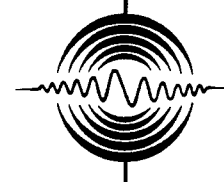


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

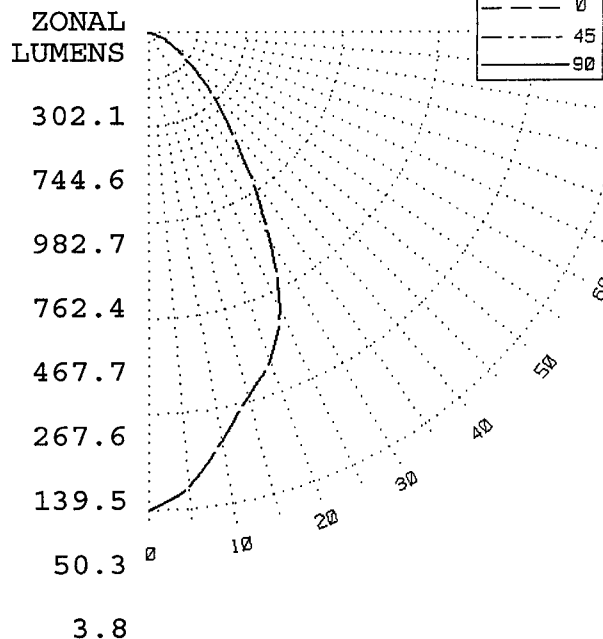
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20617.1 DATE 12/05/18  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 1-BRIDGELUX VERO 18 SE DOWNLIGHT  
12.5"DIA BTM w/WHITE REFL & EXTERNAL FROSTED CONCAVE LENS  
AC ELECTRONICS #AC-50CD1.4APC7 @ 850mA  
CATALOG NBR: P5113-40HI-NUL-BL (DOWN LIGHT ONLY)  
LAMP TYPE : BRIDGELUX VERO 18 SE

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	3313.
5	3165.
10	2879.
15	2627.
20	2430.
25	2123.
30	1662.
35	1214.
40	855.
45	604.
50	427.
55	298.
60	209.
65	140.
70	86.
75	48.
80	22.
85	3.
90	0.



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

**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2029.	NA.	54.5	90-120	0.	NA.	.0
0- 40	2792.	NA.	75.0	90-130	0.	NA.	.0
0- 60	3527.	NA.	94.8	90-150	0.	NA.	.0
0- 90	3721.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	3721.	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  
 ANGLE  
 45 10705.  
 55 6518.  
 65 4167.  
 75 2301.  
 85 501.  
 \*\*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	.00					
RCR																							
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00					
1	1.13	1.10	1.07	1.04	1.10	1.07	1.05	1.03	1.03	1.01	1.00	1.00	.98	.97	.96	.95	.94	.92					
2	1.06	1.01	.96	.92	1.04	.99	.95	.91	.96	.92	.89	.93	.90	.87	.90	.88	.85	.84					
3	1.00	.93	.87	.83	.98	.91	.86	.82	.89	.84	.81	.86	.83	.79	.84	.81	.78	.76					
4	.94	.85	.79	.74	.92	.84	.78	.74	.82	.77	.73	.80	.76	.72	.78	.74	.71	.70					
5	.88	.79	.72	.67	.86	.78	.71	.67	.76	.70	.66	.74	.69	.65	.72	.68	.65	.63					
6	.83	.73	.66	.61	.81	.72	.66	.61	.70	.65	.61	.69	.64	.60	.68	.63	.60	.58					
7	.78	.67	.61	.56	.77	.67	.60	.56	.65	.60	.55	.64	.59	.55	.63	.58	.55	.53					
8	.73	.62	.55	.51	.72	.62	.55	.51	.60	.55	.50	.59	.54	.50	.58	.53	.50	.48					
9	.68	.57	.50	.46	.67	.57	.50	.46	.56	.50	.46	.55	.49	.45	.54	.49	.45	.44					
10	.64	.53	.46	.42	.63	.52	.46	.42	.52	.46	.42	.51	.45	.41	.50	.45	.41	.40					

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

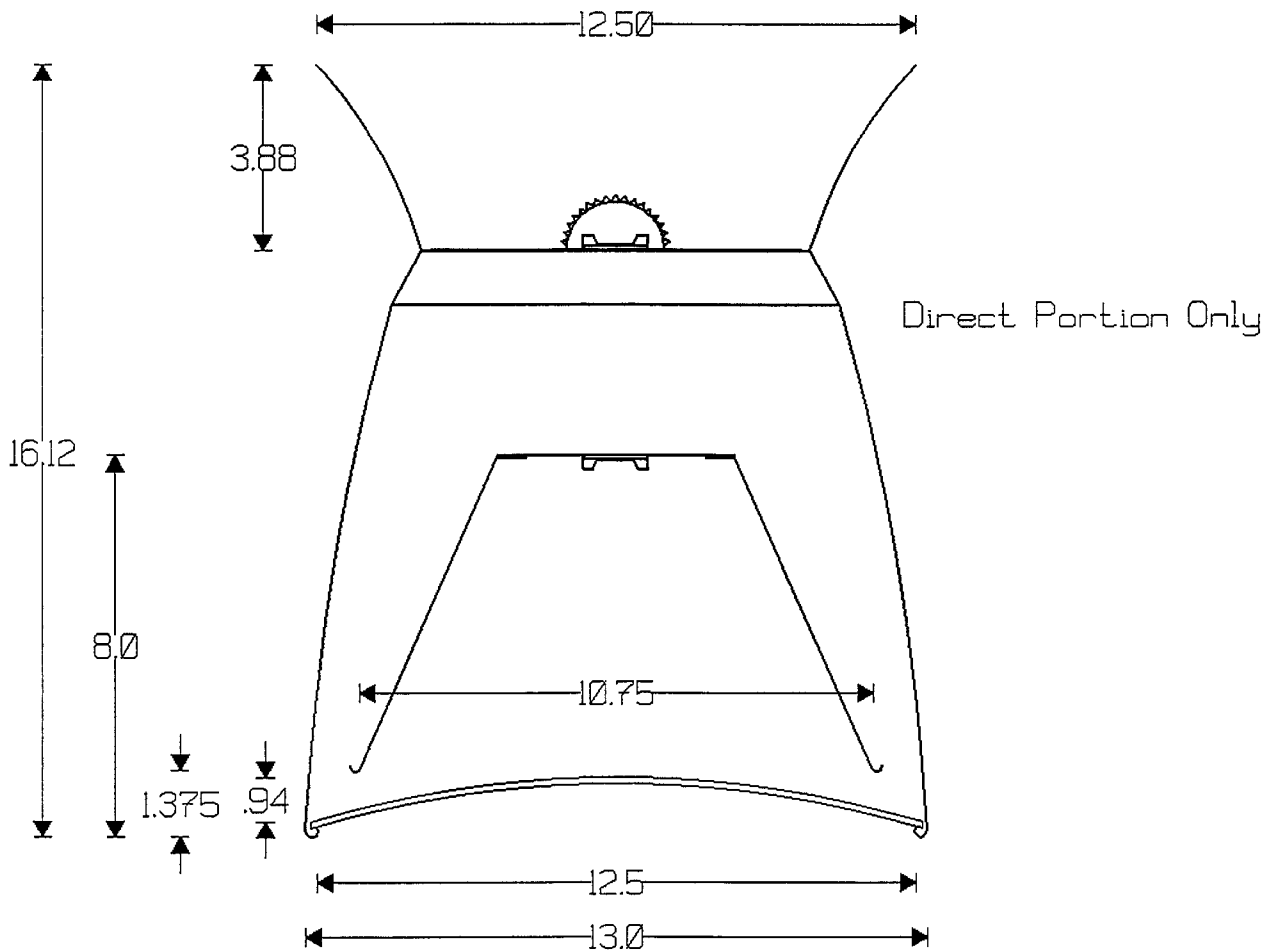
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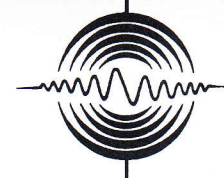
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ELECTRICAL CHARACTERISTICS 120.04V .2892A 34.6530W

LUMINOUS EFFICACY (LUMENS / WATTS) = 107.4

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

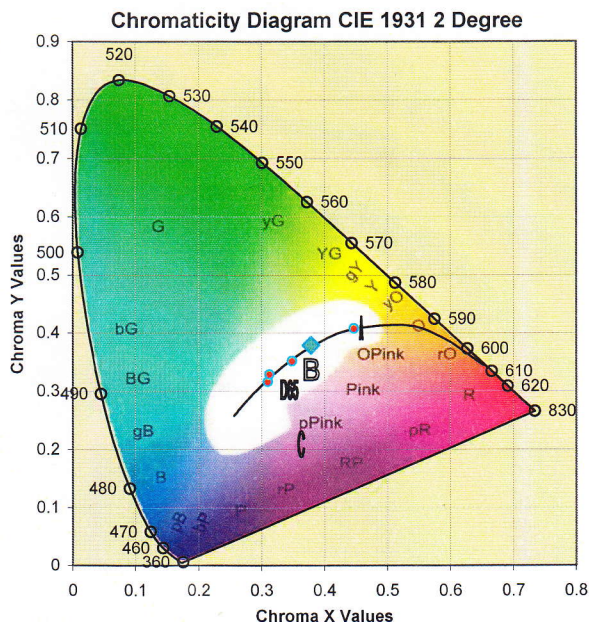




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LAMP TYPE : BRIDGELUX VERO 18 SE

INPUT VOLTAGE (V)	120.04
INPUT CURRENT (A)	0.2892
INPUT WATTS (W)	34.6530
POWER FACTOR	0.9982
THDv (%)	0.164
THDi (%)	2.415
LUMINOUS EFFICACY-LPW	107.4
LUMINOUS FLUX- LUMENS	3721
CHROMA x	0.3792
CHROMA y	0.3786
CHROMA u	0.2236
CHROMA v	0.5022
DELTA uv (Duv)	0.0012
CORR COLOR TEMP (K)	4047
COLOR REND INDEX (RA)	82.53
COLOR REND INDEX (R9)	9.4

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.2737	610	59.8917
360	0.3099	620	54.8542
370	0.2951	630	48.3285
380	0.2791	640	40.8201
390	0.3239	650	33.3930
400	0.4716	660	26.5237
410	1.1609	670	20.4863
420	4.1245	680	15.5559
430	13.2743	690	11.6844
440	36.7587	700	8.7211
450	70.6472	710	6.4384
460	37.7345	720	4.7293
470	22.9487	730	3.4390
480	18.2907	740	2.5197
490	22.6696	750	1.8592
500	31.0708	760	1.3952
510	38.0537	770	1.0250
520	42.7266	780	0.7738
530	46.2486	790	0.5895
540	49.5102	800	0.4345
550	52.7677	810	0.3225
560	56.2720	820	0.2504
570	59.0648	830	0.2035
580	61.6755	840	0.1554
590	62.7589	850	0.1321
600	62.5136		

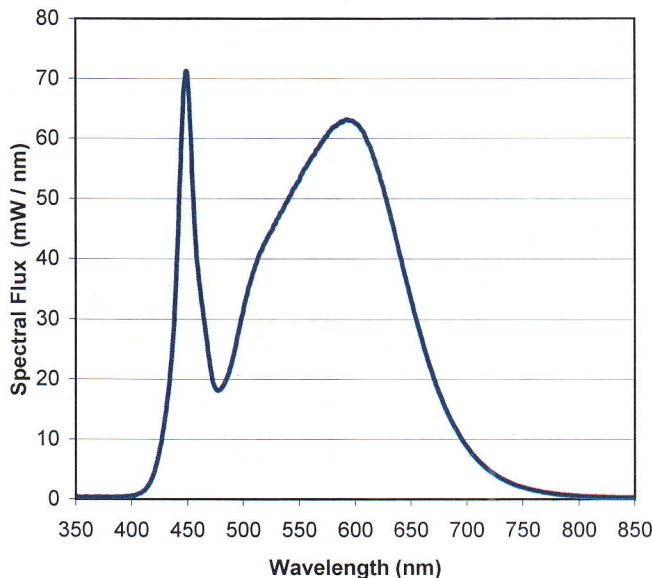


Data collected per LM79-08 using a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

*Kelly C. Lerbs*  
Kelly C. Lerbs  
Vice President



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