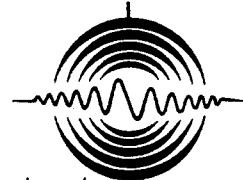


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 18318.0 DATE 08/11/14  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: BRIDGELUX LED ARRAY 12"DIA BUL.IT SURFACE MOUNT LUMINAIRE  
12"DIA SPUN ALUM CONICAL WHITE REFL w/.125"FROSTED ACRYLIC  
CONCAVE LENS THOMAS RESEARCH #LED40W-024-C1670-D  
CATALOG NBR: C3312.LED-40HI-XX  
LAMP TYPE : BXRA-40E4500-H RATED LUMENS NA. NBR. LAMPS:- 1

## CANDLEPOWER DISTRIBUTION

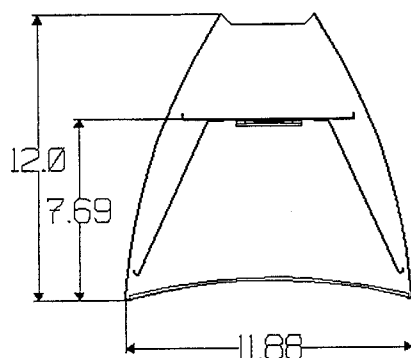
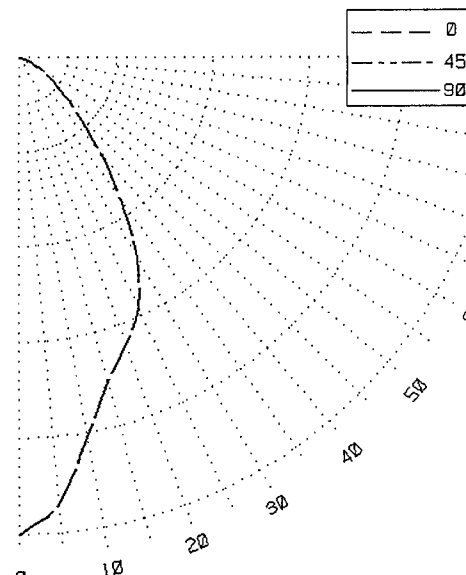
VERT  
ANG

### AVERAGE CANDELA

0	2422.
5	2279.
10	1963.
15	1715.
20	1560.
25	1416.
30	1186.
35	886.
40	644.
45	428.
50	298.
55	209.
60	140.
65	91.
70	59.
75	33.
80	16.
85	4.
90	0.

### ZONAL LUMENS

217.6
486.1
655.2
556.4
331.6
187.6
90.3
35.4
4.1



**NVLAP**<sup>®</sup>

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1359.	NA.	53.0	90-120	0.	NA.	.0
0- 40	1915.	NA.	74.7	90-130	0.	NA.	.0
0- 60	2435.	NA.	94.9	90-150	0.	NA.	.0
0- 90	2564.	NA.	100.0	90-180	0.	NA.	.0

TOTAL LUMINAIRE = 0-180 2564. NA. 100.0

IES SPACING CRITERIA: ADJACENT= .8 DIAGONAL= .6

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 \*\*\*\*\*

	LUMINANCES-CD/SQ-M HORIZONTAL ANGLE
VERT	0
ANGLE	
45	8966.
55	5399.
65	3186.
75	1913.
85	634.

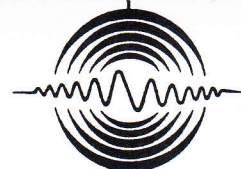
\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

\*\*\*\*\*

ELECTRICAL CHARACTERISTICS 120.0V .3363A 39.938W

LUMINOUS EFFICACY (LUMENS / WATTS) = 64.2

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



BALLABS CERTIFIED TEST REPORT NO.: 18318.0 A DATE 08/11/14  
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CONCAVE LENS THOMAS RESEARCH #LED40W-024-C1670-D

CATALOG NBR: C3312.LED-40HI-XX

LAMP TYPE : BXRA-40E4500-H

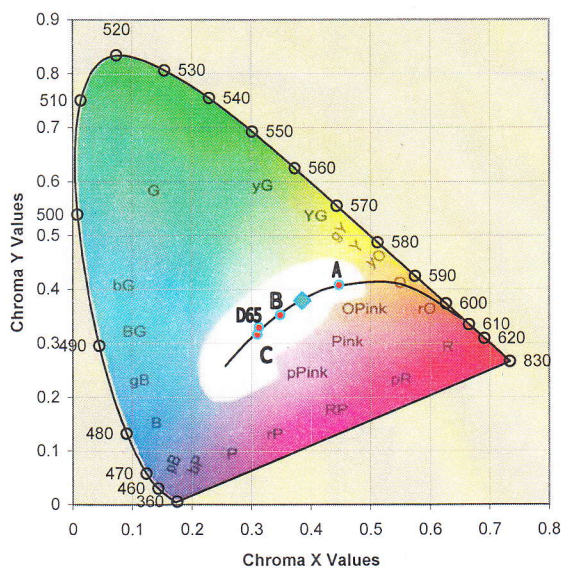
RATED LUMENS

NA. NBR. LAMPS:- 1

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.3363
INPUT WATTS (W)	39.938
POWER FACTOR	0.9895
THDv (%)	0.1510%
THDi (%)	10.9390%
LUMINOUS EFFICACY-LPW	64.2
LUMINOUS FLUX- LUMENS	2564
CHROMA x	0.3856
CHROMA y	0.3786
CHROMA u	0.2278
CHROMA v	0.3354
DELTA uv (Duv)	0.0007
CORR COLOR TEMP (K)	3873
COLOR REND INDEX (RA)	82.38
COLOR REND INDEX (R9)	16.7

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.1364	610	41.3045
360	0.1792	620	38.9318
370	0.1502	630	35.4244
380	0.1494	640	31.0646
390	0.1986	650	26.4118
400	0.3472	660	21.5566
410	1.2620	670	16.3588
420	5.0543	680	12.8110
430	13.0903	690	10.6030
440	26.8354	700	8.4248
450	40.8308	710	6.4883
460	25.2957	720	4.9005
470	15.7664	730	3.6685
480	12.3915	740	2.7104
490	14.4876	750	2.0455
500	19.3008	760	1.5266
510	23.8388	770	1.1314
520	27.6331	780	0.8410
530	30.9861	790	0.6347
540	33.9846	800	0.4727
550	36.9501	810	0.3631
560	39.3923	820	0.2867
570	41.3945	830	0.2168
580	42.9740	840	0.1715
590	43.6470	850	0.1359
600	43.0359		

Chromaticity Diagram CIE 1931 2 Degree



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.

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NVLAP LAB CODE 200921-0

Kelly C Lerbs  
Vice President

