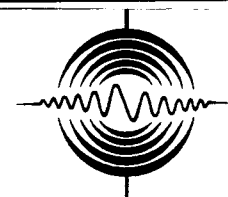


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
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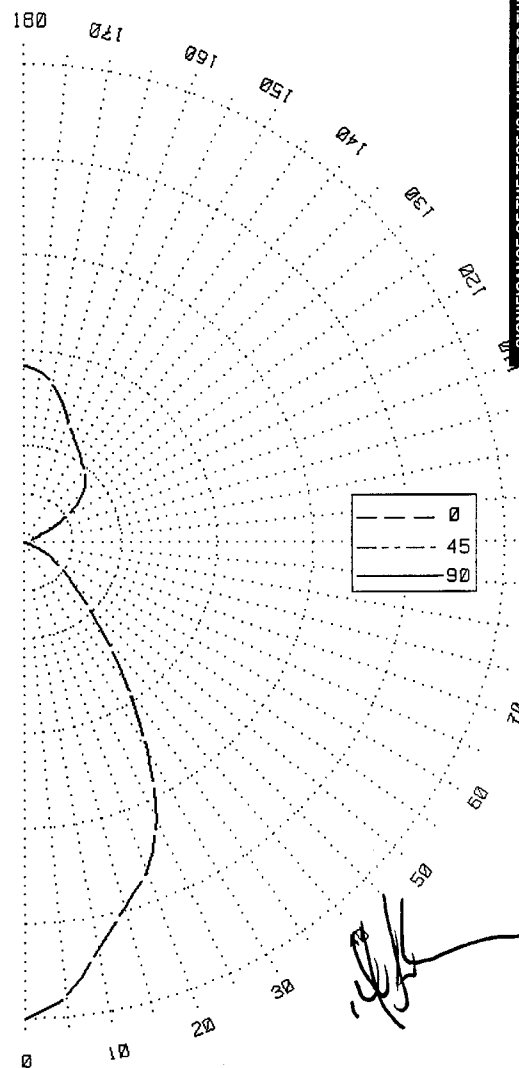


SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

BALLABS CERTIFIED TEST REPORT NO.: 20620.1 DATE 11/21/18  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 1-BRIDGELUX VERO 18 SE UP & DOWN 12.5"DIA TOP w/ALUM REFL  
RADIAL SILICONE DIFF-12.5"DIA BTM w/WHITE REFL & FROSTED  
2 AC ELECTRONICS #AC-50CD1.4APC7 @ 850mA BTM & 525mA TOP  
CATALOG NBR: P5113-40HI-40HI-BL  
LAMP TYPE : BRIDGELUX VERO 18 SE

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	3081.	
5	2949.	281.5
10	2680.	
15	2448.	693.9
20	2269.	
25	1984.	918.1
30	1562.	
35	1137.	714.4
40	814.	
45	573.	443.7
50	407.	
55	287.	257.6
60	203.	
65	141.	140.2
70	88.	
75	50.	53.0
80	27.	
85	7.	7.8
90	6.	
95	4.	4.1
100	5.	
105	11.	11.9
110	34.	
115	114.	112.8
120	267.	
125	415.	372.4
130	498.	
135	551.	426.8
140	595.	
145	636.	399.7
150	684.	
155	742.	343.6
160	825.	
165	927.	262.7
170	1030.	
175	1106.	105.6
180	1136.	



**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1893.	NA.	34.1	90-120	129.	NA.	2.3
0- 40	2608.	NA.	47.0	90-130	501.	NA.	9.0
0- 60	3309.	NA.	59.6	90-150	1328.	NA.	23.9
0- 90	3510.	NA.	63.2	90-180	2040.	NA.	36.8
TOTAL LUMINAIRE =				0-180	5550.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= .9 DIAGONAL= .6

THIS BALLABS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THIS CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

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\*\*\*\*\*

LUMINANCES-CD/SQ-M  
 HORIZONTAL ANGLE

VERT	0
ANGLE	
45	10154.
55	6275.
65	4188.
75	2428.
85	1028.

\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

\*\*\*\*\*

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	.80				.70				.50				.30				.10				.00
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00
RCR																					
0	.28	.28	.28	.28	.26	.26	.26	.26	.23	.23	.23	.20	.20	.20	.17	.17	.17	.17	.17	.17	.16
1	.26	.25	.24	.23	.24	.23	.23	.22	.21	.20	.20	.18	.18	.18	.16	.16	.16	.16	.16	.16	.15
2	.24	.22	.21	.20	.23	.21	.20	.19	.19	.18	.17	.17	.16	.16	.15	.14	.14	.14	.14	.14	.13
3	.22	.20	.19	.18	.21	.19	.18	.17	.17	.16	.16	.16	.15	.14	.14	.13	.13	.13	.13	.13	.12
4	.21	.19	.17	.16	.20	.18	.16	.15	.16	.15	.14	.14	.13	.13	.13	.12	.12	.12	.12	.12	.11
5	.19	.17	.15	.14	.18	.16	.15	.13	.15	.13	.12	.13	.12	.11	.12	.11	.11	.11	.11	.11	.10
6	.18	.16	.14	.13	.17	.15	.13	.12	.13	.12	.11	.12	.11	.10	.11	.10	.10	.10	.10	.10	.09
7	.17	.14	.13	.11	.16	.14	.12	.11	.12	.11	.10	.11	.10	.10	.10	.09	.09	.09	.09	.09	.08
8	.16	.13	.11	.10	.15	.13	.11	.10	.11	.10	.09	.10	.09	.09	.09	.10	.09	.09	.09	.08	.08
9	.15	.12	.10	.09	.14	.11	.10	.09	.11	.09	.08	.10	.09	.08	.09	.08	.09	.08	.08	.07	.07
10	.14	.11	.09	.08	.13	.11	.09	.08	.10	.08	.08	.09	.08	.07	.08	.07	.08	.07	.07	.07	.06

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

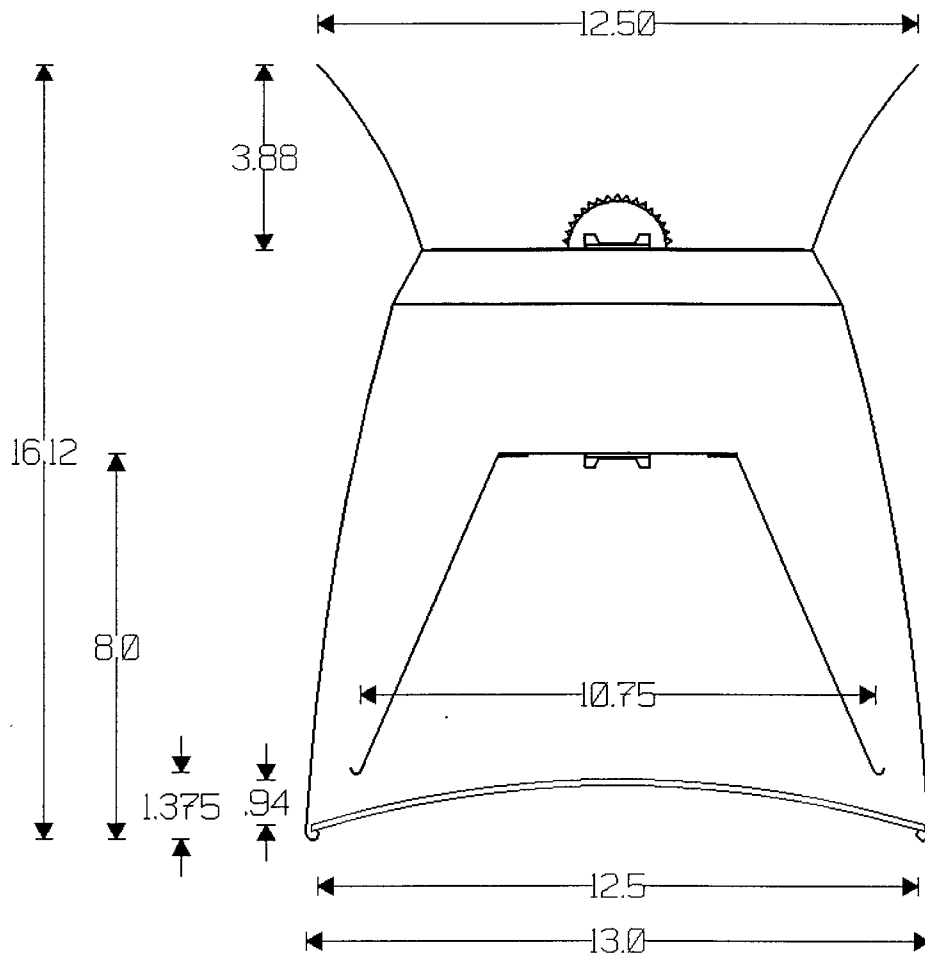
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ELECTRICAL CHARACTERISTICS 119.97V .4659A 55.7870W

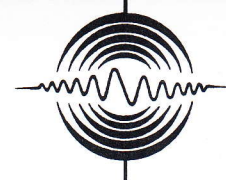
LUMINOUS EFFICACY (LUMENS / WATTS) = 99.5

TESTED IN ACCORDANCE WITH CURRENT IES STANDARDS  
UTILIZING ABSOLUTE PHOTOMETRY PER LM-79-08



# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

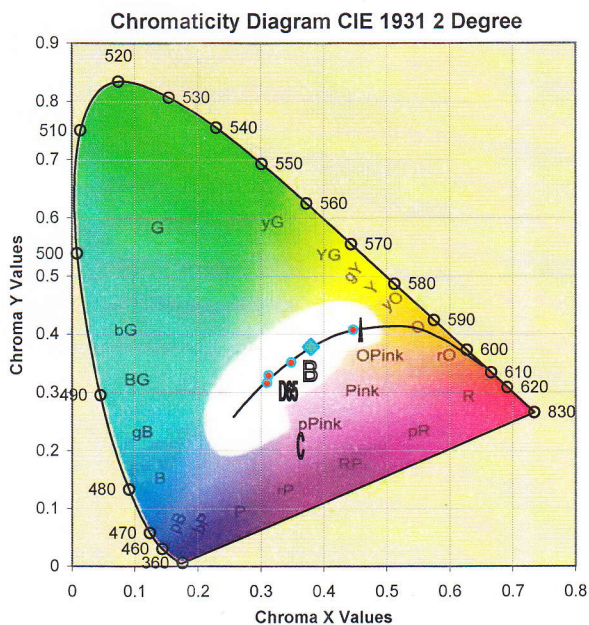
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LAMP TYPE : BRIDGELUX VERO 18 SE

INPUT VOLTAGE (V)	119.97
INPUT CURRENT (A)	0.4659
INPUT WATTS (W)	55.7870
POWER FACTOR	0.9980
THDv (%)	0.160
THDi (%)	2.092
LUMINOUS EFFICACY-LPW	99.5
LUMINOUS FLUX- LUMENS	5550
CHROMA x	0.3800
CHROMA y	0.3780
CHROMA u	0.2243
CHROMA v	0.5021
DELTA uv (Duv)	0.0007
CORR COLOR TEMP (K)	4022
COLOR REND INDEX (RA)	82.78
COLOR REND INDEX (R9)	10.4

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.4090	610	89.7925
360	0.4017	620	82.4720
370	0.3834	630	72.5681
380	0.4029	640	61.6026
390	0.4880	650	50.4140
400	0.7255	660	39.9632
410	1.7284	670	30.8870
420	6.1344	680	23.6100
430	19.0830	690	17.6891
440	51.9578	700	13.1548
450	105.0502	710	9.7884
460	58.4707	720	7.2179
470	35.6502	730	5.2707
480	27.7026	740	3.8146
490	33.7549	750	2.8409
500	46.0426	760	2.1358
510	56.2941	770	1.5763
520	63.1395	780	1.1223
530	68.3171	790	0.8782
540	73.3437	800	0.6700
550	78.4517	810	0.4956
560	83.7063	820	0.3951
570	88.1990	830	0.3049
580	92.1166	840	0.2482
590	94.2039	850	0.1894
600	93.9159		

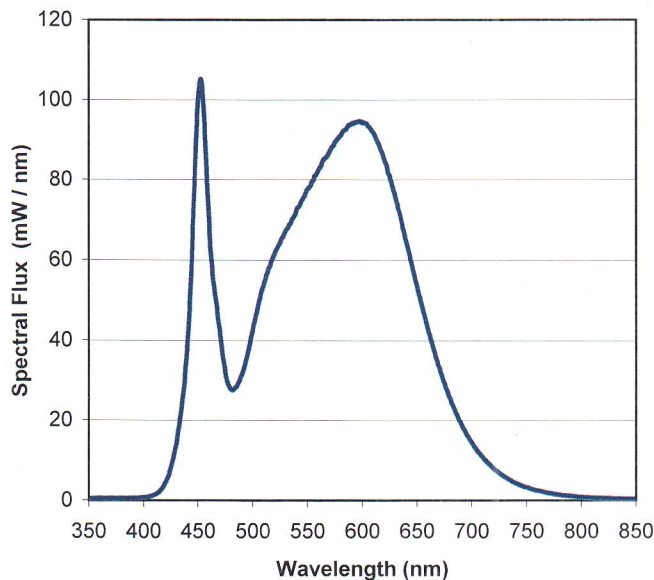


Data collected per LM79-08 using a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

*[Signature]*  
Kelly C. Lerbs  
Vice President



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