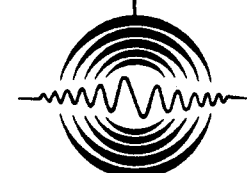


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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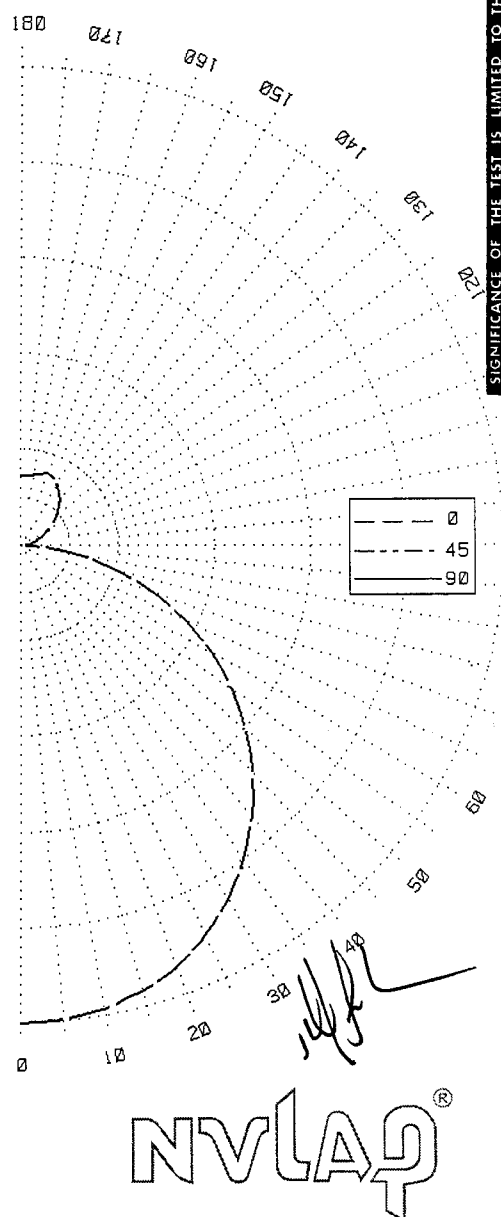
BALLABS CERTIFIED TEST REPORT NO.: 18691.0 DATE 03/03/15  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 12-48LED, 8-24LED ARRAYS 38"DIA PENDANT WHITE REFL LUMINAIRE  
56,1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC  
CONVEX BTM LENS 4 MEANWELL #LFP-40D-20

CATALOG NBR: P5538.LED-35HI-XX-10UP

LAMP TYPE : M700C835D48N12STC, M700C835D24N06STC

CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	3639.	
5	3622.	345.8
10	3582.	
15	3513.	995.8
20	3415.	
25	3279.	1517.6
30	3111.	
35	2916.	1831.9
40	2703.	
45	2464.	1908.4
50	2206.	
55	1934.	1734.9
60	1652.	
65	1363.	1352.7
70	1063.	
75	760.	804.3
80	466.	
85	224.	244.6
90	82.	
95	41.	44.9
100	56.	
105	86.	91.0
110	134.	
115	185.	183.7
120	240.	
125	297.	266.4
130	350.	
135	400.	310.0
140	455.	
145	497.	312.3
150	541.	
155	573.	265.0
160	584.	
165	562.	159.4
170	546.	
175	539.	51.5
180	538.	



## LUMEN SUMMARY

NVLAP LAB CODE 200921-0

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2859.	NA.	23.0	90-120	320.	NA.	2.6
0- 40	4691.	NA.	37.8	90-130	586.	NA.	4.7
0- 60	8334.	NA.	67.1	90-150	1208.	NA.	9.7
0- 90	10736.	NA.	86.4	90-180	1684.	NA.	13.6
TOTAL LUMINAIRE =				0-180	12420.	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.

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 \*\*\*\*\*

LUMINANCES-CD/SQ-M	
HORIZONTAL ANGLE	
VERT	0
ANGLE	
45	4504.
55	4249.
65	3902.
75	3266.
85	2052.

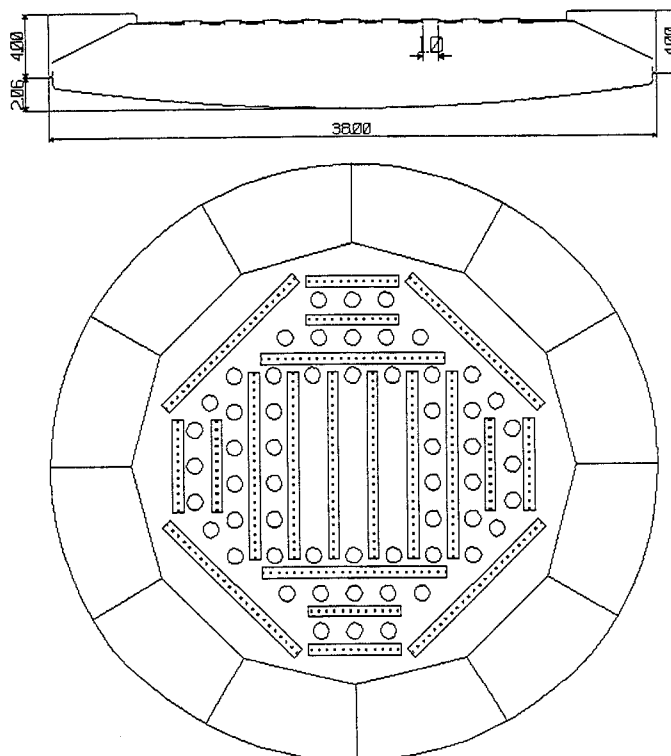
\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

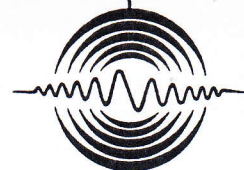
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ELECTRICAL CHARACTERISTICS 120.0V 1.3543A 161.56W

LUMINOUS EFFICACY (LUMENS / WATTS) = 76.9

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



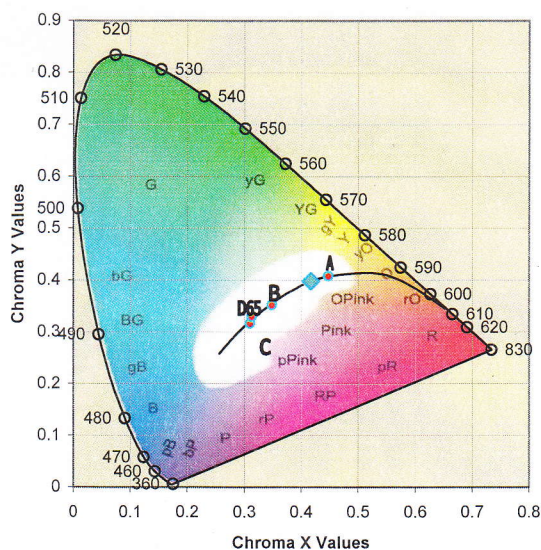


BALLABS CERTIFIED TEST REPORT NO.: 18691.0 A DATE 03/03/15  
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CONVEX BTM LENS 4 MEANWELL #LPF-40D-20  
CATALOG NBR: P5538.LED-35HI-XX-10UP  
LAMP TYPE : M700C835D48N12STC, M700C835D24N06STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	1.3543
INPUT WATTS (W)	161.560
POWER FACTOR	0.9943
THDv (%)	0.2082%
THDi (%)	6.2087%
LUMINOUS EFFICACY-LPW	76.9
LUMINOUS FLUX- LUMENS	12420
CHROMA x	0.4170
CHROMA y	0.3975
CHROMA u	0.2404
CHROMA v	0.3439
DELTA uv (Duv)	0.0005
CORR COLOR TEMP (K)	3310
COLOR REND INDEX (RA)	83.96
COLOR REND INDEX (R9)	20.6

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.8705	610	224.9091
360	1.0305	620	214.4699
370	0.8597	630	198.1811
380	0.8850	640	176.4932
390	0.9303	650	151.8907
400	1.2860	660	126.2481
410	2.4142	670	102.0453
420	9.0172	680	81.5204
430	34.6857	690	64.1285
440	93.7155	700	49.6702
450	155.4897	710	37.7896
460	85.2760	720	28.3692
470	57.3327	730	20.9392
480	53.2717	740	15.6387
490	70.1513	750	11.6760
500	92.7117	760	8.8360
510	109.6091	770	6.5942
520	122.6206	780	4.9162
530	135.4463	790	3.6558
540	150.9567	800	2.7159
550	168.0387	810	2.1220
560	184.1037	820	1.6051
570	199.1969	830	1.2577
580	212.5108	840	0.9611
590	222.6666	850	0.7627
600	227.1319		

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

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