

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: P1337896

Luminaire Tested: P3A05R309727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

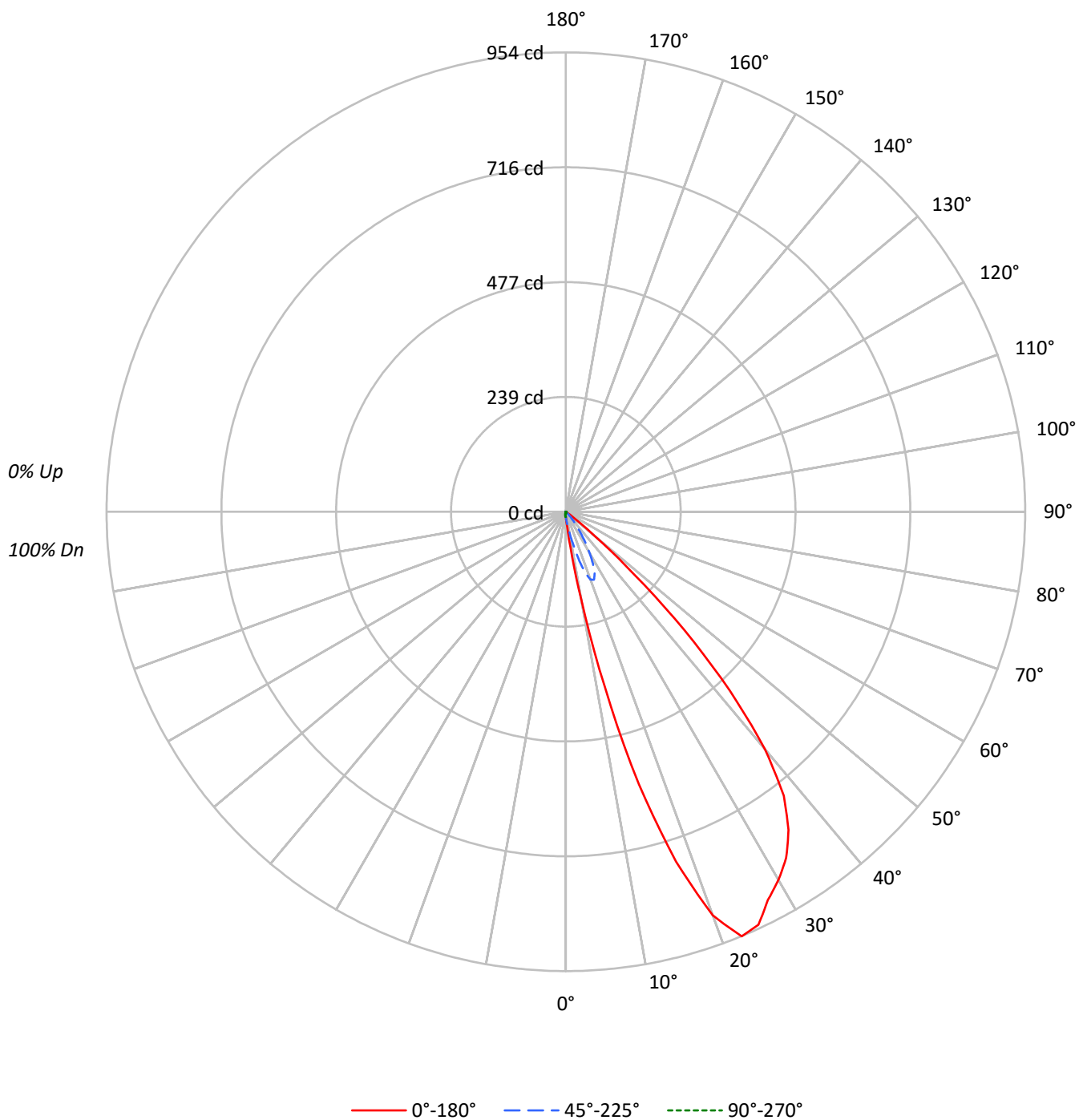
Lumens per Lamp: N/A
Luminaire Lumens: 225.0 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	95	92	104	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	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	67	55	48	43	65	55	48	43	53	47	43		52	47	43		52	46	43	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°	2346	2346	2346	2346	2346
5°	7066	4711	2223	991	814
10°	40881	9975	1737	468	312
15°	132986	22634	1203	91	45
20°	208081	35026	770	0	0
25°	228933	34236	387	0	0
30°	223579	24687	152	0	0
35°	215814	14027	54	0	0
40°	184031	5954	0	0	0
45°	108011	2233	62	0	62
50°	26234	409	68	68	205
55°	2294	0	153	229	306
60°	88	0	175	263	439
65°	104	104	311	311	519
70°	128	128	385	385	513
75°	0	169	508	508	508
80°	0	253	758	505	505
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 108011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.9
10°-20°	30.9	13.7
20°-30°	78.6	34.9
30°-40°	78.3	34.8
40°-50°	31.7	14.1
50°-60°	2.2	1.0
60°-70°	0.5	0.2
70°-80°	0.5	0.2
80°-90°	0.3	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°	111.5	49.6
0°-40°	189.8	84.4
0°-60°	223.7	99.4
0°-90°	225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	225.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	32	21	10	4	4	7
15°	586	100	5	0	0	170
25°	946	142	2	0	0	427
35°	806	52	0	0	0	494
45°	348	7	0	0	0	266
55°	6	0	0	1	1	16
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	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°	67.5°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	17.7	17.9	17.9	17.5	17.3	17.3	16.7	16.4	15.8	15.2	13.2
5°	32.1	31.5	30.6	30.6	28.8	27.8	26.3	24.7	23.4	21.4	15.2
7.5°	72.8	67.8	66.4	64.6	57.6	52.0	45.6	40.1	35.0	30.6	16.9
10°	183.6	173.9	165.9	149.7	129.3	109.8	91.7	70.7	56.3	44.8	18.1
12.5°	369.9	356.9	341.5	311.9	273.9	225.1	182.0	135.9	95.4	66.0	18.5
15°	585.8	563.8	539.7	502.1	439.8	369.9	291.9	218.6	153.2	99.7	18.1
17.5°	761.7	753.1	717.5	666.1	589.9	499.8	403.8	303.5	206.6	130.6	16.9
20°	891.7	885.7	842.7	788.1	702.1	598.9	477.0	356.5	243.8	150.1	15.0
22.5°	954.4	953.4	922.3	866.4	775.3	658.3	524.1	387.1	255.4	152.8	12.5
25°	946.2	949.9	932.2	890.7	803.3	682.8	538.1	387.1	246.9	141.5	10.5
27.5°	908.7	911.2	900.1	868.2	786.8	665.1	518.5	362.3	222.5	121.5	8.6
30°	883.0	884.1	870.3	836.2	749.8	624.8	472.5	316.2	185.4	97.5	6.4
32.5°	851.8	851.6	835.6	796.5	701.3	568.3	414.1	261.3	142.5	74.0	3.7
35°	806.2	801.0	779.2	734.2	628.9	492.2	339.4	199.0	102.6	52.4	2.3
37.5°	743.4	730.1	699.2	639.0	527.4	385.9	251.7	139.8	70.1	34.7	1.4
40°	642.9	628.7	586.8	513.6	398.9	277.8	169.6	91.1	44.2	20.8	0.8
42.5°	504.1	494.5	437.9	364.9	263.4	177.2	102.0	53.9	24.9	11.9	0.2
45°	348.3	335.7	291.3	229.4	158.1	98.3	57.2	28.2	14.2	7.2	0.0
47.5°	192.2	176.8	151.1	118.8	79.6	51.6	28.8	15.2	8.0	3.5	0.0
50°	76.9	76.3	60.7	43.2	30.4	23.4	14.4	8.2	4.1	1.2	0.2
52.5°	26.9	26.9	23.2	18.9	14.8	10.7	7.2	3.9	1.4	0.4	0.2
55°	6.0	6.6	6.2	5.8	5.6	4.7	3.1	1.4	0.4	0.0	0.2
57.5°	0.6	0.6	0.6	0.8	1.0	1.0	0.8	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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):

	90°	112.5°	135°	157.5°	180°
0°	10.7	10.7	10.7	10.7	10.7
2.5°	10.7	8.4	7.0	6.2	6.0
5°	10.1	6.4	4.5	3.9	3.7
7.5°	9.0	4.7	3.1	2.5	2.3
10°	7.8	3.5	2.1	1.4	1.4
12.5°	6.6	2.7	1.2	0.6	0.4
15°	5.3	1.6	0.4	0.2	0.2
17.5°	4.1	1.0	0.0	0.0	0.0
20°	3.3	0.4	0.0	0.0	0.0
22.5°	2.5	0.2	0.0	0.0	0.0
25°	1.6	0.0	0.0	0.0	0.0
27.5°	1.0	0.0	0.0	0.0	0.0
30°	0.6	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.6
52.5°	0.4	0.2	0.4	0.6	0.6
55°	0.4	0.4	0.6	0.8	0.8
57.5°	0.4	0.4	0.6	0.8	0.8
60°	0.4	0.4	0.6	0.8	1.0
62.5°	0.6	0.6	0.6	0.8	0.8
65°	0.6	0.6	0.6	0.8	1.0
67.5°	0.6	0.6	0.6	0.8	1.0
70°	0.6	0.6	0.6	0.8	0.8
72.5°	0.8	0.6	0.6	0.8	0.8
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.4	0.6	0.6
80°	0.6	0.4	0.4	0.4	0.4
82.5°	0.6	0.4	0.4	0.4	0.4
85°	0.6	0.4	0.2	0.2	0.2
87.5°	0.6	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)