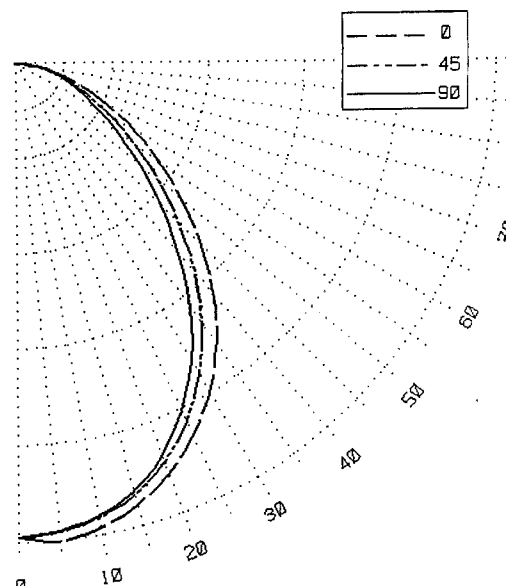


BALLABS CERTIFIED TEST REPORT NO.: 20301.0 DATE 03/19/18  
PREPARED FOR: H.E. WILLIAMS, INC. - CARTHAGE, MO  
DESCRIPTION: 2-84 LED 22"ARRAYS 1x4'RECESSED LUMINAIRE  
WHITE REFLECTOR w/FROSTED PAT12 ACRYLIC LENS  
ADVANCE #XI095C275V054BSS1 @ 1850mA  
CATALOG NBR: MDSG-14-L100-840-SYM  
LAMP TYPE : HLM 2284\_5630 REV A 10560243

## CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	4835.	4835.	4835.	4835.	4835.	
5	4885.	4809.	4788.	4776.	4780.	458.3
10	4805.	4725.	4703.	4687.	4685.	
15	4664.	4588.	4555.	4528.	4519.	1294.2
20	4474.	4389.	4342.	4292.	4277.	
25	4215.	4129.	4060.	3983.	3935.	1880.1
30	3905.	3808.	3696.	3574.	3539.	
35	3533.	3438.	3268.	3124.	3068.	2062.0
40	3109.	2991.	2816.	2626.	2561.	
45	2655.	2543.	2335.	2139.	2074.	1816.3
50	2202.	2096.	1891.	1708.	1644.	
55	1763.	1667.	1475.	1328.	1265.	1342.2
60	1380.	1288.	1140.	1014.	968.	
65	1027.	953.	836.	764.	745.	853.6
70	735.	689.	609.	580.	568.	
75	497.	478.	429.	420.	423.	472.8
80	304.	291.	273.	274.	277.	
85	116.	116.	104.	119.	114.	124.1
90	0.	0.	0.	0.	0.	



**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	3633.	NA.	35.3	90-120	0.	NA.	.0
0- 40	5695.	NA.	55.3	90-130	0.	NA.	.0
0- 60	8853.	NA.	85.9	90-150	0.	NA.	.0
0- 90	10304.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	10304.	NA.	100.0

IES SPACING CRITERIA: END= 1.2 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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LUMINANCES-CD/SQ-M  
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	15823.	13914.	12360.
55	12948.	10836.	9294.
65	10244.	8333.	7426.
75	8097.	6991.	6892.
85	5630.	5043.	5512.

\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

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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	1.11	1.07	1.03	1.00	1.08	1.05	1.01	.98	1.00	.98	.95	.97	.94	.92	.93	.91	.90	.88
2	1.02	.96	.90	.85	1.00	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.79	.77
3	.95	.86	.79	.73	.93	.84	.78	.73	.82	.76	.71	.79	.74	.70	.77	.73	.69	.67
4	.88	.77	.70	.64	.86	.76	.69	.63	.74	.67	.63	.71	.66	.62	.69	.65	.61	.59
5	.81	.69	.61	.55	.79	.68	.61	.55	.66	.60	.55	.64	.59	.54	.63	.58	.53	.51
6	.75	.63	.55	.49	.73	.62	.54	.49	.60	.53	.48	.59	.53	.48	.57	.52	.48	.46
7	.69	.57	.49	.43	.68	.56	.49	.43	.55	.48	.43	.53	.47	.43	.52	.46	.42	.40
8	.64	.51	.44	.38	.63	.51	.43	.38	.49	.43	.38	.48	.42	.37	.47	.41	.37	.35
9	.59	.46	.39	.33	.58	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.31
10	.55	.42	.35	.30	.54	.42	.35	.30	.41	.34	.30	.40	.34	.29	.39	.33	.29	.28

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 119.96V .7174A 85.790W

LUMINOUS EFFICACY (LUMENS / WATTS) = 120.1

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

