

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: P1337976

Luminaire Tested: P3A05R309830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337976
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: P3A05R309830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

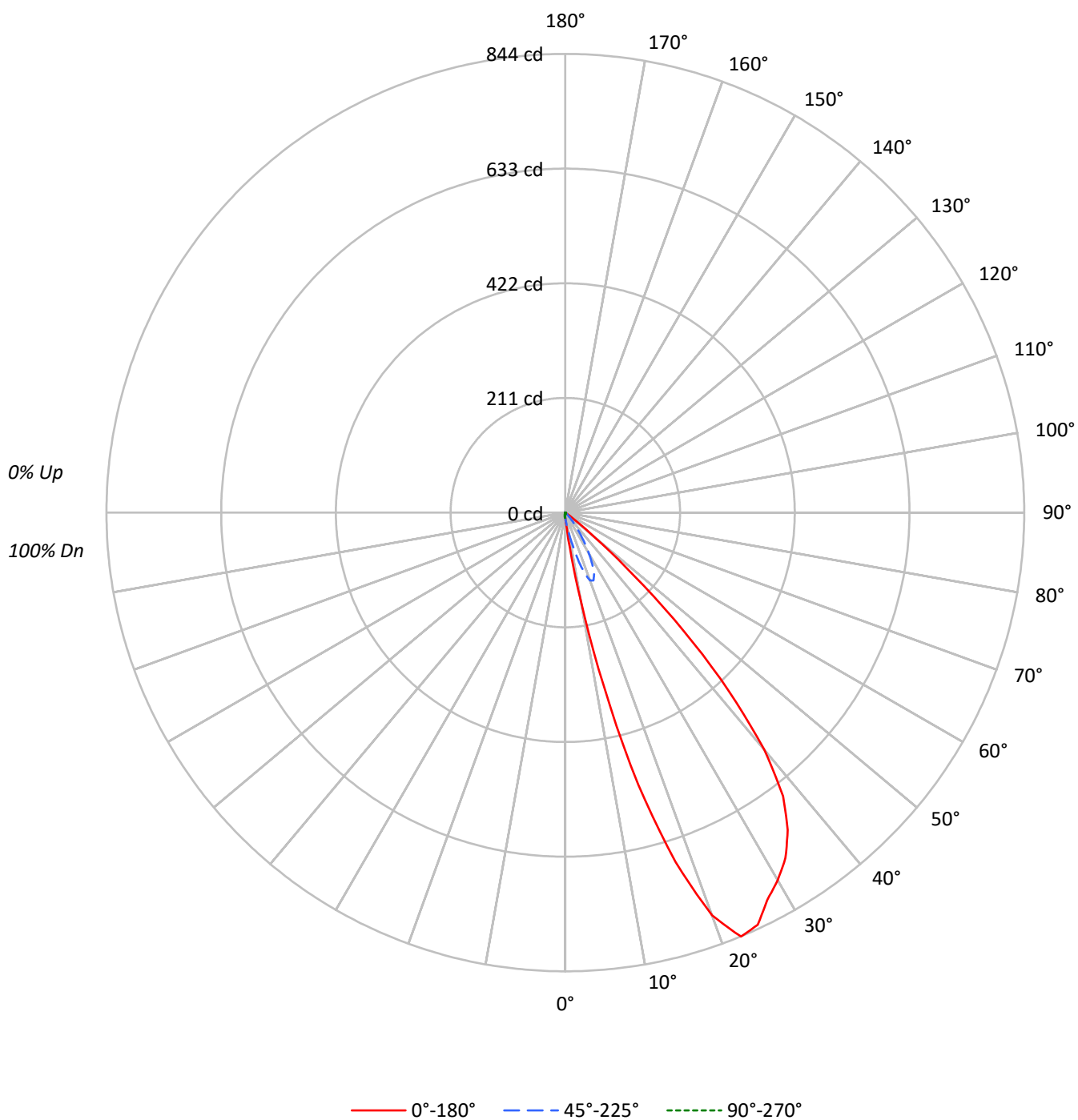
Lumens per Lamp: N/A
Luminaire Lumens: 199.0 lumens
Efficiency: N/A
Efficacy: 27.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.49 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	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°	2083	2083	2083	2083	2083
5°	6251	4160	1959	880	726
10°	36161	8817	1536	401	289
15°	117617	20023	1067	91	45
20°	184023	30966	677	0	0
25°	202463	30268	363	0	0
30°	197752	21826	127	0	0
35°	190865	12421	54	0	0
40°	162762	5267	0	0	0
45°	95514	1985	62	0	62
50°	23198	375	68	68	171
55°	2026	0	153	191	268
60°	88	0	175	219	395
65°	104	104	259	259	467
70°	128	128	321	321	449
75°	0	169	424	424	424
80°	0	253	631	505	505
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 95514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.9
10°-20°	27.4	13.7
20°-30°	69.5	34.9
30°-40°	69.3	34.8
40°-50°	28.1	14.1
50°-60°	1.9	1.0
60°-70°	0.4	0.2
70°-80°	0.4	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°	98.6	49.5
0°-40°	167.9	84.4
0°-60°	197.9	99.4
0°-90°	199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	199.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	28	19	9	4	3	7
15°	518	88	5	0	0	151
25°	837	125	2	0	0	378
35°	713	46	0	0	0	437
45°	308	6	0	0	0	235
55°	5	0	0	0	1	14
65°	0	0	0	0	1	0
75°	0	0	0	0	0	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°	67.5°
0°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	15.6	15.8	15.8	15.5	15.3	15.3	14.7	14.5	14.0	13.5	11.6
5°	28.4	27.8	27.1	27.1	25.5	24.5	23.3	21.8	20.7	18.9	13.5
7.5°	64.4	60.0	58.7	57.1	50.9	46.0	40.4	35.5	30.9	27.1	14.9
10°	162.4	153.8	146.7	132.4	114.4	97.1	81.1	62.6	49.8	39.6	16.0
12.5°	327.1	315.7	302.0	275.9	242.2	199.1	160.9	120.2	84.4	58.4	16.4
15°	518.1	498.6	477.3	444.1	389.0	327.1	258.2	193.3	135.5	88.2	16.0
17.5°	673.7	666.1	634.6	589.2	521.7	442.1	357.1	268.4	182.7	115.5	14.9
20°	788.6	783.4	745.4	697.0	621.0	529.7	421.9	315.3	215.7	132.7	13.3
22.5°	844.1	843.2	815.7	766.3	685.7	582.3	463.5	342.4	225.8	135.1	11.1
25°	836.8	840.1	824.5	787.7	710.5	603.9	475.9	342.4	218.4	125.1	9.3
27.5°	803.7	805.9	796.1	767.9	695.9	588.3	458.6	320.4	196.8	107.5	7.6
30°	781.0	781.9	769.7	739.5	663.2	552.6	417.9	279.7	164.0	86.2	5.6
32.5°	753.4	753.2	739.0	704.4	620.3	502.6	366.2	231.1	126.0	65.5	3.3
35°	713.0	708.5	689.2	649.4	556.2	435.3	300.2	176.0	90.7	46.4	2.0
37.5°	657.5	645.7	618.4	565.2	466.4	341.3	222.6	123.7	62.0	30.7	1.3
40°	568.6	556.1	519.0	454.2	352.8	245.7	150.0	80.6	39.1	18.4	0.7
42.5°	445.9	437.3	387.3	322.8	232.9	156.7	90.2	47.6	22.0	10.5	0.2
45°	308.0	296.9	257.7	202.9	139.8	86.9	50.6	24.9	12.5	6.4	0.0
47.5°	170.0	156.4	133.7	105.1	70.4	45.6	25.5	13.5	7.1	3.1	0.0
50°	68.0	67.5	53.6	38.2	26.9	20.7	12.7	7.3	3.6	1.1	0.2
52.5°	23.8	23.8	20.5	16.7	13.1	9.5	6.4	3.5	1.3	0.4	0.2
55°	5.3	5.8	5.5	5.1	4.9	4.2	2.7	1.3	0.4	0.0	0.2
57.5°	0.5	0.5	0.5	0.7	0.9	0.9	0.7	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	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.5
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°	9.5	9.5	9.5	9.5	9.5
2.5°	9.5	7.5	6.2	5.5	5.3
5°	8.9	5.6	4.0	3.5	3.3
7.5°	8.0	4.2	2.7	2.2	2.0
10°	6.9	3.1	1.8	1.3	1.3
12.5°	5.8	2.4	1.1	0.5	0.4
15°	4.7	1.5	0.4	0.2	0.2
17.5°	3.6	0.9	0.0	0.0	0.0
20°	2.9	0.4	0.0	0.0	0.0
22.5°	2.2	0.2	0.0	0.0	0.0
25°	1.5	0.0	0.0	0.0	0.0
27.5°	0.9	0.0	0.0	0.0	0.0
30°	0.5	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	0.5
52.5°	0.4	0.2	0.4	0.5	0.5
55°	0.4	0.4	0.5	0.7	0.7
57.5°	0.4	0.4	0.5	0.7	0.7
60°	0.4	0.4	0.5	0.7	0.9
62.5°	0.5	0.5	0.5	0.7	0.7
65°	0.5	0.5	0.5	0.7	0.9
67.5°	0.5	0.5	0.5	0.7	0.9
70°	0.5	0.5	0.5	0.7	0.7
72.5°	0.7	0.5	0.5	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.4	0.5	0.5
80°	0.5	0.4	0.4	0.4	0.4
82.5°	0.5	0.4	0.4	0.4	0.4
85°	0.5	0.4	0.2	0.2	0.2
87.5°	0.5	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)