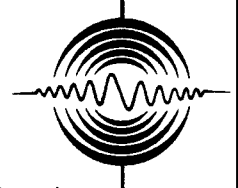


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

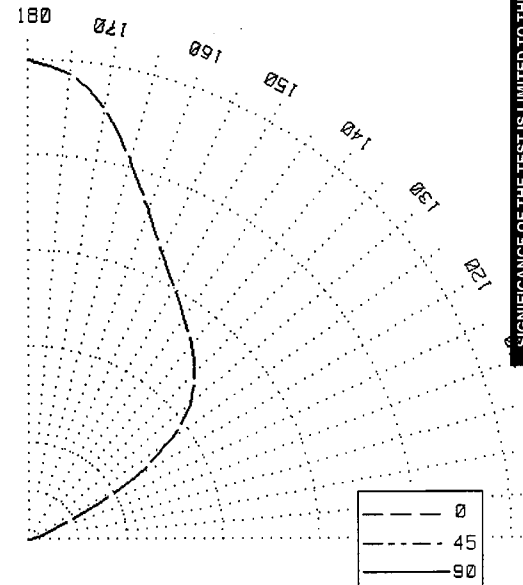
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20618.1 DATE 11/21/18
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 1-BRIDGELUX VERO 18 SE UP 12.5"DIA TOP
ALUM REFL & 2.125"RADIAL SILICONE DIFF
AC ELECTRONICS #AC-50CD1.4APC7 @ 525mA TOP
CATALOG NBR: P5113-NDL-40HI
LAMP TYPE : BRIDGELUX VERO 18 SE

CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	0.	
5	0.	.0
10	0.	.0
15	0.	.0
20	0.	.0
25	0.	.0
30	0.	.0
35	0.	.0
40	0.	.0
45	0.	.0
50	0.	.0
55	0.	.0
60	0.	.0
65	0.	.0
70	0.	.0
75	0.	.0
80	0.	.0
85	0.	.0
90	0.	.0
95	1.	1.4
100	2.	9.5
105	9.	
110	29.	
115	102.	101.6
120	251.	
125	389.	349.4
130	467.	
135	519.	402.0
140	561.	
145	600.	376.8
150	644.	
155	700.	323.9
160	777.	
165	873.	247.4
170	974.	
175	1042.	99.5
180	1069.	



NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	0.	NA.	.0	90-120	113.	NA.	5.9
0- 40	0.	NA.	.0	90-130	462.	NA.	24.2
0- 60	0.	NA.	.0	90-150	1241.	NA.	64.9
0- 90	0.	NA.	.0	90-180	1911.	NA.	100.0
TOTAL LUMINAIRE =				0-180	1911.	NA.	100.0

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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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	.95	.95	.95	.95	.81	.81	.81	.81	.56	.56	.56	.32	.32	.32	.10	.10	.10	.10	.10	.10	.00
1	.87	.82	.79	.75	.74	.71	.68	.65	.48	.47	.45	.28	.27	.26	.09	.09	.08	.08	.08	.08	.00
2	.79	.72	.66	.61	.67	.61	.57	.53	.42	.39	.37	.24	.23	.22	.08	.07	.07	.07	.07	.07	.00
3	.72	.63	.56	.51	.61	.54	.48	.44	.37	.34	.31	.21	.20	.18	.07	.06	.06	.06	.06	.06	.00
4	.65	.55	.48	.43	.56	.48	.42	.37	.33	.29	.26	.19	.17	.15	.06	.06	.05	.05	.05	.05	.00
5	.60	.49	.42	.36	.51	.42	.36	.32	.29	.25	.22	.17	.15	.13	.05	.05	.04	.04	.04	.04	.00
6	.55	.44	.37	.31	.47	.38	.32	.27	.26	.22	.19	.15	.13	.12	.05	.04	.04	.04	.04	.04	.00
7	.51	.40	.32	.27	.43	.34	.28	.24	.24	.20	.17	.14	.12	.10	.04	.04	.03	.03	.03	.03	.00
8	.47	.36	.29	.24	.40	.31	.25	.21	.21	.18	.15	.12	.10	.09	.04	.03	.03	.03	.03	.03	.00
9	.44	.33	.26	.22	.37	.28	.23	.19	.20	.16	.13	.11	.09	.08	.04	.03	.03	.03	.03	.03	.00
10	.41	.30	.24	.19	.35	.26	.20	.17	.18	.14	.12	.10	.09	.07	.03	.03	.02	.02	.02	.02	.00

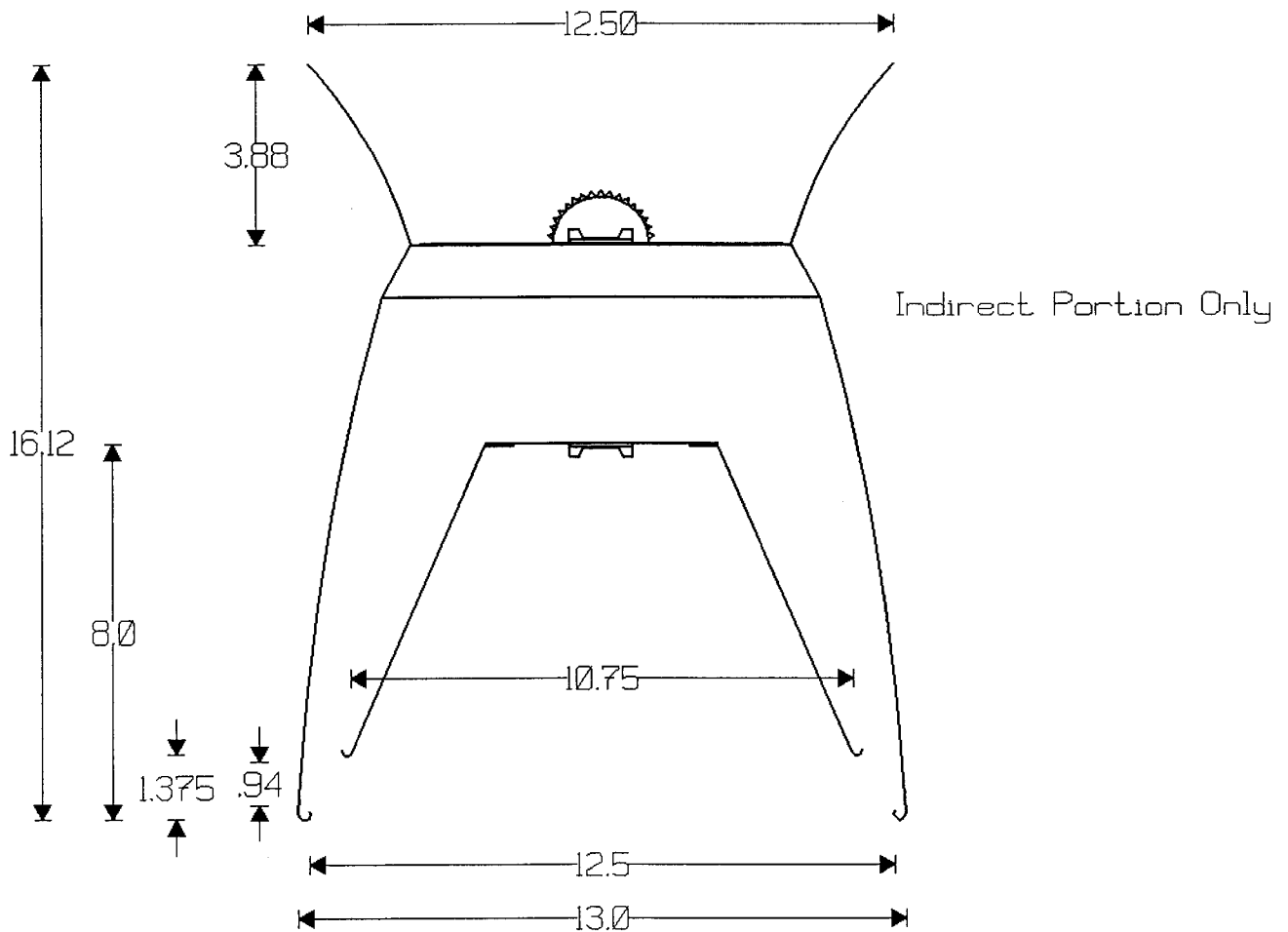
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

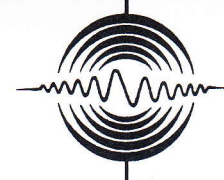
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LAMP TYPE : BRIDGELUX VERO 18 SE

ELECTRICAL CHARACTERISTICS 119.90V .1817A 21.6910W

LUMINOUS EFFICACY (LUMENS / WATTS) = 88.1

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

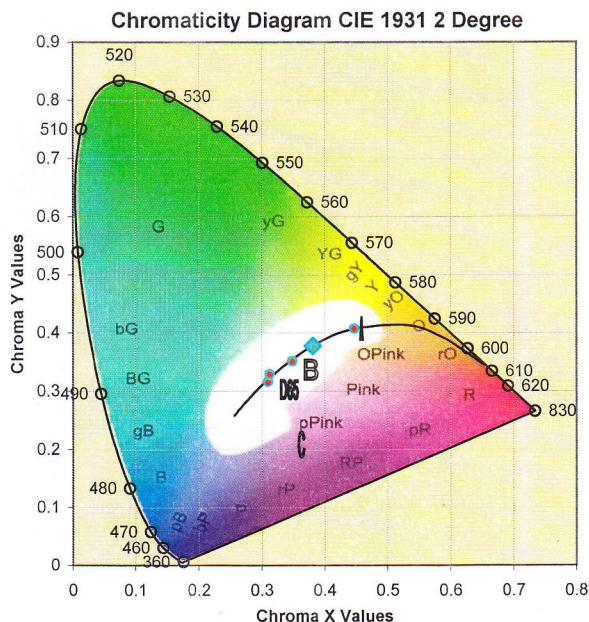




BALLABS CERTIFIED TEST REPORT NO.: 20618.1 A DATE 11/21/18
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CATALOG NBR: P5113-NDL-40HI
LAMP TYPE : BRIDGELUX VERO 18 SE

INPUT VOLTAGE (V)	119.90
INPUT CURRENT (A)	0.1817
INPUT WATTS (W)	21.6910
POWER FACTOR	0.9956
THDv (%)	0.160
THDi (%)	3.538
LUMINOUS EFFICACY-LPW	88.1
LUMINOUS FLUX- LUMENS	1911
CHROMA x	0.3818
CHROMA y	0.3777
CHROMA u	0.2256
CHROMA v	0.5022
DELTA uv (Duv)	0.0001
CORR COLOR TEMP (K)	3971
COLOR REND INDEX (RA)	83.21
COLOR REND INDEX (R9)	12.5

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.1364	610	31.3601
360	0.1290	620	28.9085
370	0.1370	630	25.4616
380	0.1416	640	21.6567
390	0.1682	650	17.7424
400	0.2395	660	14.0702
410	0.6062	670	10.8196
420	2.0008	680	8.2858
430	6.0796	690	6.1911
440	17.0437	700	4.5994
450	36.3952	710	3.4070
460	20.6961	720	2.5017
470	12.5144	730	1.8233
480	9.5376	740	1.3275
490	11.6086	750	0.9774
500	15.7272	760	0.7215
510	19.2251	770	0.5306
520	21.5052	780	0.3924
530	23.3426	790	0.3032
540	25.0952	800	0.2248
550	26.8628	810	0.1723
560	28.7147	820	0.1290
570	30.3527	830	0.1073
580	31.6771	840	0.0902
590	32.6594	850	0.0633
600	32.6625		

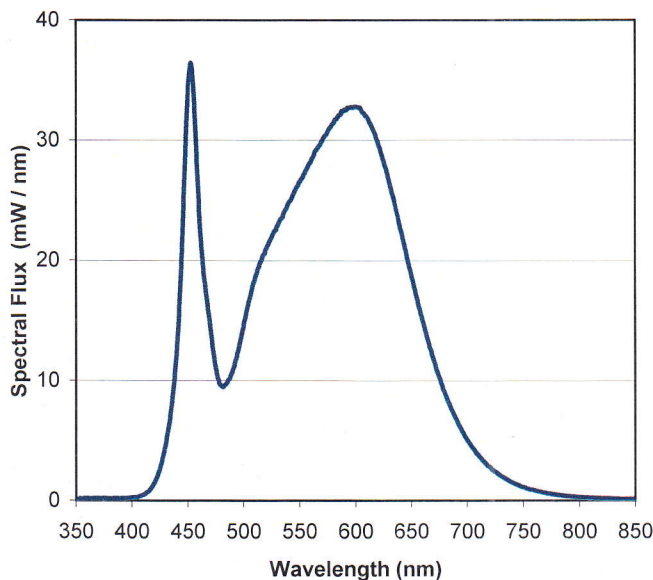


Data collected per LM79-08 using a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

Kelly C. Lerbs
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Vice President



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