



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L112510201



**Report No:** L112510201  
**Amendment:** N/A

**Issue Date:** 11/7/2025  
**Revision Date:** N/A

**Report Prepared For:** Arktura  
966 Sandhill Ave., Carson CA 90746

**Model Number:** SGL-WAV-3.5W-3500K-LES24IN

**Test:** Photometric/Electrical Test

**Standards Used:** Appropriate part or all test guidelines were used for test performed:

*IES LM79: 2008* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

*ANSI/IES LM79: 2019* Approved Methods for Optical and Electrical Measurements of Solid-State Lighting Products

*ANSI/NEMA C78.377: 2017* Specification of the Chromaticity of Solid State Lighting Products

*ANSI C82.77-10:2014:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

**Special Test Condition:** Fixture is tested with no special conditions.

**Date of Tests:** 11/7/25

**Seasoning of Sample:** No seasoning was performed in accordance with IESNA LM-79.

#### Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S3	6/21/26
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	6/25/26
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

### General Information

<b>Manufacturer:</b>	Arktura
<b>Model Number:</b>	SGL-WAV-3.5W-3500K-LES24IN
<b>Driver Model Number:</b>	N/A

### Photometric & Electrical Test Results

<b>Total Lumens:</b>	572.00
<b>Efficacy:</b>	72.39
<b>Input Voltage (VDC):</b>	24.00
<b>Input Current (Amp):</b>	0.3293
<b>Input Power (W):</b>	7.90
<b>Input Power Factor:</b>	1.0000
<b>Current ATHD (%):</b>	N/A

### Test Condition

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:45
<b>Total Operating Time (Hours):</b>	1:15

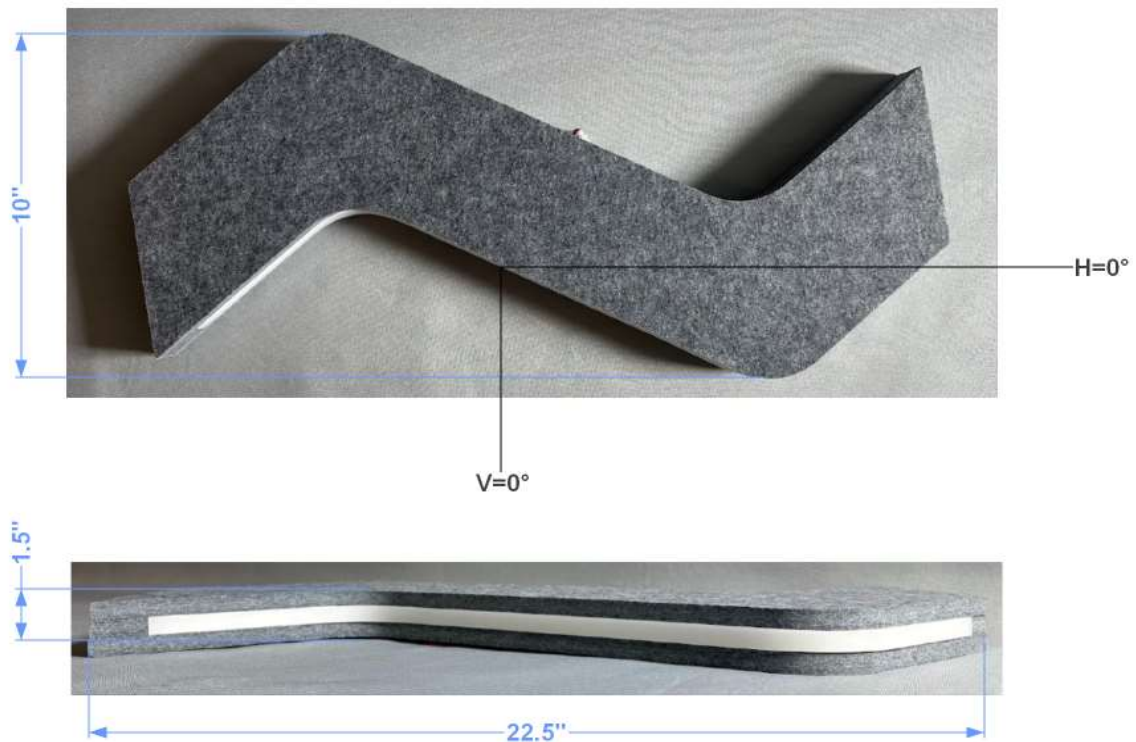


FIG. 1 LUMINAIRE



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## Test Methods

### Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by :                     JG                    

Test Report Reviewed by:  
Jason Gee

*\*Attached are photometric data reports.*



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## Addendum A

### Report Amendment Log

Date	Reference No.	Revision Description	Revision By



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## Photometric Test Report

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : L112510201.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L112510201  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 11/7/2025  
[MANUFAC] Arktura  
[LUMCAT] SGL-WAV-3.5W-3500K-LES24IN  
[LUMINAIRE] Arktura SoftGrid Light Wave 2ft LES section, 3.5WFT, 3500K  
[BALLASTCAT] N/A  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 24VDC  
[TEST PROCEDURE] IESNA:LM-79-19

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	572
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	7.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.06 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.04 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4231	3844	3627
55	4335	3693	3462
65	4619	3712	3225
75	5147	3898	2913
85	7998	4853	2684

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L112510201.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	151	151	151	151	151	151	151	151	151
5	151	151	151	151	151	150	150	149	150
10	151	151	151	151	150	149	148	147	147
15	148	149	149	149	148	146	145	143	143
20	145	146	146	146	145	143	141	138	138
25	140	142	142	143	141	138	136	132	132
30	134	137	137	137	135	132	130	125	125
35	128	130	130	131	129	125	123	117	117
40	120	123	123	124	121	117	115	108	108
45	111	114	115	116	113	108	105	99	99
50	102	105	105	107	104	99	95	89	89
55	93	96	95	97	94	88	86	80	79
60	84	88	86	87	83	77	76	72	68
65	74	80	77	76	72	67	67	65	54
70	63	73	67	65	60	56	58	59	41
75	52	66	59	55	49	47	50	53	28
80	41	58	52	44	38	37	43	46	24
85	31	51	44	35	29	27	36	40	21
90	20	44	36	26	21	19	30	33	18
95	10	36	29	19	12	14	24	27	15
100	1	29	22	14	4	9	18	21	12
105	1	21	16	9	1	6	13	14	9
110	1	15	10	5	1	2	8	8	6
115	1	9	6	2	1	1	5	4	3
120	1	4	3	1	1	1	2	2	1
125	1	2	1	1	1	1	1	1	1
130	1	1	1	1	1	1	1	1	1
135	1	1	1	1	1	1	1	1	1
140	1	1	1	1	1	1	1	1	1
145	1	1	1	1	1	1	1	1	1
150	1	1	1	1	1	1	1	1	1
155	1	1	1	1	1	1	1	1	1
160	1	1	1	1	1	1	1	1	1
165	1	1	1	1	1	1	1	1	1
170	1	1	1	1	1	1	1	1	1
175	1	1	1	1	2	1	1	1	1
180	0	0	0	0	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L112510201.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	55.82	N.A.	9.80
0-30	119.77	N.A.	21.00
0-40	198.59	N.A.	34.70
0-60	363.86	N.A.	63.60
0-80	489.65	N.A.	85.70
0-90	528.99	N.A.	92.50
10-90	514.66	N.A.	90.00
20-40	142.77	N.A.	25.00
20-50	227.19	N.A.	39.70
40-70	235.62	N.A.	41.20
60-80	125.78	N.A.	22.00
70-80	55.44	N.A.	9.70
80-90	39.35	N.A.	6.90
90-110	35.30	N.A.	6.20
90-120	39.27	N.A.	6.90
90-130	40.43	N.A.	7.10
90-150	41.83	N.A.	7.30
90-180	42.67	N.A.	7.50
110-180	7.37	N.A.	1.30
0-180	571.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	14.33
10-20	41.49
20-30	63.95
30-40	78.82
40-50	84.42
50-60	80.85
60-70	70.35
70-80	55.44
80-90	39.35
90-100	23.83
100-110	11.47
110-120	3.98
120-130	1.16
130-140	0.77
140-150	0.63
150-160	0.46
160-170	0.28
170-180	0.09

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L112510201.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	104	98	93	88	101	95	91	86	90	86	82	84	81	78	80	77	75	72
2	94	84	77	70	90	82	75	69	77	71	66	73	68	63	68	64	61	58
3	85	73	64	57	82	71	63	56	67	60	54	63	57	52	60	55	50	48
4	78	65	55	48	75	63	54	47	59	52	46	56	49	44	53	47	43	40
5	71	57	48	41	68	56	47	40	53	45	39	50	43	38	47	42	37	34
6	66	52	42	35	63	50	41	35	48	40	34	45	38	33	43	37	32	30
7	61	47	37	31	58	45	37	31	43	35	30	41	34	29	39	33	28	26
8	56	42	34	27	54	41	33	27	39	32	27	38	31	26	36	30	25	23
9	53	39	30	25	51	38	30	24	36	29	24	35	28	23	33	27	23	21
10	49	36	28	22	48	35	27	22	33	26	22	32	26	21	31	25	21	19



**IES INDOOR REPORT**  
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**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	16.1	17.6	16.5	18.1	18.6	16.3	17.9	16.8	18.3	18.8
	3H	18.3	19.8	18.8	20.2	20.7	18.6	20.0	19.0	20.5	21.0
	4H	19.3	20.7	19.8	21.1	21.7	19.6	21.0	20.1	21.5	22.0
	6H	20.2	21.4	20.7	21.9	22.5	20.6	21.9	21.1	22.4	22.9
	8H	20.5	21.7	21.0	22.3	22.8	21.1	22.3	21.6	22.8	23.4
	12H	20.8	22.0	21.4	22.5	23.1	21.6	22.8	22.1	23.3	23.9

UGR Viewed Endwise

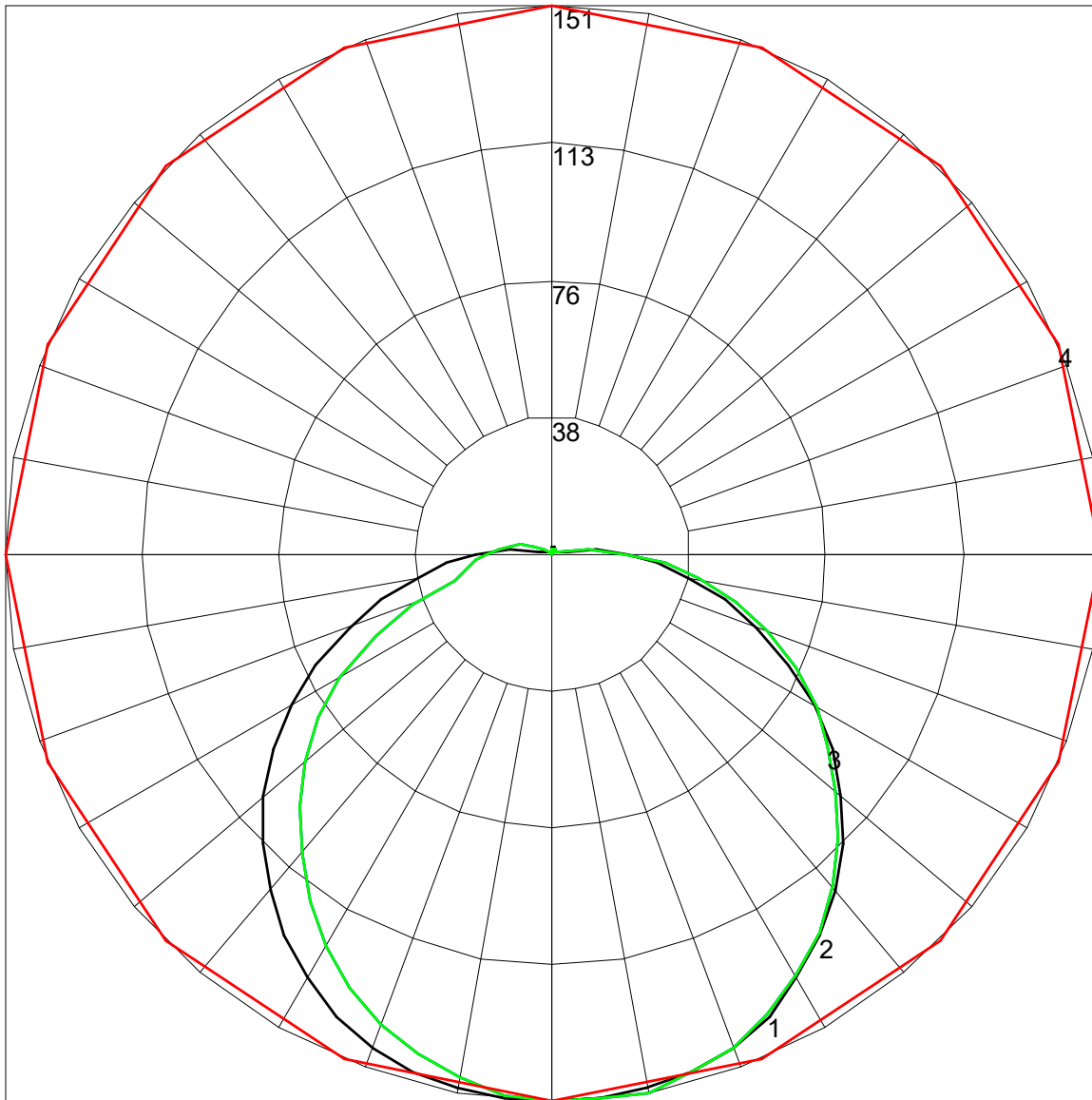
4H	2H	16.8	18.2	17.4	18.7	19.2	16.9	18.3	17.4	18.8	19.3
	3H	19.4	20.6	19.9	21.1	21.7	19.4	20.6	19.9	21.1	21.7
	4H	20.7	21.7	21.2	22.3	22.9	20.6	21.7	21.2	22.3	22.8
	6H	21.8	22.7	22.3	23.3	23.9	21.8	22.8	22.4	23.3	23.9
	8H	22.2	23.1	22.8	23.7	24.3	22.4	23.3	22.9	23.8	24.5
	12H	22.7	23.5	23.2	24.1	24.7	23.0	23.8	23.5	24.4	25.0

8H	4H	21.2	22.1	21.8	22.7	23.3	21.1	22.0	21.7	22.6	23.2
	6H	22.6	23.4	23.2	24.0	24.6	22.5	23.2	23.0	23.8	24.5
	8H	23.3	24.0	23.9	24.6	25.3	23.2	23.9	23.8	24.5	25.1
	12H	24.0	24.6	24.6	25.2	25.9	23.9	24.5	24.5	25.1	25.8

12H	4H	21.3	22.1	21.9	22.7	23.4	21.2	22.0	21.8	22.6	23.2
	6H	22.8	23.5	23.4	24.1	24.8	22.7	23.4	23.3	23.9	24.6
	8H	23.6	24.3	24.2	24.9	25.6	23.4	24.0	24.0	24.7	25.4

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 151 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)