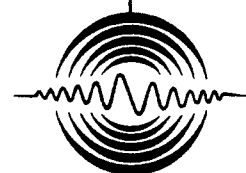


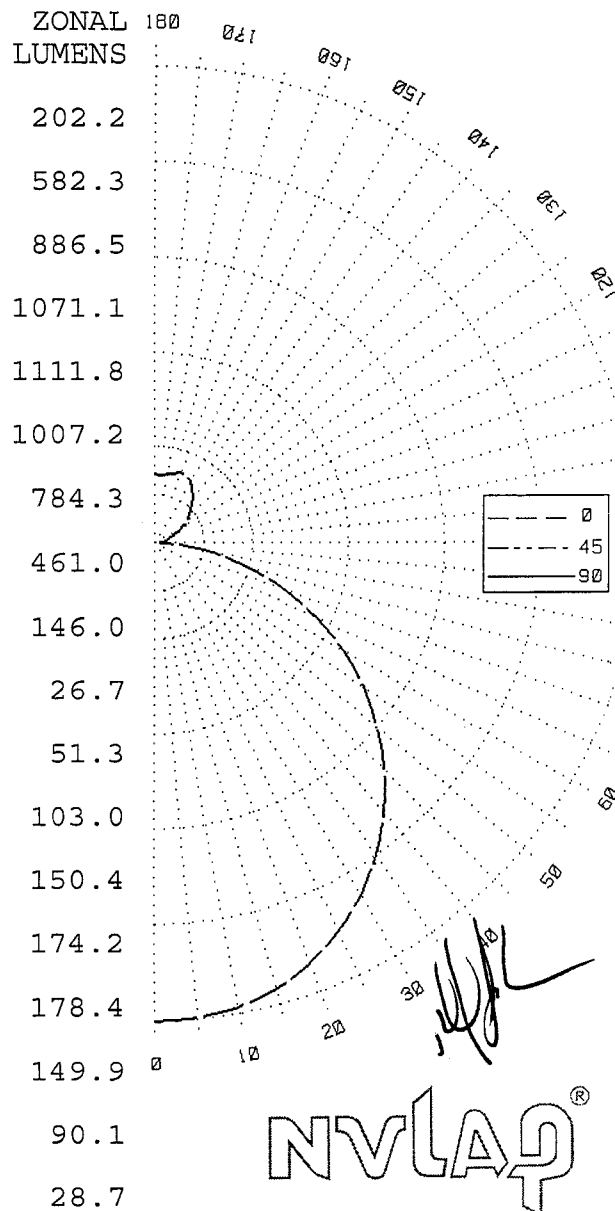
BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 18690.0 DATE 03/03/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-24LED 8-12LED ARRAYS 38"DIA PENDANT WHITE REFL LUMINAIRE
56,1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC
CONVEX BTM LENS 4 MEANWELL #LPF-25D-20
CATALOG NBR: P5538.LED-35LO-XX-10UP
LAMP TYPE : M350C835D24N12STC, M350C835D12N06STC
CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	2128.
5	2118.
10	2095.
15	2054.
20	1994.
25	1915.
30	1819.
35	1705.
40	1578.
45	1436.
50	1282.
55	1123.
60	958.
65	790.
70	613.
75	436.
80	271.
85	134.
90	47.
95	25.
100	31.
105	48.
110	75.
115	104.
120	136.
125	168.
130	198.
135	225.
140	259.
145	284.
150	308.
155	324.
160	329.
165	318.
170	310.
175	301.
180	305.



LUMEN SUMMARY

NVLAP LAB CODE 200921-0

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1671.	NA.	23.2	90-120	181.	NA.	2.5
0- 40	2742.	NA.	38.1	90-130	331.	NA.	4.6
0- 60	4861.	NA.	67.5	90-150	684.	NA.	9.5
0- 90	6253.	NA.	86.8	90-180	953.	NA.	13.2
TOTAL LUMINAIRE =				0-180	7205.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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.

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

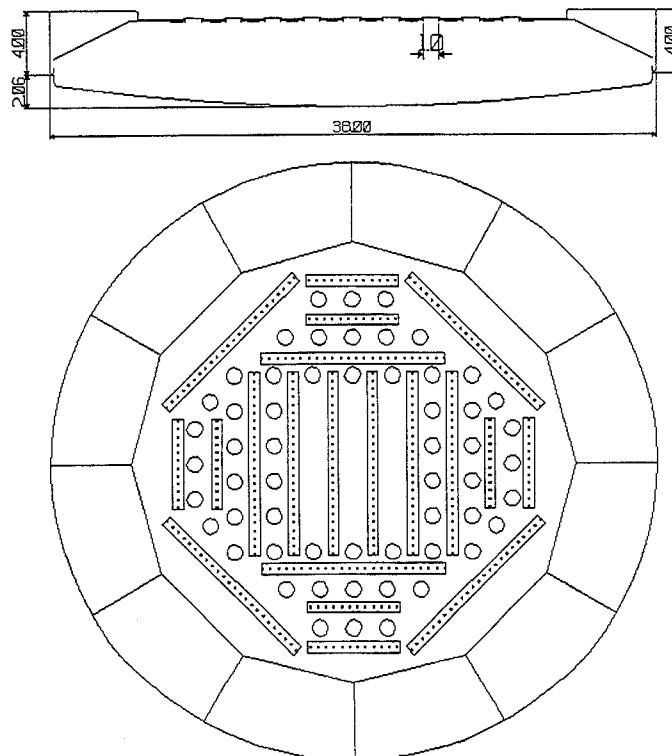
BALLABS CERTIFIED TEST REPORT NO.: 18690.0 DATE 03/03/15
 PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
 DESCRIPTION: 12-24LED 8-12LED ARRAYS 38"DIA PENDANT WHITE REFL LUMINAIRE
 56,1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC
 CONVEX BTM LENS 4 MEANWELL #LPF-25D-20
 CATALOG NBR: P5538.LED-35LO-XX-10UP
 LAMP TYPE : M350C835D24N12STC, M350C835D12N06STC

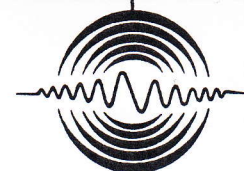
LUMINANCES-CD/SQ-M HORIZONTAL ANGLE	
VERT	0
ANGLE	
45	2624.
55	2467.
65	2263.
75	1872.
85	1224.
MAXIMUM BRIGHTNESSES NOT MEASURED	

ELECTRICAL CHARACTERISTICS 120.0V .9002A 107.58W

LUMINOUS EFFICACY (LUMENS / WATTS) = 67.0

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



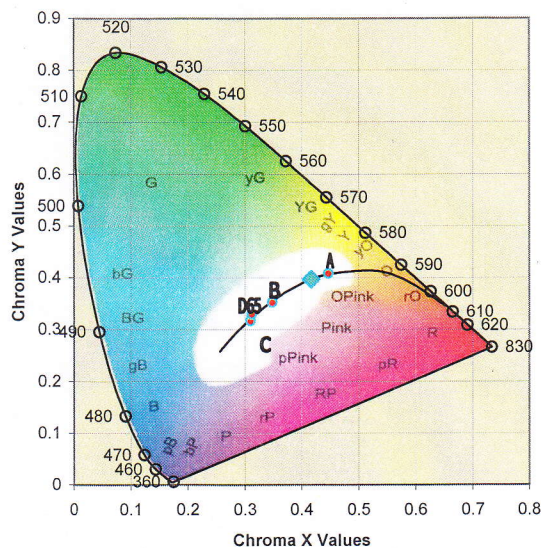


BALLABS CERTIFIED TEST REPORT NO.: 18690.0 A DATE 03/03/15
 PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
 DESCRIPTION: 12-24LED 8-12LED ARRAYS 38"DIA PENDANT WHITE REFL LUMINAIRE
 56,1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC
 CONVEX BTM LENS 4 MEANWELL #LPF-25D-20
 CATALOG NBR: P5538.LED-35LO-XX-10UP
 LAMP TYPE : M350C835D24N12STC, M350C835D12N06STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.9002
INPUT WATTS (W)	107.580
POWER FACTOR	0.9952
THDv (%)	0.1794%
THDi (%)	7.1879%
LUMINOUS EFFICACY-LPW	67.0
LUMINOUS FLUX- LUMENS	7205
CHROMA x	0.4171
CHROMA y	0.3964
CHROMA u	0.241
CHROMA v	0.3436
DELTA uv (Duv)	0
CORR COLOR TEMP (K)	3298
COLOR REND INDEX (RA)	84.67
COLOR REND INDEX (R9)	23.1

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.8250	610	131.2959
360	0.5923	620	125.5525
370	0.6538	630	116.2060
380	0.6402	640	103.7606
390	0.6643	650	89.4144
400	0.7499	660	74.2911
410	1.2961	670	60.1456
420	4.4822	680	47.9678
430	17.1312	690	37.7393
440	47.8219	700	29.1921
450	90.4256	710	22.3028
460	55.5010	720	16.6922
470	38.1816	730	12.3114
480	32.7834	740	9.1892
490	41.6251	750	6.9135
500	53.8783	760	5.1891
510	63.2994	770	3.9084
520	70.6952	780	2.8918
530	77.9682	790	2.1543
540	86.8916	800	1.6181
550	96.8302	810	1.2191
560	106.3259	820	0.9585
570	115.0421	830	0.7231
580	123.2599	840	0.5785
590	129.2124	850	0.4268
600	132.4045		

Chromaticity Diagram CIE 1931 2 Degree



Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



Kelly C. Lerbs
Vice President

NVLAP LAB CODE 200921-0

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.

