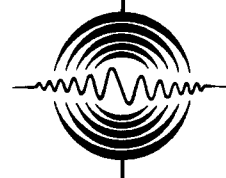


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

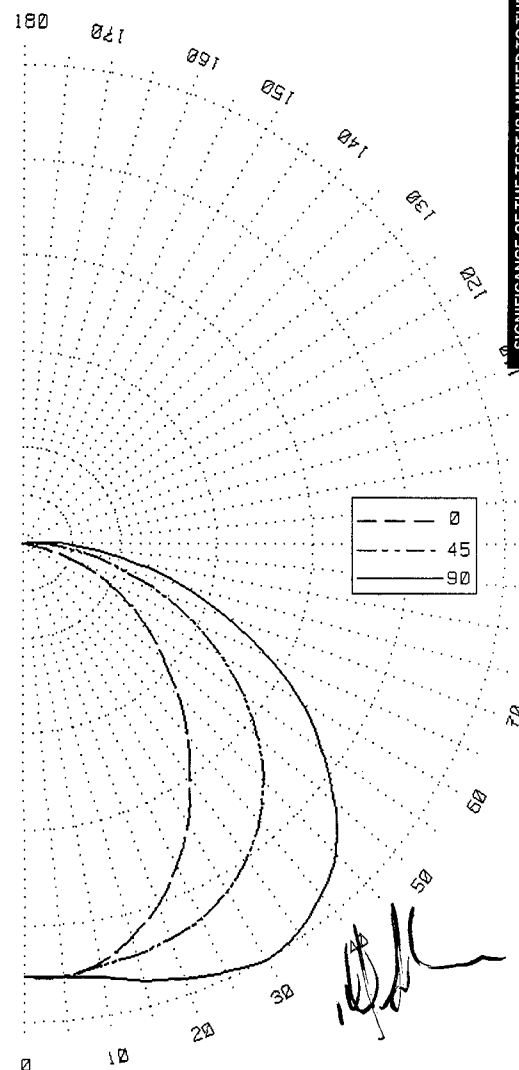
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 20806.0 DATE 05/04/19
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 4-56 LED 22"ARRAYS 1x4'SURFACE MNT LUMINAIRE w/WHITE REFL
.083"TEXTURE ACRYLIC INNER LENS & RIBBED ACRYLIC OUTER LENS
EVERLINE #D21CC80UNVPW-C @ 1900mA
CATALOG NBR: AVX-4-L100/840-CPC-DIM-UNV
LAMP TYPE : HLM2256_5630 REV B #10560223

CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	2960.	2960.	2960.	2960.	2960.	
5	2986.	2937.	2943.	2954.	2957.	281.7
10	2911.	2880.	2925.	2986.	3009.	
15	2786.	2778.	2905.	3036.	3090.	826.1
20	2631.	2654.	2869.	3088.	3160.	
25	2437.	2504.	2828.	3112.	3223.	1304.5
30	2220.	2323.	2746.	3135.	3276.	
35	1979.	2123.	2627.	3098.	3240.	1642.1
40	1740.	1894.	2486.	2996.	3132.	
45	1494.	1649.	2312.	2848.	2993.	1752.8
50	1251.	1415.	2084.	2659.	2770.	
55	1036.	1175.	1829.	2369.	2485.	1599.9
60	831.	941.	1552.	2087.	2186.	
65	629.	735.	1278.	1768.	1830.	1243.3
70	411.	525.	989.	1409.	1466.	
75	213.	335.	699.	1061.	1132.	732.1
80	82.	176.	466.	729.	788.	
85	15.	67.	272.	463.	508.	290.1
90	0.	15.	134.	272.	289.	
95	0.	1.	47.	122.	141.	65.7
100	0.	0.	7.	37.	47.	
105	0.	0.	0.	6.	8.	2.7
110	0.	0.	0.	0.	5.	
115	0.	0.	0.	0.	0.	.0
120	0.	0.	0.	0.	0.	
125	0.	0.	0.	0.	0.	.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[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2412.	NA.	24.8	90-120	68.	NA.	.7
0- 40	4054.	NA.	41.6	90-130	68.	NA.	.7
0- 60	7407.	NA.	76.0	90-150	68.	NA.	.7
0- 90	9673.	NA.	99.3	90-180	68.	NA.	.7

TOTAL LUMINAIRE = 0-180 9741. NA. 100.0

IES SPACING CRITERIA: END= 1.1 DIAGONAL = 1.4 CROSS= 1.6

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	9906.	13843.	17924.
55	8471.	12965.	17611.
65	6982.	11525.	16509.
75	3857.	9047.	14650.
85	827.	6579.	12271.

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	1.19	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	1.01	1.01	1.01	.99				
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.87	.86	.83				
2	.99	.91	.84	.79	.96	.89	.83	.78	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70				
3	.91	.80	.72	.66	.88	.79	.71	.65	.76	.69	.64	.73	.67	.63	.70	.66	.62	.59				
4	.83	.71	.62	.56	.81	.70	.62	.55	.67	.60	.54	.65	.59	.54	.62	.57	.53	.51				
5	.76	.63	.54	.47	.73	.61	.53	.47	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43				
6	.69	.56	.47	.40	.67	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37				
7	.64	.50	.41	.35	.62	.49	.41	.35	.47	.40	.34	.46	.39	.34	.44	.38	.34	.32				
8	.59	.45	.36	.30	.57	.44	.36	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.27				
9	.54	.40	.31	.26	.52	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.23				
10	.50	.36	.28	.23	.49	.36	.28	.22	.35	.27	.22	.33	.27	.22	.32	.26	.22	.20				

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : HLM2256_5630 REV B #10560223

ELECTRICAL CHARACTERISTICS 120.03V .7276A 87.1500W

LUMINOUS EFFICACY (LUMENS / WATTS) = 111.8

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

