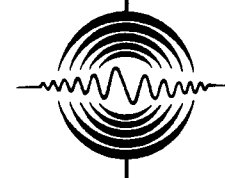


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

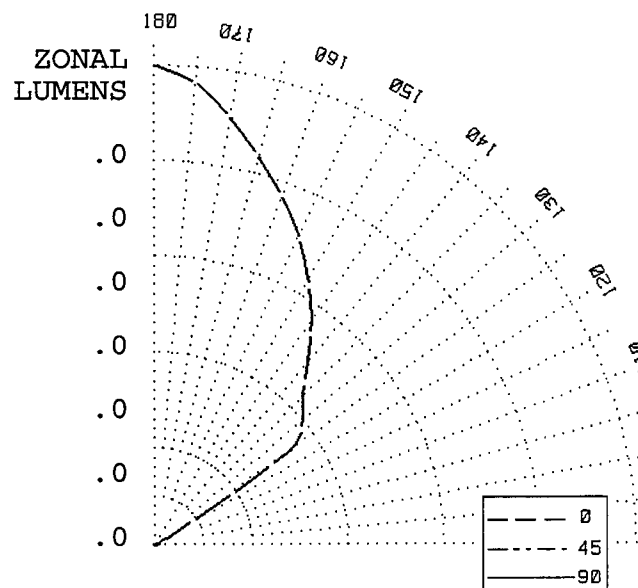
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20678.0 DATE 12/06/18
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 1-BRIDGELUX VERO 18 SE TIKI 13"DIA PENDANT LUMINAIRE
OPEN LED IN ALUMINUM REFLECTOR (UP LIGHT ONLY)
AC ELECTRONICS #AC-50CD1.4APC7 @ 525mA
CATALOG NBR: P5113-NDL-40HI (UP LIGHT ONLY)
LAMP TYPE : BRIDGELUX VERO 18 SE

CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	0.	
5	0.	
10	0.	
15	0.	
20	0.	
25	0.	
30	0.	
35	0.	
40	0.	
45	0.	
50	0.	
55	0.	
60	0.	
65	0.	
70	0.	
75	0.	
80	0.	
85	0.	
90	0.	
95	0.	.1
100	3.	
105	8.	8.3
110	13.	
115	18.	17.4
120	41.	
125	518.	464.7
130	584.	
135	634.	490.8
140	722.	
145	825.	518.1
150	927.	
155	1028.	476.0
160	1120.	
165	1214.	344.2
170	1312.	
175	1408.	134.4
180	1452.	



NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	0.	NA.	.0	90-120	26.	NA.	1.1
0- 40	0.	NA.	.0	90-130	490.	NA.	20.0
0- 60	0.	NA.	.0	90-150	1499.	NA.	61.1
0- 90	0.	NA.	.0	90-180	2454.	NA.	100.0
TOTAL LUMINAIRE =				0-180	2454.	NA.	100.0

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.

BALLABS CERTIFIED TEST REPORT NO.: 20678.0 DATE 12/06/18
 PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
 DESCRIPTION: 1-BRIDGELUX VERO 18 SE TIKI 13"DIA PENDANT LUMINAIRE
 OPEN LED IN ALUMINUM REFLECTOR (UP LIGHT ONLY)
 AC ELECTRONICS #AC-50CD1.4APC7 @ 525mA
 CATALOG NBR: P5113-NDL-40HI (UP LIGHT ONLY)
 LAMP TYPE : BRIDGELUX VERO 18 SE

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	.80				.70				.50				.30				.10		.00
WALL RCR	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00	
0	.95	.95	.95	.95	.81	.81	.81	.81	.56	.56	.56	.32	.32	.32	.10	.10	.10	.00	
1	.86	.82	.79	.75	.74	.71	.68	.65	.48	.46	.45	.28	.27	.26	.09	.09	.08	.00	
2	.79	.72	.66	.61	.67	.61	.57	.53	.42	.39	.37	.24	.23	.22	.08	.07	.07	.00	
3	.72	.63	.56	.51	.61	.54	.48	.44	.37	.34	.31	.21	.20	.18	.07	.06	.06	.00	
4	.65	.55	.48	.43	.55	.48	.42	.37	.33	.29	.26	.19	.17	.15	.06	.06	.05	.00	
5	.60	.49	.42	.36	.51	.42	.36	.32	.29	.25	.22	.17	.15	.13	.05	.05	.04	.00	
6	.55	.44	.37	.31	.47	.38	.32	.27	.26	.22	.19	.15	.13	.12	.05	.04	.04	.00	
7	.51	.40	.32	.27	.43	.34	.28	.24	.24	.20	.17	.14	.12	.10	.04	.04	.03	.00	
8	.47	.36	.29	.24	.40	.31	.25	.21	.21	.18	.15	.12	.10	.09	.04	.03	.03	.00	
9	.44	.33	.26	.22	.37	.28	.23	.19	.20	.16	.13	.11	.09	.08	.04	.03	.03	.00	
10	.41	.30	.24	.19	.35	.26	.20	.17	.18	.14	.12	.10	.09	.07	.03	.03	.02	.00	

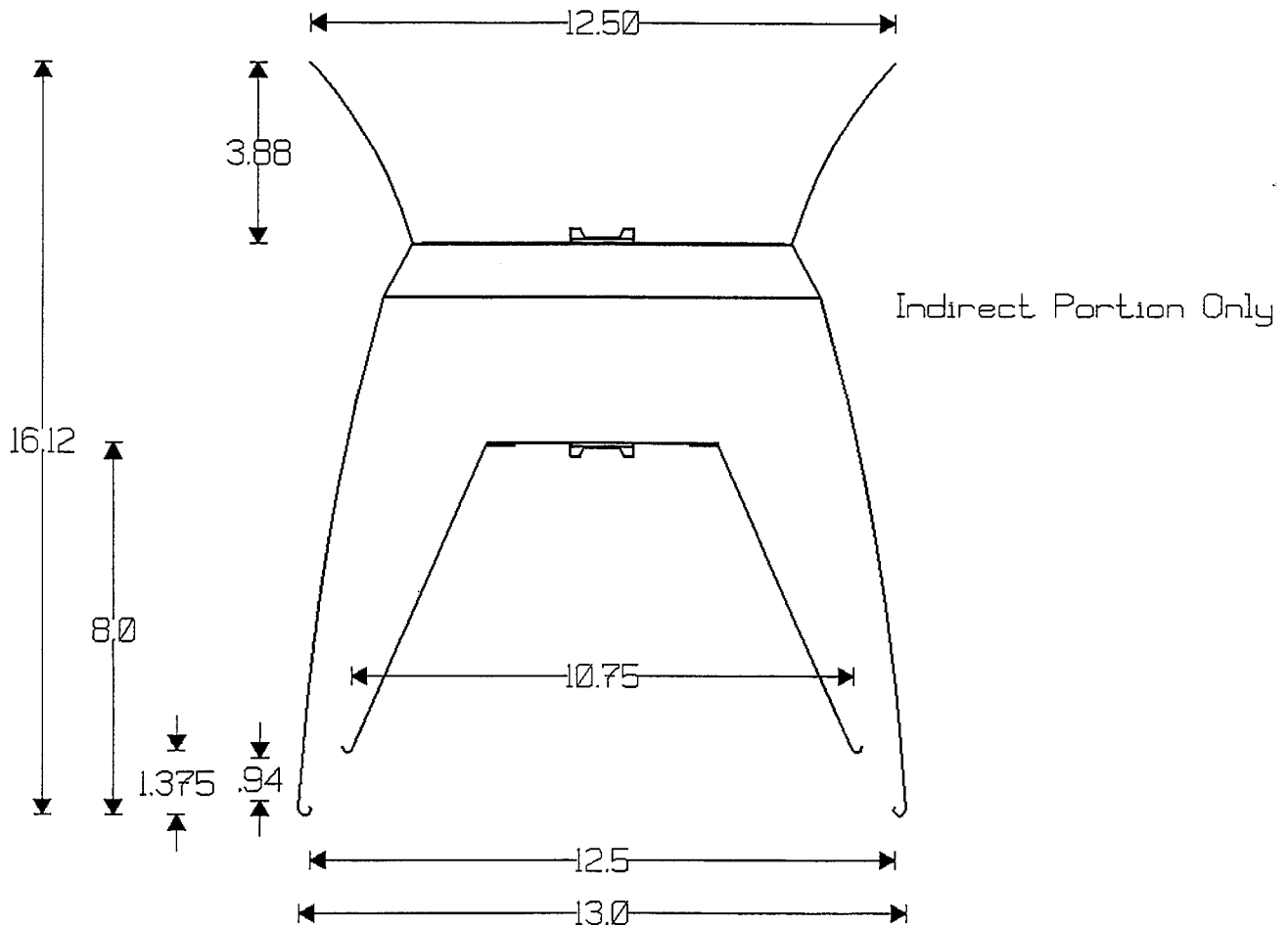
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

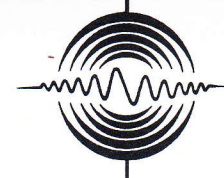
BALLABS CERTIFIED TEST REPORT NO.: 20678.0 DATE 12/06/18
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 1-BRIDGELUX VERO 18 SE TIKI 13"DIA PENDANT LUMINAIRE
OPEN LED IN ALUMINUM REFLECTOR (UP LIGHT ONLY)
AC ELECTRONICS #AC-50CD1.4APC7 @ 525mA
CATALOG NBR: P5113-NDL-40HI (UP LIGHT ONLY)
LAMP TYPE : BRIDGELUX VERO 18 SE

ELECTRICAL CHARACTERISTICS 119.97V .1809A 21.6080W

LUMINOUS EFFICACY (LUMENS / WATTS) = 113.6

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

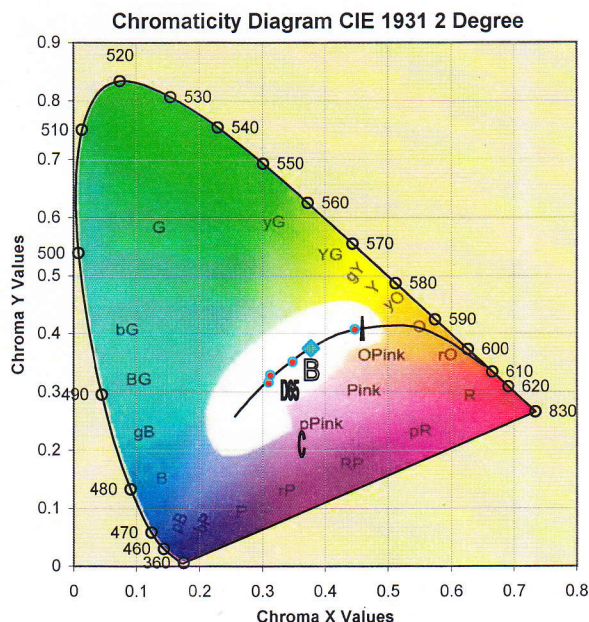




BALLABS CERTIFIED TEST REPORT NO.: 20678.0 A DATE 12/06/18
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 1-BRIDGELUX VERO 18 SE TIKI 13"DIA PENDANT LUMINAIRE
OPEN LED IN ALUMINUM REFLECTOR (UP LIGHT ONLY)
AC ELECTRONICS #AC-50CD1.4APC7 @ 525mA
CATALOG NBR: P5113-NDL-40HI (UP LIGHT ONLY)
LAMP TYPE : BRIDGELUX VERO 18 SE

INPUT VOLTAGE (V)	119.97
INPUT CURRENT (A)	0.1809
INPUT WATTS (W)	21.6080
POWER FACTOR	0.9956
THDv (%)	0.154
THDi (%)	3.768
LUMINOUS EFFICACY-LPW	113.6
LUMINOUS FLUX- LUMENS	2454
CHROMA x	0.3779
CHROMA y	0.3746
CHROMA u	0.2243
CHROMA v	0.5003
DELTA uv (Duv)	-0.0002
CORR COLOR TEMP (K)	4055
COLOR REND INDEX (RA)	83.50
COLOR REND INDEX (R9)	13.9

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.1791	610	39.8947
360	0.1979	620	36.7746
370	0.2134	630	32.3877
380	0.1829	640	27.4465
390	0.2054	650	22.4223
400	0.3121	660	17.8443
410	0.7919	670	13.7597
420	2.6476	680	10.4382
430	8.1552	690	7.8694
440	23.0813	700	5.8376
450	48.9481	710	4.3209
460	27.2131	720	3.1627
470	16.5038	730	2.3290
480	12.5010	740	1.6994
490	15.2196	750	1.2487
500	20.6262	760	0.9222
510	25.0318	770	0.6880
520	28.0371	780	0.5043
530	30.2947	790	0.3831
540	32.3585	800	0.2958
550	34.6257	810	0.2195
560	36.8451	820	0.1604
570	38.7609	830	0.1371
580	40.4667	840	0.1076
590	41.4240	850	0.0774
600	41.5119		



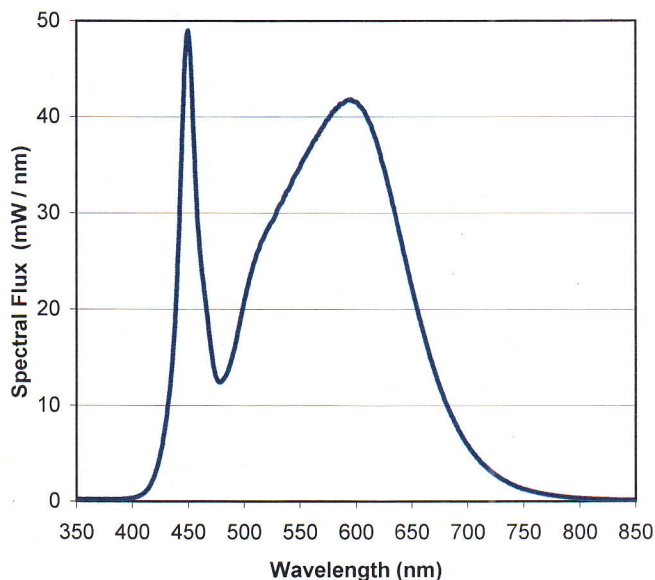
Data collected per LM79-08 using a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



[Signature]

Kelly C. Lerbs
Vice President

NVLAP LAB CODE 200921-0



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.