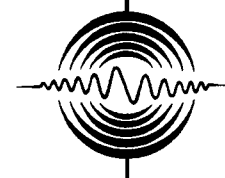


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

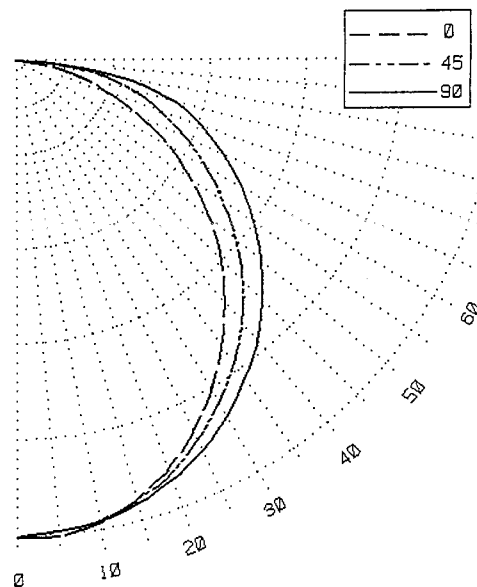
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20932.0 DATE 08/19/19
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 1-56LED 22"ARRAY 2X2'LT LED TROFFER LUMINAIRE
WHITE REFL & BLACK SIDE VENTS w/5.375"FROST CENTER LENS
ADVANCE #CI024C045V052CNN1 @ 460mA
CATALOG NBR: LT-AR22-L27/835-AF-DIM-UNV
LAMP TYPE : 10560222 HLM2256_5630 REV B

CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	957.	957.	957.	957.	957.	
5	958.	954.	950.	950.	949.	90.8
10	944.	939.	939.	940.	940.	
15	914.	912.	915.	920.	922.	259.8
20	877.	877.	888.	895.	899.	
25	829.	833.	848.	865.	871.	393.0
30	772.	783.	802.	822.	833.	
35	710.	723.	751.	780.	789.	471.8
40	642.	655.	696.	731.	744.	
45	573.	592.	634.	672.	690.	489.7
50	502.	522.	568.	617.	634.	
55	425.	448.	501.	553.	574.	448.9
60	353.	374.	435.	492.	516.	
65	271.	301.	369.	431.	453.	363.2
70	198.	230.	303.	373.	390.	
75	128.	167.	243.	308.	327.	250.1
80	68.	104.	171.	219.	223.	
85	18.	41.	70.	75.	70.	62.8
90	0.	0.	0.	0.	0.	



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

NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	744.	NA.	26.3	90-120	0.	NA.	.0
0- 40	1215.	NA.	42.9	90-130	0.	NA.	.0
0- 60	2154.	NA.	76.1	90-150	0.	NA.	.0
0- 90	2830.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180				2830.	NA.	100.0	

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.2 CROSS= 1.3

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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LUMINANCES-CD/SQ-M			
HORIZONTAL ANGLE			
VERT	0	45	90
ANGLE			
45	2384.	2636.	2868.
55	2177.	2566.	2944.
65	1885.	2568.	3152.
75	1459.	2757.	3710.
85	614.	2354.	2354.
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	1.09	1.04	1.00	.96	1.06	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84			
2	.99	.91	.85	.79	.97	.89	.83	.78	.86	.81	.76	.83	.78	.74	.80	.76	.73	.71			
3	.91	.81	.72	.66	.88	.79	.72	.65	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60			
4	.83	.71	.63	.56	.81	.70	.62	.56	.68	.60	.55	.65	.59	.54	.63	.58	.53	.51			
5	.76	.63	.54	.47	.74	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43			
6	.70	.56	.47	.41	.68	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.37			
7	.64	.51	.42	.35	.62	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33			
8	.59	.45	.37	.31	.57	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28			
9	.54	.41	.32	.26	.53	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.24			
10	.51	.37	.29	.23	.49	.36	.29	.23	.35	.28	.23	.34	.28	.23	.33	.27	.23	.21			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : 10560222 HLM2256_5630 REV B

ELECTRICAL CHARACTERISTICS 120.07V .1805A 21.2600W

LUMINOUS EFFICACY (LUMENS / WATTS) = 133.1

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

