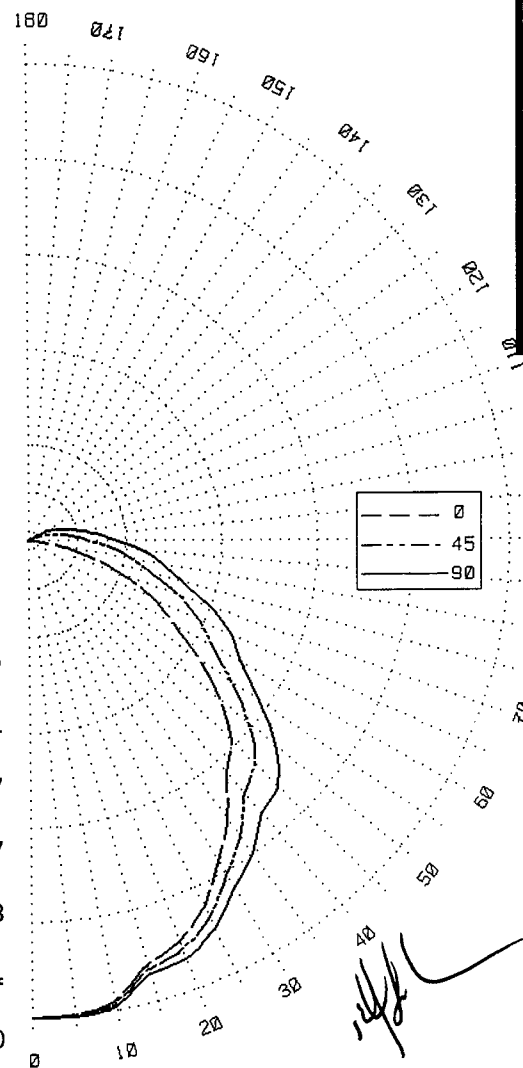


BALLABS CERTIFIED TEST REPORT NO.: 20094.0 DATE 10/30/17  
PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO  
DESCRIPTION: 4-44 LED 22"ARRAYS 8'EXTRUDED SURFACE MNT LUMINAIRE  
WHITE FLAT REFL IN ACRYLIC HOUSING w/WHITE DIFFUSER  
PHILIPS XITANIUM DRIVER #XI075C200V054YPT2 w/27K RESISTOR  
CATALOG NBR: PRF-S1-8-LZH-50-U  
LAMP TYPE : FORTIMO LED LINE 2FT 4000LM 850 1R LV2

## CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	2528.	2528.	2528.	2528.	2528.	
5	2517.	2517.	2521.	2524.	2528.	240.7
10	2475.	2478.	2489.	2497.	2503.	
15	2324.	2331.	2348.	2367.	2376.	665.9
20	2256.	2267.	2303.	2344.	2350.	
25	2140.	2159.	2203.	2255.	2267.	1020.7
30	1959.	1984.	2046.	2107.	2127.	
35	1798.	1830.	1914.	1987.	2025.	1200.2
40	1600.	1640.	1745.	1830.	1882.	
45	1488.	1538.	1665.	1782.	1836.	1286.8
50	1303.	1360.	1498.	1634.	1675.	
55	1082.	1146.	1291.	1435.	1469.	1154.5
60	881.	953.	1107.	1242.	1279.	
65	718.	806.	986.	1116.	1170.	955.9
70	526.	636.	833.	955.	1011.	
75	337.	468.	666.	785.	833.	662.3
80	179.	339.	543.	672.	710.	
85	59.	236.	442.	576.	606.	432.5
90	8.	139.	317.	433.	462.	
95	0.	89.	252.	352.	376.	240.1
100	0.	52.	182.	267.	295.	
105	0.	25.	133.	206.	229.	126.7
110	0.	0.	96.	160.	180.	
115	0.	0.	55.	116.	138.	59.7
120	0.	0.	20.	79.	99.	
125	0.	0.	0.	38.	56.	14.8
130	0.	0.	0.	12.	17.	
135	0.	0.	0.	0.	4.	.4
140	0.	0.	0.	0.	0.	.0
145	0.	0.	0.	0.	0.	.0
150	0.	0.	0.	0.	0.	.0
155	0.	0.	0.	0.	0.	.0
160	0.	0.	0.	0.	0.	.0
165	0.	0.	0.	0.	0.	.0
170	0.	0.	0.	0.	0.	.0
175	0.	0.	0.	0.	0.	.0
180	0.	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	1927.	NA.	23.9	90-120	427.	NA.	5.3
0- 40	3127.	NA.	38.8	90-130	441.	NA.	5.5
0- 60	5569.	NA.	69.1	90-150	442.	NA.	5.5
0- 90	7619.	NA.	94.5	90-180	442.	NA.	5.5
TOTAL LUMINAIRE = 0-180					8061.	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	14445.	11151.	12290.
55	12951.	9409.	10702.
65	11655.	8150.	9670.
75	8941.	6590.	8243.
85	4661.	5663.	7763.

\*\*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	1.03	.99	.95	.91	.93	.90	.87	.89	.86	.83	.84	.82	.80	.77	
2	.97	.88	.81	.75	.94	.86	.80	.74	.82	.76	.71	.77	.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	.53	.78	.67	.59	.53	.64	.57	.51	.61	.55	.50	.58	.53	.49	.47	
5	.74	.61	.52	.45	.71	.59	.51	.45	.57	.49	.44	.54	.48	.43	.52	.46	.42	.39	
6	.68	.55	.45	.39	.66	.53	.45	.39	.51	.43	.38	.49	.42	.37	.47	.41	.36	.34	
7	.63	.49	.40	.34	.61	.48	.39	.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	.27	.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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LUMINOUS EFFICACY (LUMENS / WATTS) = 115.6

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

