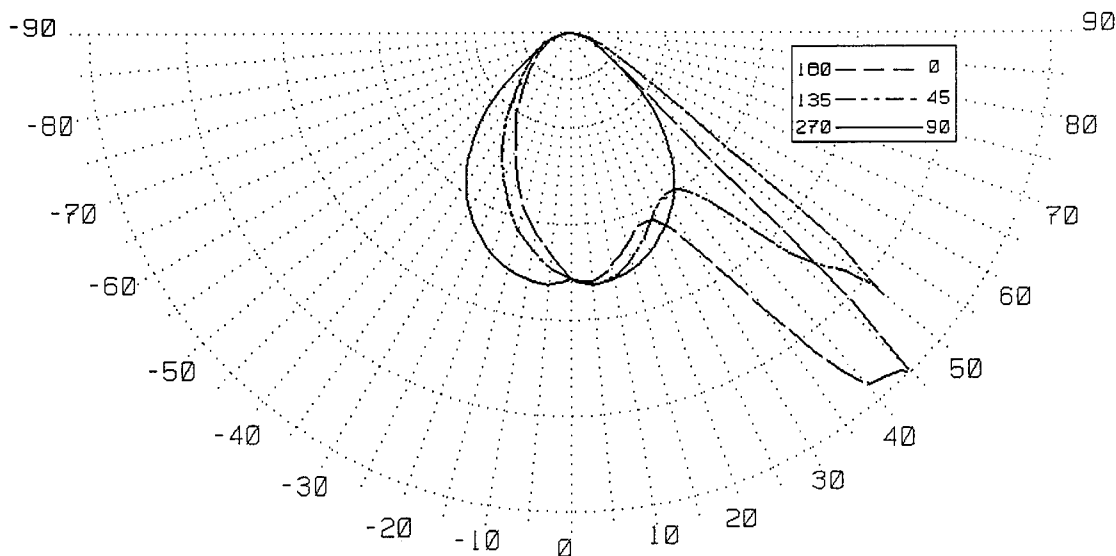


BALLABS CERTIFIED TEST REPORT NO.: 20262.0 DATE 02/14/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: 2-56 LED 22"ARRAY 1x4'RECESSED LUMINAIRE w/WHITE ASYM REFL  
FROSTED ACRYLIC INTERIOR LENS & ASYM ACRYLIC BOTTOM LENS  
ADVANCE #XI095C275V054BSS1 @ 1850mA  
CATALOG NBR: MDSG-14-L100/840-ASY  
LAMP TYPE : HLM 2256\_5630 REV A 10560223

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



*[Handwritten signature]*



NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2531.	NA.	30.1	90-120	0.	NA.	.0
0- 40	4189.	NA.	49.8	90-130	0.	NA.	.0
0- 60	7564.	NA.	89.8	90-150	0.	NA.	.0
0- 90	8419.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	8419.	NA.	100.0

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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CANDLEPOWER DISTRIBUTION  
 0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER

VERT	HORIZONTAL									LUMENS		
	.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FRONT	BACK	TOTAL
0	3613.	3613.	3613.	3613.	3613.	3613.	3613.	3613.	3613.			
5	3654.	3677.	3703.	3728.	3704.	3566.	3455.	3337.	3268.	176.7	164.7	341.4
10	3482.	3535.	3634.	3713.	3665.	3440.	3232.	3042.	2974.			
15	3226.	3304.	3460.	3620.	3578.	3282.	2989.	2752.	2659.	490.6	427.6	918.2
20	3000.	3036.	3191.	3413.	3427.	3057.	2671.	2422.	2274.			
25	3040.	2973.	2929.	3147.	3221.	2819.	2332.	2051.	1884.	708.2	563.5	1271.6
30	3614.	3329.	2759.	2889.	2981.	2537.	1996.	1732.	1607.			
35	4898.	4330.	2805.	2579.	2677.	2194.	1676.	1452.	1338.	1085.2	572.6	1657.8
40	6710.	6096.	3258.	2229.	2296.	1812.	1312.	1176.	1056.			
45	7040.	7512.	4566.	1952.	1868.	1389.	1043.	921.	855.	1832.3	447.1	2279.4
50	1777.	3142.	5990.	1829.	1358.	1068.	858.	712.	707.			
55	947.	1200.	2265.	2306.	891.	812.	701.	566.	574.	786.4	308.9	1095.2
60	622.	768.	1097.	2076.	601.	592.	571.	424.	420.			
65	428.	525.	699.	1032.	451.	433.	432.	330.	336.	386.5	189.4	575.9
70	354.	361.	453.	541.	376.	297.	276.	275.	280.			
75	241.	270.	256.	277.	201.	190.	169.	206.	201.	144.7	104.6	249.3
80	130.	140.	130.	116.	89.	99.	102.	117.	107.			
85	39.	24.	40.	30.	16.	28.	33.	30.	34.	14.7	15.7	30.4
90	0.	0.	0.	0.	0.	0.	0.	0.	0.			

USE .682 FT. AS LENGTH AND 3.682 FT. AS WIDTH

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 LAMP TYPE : HLM 2256\_5630 REV A 10560223

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	1.04	1.01	1.09	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.94	.92	.91	.89				
2	1.03	.96	.91	.86	1.01	.95	.90	.85	.91	.87	.83	.88	.85	.81	.85	.82	.80	.78				
3	.95	.87	.80	.74	.93	.85	.79	.74	.82	.77	.72	.80	.75	.71	.77	.73	.70	.68				
4	.88	.78	.70	.64	.86	.77	.69	.64	.74	.68	.63	.72	.67	.62	.70	.65	.62	.60				
5	.81	.69	.61	.56	.79	.68	.61	.55	.66	.60	.55	.65	.59	.54	.63	.58	.54	.52				
6	.75	.63	.54	.49	.73	.62	.54	.48	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45				
7	.69	.56	.48	.42	.67	.55	.47	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39				
8	.63	.50	.42	.36	.61	.49	.42	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.34				
9	.58	.45	.37	.31	.56	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29				
10	.53	.40	.32	.27	.52	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25				

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 120.06V .7460A 89.310W

LUMINOUS EFFICACY (LUMENS / WATTS) = 94.3

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

