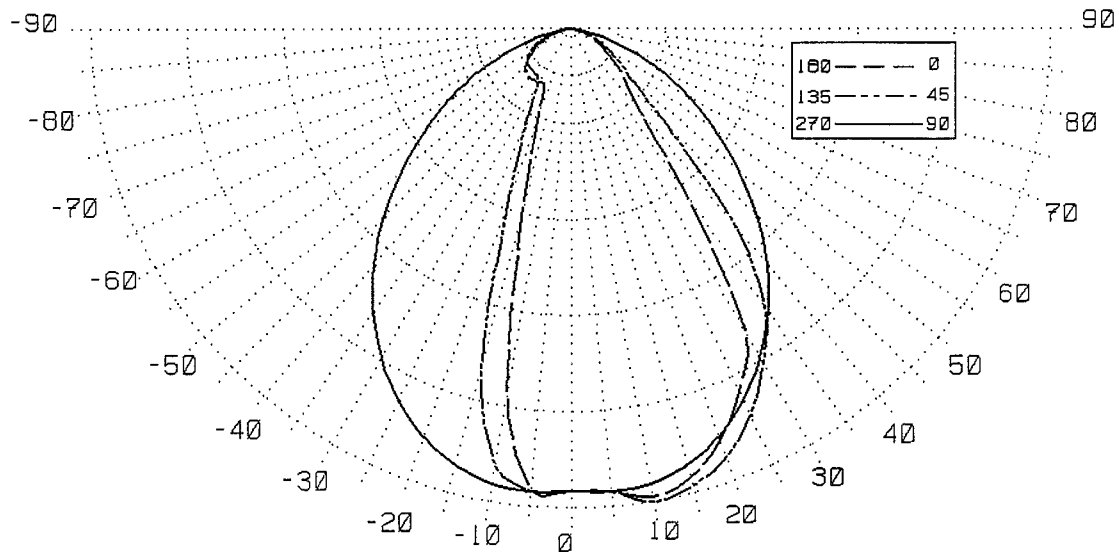


BALLABS CERTIFIED TEST REPORT NO.: 20130.0 DATE 11/22/17  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: 2-56 LED 22"ARRAYS 4'RECESSED PERIMETER CONTINUOUS PX  
WHITE REFLECTOR w/FROSTED ACRYLIC LENS  
ADVANCE #XI054C150V054BST1 @ 800mA  
CATALOG NBR: PXF-44-03'08-L10/835-S-D-LCAP/RCAP-DIM-UNV  
LAMP TYPE : HLM2256\_5630 REV A #10560227

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



*[Handwritten signature]*

**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1500.	NA.	46.1	90-120	0.	NA.	.0
0- 40	2121.	NA.	65.2	90-130	0.	NA.	.0
0- 60	2960.	NA.	91.0	90-150	0.	NA.	.0
0- 90	3254.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	3254.	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.

BALLABS CERTIFIED TEST REPORT NO.: 20130.0 DATE 11/22/17  
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
 DESCRIPTION: 2-56 LED 22"ARRAYS 4'RECESSED PERIMETER CONTINUOUS PX  
 WHITE REFLECTOR w/FROSTED ACRYLIC LENS  
 ADVANCE #XI054C150V054BST1 @ 800mA  
 CATALOG NBR: PXF-44-03'08-L10/835-S-D-LCAP/RCAP-DIM-UNV  
 LAMP TYPE : HLM2256\_5630 REV A #10560227

CANDLEPOWER DISTRIBUTION  
 0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER

VERT	HORIZONTAL									LUMENS		TOTAL
	.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FRONT	BACK	
0	2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.			
5	2214.	2269.	2262.	2246.	2248.	2254.	2225.	2193.	2184.	107.8	106.1	213.9
10	2228.	2281.	2281.	2255.	2233.	2227.	2160.	1979.	1959.			
15	2182.	2242.	2253.	2242.	2190.	2164.	1914.	1470.	1341.	317.7	257.5	575.2
20	1983.	2066.	2165.	2185.	2101.	2027.	1328.	881.	760.			
25	1537.	1613.	2003.	2093.	1989.	1826.	869.	610.	543.	428.8	281.9	710.7
30	849.	1016.	1678.	1970.	1858.	1525.	638.	465.	410.			
35	519.	628.	1194.	1811.	1678.	1160.	498.	357.	352.	383.0	238.2	621.2
40	361.	432.	749.	1618.	1479.	825.	380.	349.	361.			
45	331.	344.	477.	1340.	1288.	578.	317.	356.	354.	326.0	180.9	506.9
50	278.	305.	320.	995.	1082.	417.	314.	341.	320.			
55	234.	245.	281.	636.	871.	310.	294.	291.	276.	197.6	134.9	332.5
60	183.	187.	226.	361.	677.	222.	252.	229.	226.			
65	134.	139.	177.	218.	499.	206.	207.	177.	169.	88.6	95.2	183.8
70	92.	94.	122.	166.	333.	177.	149.	127.	111.			
75	61.	60.	75.	103.	203.	126.	96.	79.	69.	43.0	54.2	97.2
80	28.	28.	36.	51.	100.	65.	50.	39.	30.			
85	5.	2.	3.	15.	20.	17.	14.	12.	5.	4.7	7.9	12.6
90	0.	0.	0.	1.	2.	1.	0.	0.	0.			

USE .333 FT. AS LENGTH AND 3.688 FT. AS WIDTH

BALLABS CERTIFIED TEST REPORT NO.: 20130.0 DATE 11/22/17  
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
 DESCRIPTION: 2-56 LED 22"ARRAYS 4'RECESSED PERIMETER CONTINUOUS PX  
 WHITE REFLECTOR w/FROSTED ACRYLIC LENS  
 ADVANCE #XI054C150V054BST1 @ 800mA  
 CATALOG NBR: PXF-44-03'08-L10/835-S-D-LCAP/RCAP-DIM-UNV  
 LAMP TYPE : HLM2256\_5630 REV A #10560227

# 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	1.12	1.08	1.05	1.02	1.09	1.06	1.03	1.01	1.02	1.00	.98	.98	.97	.95	.95	.93	.92	.90
2	1.05	.98	.93	.89	1.02	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.81
3	.98	.90	.84	.79	.96	.88	.83	.78	.86	.81	.77	.83	.79	.75	.81	.77	.74	.72
4	.91	.82	.75	.70	.89	.81	.74	.69	.78	.73	.68	.76	.71	.68	.74	.70	.67	.65
5	.85	.74	.67	.62	.83	.73	.67	.62	.71	.66	.61	.70	.64	.60	.68	.63	.60	.58
6	.79	.68	.61	.56	.78	.68	.61	.56	.66	.60	.55	.64	.59	.55	.63	.58	.54	.53
7	.74	.63	.55	.50	.73	.62	.55	.50	.61	.54	.50	.59	.54	.49	.58	.53	.49	.47
8	.69	.57	.50	.45	.68	.57	.50	.45	.56	.49	.45	.54	.49	.44	.53	.48	.44	.43
9	.64	.52	.45	.40	.63	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.44	.40	.38
10	.60	.48	.41	.36	.59	.48	.41	.36	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 20130.0 DATE 11/22/17  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: 2-56 LED 22"ARRAYS 4'RECESSED PERIMETER CONTINUOUS PX  
WHITE REFLECTOR w/FROSTED ACRYLIC LENS  
ADVANCE #XI054C150V054BST1 @ 800mA  
CATALOG NBR: PXF-44-03'08-L10/835-S-D-LCAP/RCAP-DIM-UNV  
LAMP TYPE : HLM2256\_5630 REV A #10560227

\*\*\*\*\*

ELECTRICAL CHARACTERISTICS 120.02V .3102A 37.032W

LUMINOUS EFFICACY (LUMENS / WATTS) = 87.9

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

