BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

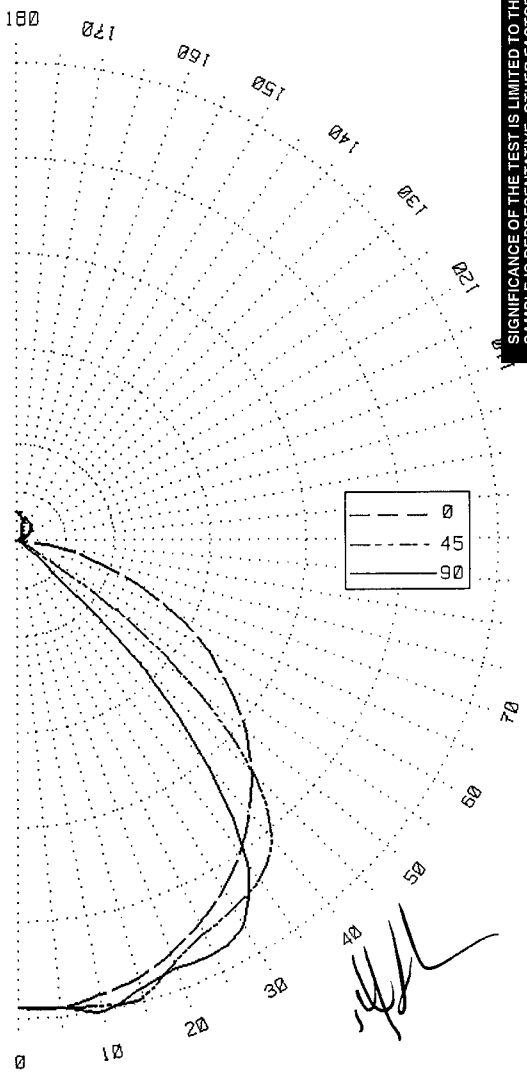
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX

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.: 19556.0 DATE 10/04/16
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 4-192 LED 22"ARRAYS EACH ON ALUM HEATSINK 24x19"HIGHBAY LUMINAIRE w/SPEC MED DL REFL & WHITE UPLIGHT REFLS, CENTER DRIVER HOUSING 4 ADVANCE #XI095C275V054DNF1 w/18K RESISTOR
CATALOG NBR: GP4-L460/850-M-UP-6CPI/5-15P WHITE-DRV-120
LAMP TYPE : D5638D192C2560A8N50JRB

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE 0	22.5	45	67.5	90	ZONAL LUMENS
0	17741.	17741.	17741.	17741.	17741.	
5	17692.	17756.	17805.	17832.	17853.	1698.3
10	17527.	17660.	17941.	18119.	18164.	
15	17235.	17508.	17986.	17718.	17655.	5007.2
20	16739.	17287.	17163.	17154.	17326.	
25	16150.	16871.	16539.	17138.	17395.	7790.0
30	15440.	16041.	16245.	16927.	16975.	
35	14569.	14776.	15828.	15599.	15040.	9581.2
40	13569.	13662.	14884.	12412.	11146.	
45	12468.	12693.	12634.	7851.	6233.	8233.8
50	11227.	11640.	8887.	2770.	1310.	
55	9753.	10355.	4508.	430.	345.	4562.6
60	8238.	8291.	683.	300.	221.	
65	6616.	5436.	271.	169.	171.	2300.2
70	4806.	1649.	152.	164.	174.	
75	3109.	224.	139.	162.	172.	572.6
80	1635.	133.	120.	146.	153.	
85	456.	83.	59.	70.	61.	128.3
90	9.	0.	0.	0.	0.	
95	21.	14.	0.	0.	0.	6.8
100	75.	47.	36.	26.	26.	
105	185.	77.	78.	75.	71.	94.6
110	300.	123.	97.	111.	115.	
115	403.	155.	115.	123.	128.	163.5
120	496.	200.	146.	141.	142.	
125	577.	286.	182.	171.	163.	226.3
130	649.	353.	207.	205.	196.	
135	710.	412.	242.	231.	230.	262.2
140	762.	524.	307.	255.	250.	
145	804.	646.	408.	302.	281.	298.1
150	843.	743.	470.	412.	341.	
155	878.	787.	590.	496.	453.	293.7
160	905.	885.	731.	641.	530.	
165	961.	920.	861.	776.	766.	242.3
170	1024.	955.	946.	862.	869.	
175	1077.	1025.	974.	961.	1044.	96.0
180	1053.	1053.	1053.	1053.	1053.	



NVLAP® TESTING
NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	14496.	NA.	34.9	90-120	265.	NA.	.6
0- 40	24077.	NA.	57.9	90-130	491.	NA.	1.2
0- 60	36873.	NA.	88.7	90-150	1052.	NA.	2.5
0- 90	39874.	NA.	95.9	90-180	1684.	NA.	4.1
		TOTAL LUMINAIRE =		0-180	41558.	NA.	100.0

IES SPACING CRITERIA: END= 1.3 DIAGONAL = 1.4 CROSS= 1.3

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	63442.	64284.	31716.
55	61182.	28277.	2164.
65	56324.	2305.	1455.
75	43216.	1928.	2391.
85	18824.	2427.	2519.

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 RCR	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00
0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1	1.11	1.07	1.04	1.01	1.08	1.05	1.02	.99	1.00	.97	.95	.95	.93	.92	.91	.90	.88	.86
2	1.03	.97	.92	.87	1.01	.95	.90	.86	.91	.87	.84	.87	.84	.81	.84	.81	.79	.77
3	.96	.88	.81	.76	.94	.86	.80	.75	.83	.78	.74	.80	.75	.72	.77	.73	.70	.68
4	.89	.79	.72	.67	.87	.78	.71	.66	.75	.69	.65	.72	.68	.64	.70	.66	.62	.60
5	.82	.71	.64	.58	.80	.70	.63	.58	.68	.62	.57	.65	.60	.56	.63	.59	.55	.53
6	.76	.65	.57	.52	.74	.64	.57	.51	.62	.55	.51	.60	.54	.50	.58	.53	.49	.47
7	.71	.59	.51	.46	.69	.58	.50	.45	.56	.49	.45	.54	.48	.44	.53	.47	.44	.42
8	.65	.53	.45	.40	.63	.52	.45	.40	.50	.44	.39	.49	.43	.39	.47	.42	.38	.36
9	.60	.48	.40	.35	.58	.47	.40	.35	.45	.39	.34	.44	.38	.34	.43	.37	.33	.32
10	.56	.43	.36	.31	.54	.43	.35	.31	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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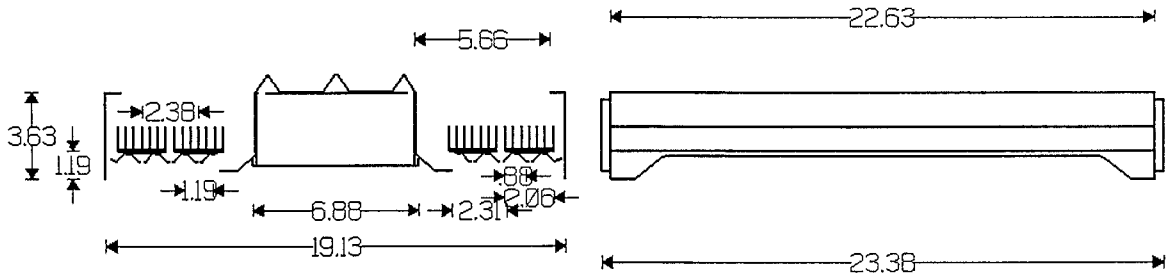
ELECTRICAL CHARACTERISTICS 120.0V 3.1621A 375.550W

LUMINOUS EFFICACY (LUMENS / WATTS) = 110.7

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