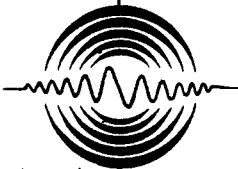


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

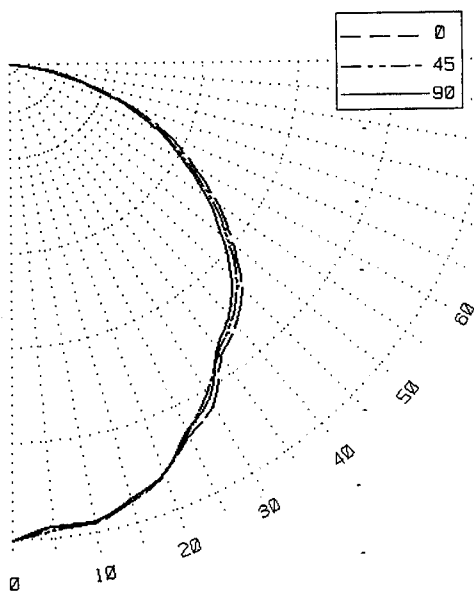
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19236.0
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 4-72LED 22"ARRAYS 8'STRIP SURFACE MNT LUMINAIRE RETROFIT
WHITE FLAT REFLECTOR w/OPEN BOTTOM
EVERLINE DRIVER #D21CC80UNVTZ-D @ 2100mA
CATALOG NBR: SRK-8-L113/835-DRV-UNV
LAMP TYPE : M700C835D72N2A

DATE 02/22/16

CANDLEPOWER DISTRIBUTION						
VERT		HORIZONTAL ANGLE				ZONAL LUMENS
ANG		0	45	67.5	90	
0	4083.	4083.	4083.	4083.	4083.	
5	3977.	3994.	4009.	4007.	3979.	381.5
10	3996.	3990.	3990.	3985.	3983.	
15	3893.	3886.	3882.	3873.	3867.	1099.9
20	3770.	3761.	3765.	3753.	3759.	
25	3550.	3541.	3526.	3515.	3502.	1632.6
30	3423.	3026.	3302.	3362.	3354.	
35	3101.	3086.	3060.	3030.	3030.	1922.6
40	2961.	2939.	2905.	2862.	2862.	
45	2765.	2741.	2707.	2659.	2640.	2092.8
50	2459.	2437.	2407.	2368.	2338.	
55	2150.	2137.	2094.	2064.	2027.	1880.4
60	1799.	1786.	1732.	1708.	1691.	
65	1486.	1467.	1421.	1387.	1391.	1417.7
70	1109.	1089.	1050.	1022.	1031.	
75	712.	694.	686.	653.	651.	718.1
80	382.	390.	397.	371.	352.	
85	106.	134.	136.	142.	132.	144.7
90	13.	15.	17.	17.	17.	



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

[Handwritten signature]



NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	3114.	NA.	27.6	90-120	0.	NA.	.0
0- 40	5037.	NA.	44.6	90-130	0.	NA.	.0
0- 60	9010.	NA.	79.8	90-150	0.	NA.	.0
0- 90	11290.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180					11290.	NA.	100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.2 CROSS= 1.2
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.

BALLABS CERTIFIED TEST REPORT NO.: 19236.0 DATE 02/22/16
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
 DESCRIPTION: 4-72LED 22"ARRAYS 8'STRIP SURFACE MNT LUMINAIRE RETROFIT
 WHITE FLAT REFLECTOR w/OPEN BOTTOM
 EVERLINE DRIVER #D21CC80UNVTZ-D @ 2100mA
 CATALOG NBR: SRK-8-L113/835-DRV-UNV
 LAMP TYPE : M700C835D72N2A

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	11792.	11544.	11259.
55	11306.	11011.	10659.
65	10604.	10142.	9927.
75	8293.	7991.	7589.
85	3657.	4702.	4552.

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	1.02	1.02	1.02	1.00			
1	1.10	1.05	1.02	.98	1.07	1.03	1.00	.96	.99	.96	.93	.95	.93	.91	.92	.90	.88	.86			
2	1.01	.93	.87	.81	.98	.91	.85	.80	.88	.83	.78	.84	.80	.77	.81	.78	.75	.73			
3	.92	.82	.75	.69	.90	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.65	.62			
4	.85	.73	.65	.58	.82	.72	.64	.58	.69	.63	.57	.67	.61	.56	.65	.60	.56	.54			
5	.77	.65	.56	.49	.75	.63	.55	.49	.61	.54	.48	.59	.53	.48	.58	.52	.47	.45			
6	.71	.58	.49	.43	.69	.57	.48	.42	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39			
7	.65	.52	.43	.37	.64	.51	.43	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.34			
8	.60	.46	.38	.32	.58	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29			
9	.55	.42	.33	.28	.54	.41	.33	.28	.40	.32	.27	.39	.32	.27	.38	.31	.27	.25			
10	.51	.38	.30	.24	.50	.37	.29	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 19236.0 DATE 02/22/16
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 4-72LED 22"ARRAYS 8'STRIP SURFACE MNT LUMINAIRE RETROFIT
WHITE FLAT REFLECTOR w/OPEN BOTTOM
EVERLINE DRIVER #D21CC80UNVTZ-D @ 2100mA
CATALOG NBR: SRK-8-L113/835-DRV-UNV
LAMP TYPE : M700C835D72N2A

ELECTRICAL CHARACTERISTICS 120.0V .7068A 84.68W

LUMINOUS EFFICACY (LUMENS / WATTS) = 133.3

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

