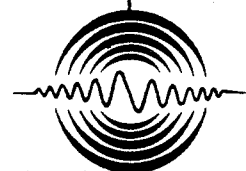


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

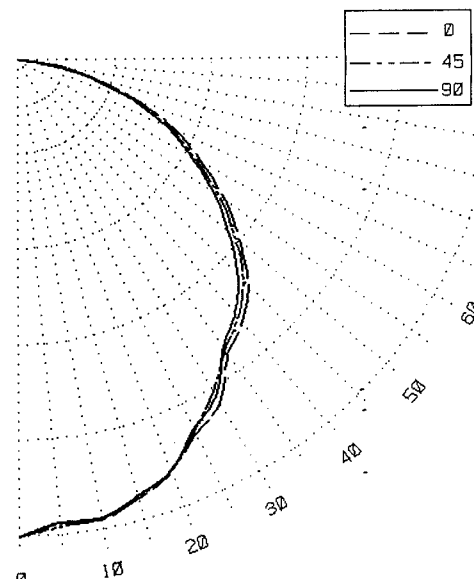
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19276.0
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-L113/840-DRV-UNV
LAMP TYPE : M700C840D72N2A

DATE 03/10/16

CANDLEPOWER DISTRIBUTION						
VERT	HORIZONTAL ANGLE					ZONAL
ANG	0	22.5	45	67.5	90	LUMENS
0	4086.	4086.	4086.	4086.	4086.	
5	3980.	3998.	4013.	4011.	3983.	381.9
10	4000.	3993.	3993.	3989.	3987.	
15	3896.	3890.	3885.	3877.	3870.	1100.9
20	3773.	3765.	3769.	3756.	3762.	
25	3553.	3544.	3529.	3518.	3505.	1634.1
30	3426.	3028.	3305.	3365.	3357.	
35	3104.	3089.	3063.	3033.	3033.	1924.3
40	2964.	2942.	2908.	2864.	2864.	
45	2767.	2744.	2709.	2661.	2642.	2094.6
50	2461.	2439.	2409.	2370.	2340.	
55	2152.	2139.	2096.	2066.	2029.	1882.1
60	1800.	1787.	1733.	1710.	1692.	
65	1487.	1468.	1422.	1388.	1392.	1418.9
70	1109.	1090.	1051.	1023.	1032.	
75	712.	695.	686.	654.	652.	718.7
80	382.	391.	397.	371.	352.	
85	106.	134.	136.	142.	132.	144.8
90	13.	15.	17.	17.	17.	



NVLAP[®]

NVLAP LAB CODE 200921-0

LUMEN SUMMARY						
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP
0- 30	3117.	NA.	27.6	90-120	0.	NA.
0- 40	5041.	NA.	44.6	90-130	0.	NA.
0- 60	9018.	NA.	79.8	90-150	0.	NA.
0- 90	11300.	NA.	100.0	90-180	0.	NA.
TOTAL LUMINAIRE =				0-180	11300.	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.

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

BALLABS CERTIFIED TEST REPORT NO.: 19276.0 DATE 03/10/16
 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-L113/840-DRV-UNV
 LAMP TYPE : M700C840D72N2A

VERT ANGLE	LUMINANCES-CD/SQ-M HORIZONTAL ANGLE		
	0	45	90
45	11803.	11554.	11269.
55	11316.	11021.	10669.
65	10613.	10151.	9936.
75	8300.	7999.	7596.
85	3660.	4706.	4556.

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.: 19276.0 DATE 03/10/16
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-L113/840-DRV-UNV
LAMP TYPE : M700C840D72N2A

ELECTRICAL CHARACTERISTICS 120.0V .7079A 84.82W

LUMINOUS EFFICACY (LUMENS / WATTS) = 133.2

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

