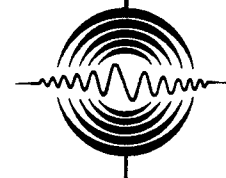


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

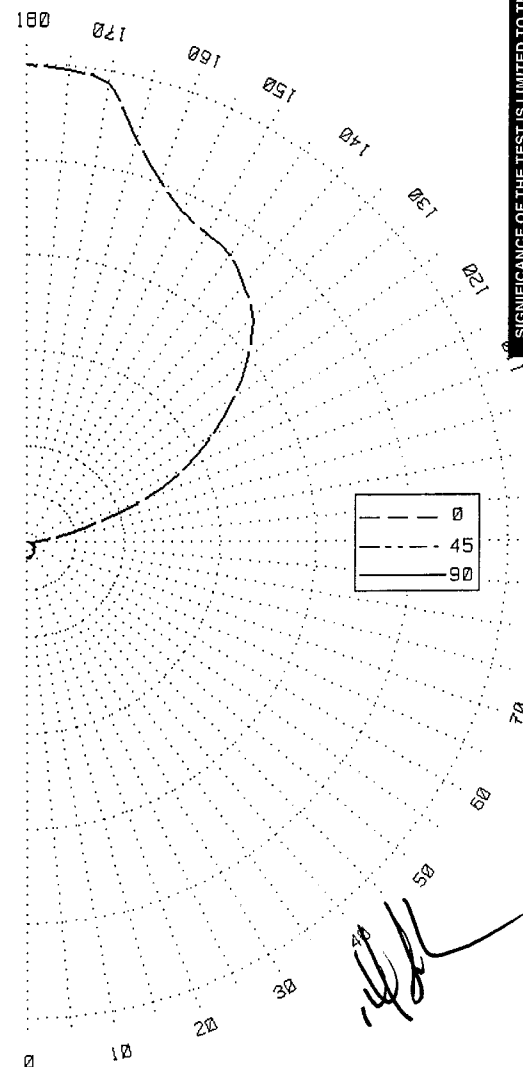
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19468.0 DATE 08/30/16  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 16-24LED ARRAY 38"DIA MOD PEND LUMINAIRE w/WHITE REFL & 1/8  
CLR ACRYLIC TOP LENS/WHITE CTR RND REFL & FROST ACRYLIC BTM  
LENS w/.125"WHITE ACRYLIC BTM DOME 4ROAL STRATO #RSLD035-6A  
CATALOG NBR: P1838-35HI-XX  
LAMP TYPE : M700C835D24N06STC

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	118.	
5	118.	11.3
10	117.	
15	114.	32.3
20	111.	
25	105.	48.7
30	100.	
35	93.	58.6
40	86.	
45	80.	61.8
50	74.	
55	68.	61.0
60	63.	
65	54.	53.4
70	47.	
75	38.	40.0
80	33.	
85	26.	28.7
90	24.	
95	83.	90.8
100	212.	
105	471.	498.5
110	954.	
115	1333.	1323.5
120	1633.	
125	1949.	1748.2
130	2219.	
135	2455.	1901.2
140	2590.	
145	2713.	1704.6
150	2753.	
155	2824.	1307.2
160	2978.	
165	3235.	917.1
170	3608.	
175	3675.	350.8
180	3701.	



**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	92.	NA.	.9	90-120	1913.	NA.	18.7
0- 40	151.	NA.	1.5	90-130	3661.	NA.	35.8
0- 60	274.	NA.	2.7	90-150	7267.	NA.	71.0
0- 90	396.	NA.	3.9	90-180	9842.	NA.	96.1
TOTAL LUMINAIRE =				0-180	10238.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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\*\*\*\*\*

LUMINANCES-CD/SQ-M  
 HORIZONTAL ANGLE

VERT	0
ANGLE	
45	127.
55	123.
65	117.
75	107.
85	111.

\*\*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	.96	.96	.96	.96	.83	.83	.83	.83	.58	.58	.58	.35	.35	.35	.14	.14	.14	.14	.14	.14	.04
1	.87	.83	.79	.76	.75	.72	.69	.66	.50	.48	.47	.30	.29	.28	.12	.12	.11	.11	.11	.11	.03
2	.79	.72	.67	.62	.68	.62	.58	.54	.44	.41	.38	.26	.25	.24	.10	.10	.09	.09	.09	.09	.03
3	.72	.63	.57	.51	.62	.55	.49	.45	.38	.35	.32	.23	.21	.20	.09	.09	.08	.08	.08	.08	.02
4	.66	.56	.49	.43	.56	.48	.42	.38	.34	.30	.27	.21	.18	.17	.08	.07	.07	.07	.07	.07	.02
5	.60	.50	.42	.37	.52	.43	.37	.32	.30	.26	.23	.18	.16	.14	.07	.06	.06	.06	.06	.06	.02
6	.55	.44	.37	.32	.47	.38	.32	.28	.27	.23	.20	.16	.14	.12	.07	.06	.05	.05	.05	.05	.01
7	.51	.40	.33	.28	.44	.35	.29	.24	.24	.20	.18	.15	.13	.11	.06	.05	.04	.04	.04	.04	.01
8	.47	.36	.29	.24	.41	.31	.25	.21	.22	.18	.15	.14	.11	.10	.05	.05	.04	.04	.04	.04	.01
9	.44	.33	.26	.22	.38	.29	.23	.19	.20	.16	.14	.12	.10	.09	.05	.04	.03	.03	.03	.03	.01
10	.41	.30	.24	.19	.35	.26	.21	.17	.19	.15	.12	.11	.09	.08	.04	.04	.03	.03	.03	.03	.01

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

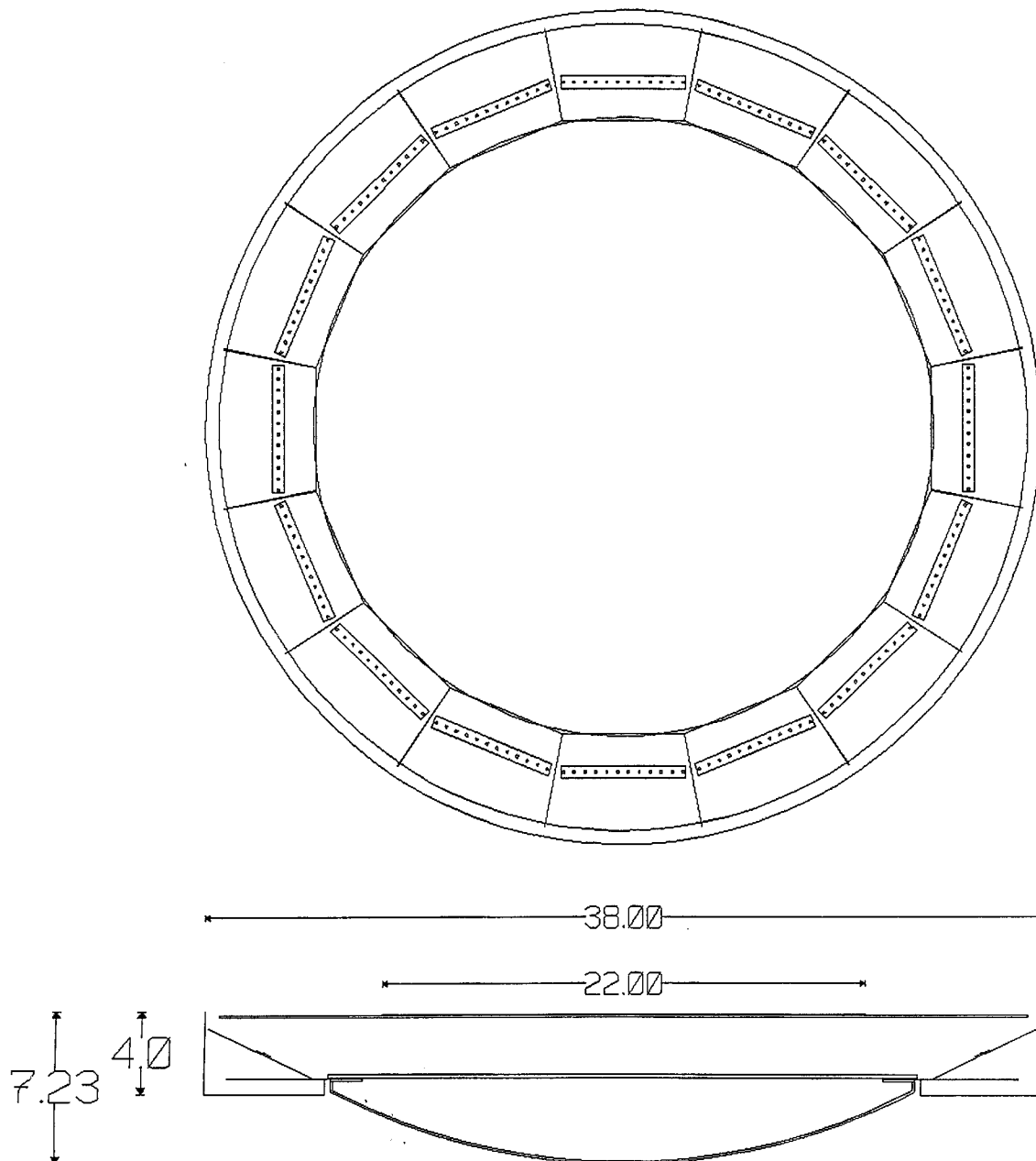
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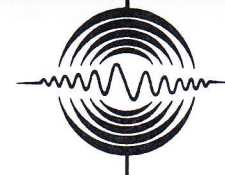
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ELECTRICAL CHARACTERISTICS 120.0V .8562A 99.410W

LUMINOUS EFFICACY (LUMENS / WATTS) = 103.0

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

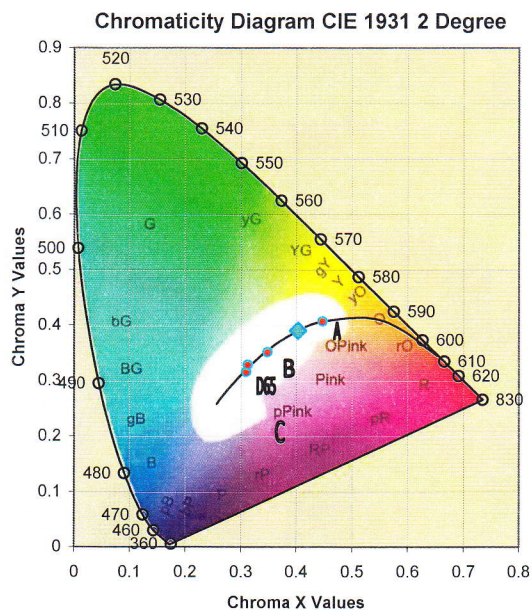




BALLABS CERTIFIED TEST REPORT NO.: 19468.0 A DATE 08/30/16  
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LAMP TYPE : M700C835D24N06STC

INPUT VOLTAGE (V)	120.1
INPUT CURRENT (A)	0.8562
INPUT WATTS (W)	99.410
POWER FACTOR	0.9672
THDv (%)	0.164
THDi (%)	18.131
LUMINOUS EFFICACY-LPW	103.0
LUMINOUS FLUX- LUMENS	10238
CHROMA x	0.4035
CHROMA y	0.3903
CHROMA u	0.2347
CHROMA v	0.3405
DELTA uv (Duv)	0.0002
CORR COLOR TEMP (K)	3536
COLOR REND INDEX (RA)	84.32
COLOR REND INDEX (R9)	20.7

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.7790	610	178.3109
360	0.9631	620	168.8416
370	0.9568	630	154.1188
380	1.0004	640	135.5142
390	1.1323	650	115.7216
400	1.6758	660	95.6106
410	3.6197	670	76.9865
420	11.6208	680	60.9340
430	36.3547	690	47.0046
440	87.2717	700	36.0473
450	141.1784	710	27.2357
460	80.2940	720	20.5384
470	55.1019	730	15.2374
480	50.6123	740	11.2603
490	64.1148	750	8.3589
500	82.0352	760	6.2631
510	95.3450	770	4.6065
520	105.4548	780	3.4498
530	115.8301	790	2.5752
540	127.8226	800	1.9426
550	140.4545	810	1.4726
560	152.7710	820	1.1256
570	163.7334	830	0.8696
580	173.2313	840	0.6710
590	179.6794	850	0.5301
600	182.0622		



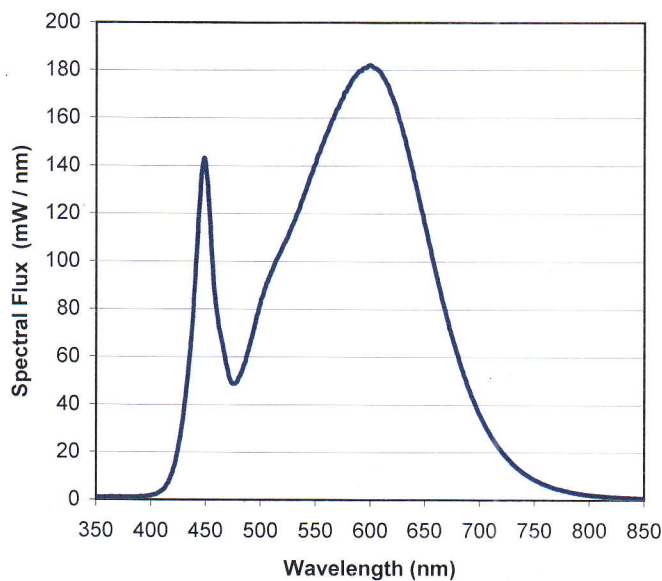
Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

*Kelly C. Lerbs*

Kelly C. Lerbs  
Vice President



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