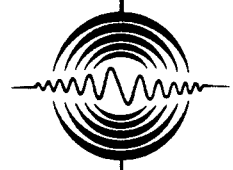


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 20688.0 DATE 12/17/18
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - ST. LOUIS, MO
DESCRIPTION: 1-BRIDGELUX VERO 18 SE TIKI 17"DIA ALUM PENDANT LUMINAIRE
OPEN LED IN INTERNAL WHITE REFLECTOR (BTM)
AC ELECTRONICS #AC-50CD1.4APC7 @ 1000mA (BTM)
CATALOG NBR: P5117-40HX-NUL (DOWNLIGHT ONLY) P4917-40HX
LAMP TYPE : BRIDGELUX VERO 18 SE

CANDLEPOWER DISTRIBUTION

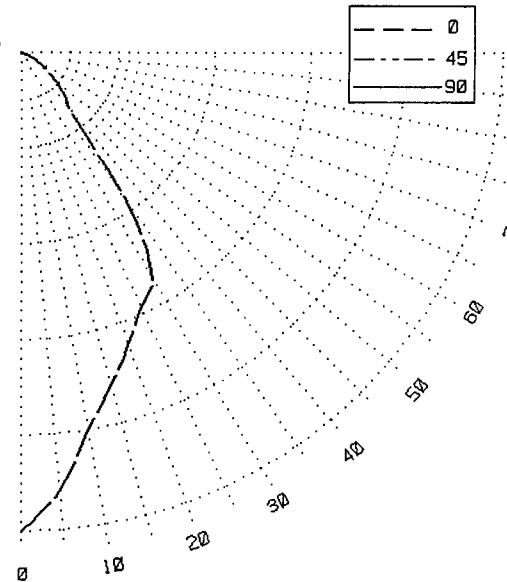
VERT
ANG

AVERAGE CANDELA

0	4261.
5	3926.
10	3419.
15	3069.
20	2772.
25	2511.
30	2328.
35	1626.
40	671.
45	543.
50	390.
55	270.
60	181.
65	118.
70	71.
75	35.
80	17.
85	2.
90	0.

ZONAL
LUMENS

374.7
869.8
1162.4
1021.6
420.8
241.8
117.0
37.1
2.5



[Handwritten signature]

NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2407.	NA.	56.7	90-120	0.	NA.	.0
0- 40	3429.	NA.	80.7	90-130	0.	NA.	.0
0- 60	4091.	NA.	96.3	90-150	0.	NA.	.0
0- 90	4248.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	4248.	NA.	100.0

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

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LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE
 VERT
 ANGLE
 45 5613.
 55 3432.
 65 2038.
 75 989.
 85 189.
 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	.00
RCR																		
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.10	1.07	1.05	1.11	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2	1.07	1.02	.97	.93	1.05	1.00	.96	.92	.97	.93	.90	.94	.91	.88	.91	.89	.87	.85
3	1.01	.94	.89	.84	.99	.93	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4	.95	.87	.81	.76	.93	.86	.80	.76	.83	.79	.75	.81	.77	.74	.79	.76	.73	.71
5	.89	.80	.74	.69	.88	.79	.73	.69	.77	.72	.68	.76	.71	.67	.74	.70	.67	.65
6	.84	.75	.68	.63	.83	.74	.68	.63	.72	.67	.63	.71	.66	.62	.69	.65	.62	.60
7	.80	.69	.63	.58	.78	.69	.62	.58	.67	.62	.58	.66	.61	.57	.65	.60	.57	.56
8	.75	.64	.58	.53	.73	.64	.57	.53	.62	.57	.53	.61	.56	.52	.60	.56	.52	.51
9	.70	.59	.53	.48	.69	.59	.52	.48	.58	.52	.48	.57	.51	.48	.56	.51	.47	.46
10	.66	.55	.48	.44	.64	.54	.48	.44	.53	.48	.44	.53	.47	.44	.52	.47	.43	.42

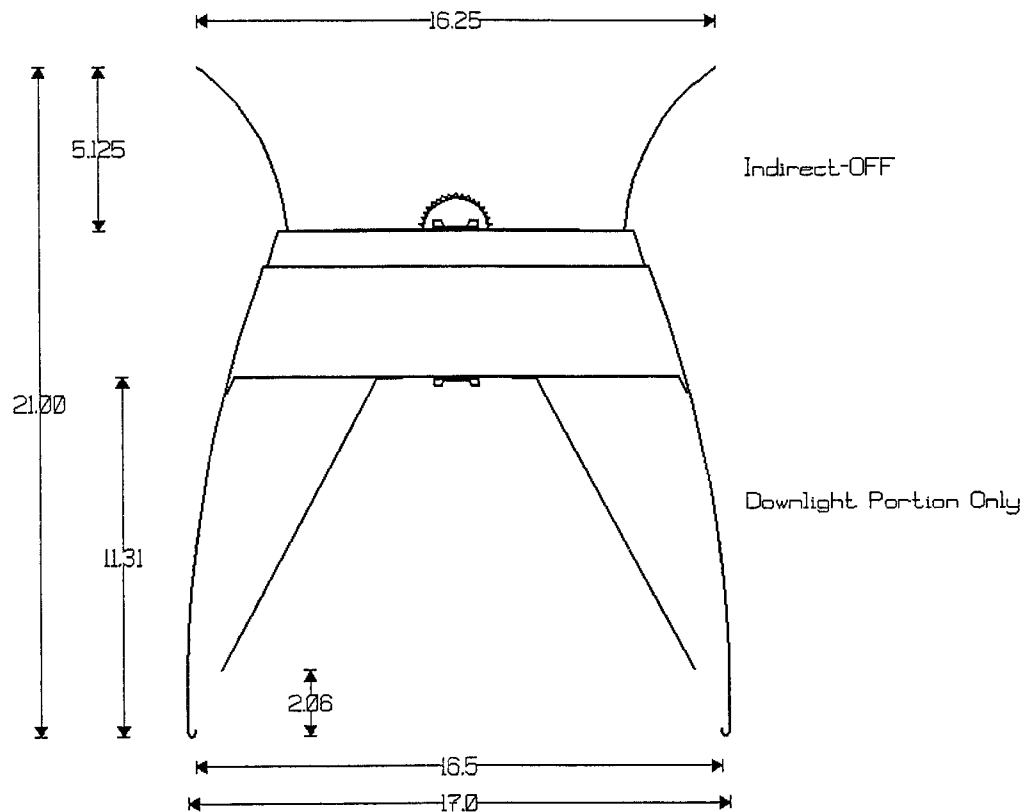
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

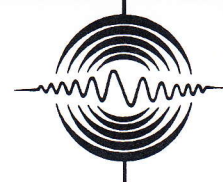
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 LAMP TYPE : BRIDGELUX VERO 18 SE

ELECTRICAL CHARACTERISTICS 119.97V .3322A 39.7190W

LUMINOUS EFFICACY (LUMENS / WATTS) = 106.9

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

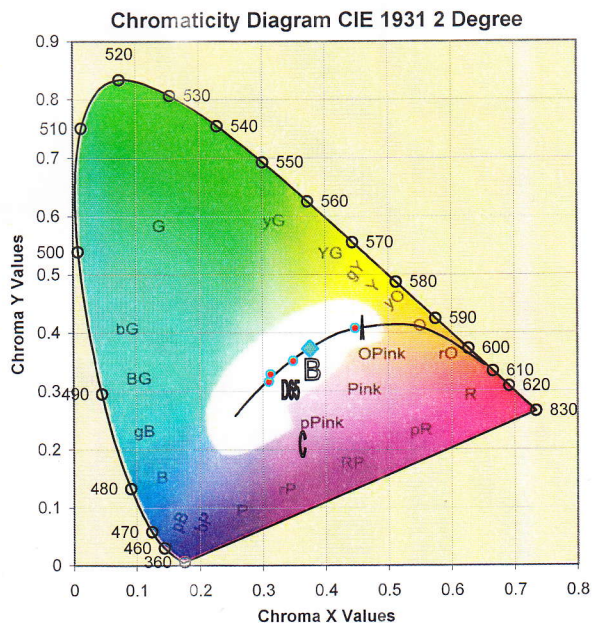




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LAMP TYPE : BRIDGELUX VERO 18 SE

INPUT VOLTAGE (V)	119.97
INPUT CURRENT (A)	0.3322
INPUT WATTS (W)	39.7190
POWER FACTOR	0.9966
THDv (%)	0.256
THDi (%)	3.363
LUMINOUS EFFICACY-LPW	106.9
LUMINOUS FLUX- LUMENS	4248
CHROMA x	0.3755
CHROMA y	0.3725
CHROMA u	0.2236
CHROMA v	0.4990
DELTA uv (Duv)	-0.0006
CORR COLOR TEMP (K)	4106
COLOR REND INDEX (RA)	83.32
COLOR REND INDEX (R9)	12.1

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.2614	610	68.5123
360	0.2793	620	62.6011
370	0.3054	630	54.9802
380	0.3516	640	46.4823
390	0.3991	650	38.0436
400	0.6339	660	30.2361
410	1.5001	670	23.5012
420	5.2493	680	17.9987
430	15.5094	690	13.6824
440	37.7973	700	10.2076
450	78.7875	710	7.6372
460	54.1663	720	5.6364
470	33.7351	730	4.1647
480	24.1203	740	3.0447
490	26.9856	750	2.2849
500	34.8601	760	1.7191
510	42.4184	770	1.2830
520	47.9724	780	0.9377
530	52.1726	790	0.7134
540	56.0026	800	0.5491
550	59.7763	810	0.4381
560	63.8921	820	0.3305
570	67.5753	830	0.2479
580	70.7620	840	0.2030
590	72.2286	850	0.1640
600	71.8586		



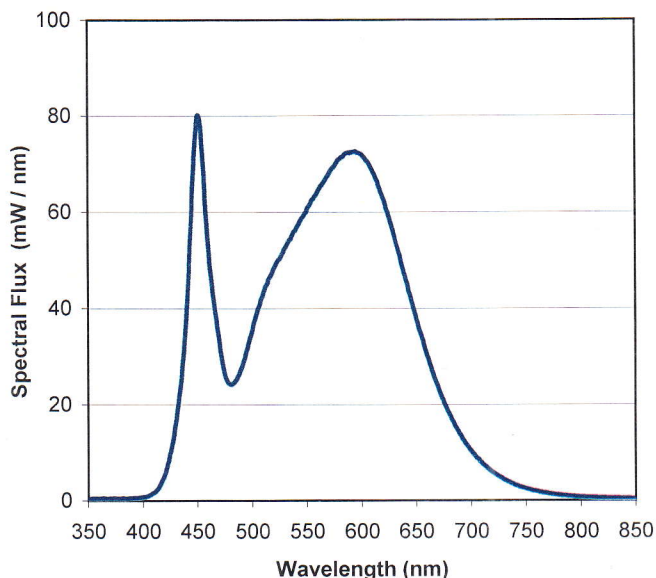
Data collected per LM79-08 using a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



Kelly C. Lerbs

Kelly C. Lerbs
Vice President

NVLAP LAB CODE 200921-0



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