

BALLABS CERTIFIED TEST REPORT NO.: 18319.0 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/OPEN BOTTOM  
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

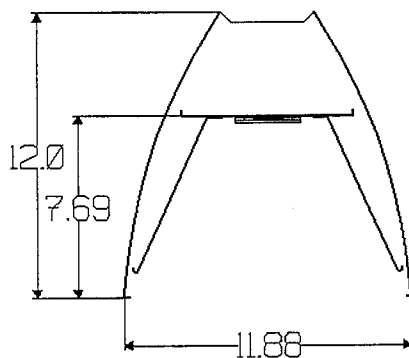
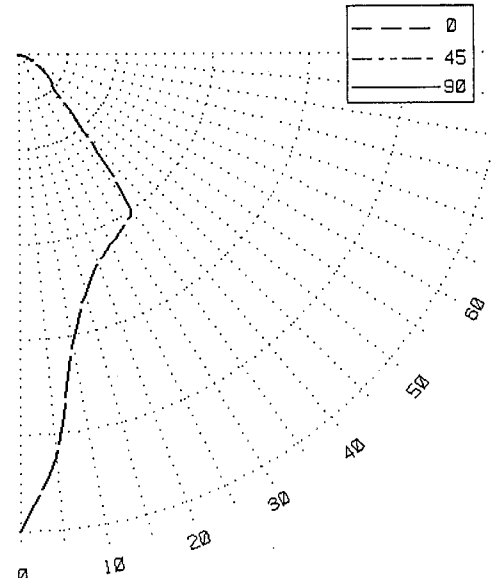
VERT  
ANG

### AVERAGE CANDELA

0	3216.
5	2726.
10	2000.
15	1675.
20	1513.
25	1423.
30	1364.
35	1283.
40	647.
45	323.
50	281.
55	218.
60	155.
65	104.
70	62.
75	32.
80	11.
85	1.
90	0.

### ZONAL LUMENS

260.2
474.7
658.8
806.2
250.4
195.8
103.5
34.1
1.3



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NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1394.	NA.	50.0	90-120	0.	NA.	.0
0- 40	2200.	NA.	79.0	90-130	0.	NA.	.0
0- 60	2646.	NA.	95.0	90-150	0.	NA.	.0
0- 90	2785.	NA.	100.0	90-180	0.	NA.	.0

TOTAL LUMINAIRE = 0-180 2785. NA. 100.0

IES SPACING CRITERIA: ADJACENT= .5 DIAGONAL= .3

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	LUMINANCES-CD/SQ-M
VERT	HORIZONTAL ANGLE
ANGLE	0
45	6773.
55	5635.
65	3653.
75	1847.
85	210.

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

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ELECTRICAL CHARACTERISTICS 120.0V .3375A 40.076W

LUMINOUS EFFICACY (LUMENS / WATTS) = 69.5

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



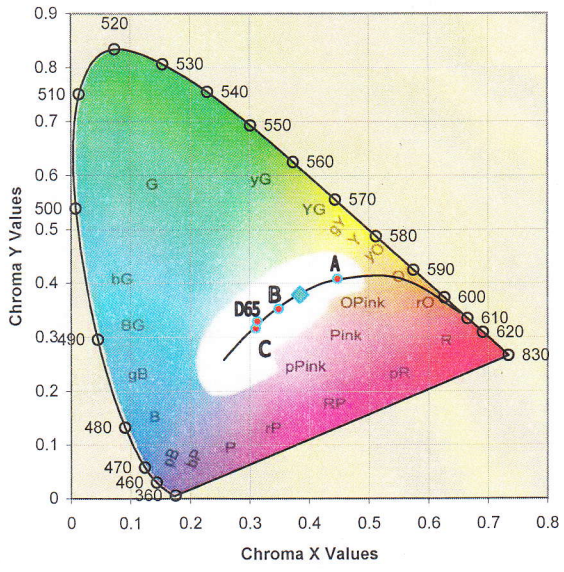
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RATED LUMENS NA. NBR. LAMPS:- 1

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.3375
INPUT WATTS (W)	40.076
POWER FACTOR	0.9896
THDv (%)	0.1479%
THDi (%)	10.9880%
LUMINOUS EFFICACY-LPW	69.5
LUMINOUS FLUX- LUMENS	2785
CHROMA x	0.3845
CHROMA y	0.378
CHROMA u	0.2273
CHROMA v	0.3352
DELTA uv (Duv)	0.0007
CORR COLOR TEMP (K)	3898
COLOR REND INDEX (RA)	82.33
COLOR REND INDEX (R9)	16.5

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.1337	610	44.6703
360	0.1672	620	42.1329
370	0.1487	630	38.2533
380	0.1789	640	33.5239
390	0.2200	650	28.4532
400	0.3842	660	23.2504
410	1.4066	670	17.6315
420	5.6111	680	13.8123
430	14.4404	690	11.4372
440	29.5766	700	9.0894
450	44.8118	710	6.9809
460	27.5731	720	5.2980
470	17.1506	730	3.9681
480	13.4644	740	2.9364
490	15.8106	750	2.1987
500	21.0563	760	1.6457
510	25.9731	770	1.2278
520	30.1908	780	0.9207
530	33.7651	790	0.6903
540	37.0050	800	0.5200
550	40.2391	810	0.3985
560	42.7986	820	0.3060
570	44.9302	830	0.2419
580	46.6079	840	0.1884
590	47.2921	850	0.1498
600	46.5233		

Chromaticity Diagram CIE 1931 2 Degree

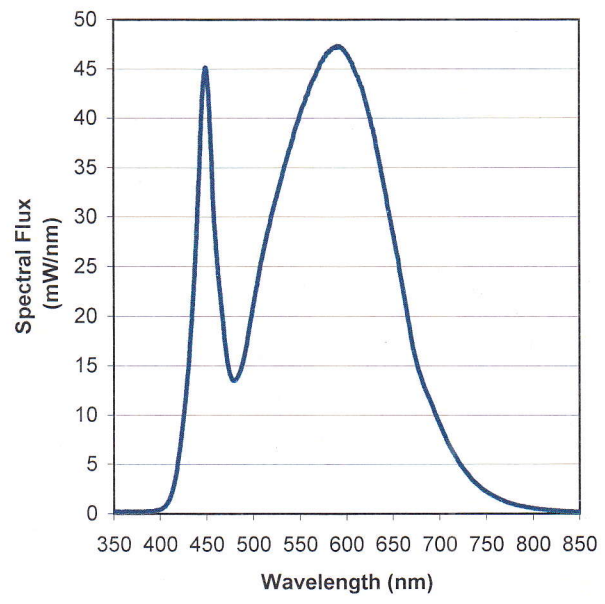


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



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*[Signature]*  
Kelly C Lerbs  
Vice President



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