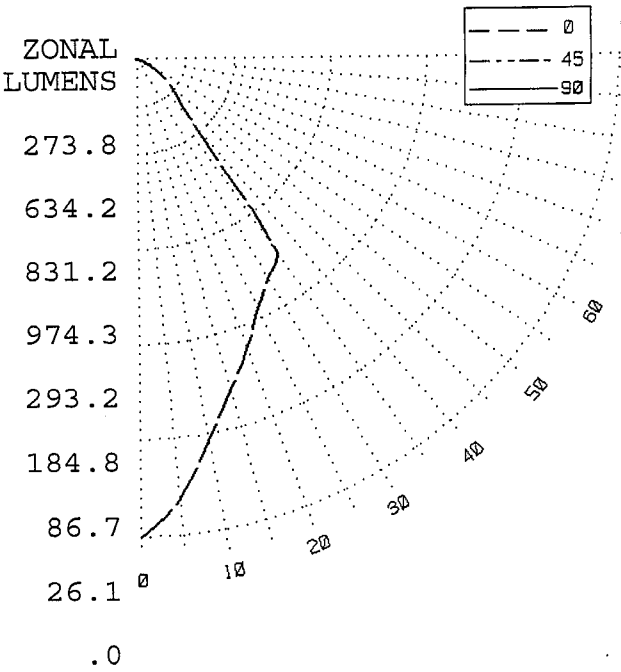
BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX

BALLABS CERTIFIED TEST REPORT NO.: 18611.0 DATE 01/13/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: BRIDGELUX LED ARRAY w/.12"CLEAR ACRYLIC LENS 16"DIA BUL.IT PENDANT LUMINAIRE w/14.5"DIA SPUN ALUM CONICAL WHITE INNER REFL w/OPEN BOTTOM THOMAS RESEARCH #LED40W-024-C1670-D
CATALOG NBR: P3316.LED-40HI-XX
LAMP TYPE : BXRA-40E4500-H-03 RATED LUMENS NA. NBR. LAMPS:- 1

CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	3091.
5	2868.
10	2519.
15	2237.
20	2010.
25	1796.
30	1652.
35	1551.
40	582.
45	379.
50	295.
55	206.
60	137.
65	87.
70	52.
75	25.
80	6.
85	0.
90	0.



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

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1739.	NA.	52.6	90-120	0.	NA.	.0
0- 40	2714.	NA.	82.1	90-130	0.	NA.	.0
0- 60	3192.	NA.	96.6	90-150	0.	NA.	.0
0- 90	3304.	NA.	100.0	90-180	0.	NA.	.0
	TOTAL LUMINAIRE =			0-180	3304.	NA.	100.0

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

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LUMINANCES-CD/SQ-M
HORIZONTAL ANGLE

VERT ANGLE	0
45	4295.
55	2881.
65	1658.
75	764.
85	0.

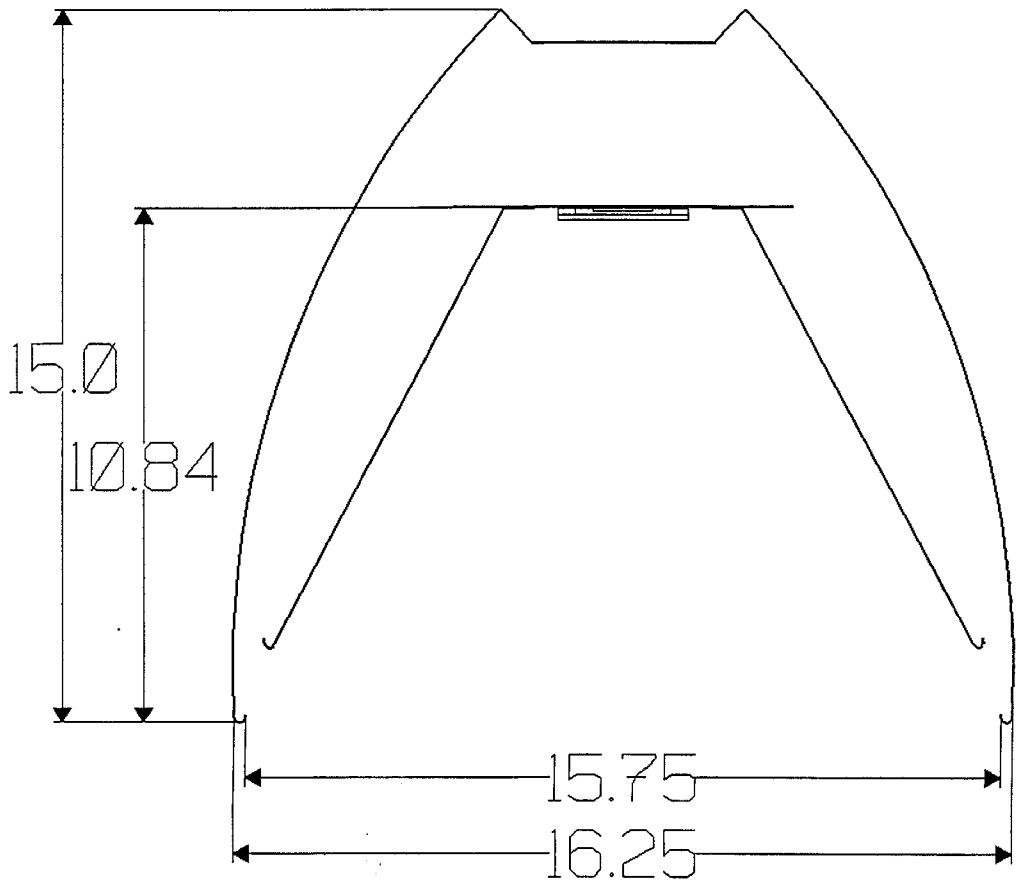
MAXIMUM BRIGHTNESSES NOT MEASURED

****

ELECTRICAL CHARACTERISTICS 120.0V .3848A 45.153W

LUMINOUS EFFICACY (LUMENS / WATTS) = 73.2

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



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BALLABS CERTIFIED TEST REPORT NO.: 18611.0 A DATE 01/13/15
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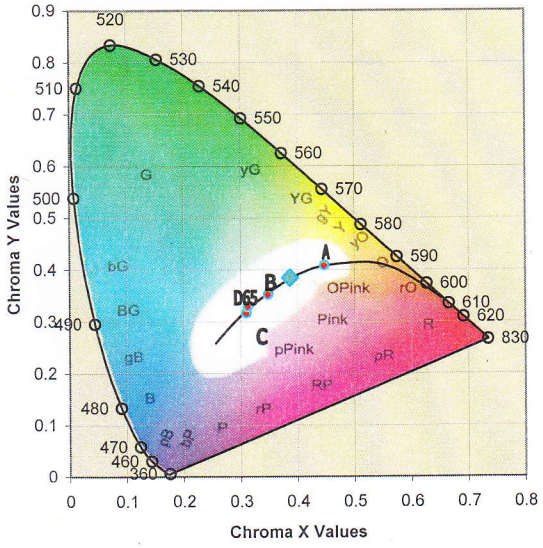
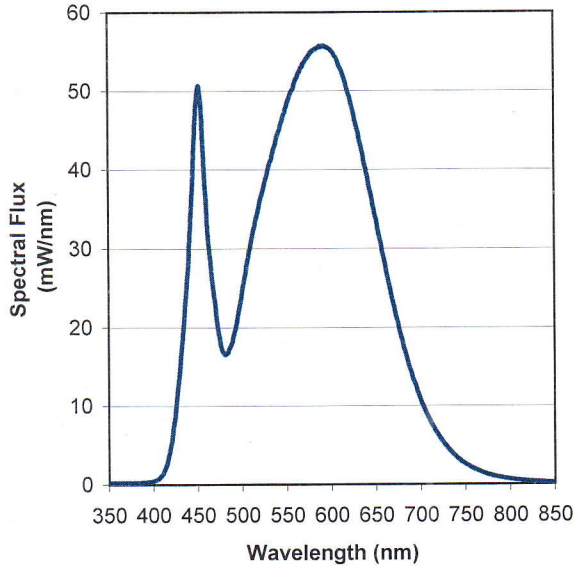
CATALOG NBR: P3316.LED-40HI-XX
LAMP TYPE : BXRA-40E4500-H-03 RATED LUMENS NA. NBR. LAMPS:- 1

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.3848
INPUT WATTS (W)	45.153
POWER FACTOR	0.9775
THDv (%)	0.1802%
THDi (%)	14.2610%
LUMINOUS EFFICACY-LPW	73.2
LUMINOUS FLUX- LUMENS	3304
CHROMA x	0.3871
CHROMA y	0.3835
CHROMA u	0.2267
CHROMA v	0.337
DELTA uv (Duv)	0.0011
CORR COLOR TEMP (K)	3873
COLOR REND INDEX (RA)	82.21
COLOR REND INDEX (R9)	15.2

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.1892	610	53.0676
360	0.1874	620	49.5809
370	0.2002	630	44.8865
380	0.1945	640	39.4545
390	0.2297	650	33.7853
400	0.4049	660	28.1243
410	1.2461	670	22.7113
420	5.0544	680	17.9979
430	14.4635	690	14.0308
440	28.5621	700	10.6939
450	49.5265	710	8.1115
460	35.0152	720	6.0924
470	22.6257	730	4.5403
480	16.5434	740	3.3626
490	18.6611	750	2.5075
500	24.4842	760	1.8665
510	30.6425	770	1.4030
520	35.8674	780	1.0345
530	40.2216	790	0.7866
540	44.2263	800	0.5893
550	47.8542	810	0.4619
560	51.0732	820	0.3419
570	53.4667	830	0.2806
580	54.9581	840	0.2091
590	55.6788	850	0.1661
600	55.1555		

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