

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: P1333998

Luminaire Tested: P3A02R159030D2WDE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1333998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159030D2WDE010 E3A301H
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

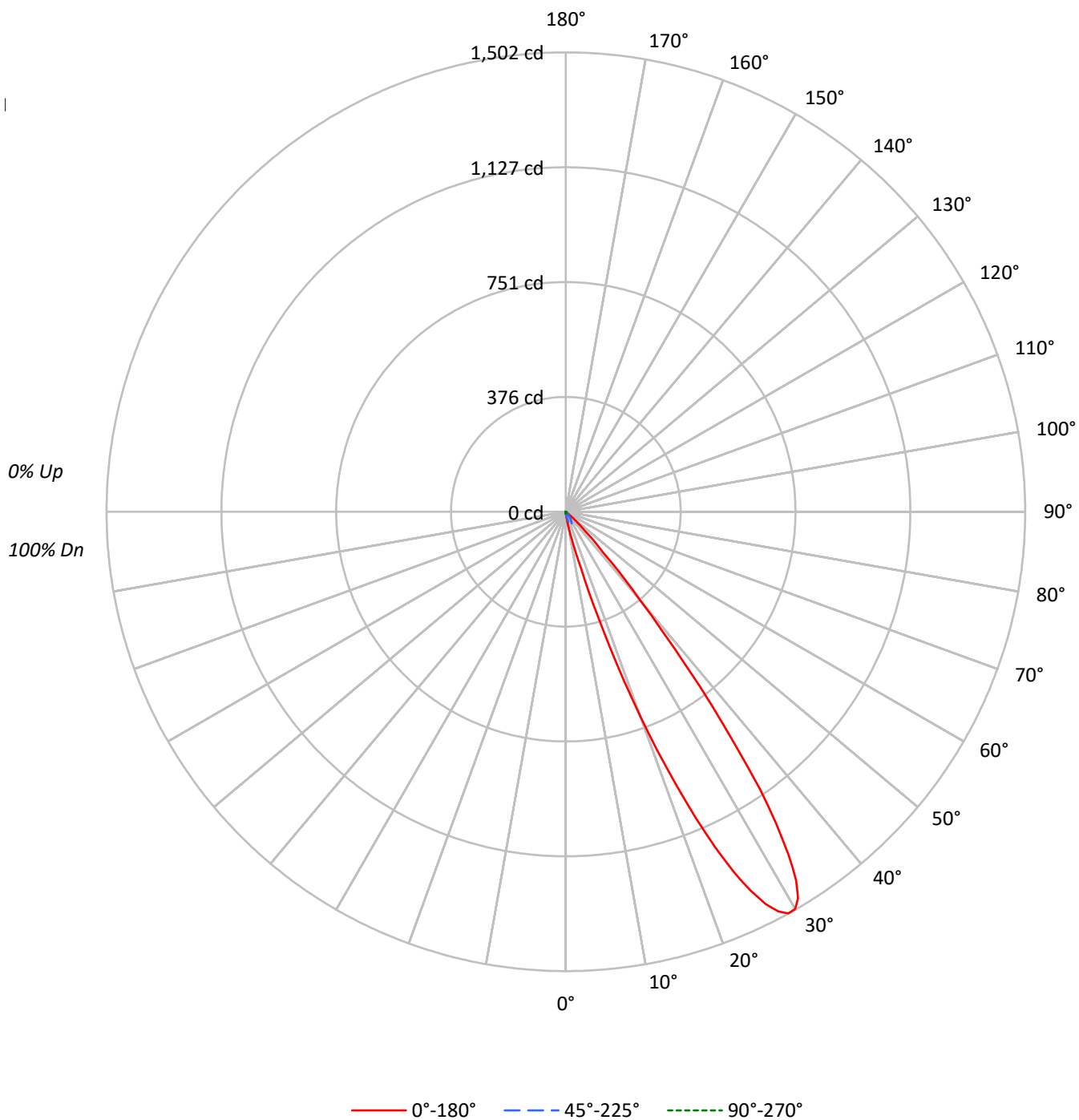
Lumens per Lamp: N/A
Luminaire Lumens: 164.0 lumens
Efficiency: N/A
Efficacy: 22.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	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	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1184	1184	1184	1184	1184
5°	2553	1893	1123	594	484
10°	11356	3585	891	245	178
15°	42997	8286	613	114	68
20°	165331	11691	373	47	47
25°	314389	10960	194	0	0
30°	379780	8837	76	0	0
35°	296202	6023	54	0	0
40°	108088	2977	57	0	57
45°	27755	899	62	0	93
50°	4674	102	68	68	171
55°	612	0	115	191	306
60°	88	88	219	263	439
65°	104	104	311	415	519
70°	128	128	385	385	513
75°	169	169	508	424	508
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27755 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.5
10°-20°	12.6	7.7
20°-30°	69.7	42.5
30°-40°	67.3	41.1
40°-50°	11.7	7.1
50°-60°	0.8	0.5
60°-70°	0.5	0.3
70°-80°	0.4	0.2
80°-90°	0.2	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°	83.0	50.6
0°-40°	150.4	91.7
0°-60°	162.9	99.3
0°-90°	164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	164.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	12	9	5	3	2	2
15°	189	36	3	0	0	84
25°	1299	45	1	0	0	581
35°	1106	22	0	0	0	636
45°	90	3	0	0	0	96
55°	2	0	0	0	1	3
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
2.5°	8.0	7.7	7.8	7.8	7.8	7.8	7.8	7.5	7.5	7.7	6.9
5°	11.6	11.6	11.5	11.6	11.6	11.5	11.2	11.0	11.0	10.7	8.6
7.5°	23.3	23.0	23.0	22.7	21.1	20.6	20.3	19.5	18.0	17.7	11.2
10°	51.0	51.2	50.1	48.7	48.5	46.1	45.3	43.9	41.2	38.4	16.1
12.5°	92.7	90.6	87.9	88.1	83.4	81.8	78.2	74.2	70.0	65.7	26.5
15°	189.4	183.5	187.0	178.4	168.6	157.6	146.4	132.4	120.4	107.7	36.5
17.5°	398.8	404.6	394.8	358.0	335.3	308.7	271.2	235.0	204.0	179.2	44.7
20°	708.5	716.9	683.9	651.8	596.8	536.8	474.3	403.5	335.7	276.9	50.1
21°	837.9	832.8	819.2	767.8	704.3	634.8	558.2	480.0	397.9	321.6	50.6
22°	962.9	965.3	933.7	880.0	813.9	736.9	643.4	546.9	458.3	358.0	49.8
23°	1087.5	1095.2	1053.4	1003.0	919.9	832.9	724.7	620.6	511.1	399.6	48.2
24°	1202.9	1197.6	1169.4	1105.9	1017.0	915.2	802.9	676.6	554.5	435.2	46.9
25°	1299.4	1298.7	1254.4	1192.7	1091.0	978.2	854.4	722.4	591.7	459.3	45.3
26°	1378.3	1365.4	1330.5	1255.2	1154.8	1035.8	896.7	755.7	612.6	471.4	43.7
27°	1439.3	1430.0	1383.1	1304.8	1200.0	1068.4	923.8	772.3	622.2	475.4	41.6
28°	1480.3	1470.2	1420.3	1339.6	1224.9	1088.8	938.2	779.3	622.2	471.6	39.7
29°	1501.5	1487.8	1438.0	1351.5	1230.6	1091.2	934.7	772.4	612.4	459.8	37.5
30°	1499.9	1482.8	1430.7	1340.7	1213.6	1071.6	915.1	747.7	590.4	442.2	34.9
31°	1474.1	1454.9	1396.7	1304.0	1178.3	1034.6	878.1	714.5	560.3	419.4	32.4
32°	1421.6	1397.3	1340.5	1248.2	1124.1	979.2	824.3	663.3	515.1	386.1	29.7
33°	1336.1	1311.7	1250.7	1164.1	1050.7	909.0	753.0	608.3	463.8	346.3	27.4
34°	1229.0	1206.7	1154.2	1066.9	958.1	820.1	671.0	532.2	410.5	306.9	25.0
35°	1106.5	1070.9	1023.4	954.3	848.2	709.4	582.4	461.4	355.6	265.6	22.5
36°	940.8	947.1	896.7	812.2	724.3	615.5	493.6	384.6	297.4	226.4	20.3
37°	793.8	783.8	751.7	686.3	609.7	501.7	413.7	326.1	250.1	191.4	17.9
38°	640.4	642.6	611.2	560.9	485.0	412.5	332.9	267.9	209.3	162.9	15.6
39°	501.2	499.5	491.0	444.5	375.7	328.2	269.8	222.1	174.4	137.4	13.2
40°	377.6	380.5	360.7	332.6	292.6	253.5	214.9	177.1	144.2	115.8	10.4
42.5°	183.6	188.1	175.0	167.8	150.1	134.8	113.7	92.8	79.0	68.3	4.6
45°	89.5	86.9	85.8	82.3	78.2	69.9	61.9	53.1	46.4	40.0	2.9
47.5°	45.8	44.5	44.5	43.1	41.6	38.9	34.9	32.1	28.9	24.9	1.1
50°	13.7	13.6	13.4	13.6	13.1	13.6	13.9	14.0	12.8	12.6	0.3
52.5°	5.4	5.6	5.4	5.9	5.9	5.7	5.9	5.7	5.6	4.9	0.0
55°	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.9	1.8	1.9	0.0
57.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.4	5.4	5.4	5.4	5.4	5.4
2.5°	6.4	5.6	4.6	3.8	3.5	3.4
5°	6.9	5.1	3.5	2.7	2.4	2.2
7.5°	7.3	4.6	2.7	1.9	1.4	1.3
10°	7.7	4.0	2.1	1.1	0.8	0.8
12.5°	7.7	3.2	1.4	0.6	0.5	0.5
15°	7.5	2.7	1.0	0.5	0.3	0.3
17.5°	7.3	2.1	0.6	0.3	0.2	0.3
20°	6.9	1.6	0.3	0.2	0.2	0.2
21°	6.7	1.4	0.3	0.2	0.2	0.2
22°	6.4	1.3	0.2	0.0	0.2	0.2
23°	6.1	1.0	0.2	0.0	0.0	0.0
24°	5.6	0.8	0.2	0.0	0.0	0.0
25°	5.3	0.8	0.2	0.0	0.0	0.0
26°	4.9	0.5	0.0	0.0	0.0	0.0
27°	4.5	0.3	0.0	0.0	0.0	0.0
28°	4.1	0.3	0.0	0.0	0.0	0.0
29°	3.7	0.3	0.0	0.0	0.0	0.0
30°	3.2	0.3	0.0	0.0	0.0	0.0
31°	2.6	0.2	0.0	0.0	0.0	0.0
32°	2.1	0.2	0.0	0.0	0.0	0.0
33°	1.4	0.2	0.0	0.0	0.0	0.0
34°	1.0	0.2	0.0	0.0	0.0	0.0
35°	0.8	0.2	0.0	0.0	0.0	0.0
36°	0.5	0.2	0.0	0.0	0.0	0.2
37°	0.5	0.2	0.0	0.0	0.0	0.2
38°	0.3	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.3
45°	0.0	0.2	0.0	0.0	0.2	0.3
47.5°	0.0	0.2	0.0	0.0	0.3	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.3	0.5	0.6
55°	0.2	0.3	0.3	0.5	0.6	0.8
57.5°	0.2	0.5	0.5	0.6	0.8	0.8
60°	0.3	0.5	0.6	0.6	1.0	1.0
62.5°	0.3	0.6	0.6	0.6	1.0	1.0
65°	0.3	0.6	0.6	0.8	1.0	1.0
67.5°	0.3	0.6	0.6	0.6	0.8	1.0
70°	0.3	0.6	0.5	0.6	0.8	0.8
72.5°	0.3	0.6	0.5	0.5	0.6	0.8
75°	0.3	0.6	0.5	0.5	0.6	0.6
77.5°	0.3	0.5	0.5	0.3	0.5	0.5
80°	0.3	0.5	0.3	0.3	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.5	0.3	0.2	0.3	0.3
85°	0.3	0.5	0.3	0.2	0.2	0.2
87.5°	0.3	0.5	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)