

PURE EDGE LIGHTING

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

RVWW-7W-36-27K-SN

REPORT NUMBER

104373788CHI-004

ISSUE DATE

August 24, 2020

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

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TEST REPORT

REPORT DATE: August 24, 2020

TEST OF ONE LINEAR WALL WASH

MODEL NO. RVWW-7W-36-27K-SN
LED MODEL NO. LUMILED/ L128-2780CB3500004
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-7W-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 AH08042020023951-004.

DATE OF TESTS

August 6, 2020 through August 18, 2020.

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SUMMARY

MODEL NO:	RVWW-7W-36-27K-SN
DESCRIPTION:	LINEAR WALL WASH

CRITERIA	RESULTS	
	INTEGRATING SPHERE	GONIOPHOTOMETER
Lumen Output (lumens)	1363.3	1337.4
Input Power (W) @ 120 (VAC)	25.02	24.97
Lumen Efficacy (lm/W)	54.5	53.6
Input Power Factor () @ 120 (VAC)	0.988	0.988

CRITERIA	RESULTS
Input Current ATHD (%) @ 120 (VAC)	12.97
Correlated Color Temperature (K)	2682
Color Rendering Index - Ra	93.0
Color Rendering - R9	65.1
DUV	0.0031
Chromaticity Coordinate (x)	0.457
Chromaticity Coordinate (y)	0.403
Chromaticity Coordinate (u')	0.264
Chromaticity Coordinate (v')	0.524

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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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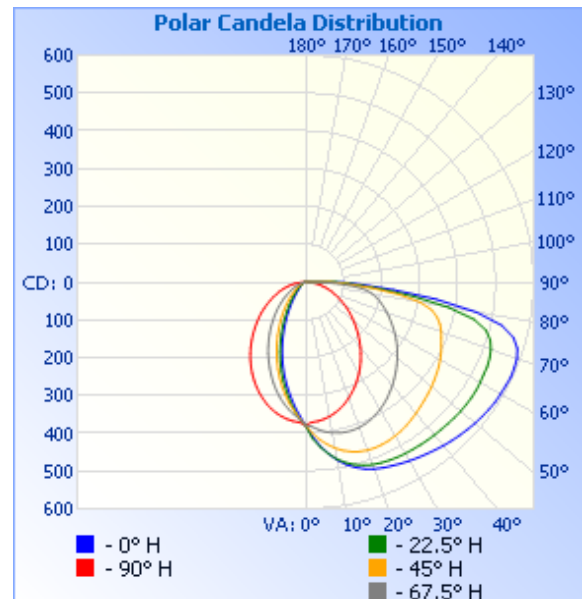
RESULTS OF TESTS

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)
AH08042020023951-004	Base Up	120.1	210.5	24.97	0.988	1337.4	53.6

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	379	379	379	379	379
5	434	437	417	392	369
10	478	475	446	404	361
15	508	500	464	410	347
20	526	514	473	409	328
25	536	520	474	402	306
30	546	524	470	390	280
35	555	526	462	374	253
40	564	527	452	355	224
45	573	529	442	336	196
50	581	532	432	315	168
55	588	532	421	294	142
60	592	530	409	271	117
65	595	527	394	248	94
70	591	518	379	226	73
75	566	491	358	203	54
80	456	381	306	178	36
85	232	193	174	130	18
90	97	81	68	43	3



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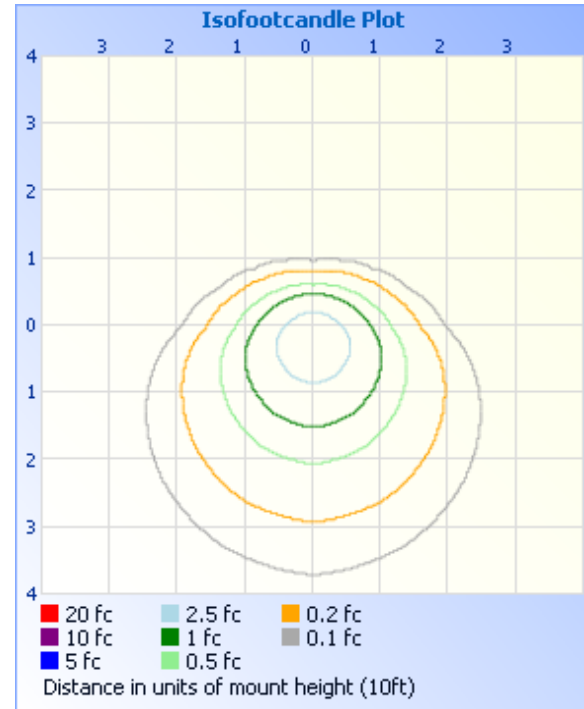
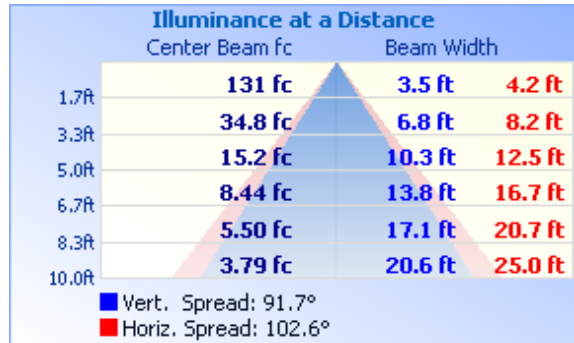
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RESULTS OF TESTS

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	287.2	21.5
0-40	465.1	34.8
0-60	860.4	64.3
60-90	472.8	35.4
70-100	276.5	20.7
90-120	4.2	0.3
0-90	1333.2	99.7
90-180	4.2	0.3
0-180	1337.4	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	36.0	2.7
10-20	101.8	7.6
20-30	149.5	11.2
30-40	177.9	13.3
40-50	193.8	14.5
50-60	201.6	15.1
60-70	200.5	15.0
70-80	182.7	13.7
80-90	89.6	6.7
90-100	4.2	0.3

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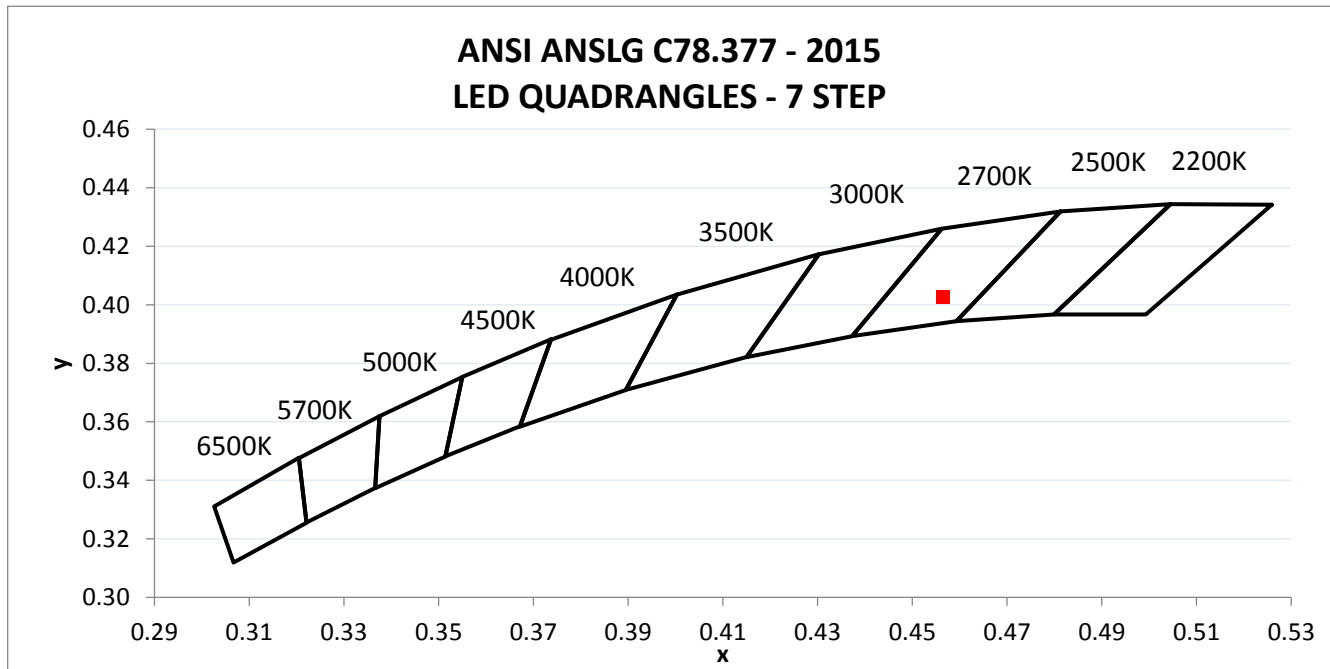
RESULTS OF TESTS

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 (%)
AH08042020023951-004	Base Up	119.97	211.04	25.02	0.988	12.97

LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)	CORRELATED COLOR TEMPERATURE - CCT (K)	CRI - Ra	CRI - R9	DUV
1363.3	54.5	2682	93.0	65.1	0.0031

CIE 1931 CHROMATICITY COORDINATE (x)	CIE 1931 CHROMATICITY COORDINATE (y)	CIE 1976 CHROMATICITY COORDINATE (u')	CIE 1976 CHROMATICITY COORDINATE (v')
0.457	0.403	0.264	0.524



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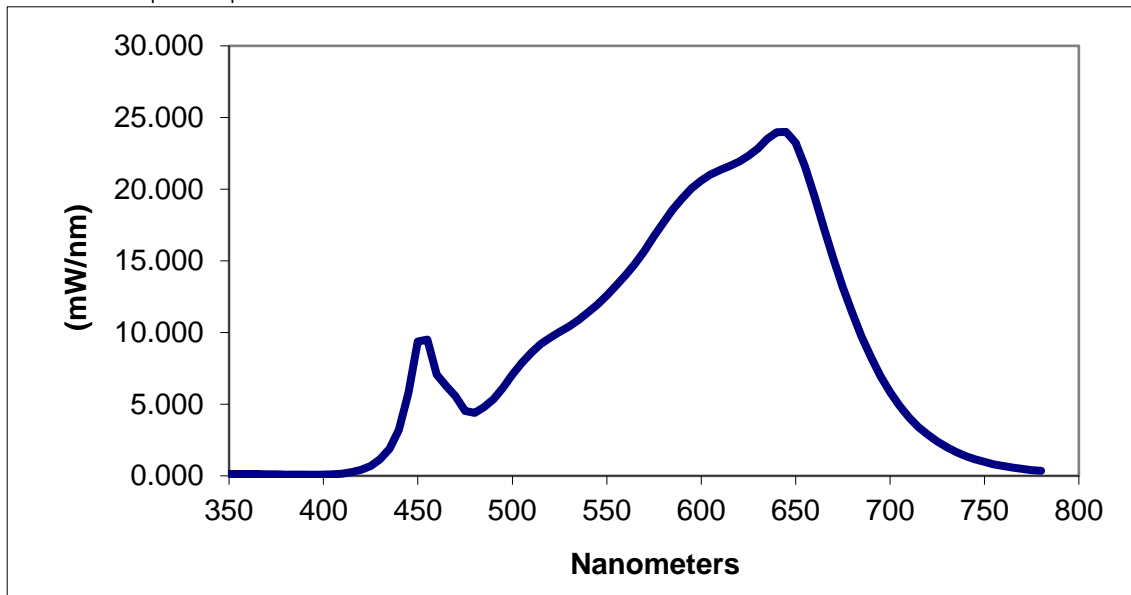
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PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - INTEGRATING SPHERE METHOD (25°C +/- 1°C)

SPECTRAL DISTRIBUTION OVER VISIBLE WAVELENGTHS*							
nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
350	0.127	460	7.064	570	15.720	680	11.358
355	0.126	465	6.273	575	16.726	685	9.700
360	0.138	470	5.545	580	17.676	690	8.251
365	0.127	475	4.524	585	18.596	695	6.965
370	0.110	480	4.385	590	19.364	700	5.837
375	0.098	485	4.799	595	20.070	705	4.898
380	0.083	490	5.361	600	20.597	710	4.094
385	0.080	495	6.147	605	21.016	715	3.416
390	0.079	500	7.072	610	21.335	720	2.871
395	0.078	505	7.884	615	21.599	725	2.398
400	0.089	510	8.598	620	21.912	730	1.998
405	0.103	515	9.203	625	22.324	735	1.663
410	0.158	520	9.637	630	22.844	740	1.391
415	0.258	525	10.041	635	23.497	745	1.161
420	0.424	530	10.423	640	23.966	750	0.971
425	0.698	535	10.867	645	23.997	755	0.812
430	1.150	540	11.401	650	23.237	760	0.691
435	1.898	545	11.943	655	21.577	765	0.575
440	3.205	550	12.584	660	19.490	770	0.483
445	5.799	555	13.274	665	17.296	775	0.409
450	9.376	560	14.023	670	15.140	780	0.344
455	9.519	565	14.806	675	13.172		

*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				