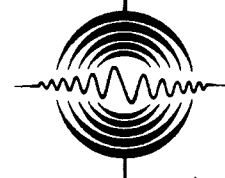


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

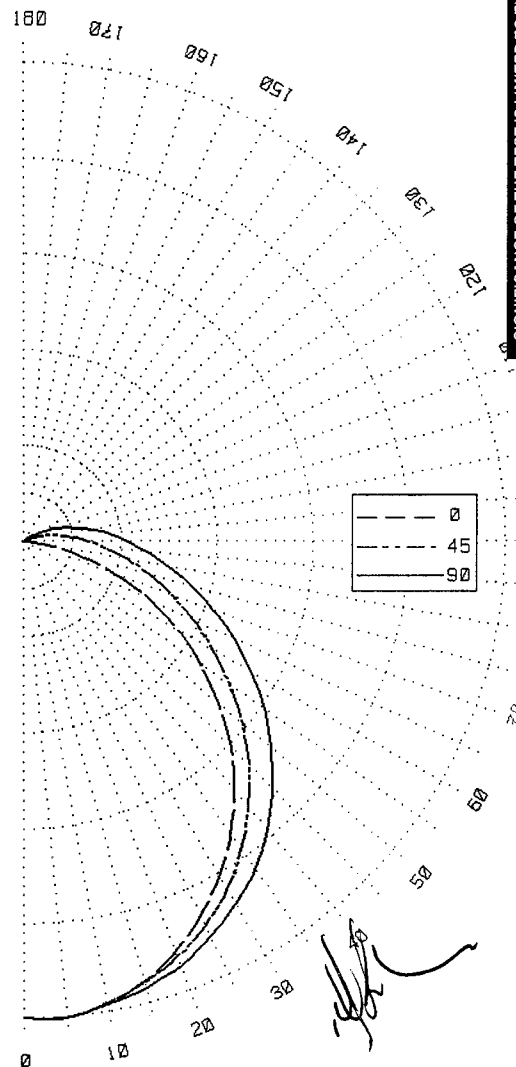
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20089.0 DATE 10/24/17  
PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO  
DESCRIPTION: 1-44 LED 22"ARRAY 2'EXTRUDED SURFACE MNT LUMINAIRE  
WHITE FLAT REFL IN ACRYLIC HOUSING w/WHITE DIFFUSER  
PHILIPS XITANIUM DRIVER #XI040C110V054YPT2 w/3.3K RESISTOR  
CATALOG NBR: PRF-S1-2-LZH-40-U  
LAMP TYPE : FORTIMO LED LINE 2FT 4000LM 840 1R LV2

## CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	1104.	1104.	1104.	1104.	1104.	
5	1107.	1101.	1099.	1099.	1100.	105.0
10	1088.	1084.	1085.	1087.	1089.	
15	1055.	1053.	1058.	1067.	1071.	300.5
20	1012.	1010.	1024.	1037.	1045.	
25	956.	963.	982.	999.	1010.	454.5
30	895.	907.	931.	954.	969.	
35	827.	842.	869.	903.	926.	548.1
40	753.	767.	801.	843.	870.	
45	673.	689.	732.	780.	808.	569.6
50	584.	603.	655.	710.	740.	
55	494.	520.	579.	643.	674.	521.7
60	410.	437.	499.	573.	602.	
65	321.	355.	430.	504.	532.	425.8
70	229.	272.	364.	437.	464.	
75	143.	195.	299.	373.	400.	301.1
80	67.	133.	243.	314.	338.	
85	12.	84.	190.	259.	283.	185.6
90	0.	51.	147.	212.	236.	
95	0.	29.	111.	173.	196.	112.1
100	0.	13.	79.	133.	157.	
105	0.	0.	54.	99.	119.	56.3
110	0.	0.	30.	74.	90.	
115	0.	0.	8.	47.	66.	21.7
120	0.	0.	0.	19.	37.	
125	0.	0.	0.	3.	10.	1.8
130	0.	0.	0.	0.	0.	
135	0.	0.	0.	0.	0.	.0
140	0.	0.	0.	0.	0.	
145	0.	0.	0.	0.	0.	.0
150	0.	0.	0.	0.	0.	
155	0.	0.	0.	0.	0.	.0
160	0.	0.	0.	0.	0.	
165	0.	0.	0.	0.	0.	.0
170	0.	0.	0.	0.	0.	
175	0.	0.	0.	0.	0.	.0
180	0.	0.	0.	0.	0.	



**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	860.	NA.	23.9	90-120	190.	NA.	5.3
0- 40	1408.	NA.	39.1	90-130	192.	NA.	5.3
0- 60	2499.	NA.	69.4	90-150	192.	NA.	5.3
0- 90	3412.	NA.	94.7	90-180	192.	NA.	5.3
TOTAL LUMINAIRE = 0-180					3604.	NA.	100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.3 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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VERT ANGLE	LUMINANCES-CD/SQ-M HORIZONTAL ANGLE		
	0	45	90
45	25189.	18886.	20861.
55	22797.	16251.	18932.
65	20107.	13717.	16949.
75	14638.	11419.	15251.
85	3622.	9385.	14003.

\*\*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	1.18	1.18	1.18	1.18	1.14	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.95			
1	1.07	1.02	.97	.93	1.03	.99	.95	.91	.94	.90	.87	.89	.86	.83	.84	.82	.80	.78			
2	.97	.89	.81	.75	.94	.86	.80	.74	.82	.76	.72	.78	.73	.69	.74	.70	.67	.64			
3	.89	.78	.70	.63	.86	.76	.68	.62	.72	.66	.60	.69	.63	.59	.66	.61	.57	.55			
4	.81	.69	.60	.54	.78	.67	.59	.53	.64	.57	.52	.61	.55	.50	.59	.53	.49	.47			
5	.74	.61	.52	.45	.72	.60	.51	.45	.57	.49	.44	.54	.48	.43	.52	.46	.42	.39			
6	.68	.55	.46	.39	.66	.53	.45	.39	.51	.43	.38	.49	.42	.37	.47	.41	.36	.34			
7	.63	.49	.40	.34	.61	.48	.40	.34	.46	.38	.33	.44	.37	.32	.42	.36	.32	.30			
8	.58	.44	.35	.29	.56	.43	.35	.29	.41	.34	.29	.39	.33	.28	.38	.32	.28	.25			
9	.53	.39	.31	.25	.51	.39	.31	.25	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22			
10	.49	.36	.28	.22	.48	.35	.27	.22	.34	.27	.22	.32	.26	.21	.31	.25	.21	.19			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 120.04V .3012A 36.062W

LUMINOUS EFFICACY (LUMENS / WATTS) = 99.9

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

