	0.6	0.8	1.0	1.2	1.3
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	1.0	1.0
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)