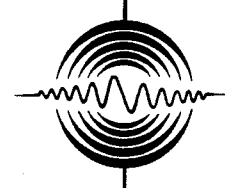


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

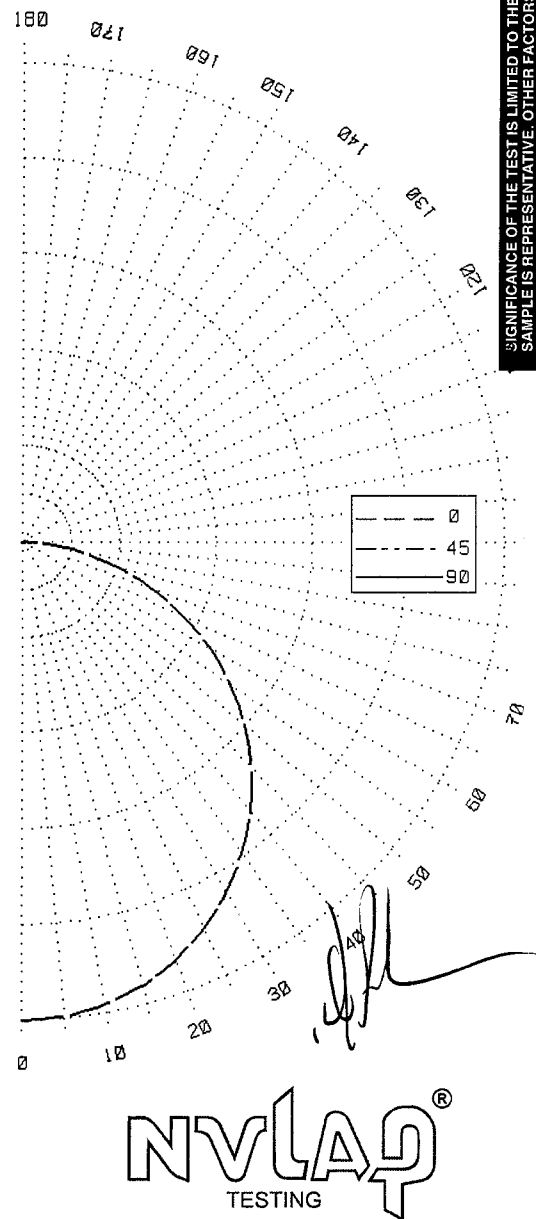
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20699.0 DATE 12/28/18  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - ST. LOUIS, MO  
DESCRIPTION: 12-48 LED 11.5"ARRAYS & 8-24 LED 5.75"ARRAYS 38"DIA WAF.R  
PENDANT LUMINAIRE w/WHITE REFL & WHITE ACRYLIC DROP LENS  
4-AC ELECTRONICS #AC50CD1.4APC7 @ 1000mA  
CATALOG NBR: P5538-40HI  
LAMP TYPE : LM-700-12-40K & LM-700-6-40K

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	3669.	
5	3651.	348.5
10	3599.	
15	3521.	998.0
20	3415.	
25	3273.	1514.8
30	3106.	
35	2911.	1828.8
40	2702.	
45	2461.	1905.8
50	2207.	
55	1926.	1727.9
60	1654.	
65	1348.	1338.1
70	1060.	
75	766.	810.2
80	484.	
85	240.	262.2
90	91.	
95	37.	40.7
100	29.	
105	23.	24.8
110	18.	
115	11.	11.3
120	7.	
125	3.	2.5
130	0.	
135	0.	.0
140	0.	
145	0.	.0
150	0.	
155	0.	.0
160	0.	
165	0.	.0
170	0.	
175	0.	.0
180	0.	



**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2861.	NA.	26.5	90-120	77.	NA.	.7
0- 40	4690.	NA.	43.4	90-130	79.	NA.	.7
0- 60	8324.	NA.	77.0	90-150	79.	NA.	.7
0- 90	10734.	NA.	99.3	90-180	79.	NA.	.7
TOTAL LUMINAIRE =				0-180	10814.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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	4621.
55	4325.
65	3913.
75	3284.
85	2092.

\*\*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	1.01	1.01	1.01	.99			
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84			
2	1.00	.92	.85	.79	.97	.90	.84	.78	.86	.81	.76	.83	.78	.75	.80	.76	.73	.71			
3	.91	.81	.73	.67	.89	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.66	.63	.60			
4	.84	.72	.63	.57	.81	.71	.63	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52			
5	.76	.63	.55	.48	.74	.62	.54	.48	.60	.53	.47	.58	.52	.46	.56	.50	.46	.44			
6	.70	.57	.48	.41	.68	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.45	.40	.38			
7	.65	.51	.42	.36	.63	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33			
8	.59	.46	.37	.31	.58	.45	.37	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28			
9	.55	.41	.33	.27	.53	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.24			
10	.51	.37	.29	.24	.49	.37	.29	.24	.35	.28	.23	.34	.28	.23	.33	.27	.23	.21			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

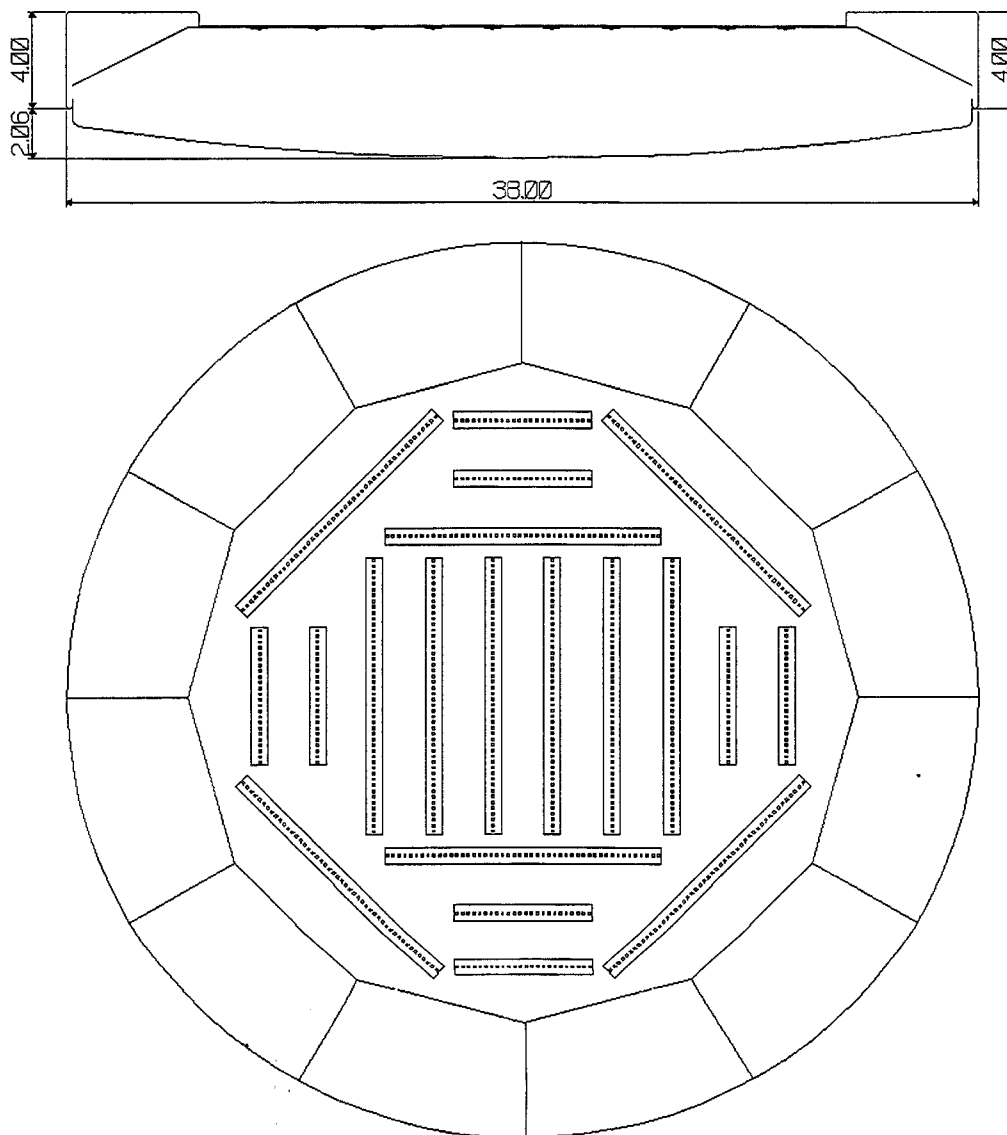
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LAMP TYPE : LM-700-12-40K & LM-700-6-40K

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ELECTRICAL CHARACTERISTICS 120.03V 1.3743A 164.7900W

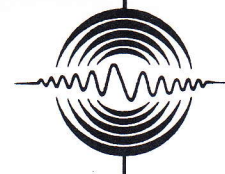
LUMINOUS EFFICACY (LUMENS / WATTS) = 65.6

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



# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

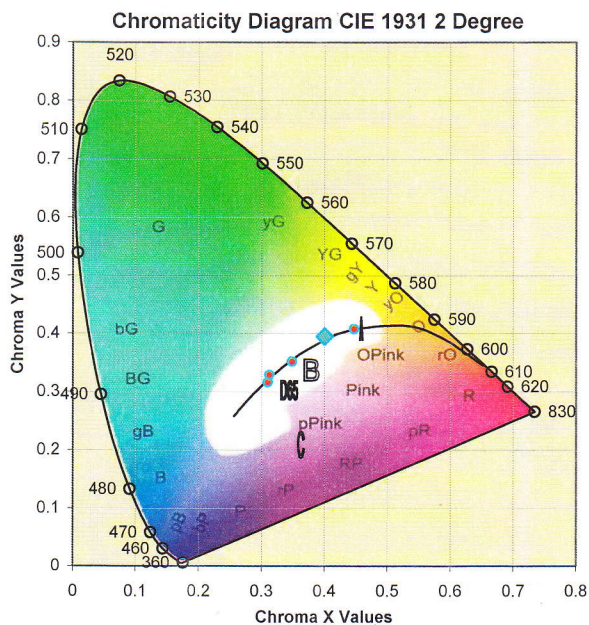
1618 HEADLAND DR.  
FENTON, MO 63026  
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BALLABS CERTIFIED TEST REPORT NO.: 20699.0 A DATE 12/28/18  
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LAMP TYPE : LM-700-12-40K & LM-700-6-40K

INPUT VOLTAGE (V)	120.03
INPUT CURRENT (A)	1.3743
INPUT WATTS (W)	164.7900
POWER FACTOR	0.9990
THDv (%)	0.193
THDi (%)	2.114
LUMINOUS EFFICACY-LPW	65.6
LUMINOUS FLUX- LUMENS	10814
CHROMA x	0.4006
CHROMA y	0.3945
CHROMA u	0.2312
CHROMA v	0.5121
DELTA uv (Duv)	0.0027
CORR COLOR TEMP (K)	3635
COLOR REND INDEX (RA)	83.47
COLOR REND INDEX (R9)	10.5

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.9531	610	186.7827
360	1.1675	620	171.6555
370	0.9361	630	153.3882
380	0.7773	640	131.7325
390	0.9082	650	109.2178
400	1.1434	660	86.5997
410	2.1143	670	66.9933
420	7.4955	680	52.3954
430	26.0367	690	40.3585
440	72.6788	700	30.6432
450	152.5032	710	22.9405
460	99.2748	720	17.2063
470	65.9001	730	12.6666
480	54.0965	740	9.4116
490	67.7609	750	7.1359
500	89.4544	760	5.4332
510	105.6474	770	4.1105
520	117.3555	780	3.0484
530	126.6883	790	2.3311
540	136.1544	800	1.7890
550	147.4462	810	1.3645
560	159.3696	820	1.1042
570	171.3348	830	0.8179
580	182.9760	840	0.6286
590	190.7947	850	0.5066
600	192.9165		



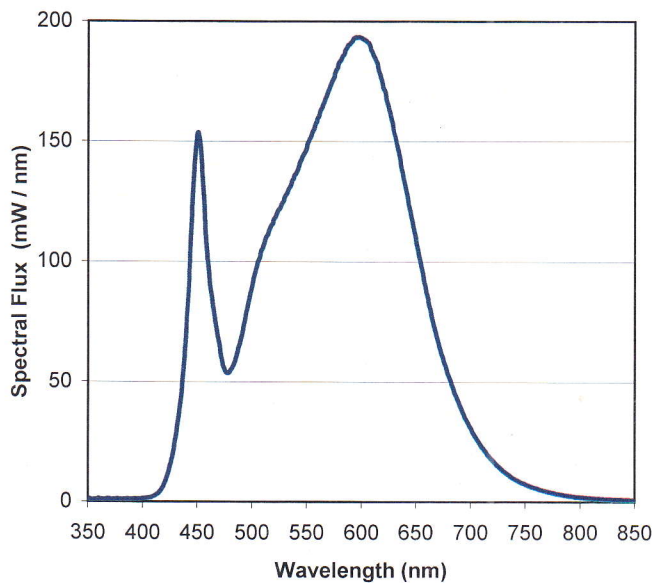
Data collected per LM79-08 using a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

Kelly C. Lerbs  
Vice President

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