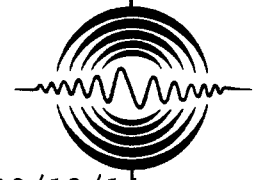


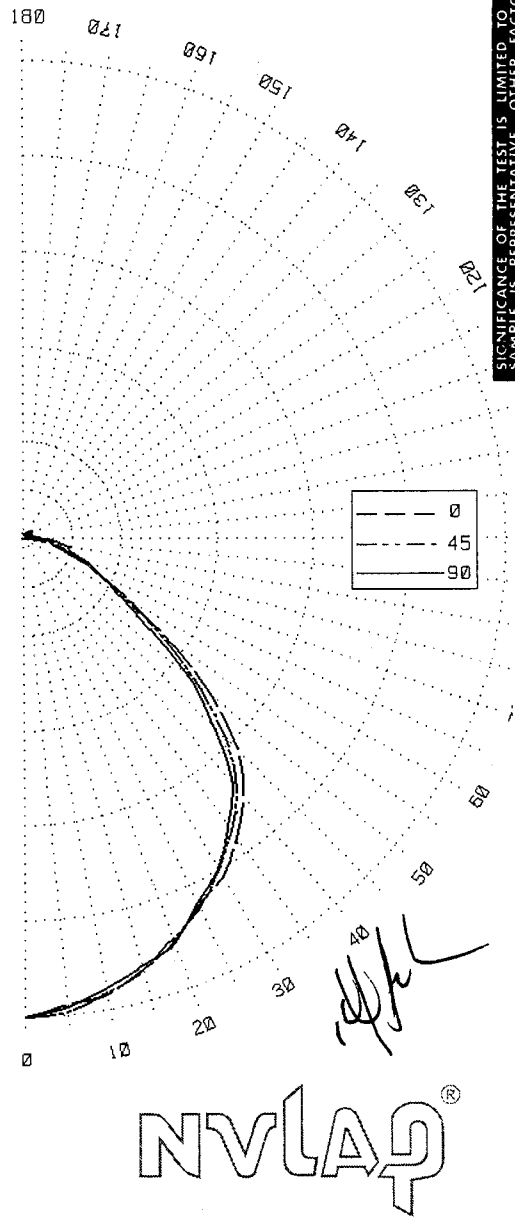
BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 18321.0 DATE 08/13/14
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 4-72 LED 22"ARRAYS 2x4' SUSPENDED LUMINAIRE
WHITE REFLECTOR w/WRAP AROUND SQUARE PATTERN 12 LENS
EVERLINE LED DRIVER #D23CC90UNVT-F
CATALOG NBR: 18-4-LED*UT90/840-S-A-ED*UT-UNV
LAMP TYPE : M700C840D72N2S RATED LUMENS NA. NBR. LAMPS:- 1

CANDLEPOWER DISTRIBUTION						
VERT	HORIZONTAL ANGLE					ZONAL
ANG	0	22.5	45	67.5	90	LUMENS
0	3818.	3818.	3818.	3818.	3818.	
5	3734.	3751.	3791.	3774.	3755.	359.4
10	3696.	3692.	3677.	3668.	3641.	
15	3559.	3561.	3574.	3553.	3536.	1008.8
20	3429.	3437.	3401.	3435.	3441.	
25	3233.	3248.	3260.	3214.	3210.	1497.7
30	3123.	3060.	3056.	3058.	3048.	
35	2919.	2846.	2843.	2814.	2797.	1784.2
40	2690.	2612.	2608.	2563.	2553.	
45	2382.	2313.	2250.	2153.	2126.	1736.7
50	1928.	1888.	1776.	1762.	1701.	
55	1416.	1414.	1320.	1252.	1181.	1185.3
60	956.	951.	899.	857.	846.	
65	657.	646.	634.	634.	669.	639.3
70	444.	436.	457.	480.	520.	
75	311.	295.	333.	354.	373.	349.8
80	202.	213.	253.	301.	358.	
85	95.	126.	166.	255.	257.	197.2
90	4.	25.	82.	145.	177.	
95	0.	19.	82.	112.	112.	73.2
100	0.	25.	72.	76.	88.	
105	2.	27.	51.	67.	72.	48.1
110	11.	32.	53.	65.	72.	
115	13.	32.	53.	65.	67.	47.0
120	13.	34.	57.	72.	74.	
125	17.	36.	57.	67.	74.	46.0
130	25.	42.	65.	80.	80.	
135	25.	40.	65.	76.	82.	45.4
140	25.	40.	59.	76.	80.	
145	27.	40.	57.	67.	74.	33.7
150	34.	40.	51.	59.	59.	
155	34.	40.	51.	53.	51.	21.4
160	34.	36.	42.	44.	42.	
165	36.	36.	40.	42.	42.	11.1
170	36.	36.	36.	36.	36.	
175	34.	40.	40.	36.	36.	3.6
180	38.	38.	38.	38.	38.	



NVLAP[®]

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2866.	NA.	31.5	90-120	168.	NA.	1.9
0- 40	4650.	NA.	51.2	90-130	214.	NA.	2.4
0- 60	7572.	NA.	83.3	90-150	294.	NA.	3.2
0- 90	8758.	NA.	96.4	90-180	330.	NA.	3.6
TOTAL LUMINAIRE = 0-180					9088.	NA.	100.0
IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.2 CROSS= 1.2							

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

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VERT ANGLE	LUMINANCES-CD/SQ-M HORIZONTAL ANGLE		
	0	45	90
45	6544.	5587.	5278.
55	4796.	3880.	3472.
65	3018.	2372.	2506.
75	2337.	1788.	2003.
85	2110.	1675.	2586.

MAXIMUM BRIGHTNESSES NOT MEASURED

ELECTRICAL CHARACTERISTICS 120.0V .6801A 81.388W

LUMINOUS EFFICACY (LUMENS / WATTS) = 111.7

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

