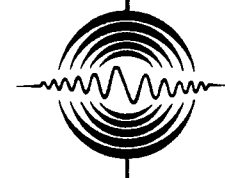


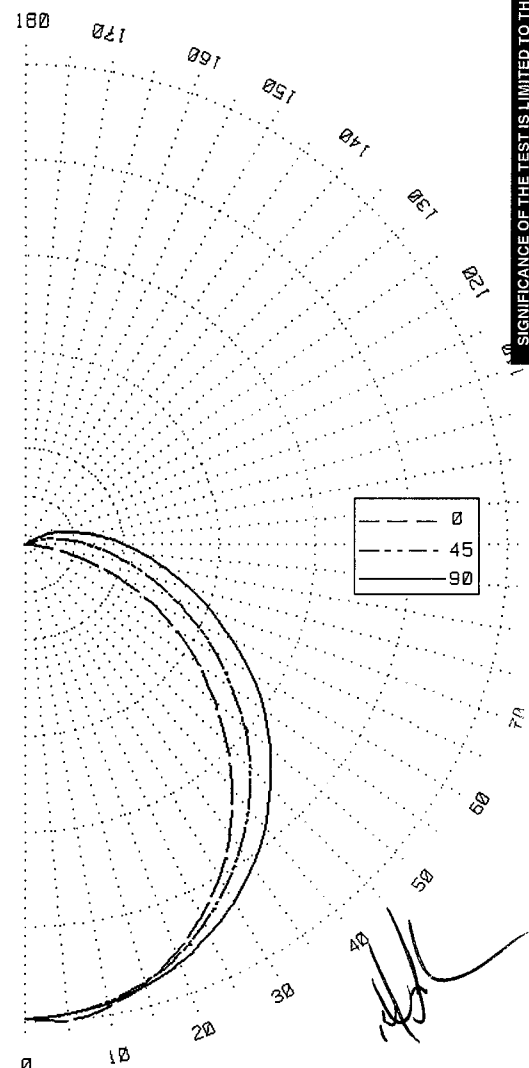
# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 20096.0 DATE 10/26/17  
PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO  
DESCRIPTION: 1-72 LED 44.5"ARRAY 4'EXTRUDED SURFACE MNT LUMINAIRE  
WHITE FLAT REFL IN ACRYLIC HOUSING w/WHITE DIFFUSER  
FORTIMO LLS EASESELECT 36W INT LV1  
CATALOG NBR: PRF-S1-4-PES-50-U  
LAMP TYPE : FORTIMO LLS ES 4FT 4400LM 850 1R LV1

CANDLEPOWER DISTRIBUTION						
VERT	HORIZONTAL ANGLE					ZONAL
ANG	0	22.5	45	67.5	90	LUMENS
0	1122.	1122.	1122.	1122.	1122.	
5	1132.	1119.	1116.	1115.	1116.	106.8
10	1112.	1097.	1098.	1101.	1102.	
15	1078.	1065.	1073.	1081.	1082.	304.7
20	1031.	1022.	1039.	1054.	1054.	
25	975.	971.	991.	1016.	1020.	460.1
30	909.	912.	938.	971.	978.	
35	834.	844.	877.	918.	928.	552.8
40	753.	774.	814.	858.	875.	
45	669.	700.	745.	793.	812.	576.5
50	580.	614.	671.	727.	749.	
55	496.	526.	591.	656.	684.	530.1
60	411.	442.	515.	582.	613.	
65	324.	358.	442.	511.	533.	431.5
70	233.	271.	368.	442.	463.	
75	152.	200.	301.	377.	397.	305.0
80	76.	138.	242.	314.	334.	
85	21.	84.	190.	259.	278.	186.7
90	2.	52.	146.	213.	232.	
95	0.	30.	108.	171.	190.	110.4
100	0.	15.	76.	133.	151.	
105	0.	4.	52.	100.	114.	56.3
110	0.	0.	29.	74.	87.	
115	0.	0.	7.	48.	62.	21.3
120	0.	0.	2.	21.	35.	
125	0.	0.	0.	4.	11.	2.0
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	872.	NA.	23.9	90-120	188.	NA.	5.2
0- 40	1424.	NA.	39.1	90-130	190.	NA.	5.2
0- 60	2531.	NA.	69.5	90-150	190.	NA.	5.2
0- 90	3454.	NA.	94.8	90-180	190.	NA.	5.2
TOTAL LUMINAIRE = 0-180					3644.	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	12755.	9798.	10675.
55	11667.	8465.	9794.
65	10329.	7169.	8657.
75	7937.	5855.	7729.
85	3314.	4795.	7013.

\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

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# 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	1.04	.99	.95	.91	.94	.90	.87	.89	.86	.84	.84	.82	.80	.78					
2	.97	.89	.81	.75	.94	.86	.80	.74	.82	.76	.72	.78	.73	.69	.74	.70	.67	.65					
3	.89	.78	.70	.63	.86	.76	.68	.62	.72	.66	.61	.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	.40					
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	.40	.33	.28	.38	.32	.28	.26					
9	.53	.39	.31	.25	.51	.39	.31	.25	.37	.30	.25	.36	.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 119.97V .2930A 34.4220W

LUMINOUS EFFICACY (LUMENS / WATTS) = 105.9

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

