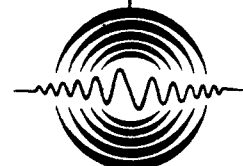


Building Acoustics & Lighting Laboratories, Inc.

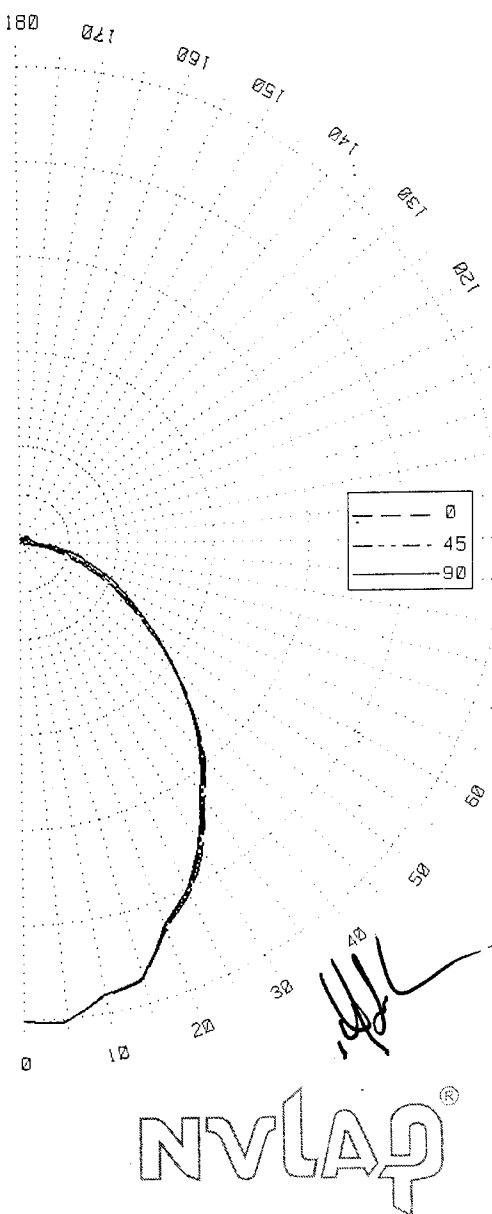
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19283.0 DATE 03/23/16
PREPARED FOR: H.E. WILLIAMS INC - CARTHAGE, MO
DESCRIPTION: 4-72LED 22"ARRAYS 17X48"SURFACE MOUNT WRAP LUMINAIRE
WHITE REFL & CLEAR PRISMATIC DROP LENS w/RIBBED SIDES
EVERLINE LED DRIVER #D21CC80UNVTZ-D SET @ 85
CATALOG NBR: 18-4-L90/835-AF-DRV-UNV
LAMP TYPE : M700C835D72N2A

CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	3873.	3873.	3873.	3873.	3873.	
5	3819.	3817.	3815.	3813.	3813.	364.2
10	3718.	3718.	3716.	3709.	3714.	
15	3666.	3664.	3655.	3653.	3649.	1036.8
20	3340.	3333.	3320.	3305.	3303.	
25	3152.	3141.	3126.	3107.	3104.	1446.7
30	2888.	2878.	2856.	2830.	2819.	
35	2556.	2545.	2525.	2500.	2493.	1585.3
40	2288.	2279.	2255.	2229.	2227.	
45	1953.	1951.	1934.	1923.	1921.	1499.3
50	1620.	1616.	1616.	1622.	1625.	
55	1298.	1301.	1311.	1331.	1339.	1180.1
60	1013.	1022.	1041.	1074.	1087.	
65	784.	793.	827.	871.	892.	826.1
70	568.	588.	635.	689.	715.	
75	382.	406.	458.	516.	540.	487.1
80	248.	279.	333.	400.	428.	
85	112.	143.	199.	270.	289.	221.6
90	4.	35.	82.	125.	145.	
95	0.	22.	67.	110.	121.	70.7
100	2.	26.	71.	104.	112.	
105	2.	24.	65.	93.	99.	61.4
110	6.	26.	63.	86.	95.	
115	6.	26.	60.	82.	84.	53.1
120	13.	32.	60.	80.	86.	
125	22.	35.	63.	76.	84.	50.6
130	17.	35.	56.	71.	80.	
135	24.	37.	56.	73.	76.	41.8
140	30.	43.	63.	76.	76.	
145	35.	45.	56.	73.	73.	36.0
150	32.	41.	52.	60.	63.	
155	35.	45.	52.	60.	56.	23.5
160	37.	41.	50.	52.	52.	
165	37.	41.	48.	48.	48.	12.6
170	37.	41.	41.	45.	41.	
175	41.	41.	43.	41.	41.	4.0
180	39.	39.	39.	39.	39.	



NVLAP®

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2848.	NA.	31.6	90-120	185.	NA.	2.1
0- 40	4433.	NA.	49.3	90-130	236.	NA.	2.6
0- 60	7112.	NA.	79.0	90-150	314.	NA.	3.5
0- 90	8647.	NA.	96.1	90-180	354.	NA.	3.9

TOTAL LUMINAIRE = 0-180 9001. NA. 100.0

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

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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 LAMP TYPE : M700C835D72N2A

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	5364.	4801.	4769.
55	4396.	3856.	3939.
65	3604.	3098.	3340.
75	2869.	2462.	2903.
85	2503.	2002.	2916.

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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.98	.96				
1	1.09	1.05	1.01	.97	1.06	1.02	.99	.95	.97	.94	.92	.93	.90	.88	.88	.87	.85	.83					
2	1.00	.93	.87	.82	.97	.91	.85	.80	.87	.82	.78	.83	.79	.76	.79	.76	.73	.71					
3	.93	.83	.76	.70	.90	.81	.75	.69	.78	.72	.67	.75	.70	.66	.72	.68	.64	.62					
4	.85	.75	.67	.60	.83	.73	.66	.60	.70	.64	.59	.67	.62	.57	.65	.60	.56	.54					
5	.78	.67	.58	.52	.76	.65	.57	.52	.63	.56	.51	.60	.55	.50	.58	.53	.49	.47					
6	.73	.60	.52	.46	.71	.59	.51	.45	.57	.50	.45	.55	.49	.44	.53	.48	.43	.41					
7	.67	.54	.46	.40	.65	.53	.46	.40	.52	.45	.40	.50	.44	.39	.48	.43	.38	.37					
8	.62	.49	.41	.35	.60	.48	.41	.35	.47	.40	.35	.45	.39	.34	.44	.38	.34	.32					
9	.57	.44	.36	.31	.56	.44	.36	.31	.42	.35	.30	.41	.35	.30	.39	.34	.30	.28					
10	.53	.40	.33	.28	.52	.40	.32	.27	.38	.32	.27	.37	.31	.27	.36	.31	.26	.25					

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : M700C835D72N2A

ELECTRICAL CHARACTERISTICS 120.0V .60494A 72.510W

LUMINOUS EFFICACY (LUMENS / WATTS) = 124.1

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

