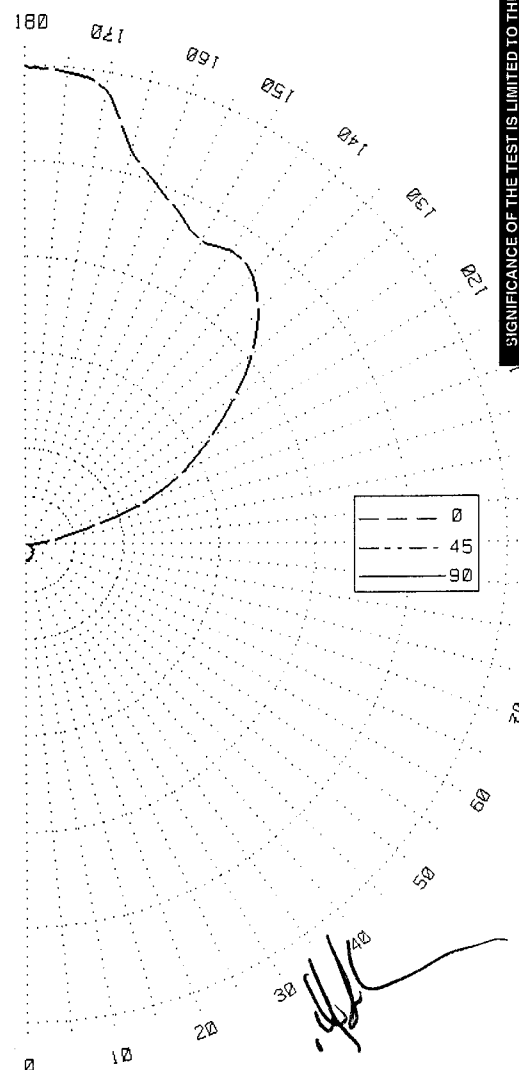


BALLABS CERTIFIED TEST REPORT NO.: 19452.0 A DATE 08/18/16
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 16-24LED ARRAY 38"DIA MOD PEND LUMINAIRE w/WHITE REFL & 1/8
CLR ACRYLIC TOP LENS/WHITE CTR RND REFL & FROST ACRYLIC BTM
LENS w/.125"WHITE ACRYLIC BTM DOME 4ROAL STRATO #RSLD035-03
CATALOG NBR: P1838-35HI-XX
LAMP TYPE : M700C835D24N06STC

CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	83.	7.9
5	83.	
10	83.	
15	80.	22.8
20	78.	
25	75.	34.5
30	70.	
35	66.	41.4
40	60.	
45	56.	43.6
50	49.	
55	44.	39.9
60	39.	
65	32.	31.7
70	27.	
75	22.	23.1
80	18.	
85	14.	15.7
90	14.	
95	62.	68.0
100	160.	
105	353.	373.2
110	689.	
115	966.	959.0
120	1175.	
125	1410.	1265.3
130	1622.	
135	1805.	1398.0
140	1934.	
145	1966.	1235.0
150	1926.	
155	2004.	927.4
160	2107.	
165	2243.	635.8
170	2547.	
175	2617.	249.8
180	2641.	



NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	65.	NA.	.9	90-120	1400.	NA.	19.0
0- 40	107.	NA.	1.4	90-130	2665.	NA.	36.2
0- 60	190.	NA.	2.6	90-150	5298.	NA.	71.9
0- 90	261.	NA.	3.5	90-180	7112.	NA.	96.5
				0-180	7372.	NA.	100.0

TOTAL LUMINAIRE =

DIAGONAL= .9

IES SPACING CRITERIA: ADJACENT= 1.3

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.

BALLABS CERTIFIED TEST REPORT NO.: 19452.0 DATE 08/18/16
 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 #RSLD035-03
 CATALOG NBR: P1838-35HI-XX
 LAMP TYPE : M700C835D24N06STC

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT	0
ANGLE	
45	88.
55	78.
65	67.
75	59.
85	56.

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	.13	.13	.13	.13	.13	.13	.04
1	.87	.83	.79	.76	.75	.72	.69	.66	.50	.48	.46	.30	.29	.28	.12	.11	.11	.11	.11	.11	.03
2	.79	.72	.67	.62	.68	.62	.58	.54	.44	.41	.38	.26	.25	.23	.10	.10	.10	.09	.09	.09	.02
3	.72	.63	.57	.51	.62	.55	.49	.45	.38	.35	.32	.23	.21	.20	.09	.08	.08	.08	.08	.08	.02
4	.66	.56	.49	.43	.56	.48	.42	.38	.34	.30	.27	.20	.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	.01
6	.55	.44	.37	.32	.47	.38	.32	.28	.27	.23	.20	.16	.14	.12	.06	.06	.06	.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	.13	.11	.10	.05	.04	.04	.04	.04	.04	.01
9	.44	.33	.26	.22	.38	.29	.23	.19	.20	.16	.14	.12	.10	.09	.05	.04	.04	.03	.03	.03	.01
10	.41	.30	.24	.19	.35	.26	.21	.17	.19	.15	.12	.11	.09	.08	.04	.04	.04	.03	.03	.03	.01

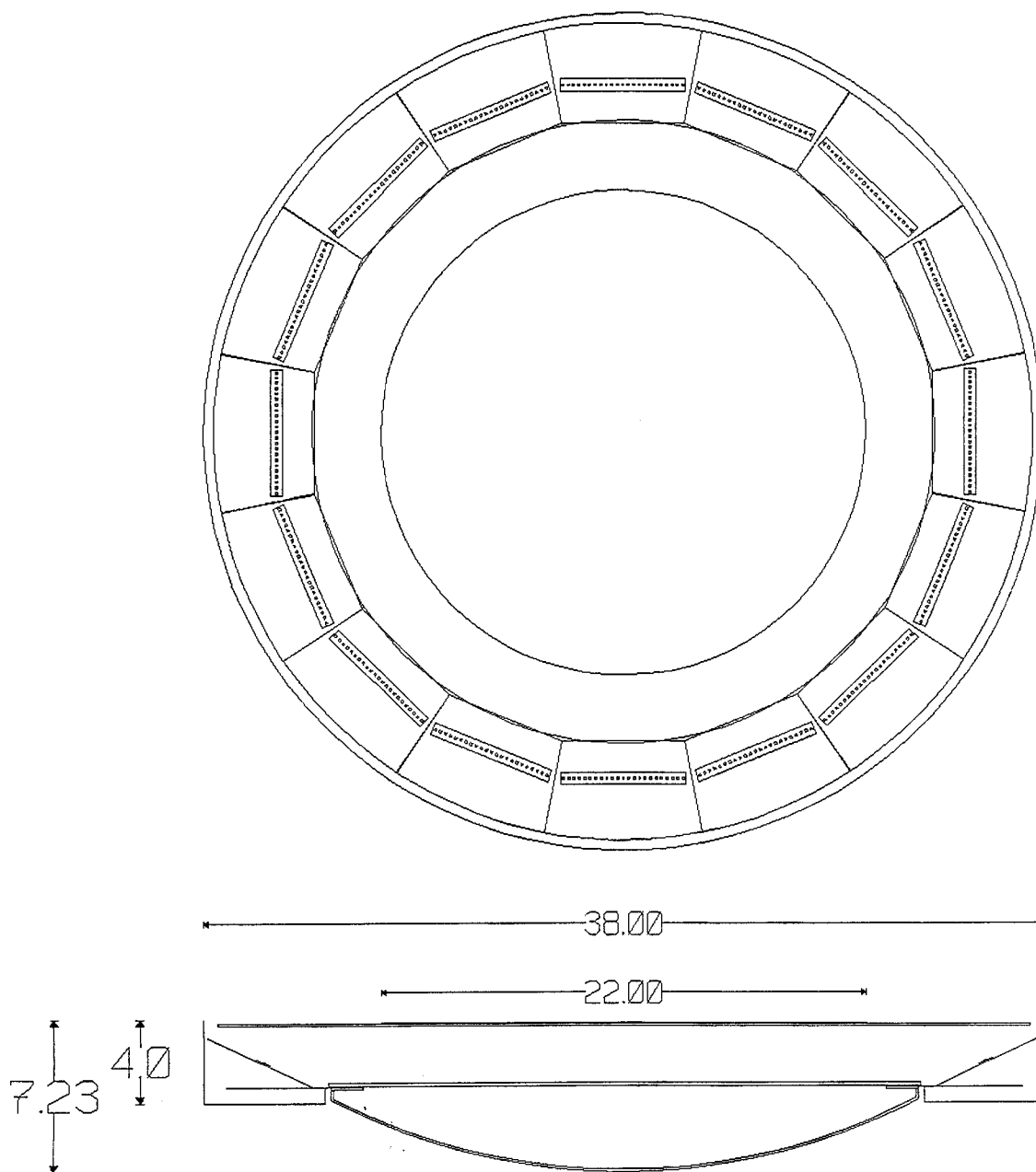
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 19452.0 DATE 08/18/16
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 #RSLD035-03
CATALOG NBR: P1838-35HI-XX
LAMP TYPE : M700C835D24N06STC

ELECTRICAL CHARACTERISTICS 120.0V .6424A 72.450W

LUMINOUS EFFICACY (LUMENS / WATTS) = 101.7

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



BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

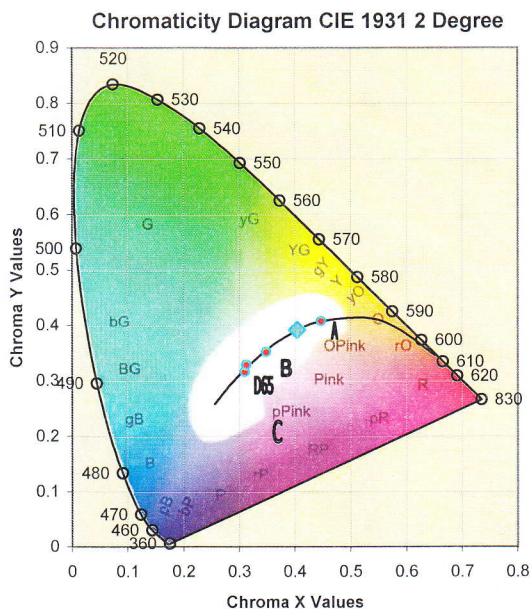
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19452.0 A DATE 08/18/16
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 #RSLD035-03
CATALOG NBR: P1838-35HI-XX
LAMP TYPE : M700C835D24N06STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.6424
INPUT WATTS (W)	72.450
POWER FACTOR	0.9395
THDv (%)	0.170
THDi (%)	24.133
LUMINOUS EFFICACY-LPW	101.7
LUMINOUS FLUX- LUMENS	7372
CHROMA x	0.4048
CHROMA y	0.3920
CHROMA u	0.2349
CHROMA v	0.3412
DELTA uv (Duv)	0.0007
CORR COLOR TEMP (K)	3521
COLOR REND INDEX (RA)	84.31
COLOR REND INDEX (R9)	20.6

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.5841	610	128.2433
360	0.6970	620	121.9173
370	0.6045	630	111.5446
380	0.6703	640	98.0760
390	0.7428	650	83.5062
400	1.0659	660	69.1048
410	2.2834	670	55.5102
420	7.4410	680	43.8276
430	24.4879	690	33.8665
440	62.0857	700	25.9141
450	101.1212	710	19.4870
460	56.2573	720	14.6590
470	38.3316	730	10.8711
480	35.9852	740	8.0343
490	45.9740	750	5.9532
500	59.5491	760	4.4299
510	68.8965	770	3.2831
520	75.9587	780	2.4150
530	83.3523	790	1.8279
540	92.0520	800	1.3563
550	101.3599	810	1.0339
560	110.1818	820	0.7731
570	118.0030	830	0.5971
580	124.4217	840	0.4651
590	128.9877	850	0.3596
600	130.8937		

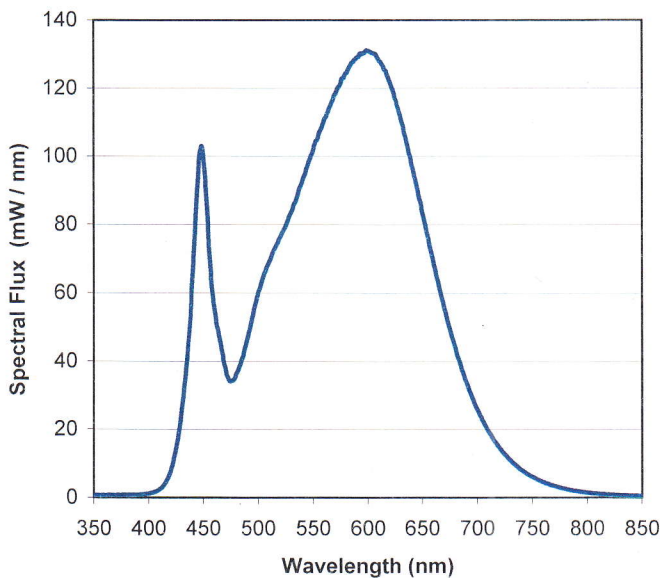


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

Kelly C. Lerbs
Vice President



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.