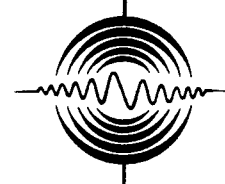


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

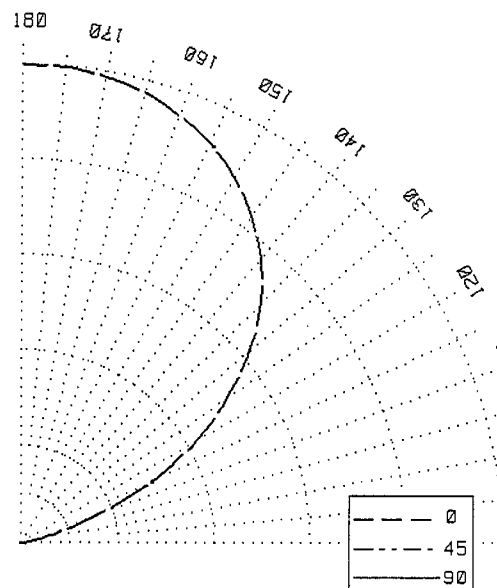
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20773.0 DATE 03/28/19  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 6-18 LED 4.4"ARRAYS(TOP)w/CLEAR 3 PIECE .125"LENS  
25"DIA WHITE ALUM PENDANT RING LUMINAIRE-TOP DISTRIBUTION  
AC ELECTRONICS #AC50CD1.4APC7 @ 400mA  
CATALOG NBR: P7424-NDL-40HI  
LAMP TYPE : IMPACT #LM-4.4-40K-80-54V

## 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	3.	3.4
100	18.	
105	71.	75.3
110	178.	
115	323.	320.5
120	459.	
125	567.	508.6
130	671.	
135	761.	589.2
140	836.	
145	899.	564.4
150	952.	
155	996.	461.2
160	1028.	
165	1055.	299.1
170	1072.	
175	1082.	103.3
180	1083.	



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TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	0.	NA.	.0	90-120	399.	NA.	13.6
0- 40	0.	NA.	.0	90-130	908.	NA.	31.0
0- 60	0.	NA.	.0	90-150	2062.	NA.	70.5
0- 90	0.	NA.	.0	90-180	2925.	NA.	100.0
TOTAL LUMINAIRE = 0-180					2925.	NA.	100.0

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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	.46	.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	.55	.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

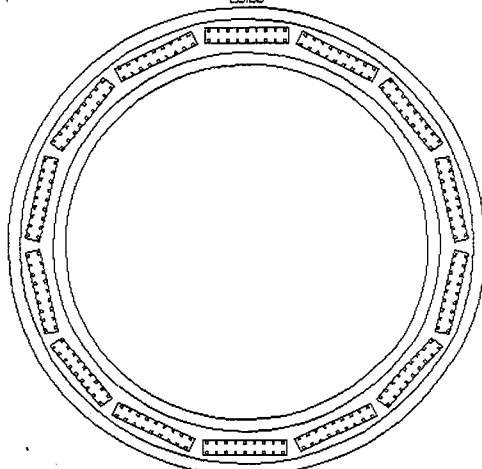
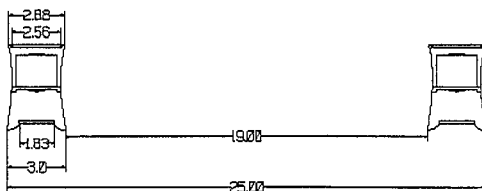
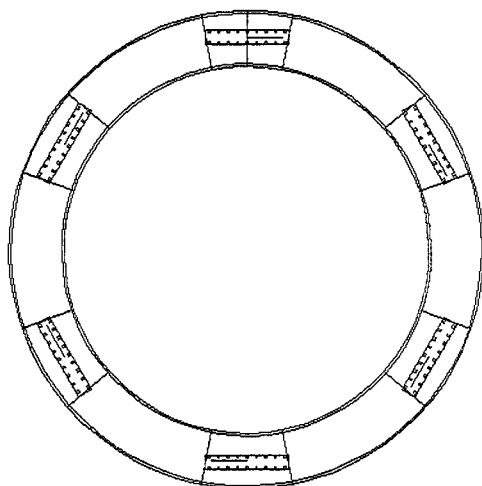
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ELECTRICAL CHARACTERISTICS 120.00V .1981A 23.7090W

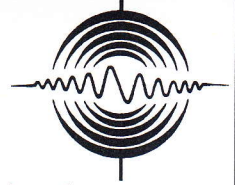
LUMINOUS EFFICACY (LUMENS / WATTS) = 123.4

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



# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

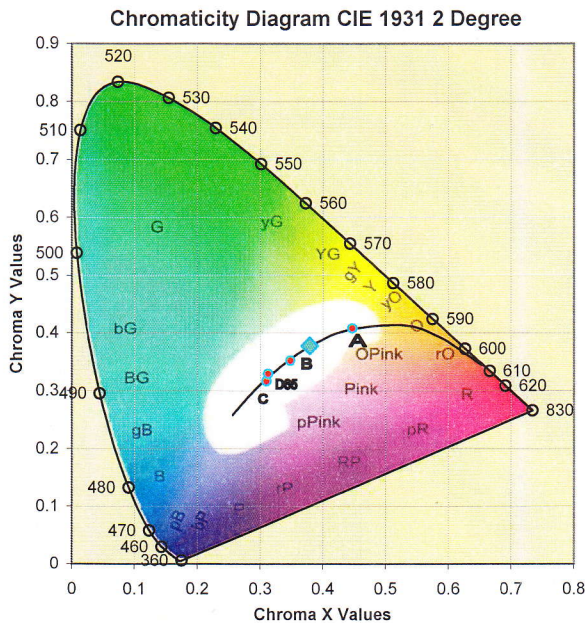
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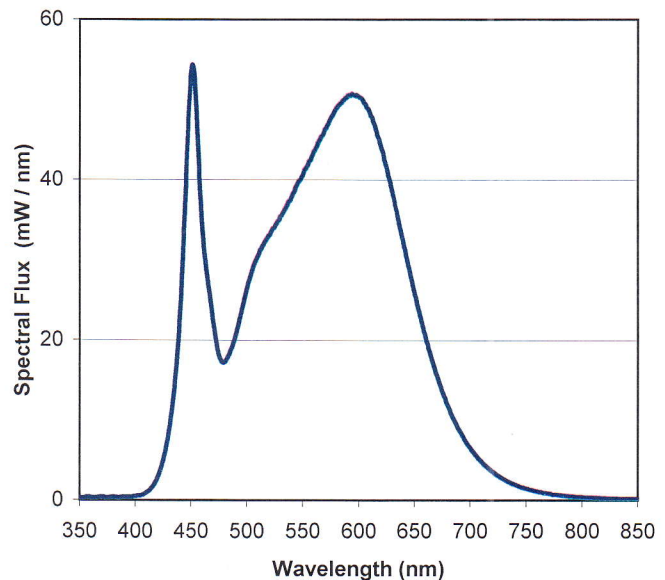
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INPUT VOLTAGE (V)	120.00
INPUT CURRENT (A)	0.1981
INPUT WATTS (W)	23.7090
POWER FACTOR	0.9972
THDv (%)	0.162
THDi (%)	3.353
LUMINOUS EFFICACY-LPW	123.4
LUMINOUS FLUX- LUMENS	2925
CHROMA x	0.3796
CHROMA y	0.3774
CHROMA u	0.2243
CHROMA v	0.5018
DELTA uv (Duv)	0.0006
CORR COLOR TEMP (K)	4027
COLOR REND INDEX (RA)	84.02
COLOR REND INDEX (R9)	11.2

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.2446	610	48.0890
360	0.2972	620	43.8800
370	0.3352	630	38.3662
380	0.3580	640	32.1771
390	0.3476	650	25.9398
400	0.4451	660	20.3704
410	0.9090	670	15.6162
420	2.7944	680	11.7553
430	8.5218	690	8.7689
440	23.3478	700	6.4973
450	53.1196	710	4.7756
460	34.3150	720	3.5387
470	22.1917	730	2.5805
480	17.1926	740	1.8809
490	20.5230	750	1.3933
500	26.2997	760	1.0392
510	30.3950	770	0.7780
520	32.9986	780	0.5792
530	35.2952	790	0.4394
540	37.6886	800	0.3376
550	40.4722	810	0.2568
560	43.3832	820	0.1978
570	46.2029	830	0.1577
580	48.7910	840	0.1248
590	50.3211	850	0.0954
600	50.2239		



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**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

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

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