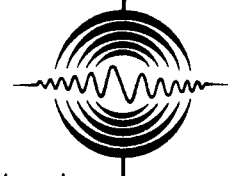


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

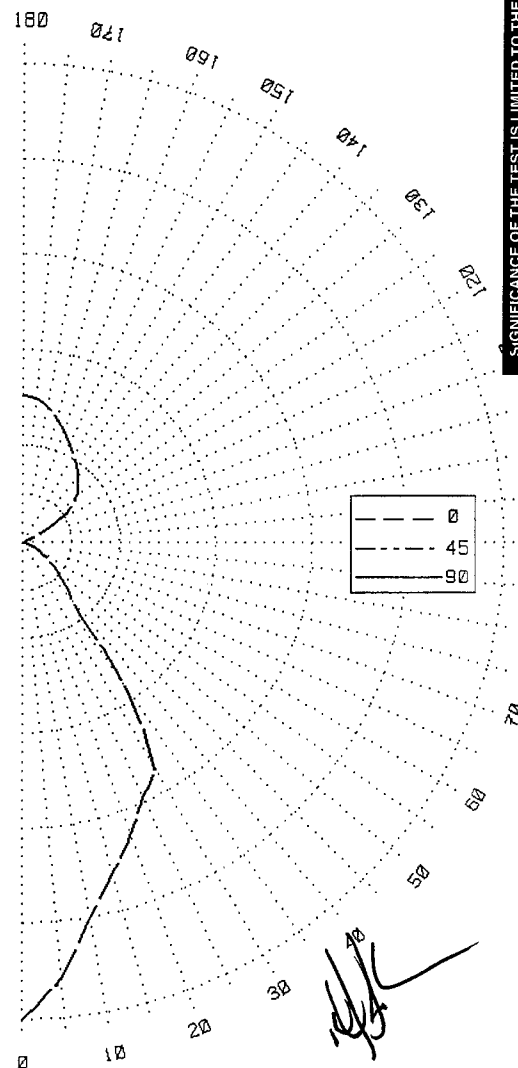
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20689.0 DATE 12/17/18
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 1-BRIDGELUX VERO 18 SE TIKI 17"DIA PENDANT LUMINAIRE
SILICONE DIFF/FLAT WHITE REFL,ALUM TOP & OPEN LED/BTM WHITE
REFL 2-AC ELECT #AC-50CD1.4APC7 @ 1000mA-BTM 550mA-TOP
CATALOG NBR: P5117-40HX-40HI
LAMP TYPE : BRIDGELUX VERO 18 SE

CANDLEPOWER DISTRIBUTION

| VERT ANG | AVERAGE CANDELA | ZONAL LUMENS |
|-------------|-----------------|-----------------|
| 0 | 3983. | |
| 5 | 3662. | 349.5 |
| 10 | 3202. | |
| 15 | 2873. | 814.4 |
| 20 | 2606. | |
| 25 | 2349. | 1087.5 |
| 30 | 2183. | |
| 35 | 1464. | 919.4 |
| 40 | 629. | |
| 45 | 508. | 393.0 |
| 50 | 364. | |
| 55 | 253. | 226.5 |
| 60 | 173. | |
| 65 | 113. | 111.9 |
| 70 | 70. | |
| 75 | 36. | 38.5 |
| 80 | 18. | |
| 85 | 6. | 6.2 |
| 90 | 4. | |
| 95 | 1. | 1.0 |
| 100 | 4. | |
| 105 | 9. | 9.9 |
| 110 | 28. | |
| 115 | 66. | 65.6 |
| 120 | 233. | |
| 125 | 477. | 427.6 |
| 130 | 573. | |
| 135 | 641. | 496.5 |
| 140 | 705. | |
| 145 | 766. | 481.3 |
| 150 | 830. | |
| 155 | 900. | 416.4 |
| 160 | 973. | |
| 165 | 1056. | 299.4 |
| 170 | 1135. | |
| 175 | 1194. | 114.0 |
| 180 | 1219. | |



NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

| ZONE | LUMENS | %LAMP | %FIXT | ZONE | LUMENS | %LAMP | %FIXT |
|-------------------|--------|-------|-------|--------|--------|-------|-------|
| 0- 30 | 2251. | NA. | 36.0 | 90-120 | 77. | NA. | 1.2 |
| 0- 40 | 3171. | NA. | 50.7 | 90-130 | 504. | NA. | 8.1 |
| 0- 60 | 3790. | NA. | 60.6 | 90-150 | 1482. | NA. | 23.7 |
| 0- 90 | 3947. | NA. | 63.1 | 90-180 | 2312. | NA. | 36.9 |
| TOTAL LUMINAIRE = | | | | 0-180 | 6259. | NA. | 100.0 |

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

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 CATALOG NBR: P5117-40HX-40HI
 LAMP TYPE : BRIDGELUX VERO 18 SE

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

| | |
|-------|-------|
| VERT | 0 |
| ANGLE | |
| 45 | 5242. |
| 55 | 3215. |
| 65 | 1948. |
| 75 | 1028. |
| 85 | 476. |

MAXIMUM BRIGHTNESSES NOT MEASURED

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 | 1.10 | 1.10 | 1.10 | 1.10 | 1.03 | 1.03 | 1.03 | 1.03 | .91 | .91 | .91 | .79 | .79 | .79 | .68 | .68 | .68 | .68 | .68 | .68 | .63 |
| 1 | 1.03 | 1.00 | .97 | .94 | .97 | .94 | .91 | .89 | .83 | .81 | .80 | .73 | .72 | .71 | .64 | .63 | .63 | .63 | .63 | .63 | .58 |
| 2 | .96 | .90 | .86 | .81 | .91 | .86 | .81 | .78 | .76 | .73 | .71 | .68 | .66 | .64 | .60 | .59 | .57 | .57 | .57 | .57 | .53 |
| 3 | .90 | .82 | .76 | .72 | .85 | .78 | .73 | .69 | .70 | .66 | .63 | .63 | .60 | .58 | .56 | .54 | .52 | .52 | .52 | .52 | .49 |
| 4 | .84 | .75 | .69 | .64 | .79 | .72 | .66 | .61 | .65 | .60 | .57 | .58 | .55 | .52 | .52 | .50 | .48 | .48 | .48 | .48 | .45 |
| 5 | .78 | .69 | .62 | .57 | .74 | .66 | .59 | .55 | .59 | .55 | .51 | .54 | .50 | .47 | .49 | .46 | .44 | .44 | .44 | .44 | .41 |
| 6 | .73 | .63 | .56 | .52 | .69 | .61 | .54 | .50 | .55 | .50 | .47 | .50 | .46 | .44 | .46 | .43 | .40 | .43 | .43 | .43 | .38 |
| 7 | .69 | .58 | .52 | .47 | .65 | .56 | .50 | .45 | .51 | .46 | .43 | .47 | .43 | .40 | .43 | .39 | .37 | .43 | .43 | .43 | .35 |
| 8 | .64 | .54 | .47 | .42 | .61 | .51 | .45 | .41 | .47 | .42 | .39 | .43 | .39 | .36 | .39 | .36 | .34 | .39 | .39 | .39 | .32 |
| 9 | .60 | .49 | .43 | .38 | .57 | .47 | .41 | .37 | .44 | .39 | .35 | .40 | .36 | .33 | .36 | .33 | .31 | .39 | .39 | .39 | .29 |
| 10 | .56 | .46 | .39 | .35 | .54 | .44 | .38 | .34 | .40 | .35 | .32 | .37 | .33 | .30 | .34 | .31 | .28 | .39 | .39 | .39 | .27 |

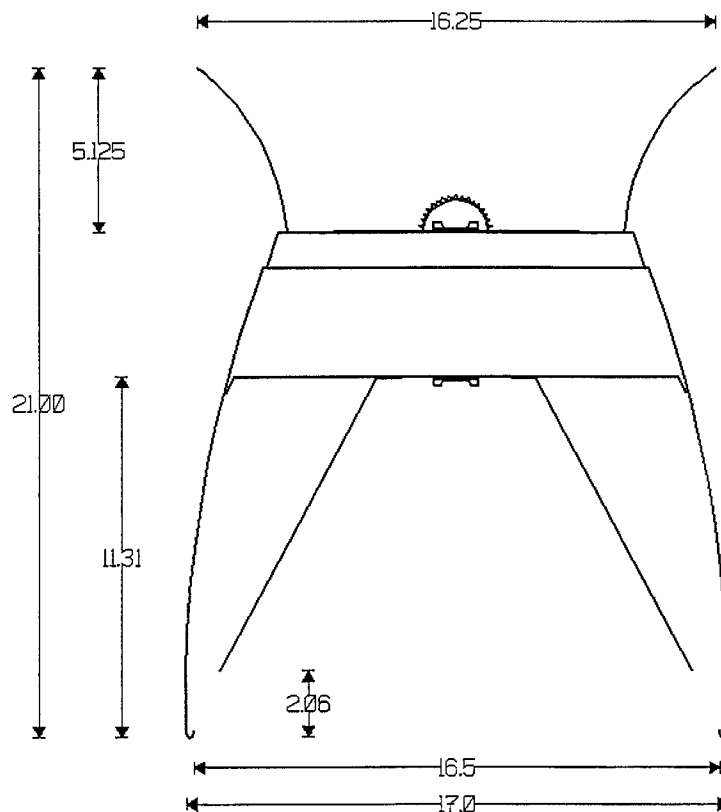
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

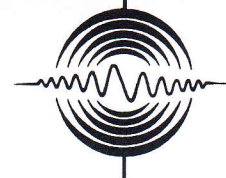
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CATALOG NBR: P5117-40HX-40HI
LAMP TYPE : BRIDGELUX VERO 18 SE

ELECTRICAL CHARACTERISTICS 119.99V .5170A 61.9300W

LUMINOUS EFFICACY (LUMENS / WATTS) = 101.1

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

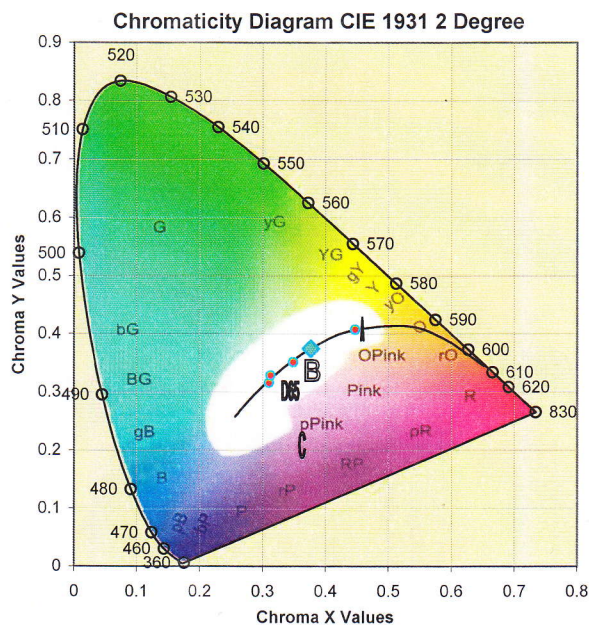




BALLABS CERTIFIED TEST REPORT NO.: 20689.0 A DATE 12/17/18
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CATALOG NBR: P5117-40HX-40HI
LAMP TYPE : BRIDGELUX VERO 18 SE

| | |
|-----------------------|---------|
| INPUT VOLTAGE (V) | 119.99 |
| INPUT CURRENT (A) | 0.5170 |
| INPUT WATTS (W) | 61.9300 |
| POWER FACTOR | 0.9982 |
| THDv (%) | 0.179 |
| THDi (%) | 2.056 |
| LUMINOUS EFFICACY-LPW | 101.1 |
| LUMINOUS FLUX- LUMENS | 6259 |
| CHROMA x | 0.3768 |
| CHROMA y | 0.3749 |
| CHROMA u | 0.2234 |
| CHROMA v | 0.5002 |
| DELTA uv (Duv) | 0.0002 |
| CORR COLOR TEMP (K) | 4088 |
| COLOR REND INDEX (RA) | 83.11 |
| COLOR REND INDEX (R9) | 11.1 |

| Wavelength (nm) | Spectral Flux mW/nm | Wavelength (nm) | Spectral Flux mW/nm |
|--------------------|---------------------------|--------------------|---------------------------|
| 350 | 0.4671 | 610 | 100.5533 |
| 360 | 0.4253 | 620 | 92.1192 |
| 370 | 0.4620 | 630 | 81.0314 |
| 380 | 0.4532 | 640 | 68.5693 |
| 390 | 0.5472 | 650 | 56.1128 |
| 400 | 0.8556 | 660 | 44.6275 |
| 410 | 2.1704 | 670 | 34.6589 |
| 420 | 7.3575 | 680 | 26.5138 |
| 430 | 21.5554 | 690 | 20.0554 |
| 440 | 54.0300 | 700 | 14.9931 |
| 450 | 115.2240 | 710 | 11.1530 |
| 460 | 77.7527 | 720 | 8.3060 |
| 470 | 48.2185 | 730 | 6.1280 |
| 480 | 34.8724 | 740 | 4.4726 |
| 490 | 39.5454 | 750 | 3.3252 |
| 500 | 51.6460 | 760 | 2.4791 |
| 510 | 62.6719 | 770 | 1.8341 |
| 520 | 70.9202 | 780 | 1.3893 |
| 530 | 77.1970 | 790 | 1.0467 |
| 540 | 82.7521 | 800 | 0.7946 |
| 550 | 88.4780 | 810 | 0.6316 |
| 560 | 94.1154 | 820 | 0.4700 |
| 570 | 99.6640 | 830 | 0.3630 |
| 580 | 104.0090 | 840 | 0.2969 |
| 590 | 106.0492 | 850 | 0.2386 |
| 600 | 105.6808 | | |



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 LAB CODE 200921-0

Kelly C. Lerbs
Vice President

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