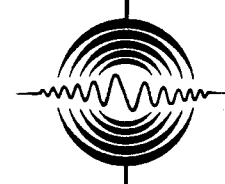


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

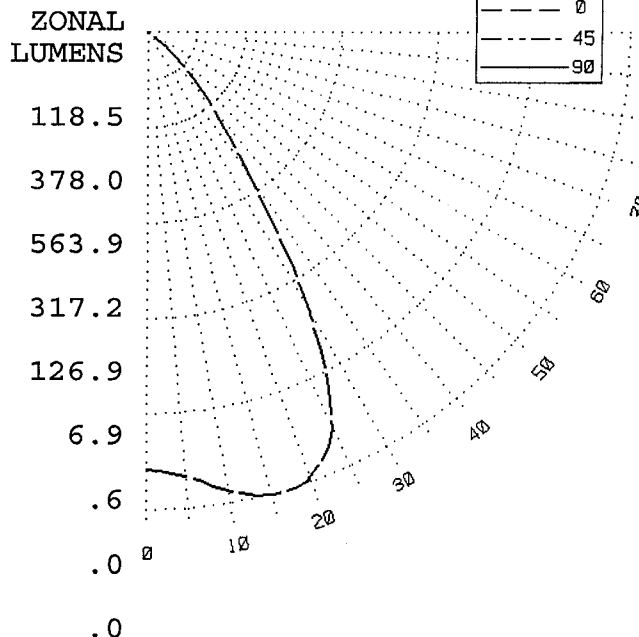
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20683.0 DATE 12/12/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: 1 BRIDGELUX V13 LED 4"RND RECESSED CAST HOUSING DOWNLIGHT  
OPEN SEMI-SPEC SPUN ALUM REFL w/DOMED DIFF TOP LENS (WIDE)  
ADVANCE # XI025C070V054DSM5 @ 490mA  
CATALOG NBR: 4DR-TL-L20/835-DIM1-UNV-OW (V2A) -OF-CS-TD  
LAMP TYPE : V13 BXRE-35E2000

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	1219.
5	1241.
10	1297.
15	1334.
20	1322.
25	1218.
30	901.
35	505.
40	292.
45	164.
50	67.
55	8.
60	4.
65	1.
70	0.
75	0.
80	0.
85	0.
90	0.



*Handwritten signature*

**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1060.	NA.	70.1	90-120	0.	NA.	.0
0- 40	1378.	NA.	91.1	90-130	0.	NA.	.0
0- 60	1511.	NA.	100.0	90-150	0.	NA.	.0
0- 90	1512.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	1512.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.1 DIAGONAL= .8

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.

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

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\*\*\*\*\*

LUMINANCES-CD/SQ-M  
 HORIZONTAL ANGLE  
 VERT  
 ANGLE

45	23708.
55	1367.
65	155.
75	0.
85	0.

\*\*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	1.14	1.11	1.09	1.07	1.11	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94	
2	1.09	1.04	1.00	.97	1.06	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88	
3	1.03	.97	.92	.89	1.01	.96	.91	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.82	
4	.98	.91	.85	.81	.96	.90	.85	.81	.88	.83	.80	.86	.82	.79	.84	.81	.78	.77	
5	.93	.85	.79	.75	.91	.84	.79	.75	.82	.77	.74	.80	.76	.73	.79	.75	.73	.71	
6	.88	.80	.74	.70	.87	.79	.74	.70	.77	.73	.69	.76	.72	.69	.75	.71	.68	.67	
7	.84	.75	.69	.65	.83	.74	.69	.65	.73	.68	.64	.72	.67	.64	.70	.67	.63	.62	
8	.79	.70	.64	.60	.78	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57	
9	.74	.64	.58	.54	.73	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.52	
10	.70	.60	.54	.50	.69	.59	.54	.50	.59	.53	.50	.58	.53	.49	.57	.52	.49	.48	

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : V13 BXRE-35E2000

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ELECTRICAL CHARACTERISTICS 119.86V .1687A 19.8500W

LUMINOUS EFFICACY (LUMENS / WATTS) = 76.2

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

