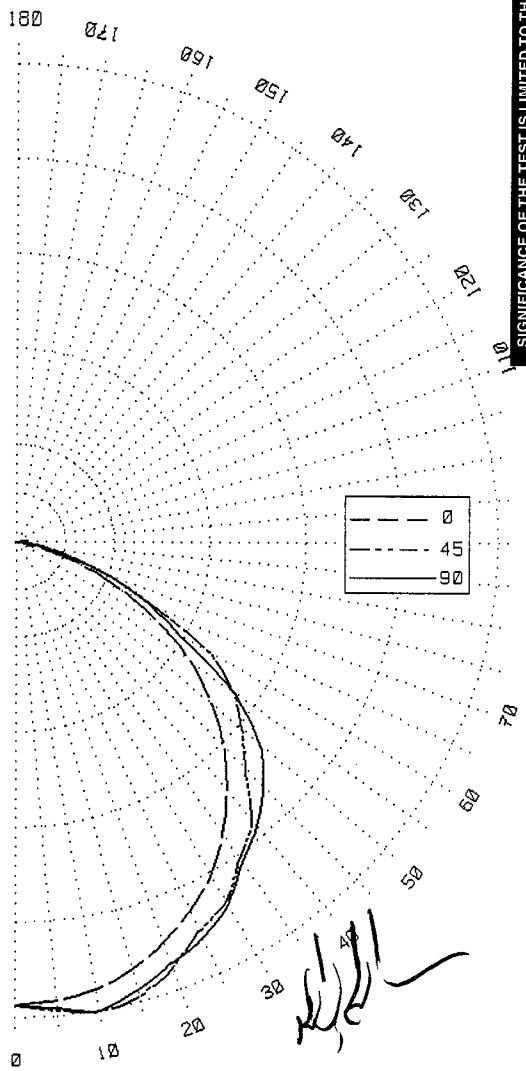
BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.
1618 HEADLAND DR.
FENTON, MO 63026
(636) 343-6006
(636) 343-6051 FAX

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.: 20799.0 DATE 05/03/19
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 4-192 LED 22"ARRAYS EACH ON ALUM HEATSINK 24x19"HIGHBAY LUMINAIRE w/CLEAR ACRYLIC LENSES OVER LEDS & CENTER DRIVER HOUSING 4-ADVANCE #XI095C275V054BSF1 @ 1525mA
CATALOG NBR: GP4-L350/840-W-CL-DIM-UNV
LAMP TYPE : MADE #10560431

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE 0	22.5	45	67.5	90	ZONAL LUMENS
0	11545.	11545.	11545.	11545.	11545.	
5	11477.	11495.	11723.	11668.	11655.	1108.5
10	11323.	11591.	11864.	11877.	11868.	
15	11023.	11350.	11727.	11686.	11555.	3263.6
20	10641.	11273.	11304.	11132.	11195.	
25	10149.	10786.	10700.	10945.	10900.	4970.6
30	9608.	10268.	10368.	10431.	10463.	
35	8876.	9504.	9604.	9895.	9740.	6016.6
40	8080.	8594.	9054.	9249.	9249.	
45	7248.	7871.	7971.	8494.	8626.	6248.6
50	6293.	6812.	7271.	7712.	7844.	
55	5270.	5925.	6525.	6780.	6534.	5637.0
60	4111.	4756.	5466.	4479.	4665.	
65	2978.	3788.	3724.	3570.	3574.	3563.0
70	1919.	2706.	2433.	2619.	2433.	
75	928.	1391.	1419.	1391.	1332.	1410.1
80	296.	559.	632.	696.	709.	
85	50.	155.	214.	205.	218.	192.9
90	5.	91.	146.	150.	146.	
95	0.	18.	168.	255.	268.	156.9
100	0.	0.	32.	123.	150.	
105	0.	0.	0.	23.	41.	11.4
110	0.	0.	0.	0.	23.	
115	0.	0.	0.	0.	0.	.0
120	0.	0.	0.	0.	0.	
125	0.	0.	0.	0.	0.	.0
130	0.	0.	0.	0.	0.	
135	0.	0.	0.	0.	0.	.0
140	0.	0.	0.	0.	0.	
145	0.	0.	0.	0.	0.	.0
150	0.	0.	0.	0.	0.	
155	0.	0.	0.	0.	0.	.0
160	0.	0.	0.	0.	0.	
165	0.	0.	0.	0.	0.	.0
170	0.	0.	0.	0.	0.	
175	0.	0.	0.	0.	0.	.0
180	0.	0.	0.	0.	0.	



NVLAP TESTING
NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	9343.	NA.	28.7	90-120	168.	NA.	.5
0- 40	15359.	NA.	47.1	90-130	168.	NA.	.5
0- 60	27245.	NA.	83.6	90-150	168.	NA.	.5
0- 90	32411.	NA.	99.5	90-180	168.	NA.	.5
		TOTAL LUMINAIRE =		0-180	32579.	NA.	100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.3 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	37087.	38747.	41930.
55	33244.	38283.	38336.
65	25499.	28649.	27495.
75	12967.	16577.	15567.
85	2076.	5540.	5657.

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	1.19	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	.99
1	1.10	1.06	1.03	.99	1.08	1.04	1.01	.98	1.00	.97	.94	.96	.94	.91	.92	.90	.89	.87
2	1.02	.94	.88	.83	.99	.92	.87	.82	.89	.84	.80	.86	.82	.78	.83	.80	.77	.75
3	.93	.84	.77	.71	.91	.82	.76	.70	.80	.74	.69	.77	.72	.68	.74	.70	.67	.64
4	.86	.75	.67	.61	.84	.74	.66	.60	.71	.64	.59	.69	.63	.58	.67	.62	.58	.56
5	.78	.66	.58	.51	.76	.65	.57	.51	.63	.56	.51	.61	.55	.50	.59	.54	.49	.47
6	.72	.59	.51	.45	.70	.58	.50	.44	.57	.49	.44	.55	.48	.44	.53	.48	.43	.41
7	.66	.53	.45	.39	.65	.52	.44	.39	.51	.44	.38	.49	.43	.38	.48	.42	.38	.36
8	.61	.48	.39	.33	.59	.47	.39	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.31
9	.56	.43	.34	.29	.55	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10	.52	.39	.31	.25	.51	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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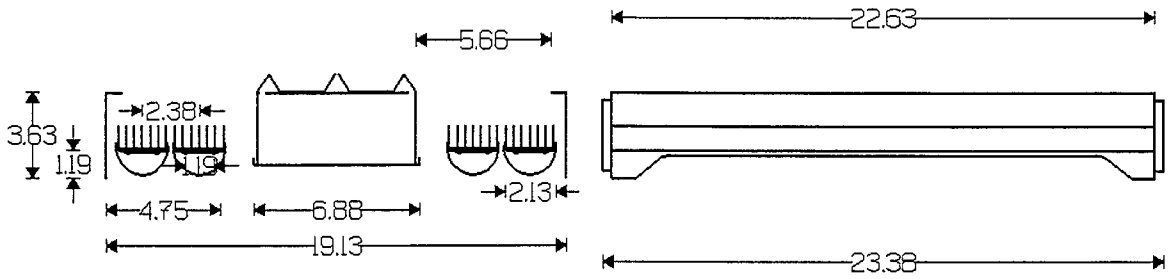
ELECTRICAL CHARACTERISTICS 120.12V 1.9540A 233.2200W

LUMINOUS EFFICACY (LUMENS / WATTS) = 139.7

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