

# PURE EDGE LIGHTING

## TEST REPORT

### SCOPE OF WORK

Electrical and Photometric tests as required to the IESNA LM-79 test standard.

### MODEL NUMBER

RVWW-10W-36-27K-SN

### REPORT NUMBER

104373788CHI-003

### ISSUE DATE

August 26, 2020

### REVISION DATE

None

### DOCUMENT CONTROL NUMBER

TBD

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**REPORT DATE: August 26, 2020**

**TEST REPORT**

**TEST OF ONE LINEAR WALL WASH**

MODEL NO. RVWW-10W-36-27K-SN  
LED MODEL NO. LUMILED/ L128-2780CB3500003  
DRIVER MODEL NO. HUARUI/DR-24V-2000-60D

**RENDERED TO:**

PURE EDGE LIGHTING  
1718 W. FULLERTON AVE.  
CHICAGO, IL 60614

**STATEMENT OF LIMITATIONS**

NVLAP Lab Code 600186-0. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

**AUTHORIZATION**

The testing performed was authorized by signed quote number Qu-01087644-1.

**STANDARDS USED**

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting  
ANSI NEMA ANSLG C78.377: 2015: Specifications of the Chromaticity of Solid State Lighting Products

**DESCRIPTION OF SAMPLE**

The client submitted one production sample of model number RVWW-10W-36-27K-SN. The sample was received by Intertek on August 4, 2020 in undamaged condition and one sample was tested as received. The sample designation was AH08042020023951-003.

**DATE OF TESTS**

August 6, 2020 through August 18, 2020.

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**SUMMARY**

<b>MODEL NO:</b>	RVWW-10W-36-27K-SN
<b>DESCRIPTION:</b>	LINEAR WALL WASH

CRITERIA	RESULTS	
	INTEGRATING SPHERE	GONIOPHOTOMETER
Lumen Output (lumens)	1234.4	1208.9
Input Power (W) @ 120 (VAC)	31.40	31.32
Lumen Efficacy (lm/W)	39.3	38.6
Input Power Factor @ 120 (VAC)	0.991	0.991

CRITERIA	RESULTS
Input Current ATHD (%) @ 120 (VAC)	12.33
Correlated Color Temperature (K)	2847
Color Rendering Index - Ra	91.9
Color Rendering - R9	59.0
DUV	0.0007
Chromaticity Coordinate (x)	0.447
Chromaticity Coordinate (y)	0.406
Chromaticity Coordinate (u')	0.256
Chromaticity Coordinate (v')	0.523

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**EQUIPMENT LIST**

EQUIPMENT USED	MODEL NO.	CONTROL NO.	LAST CAL DATE	CAL DUE DATE
Yokogawa Power Meter	WT210	146919	7/1/2020	7/1/2021
Omega Thermometer	DPI8-C24	146920	10/3/2019	10/3/2020
LSI High Speed Mirror Goniometer	6440T	146928	VBV	VBV
Newport Thermohygrometer	iServer	146957	12/2/2019	12/2/2020
Pacific, AC Power Supply	118-ACX	CHI0153	VBV	VBV
Labsphere 2M Sphere & Spectroradiometer	CDS1100	146137	VBV	VBV
Elgar AC Power Supply	CW1251M	146113	VBV	VBV
Sorenson DC Power Supply	XFR150-8	146847	VBV	VBV
Yokogawa Power Analyzer	WT1600	146767	4/6/2020	4/6/2021
Omega Temperature	MDSi8	146873	7/2/2020	7/2/2021
Newport Humidity Recorder	iTHX-SD	CHI0452	10/11/2019	10/11/2020

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**TEST METHODS**

**SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS**

No seasoning was performed in accordance with IESNA LM-79.

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - INTEGRATING SPHERE METHOD**

A Spectroradiometer and integrating sphere was used to measure correlated color temperature, chromaticity coordinates, and the color rendering index for each SSL unit.

Ambient temperature was measured at a position inside the sphere. Each SSL unit was operated on the client provided driver at the rated input voltage in its designated orientation. Each SSL unit was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

The calibration of the sphere photometer-spectroradiometer system is traceable to the National Institute of Standards and Technology.

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD**

A Type C Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

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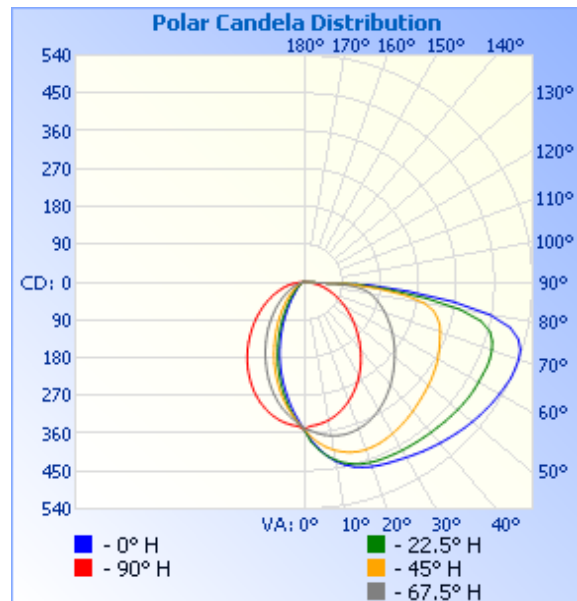
## RESULTS OF TESTS

### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

INTERTEK CONTROL NO.	BASE POSITION	INPUT VOLTAGE (VAC)	INPUT CURRENT (mA)	INPUT POWER (W)	INPUT POWER FACTOR	LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)
AH08042020023951-003	Base Up	120.1	263.3	31.32	0.991	1208.9	38.6

### INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	350	350	350	350	350
5	398	401	383	361	341
10	433	430	406	371	334
15	455	448	419	375	321
20	467	457	424	372	304
25	474	460	423	364	283
30	482	462	417	352	259
35	491	464	409	336	234
40	500	467	400	318	207
45	509	470	391	298	181
50	518	473	383	279	155
55	526	476	374	260	131
60	533	476	365	241	108
65	539	477	353	221	87
70	540	472	342	201	68
75	524	455	326	181	50
80	445	374	288	160	34
85	245	197	175	120	16
90	0	0	0	0	0



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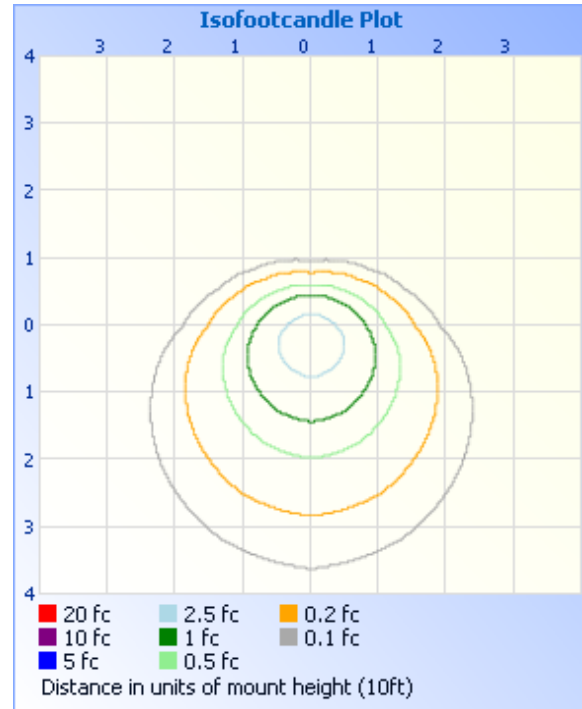
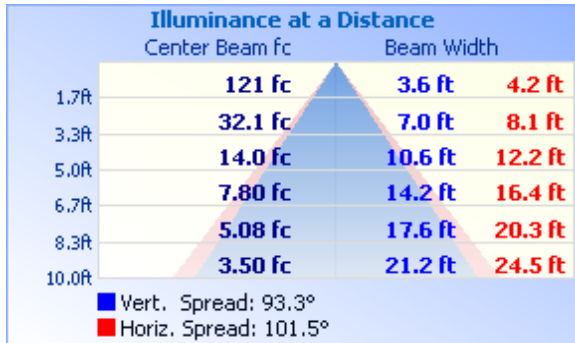
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RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

MOUNTING HEIGHT: 10ft	
ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	261.5	21.6
0-40	421.6	34.9
0-60	776.0	64.2
60-90	433.0	35.8
70-100	252.0	20.8
90-120	0.0	0.0
0-90	1208.9	100.0
90-180	0.0	0.0
0-180	1208.9	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	33.1	2.7
10-20	93.0	7.7
20-30	135.4	11.2
30-40	160.1	13.2
40-50	173.6	14.4
50-60	180.8	15.0
60-70	180.9	15.0
70-80	168.2	13.9
80-90	83.9	6.9

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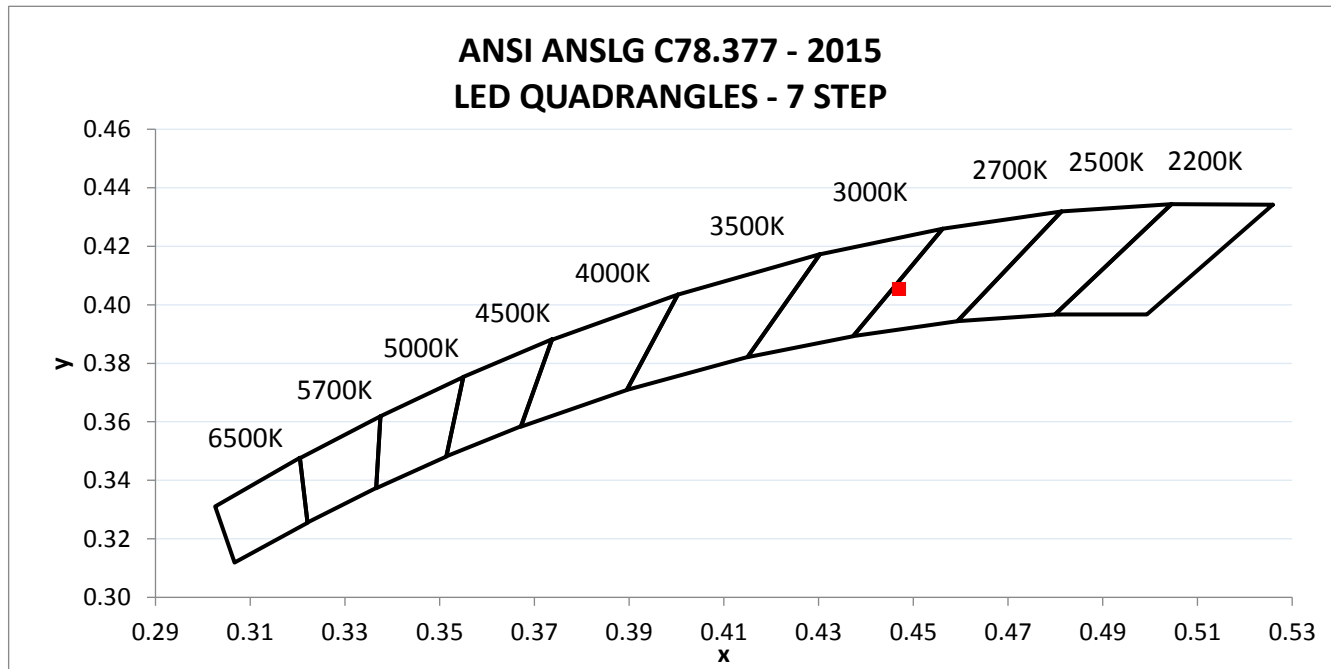
RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - INTEGRATING SPHERE METHOD (25°C +/- 1°C)

INTERTEK CONTROL NO.	BASE POSITION	INPUT VOLTAGE (VAC)	INPUT CURRENT (mA)	INPUT POWER (W)	INPUT POWER FACTOR ( )	INPUT CURRENT ATHD (%)
AH08042020023951-003	Base Up	119.98	264.06	31.40	0.991	12.33

LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)	CORRELATED COLOR TEMPERATURE - CCT (K)	CRI - Ra	CRI - R9	DUV
1234.4	39.3	2847	91.9	59.0	0.0007

CIE 1931 CHROMATICITY COORDINATE (x)	CIE 1931 CHROMATICITY COORDINATE (y)	CIE 1976 CHROMATICITY COORDINATE (u')	CIE 1976 CHROMATICITY COORDINATE (v')
0.447	0.406	0.256	0.523





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**TEST REPORT**

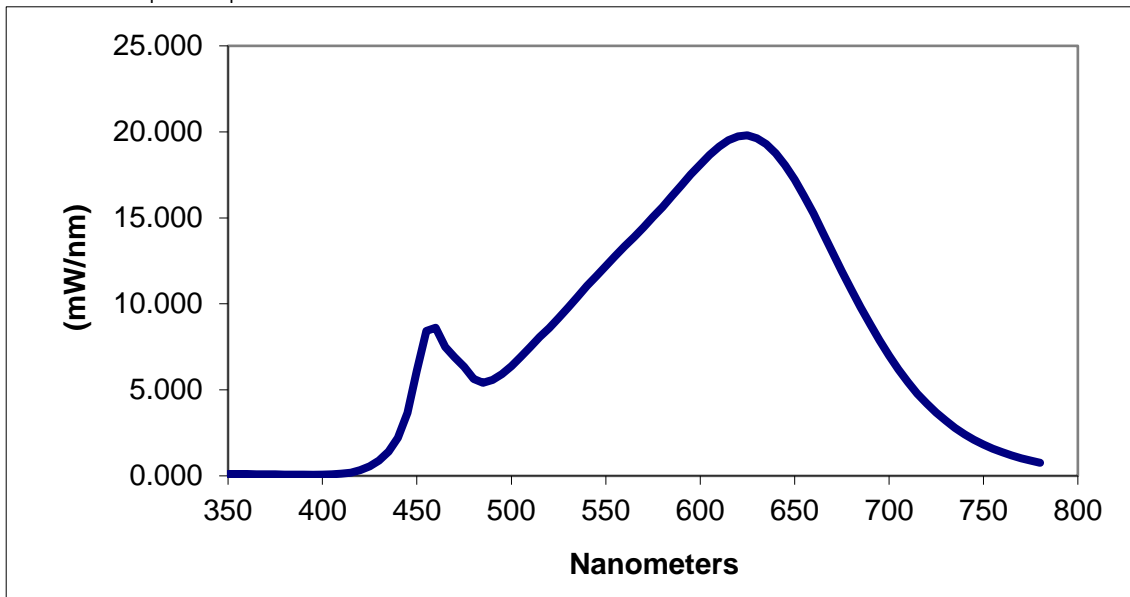
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**RESULTS OF TESTS**

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - INTEGRATING SPHERE METHOD (25°C +/- 1°C)**

SPECTRAL DISTRIBUTION OVER VISIBLE WAVELENGTHS*							
nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
350	0.113	460	8.615	570	14.451	680	10.822
355	0.113	465	7.493	575	15.055	685	9.795
360	0.112	470	6.905	580	15.628	690	8.814
365	0.096	475	6.346	585	16.259	695	7.887
370	0.099	480	5.639	590	16.881	700	6.996
375	0.091	485	5.415	595	17.531	705	6.201
380	0.076	490	5.588	600	18.108	710	5.444
385	0.069	495	5.909	605	18.653	715	4.783
390	0.070	500	6.379	610	19.142	720	4.210
395	0.065	505	6.921	615	19.509	725	3.684
400	0.069	510	7.496	620	19.743	730	3.210
405	0.084	515	8.064	625	19.800	735	2.785
410	0.121	520	8.598	630	19.625	740	2.421
415	0.191	525	9.178	635	19.296	745	2.101
420	0.324	530	9.787	640	18.753	750	1.825
425	0.552	535	10.401	645	18.054	755	1.583
430	0.897	540	11.043	650	17.221	760	1.382
435	1.412	545	11.604	655	16.274	765	1.186
440	2.208	550	12.203	660	15.254	770	1.020
445	3.655	555	12.781	665	14.146	775	0.883
450	6.104	560	13.358	670	12.997	780	0.763
455	8.430	565	13.884	675	11.906		

\*Without correction of sample absorption.



**End Of Test Results**

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**PICTURES**



**CONCLUSION**

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

Timothy Quigley  
Project Engineer  
Lighting Division

Report Reviewed By:

Jeff Davis  
N.A. Technical Lead  
Lighting Division

Attachments: IES File

**REVISION HISTORY**

JOB NUMBER	DATE OF REVISION	PROJECT HANDLER	REVIEWED BY	REVISION NOTE
None				