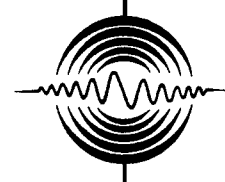


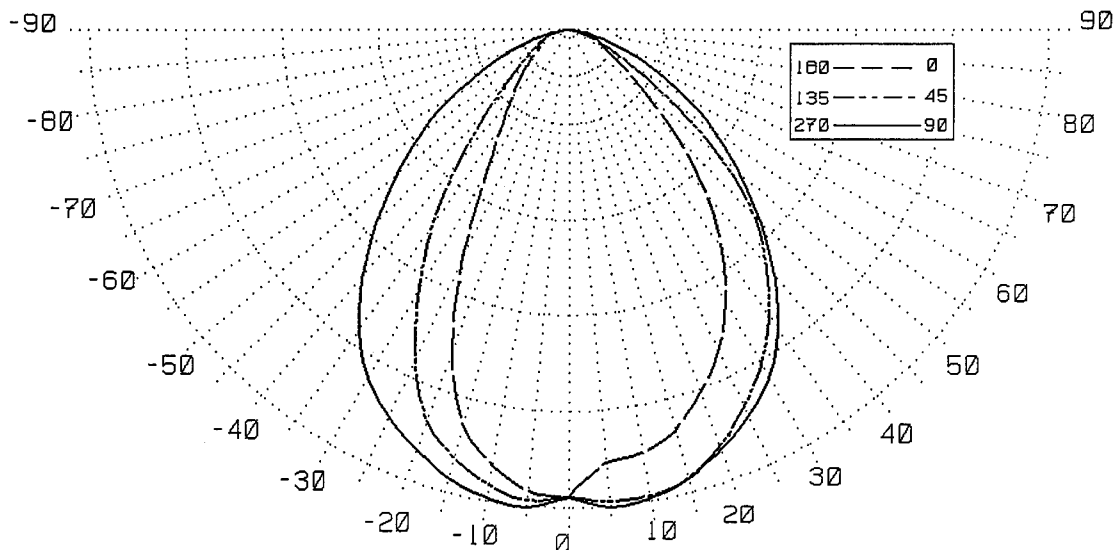
BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 20128.0 DATE 11/29/17
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 2-56LED 22" & 1-28LED 11"ARRAYS 4'PERIMETER CONTINUOUS PX
WHITE REFL w/1"EXTENSION & FROSTED ACRYLIC LENS
ADVANCE #XI040C110V054BST1 @ 1000mA
CATALOG NBR: PXF-42-03'09-L10/840-W-LCAP/RCAP-DIM-UNV
LAMP TYPE : HLM2256_5630 RevA #10560228 & HLM1128_5630 RevA #10560268

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



[Handwritten signature]

NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1718.	NA.	41.0	90-120	0.	NA.	.0
0- 40	2624.	NA.	62.5	90-130	0.	NA.	.0
0- 60	3816.	NA.	91.0	90-150	0.	NA.	.0
0- 90	4195.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	4195.	NA.	100.0

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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CANDLEPOWER DISTRIBUTION
 0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER

VERT	HORIZONTAL									LUMENS		
	.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FRONT	BACK	TOTAL
0	2285.	2285.	2285.	2285.	2285.	2285.	2285.	2285.	2285.			
5	2124.	2310.	2312.	2310.	2341.	2343.	2308.	2278.	2263.	110.2	110.3	220.5
10	2098.	2300.	2309.	2311.	2321.	2319.	2258.	2201.	2160.			
15	2026.	2249.	2267.	2271.	2271.	2256.	2167.	2077.	2004.	320.3	307.1	627.4
20	1892.	2150.	2168.	2201.	2184.	2154.	2036.	1800.	1670.			
25	1741.	1980.	2039.	2085.	2090.	2026.	1784.	1430.	1227.	470.5	399.9	870.3
30	1544.	1789.	1892.	1958.	1971.	1870.	1465.	1048.	800.			
35	1316.	1576.	1715.	1786.	1790.	1695.	1166.	709.	564.	528.0	377.5	905.5
40	1055.	1256.	1507.	1588.	1570.	1475.	828.	502.	430.			
45	762.	888.	1287.	1355.	1328.	1154.	548.	377.	332.	434.4	296.3	730.6
50	512.	567.	976.	1115.	1092.	858.	379.	277.	248.			
55	339.	372.	617.	895.	874.	602.	268.	191.	181.	284.2	177.9	462.1
60	225.	245.	359.	697.	670.	389.	181.	164.	171.			
65	169.	184.	224.	489.	461.	242.	134.	153.	156.	167.0	98.0	265.0
70	120.	142.	148.	280.	309.	136.	118.	129.	124.			
75	66.	90.	96.	126.	177.	72.	84.	88.	82.	57.2	42.4	99.6
80	31.	43.	50.	64.	82.	47.	45.	48.	42.			
85	5.	9.	11.	16.	22.	11.	11.	14.	10.	6.9	6.9	13.7
90	0.	0.	1.	2.	3.	3.	2.	0.	0.			

USE .323 FT. AS LENGTH AND 3.771 FT. AS WIDTH

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 LAMP TYPE : HLM2256_5630 RevA #10560228 & HLM1128_5630 RevA #10560268

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	1.12	1.08	1.05	1.02	1.09	1.06	1.03	1.01	1.02	1.00	.97	.98	.96	.95	.95	.93	.92	.90
2	1.04	.98	.93	.88	1.02	.96	.91	.87	.93	.89	.85	.90	.87	.84	.87	.84	.82	.80
3	.97	.89	.83	.78	.95	.88	.82	.77	.85	.80	.76	.82	.78	.74	.80	.76	.73	.71
4	.90	.81	.74	.68	.88	.80	.73	.68	.77	.72	.67	.75	.70	.66	.73	.69	.65	.64
5	.84	.73	.66	.60	.82	.72	.65	.60	.70	.64	.59	.68	.63	.59	.67	.62	.58	.56
6	.78	.67	.59	.54	.76	.66	.59	.53	.64	.58	.53	.63	.57	.53	.61	.56	.52	.50
7	.73	.61	.53	.48	.71	.60	.53	.48	.59	.52	.47	.57	.51	.47	.56	.51	.47	.45
8	.67	.55	.48	.42	.66	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9	.62	.50	.43	.38	.61	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35
10	.58	.46	.38	.34	.57	.45	.38	.34	.44	.38	.33	.43	.37	.33	.42	.37	.33	.32

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 119.99V .3969A 47.4510W

LUMINOUS EFFICACY (LUMENS / WATTS) = 88.4

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

