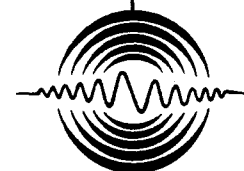


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 18688.0 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

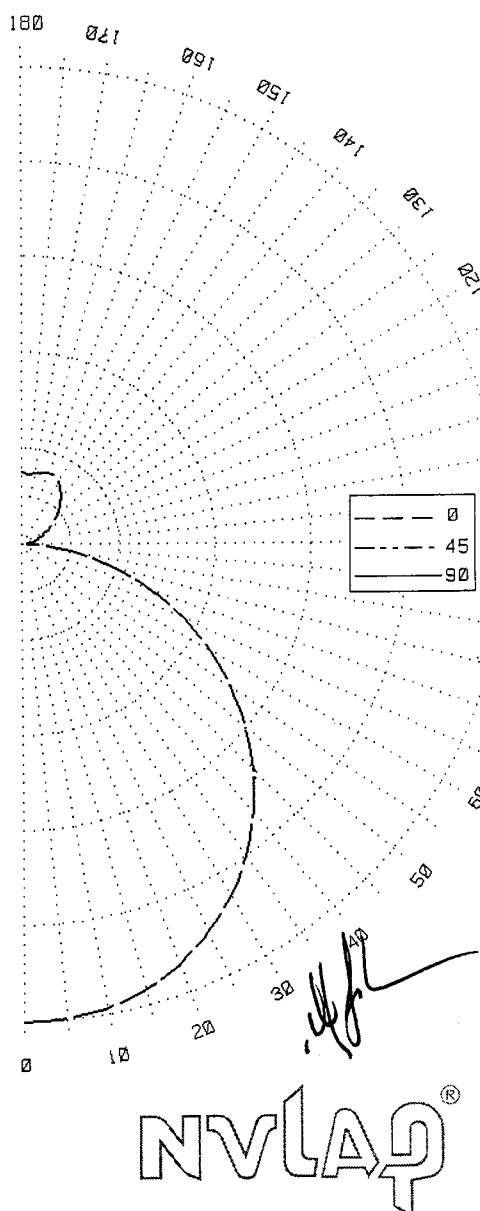
CATALOG NBR: P5538.LED-40LO-XX-10UP  
LAMP TYPE : M350C840D24N12STC M350C840D12N06STC

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	2153.
5	2146.
10	2121.
15	2081.
20	2020.
25	1939.
30	1843.
35	1723.
40	1591.
45	1446.
50	1291.
55	1134.
60	966.
65	794.
70	615.
75	442.
80	273.
85	133.
90	49.
95	24.
100	33.
105	52.
110	78.
115	107.
120	140.
125	174.
130	206.
135	238.
140	270.
145	299.
150	323.
155	338.
160	340.
165	335.
170	324.
175	317.
180	329.

ZONAL 180  
LUMENS

204.8  
590.0  
897.6  
1082.1  
1119.5  
1017.4  
787.7  
467.8  
145.2  
26.1  
54.6  
106.6  
156.5  
184.1  
187.6  
156.4  
94.9  
30.3



## LUMEN SUMMARY

NVLAP LAB CODE 200921-0

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1692.	NA.	23.2	90-120	187.	NA.	2.6
0- 40	2775.	NA.	38.0	90-130	344.	NA.	4.7
0- 60	4911.	NA.	67.2	90-150	715.	NA.	9.8
0- 90	6312.	NA.	86.4	90-180	997.	NA.	13.6
TOTAL LUMINAIRE =				0-180	7309.	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.

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 \*\*\*\*\*

LUMINANCES-CD/SQ-M	
HORIZONTAL ANGLE	
0	
VERT	
ANGLE	
45	2642.
55	2492.
65	2272.
75	1900.
85	1218.

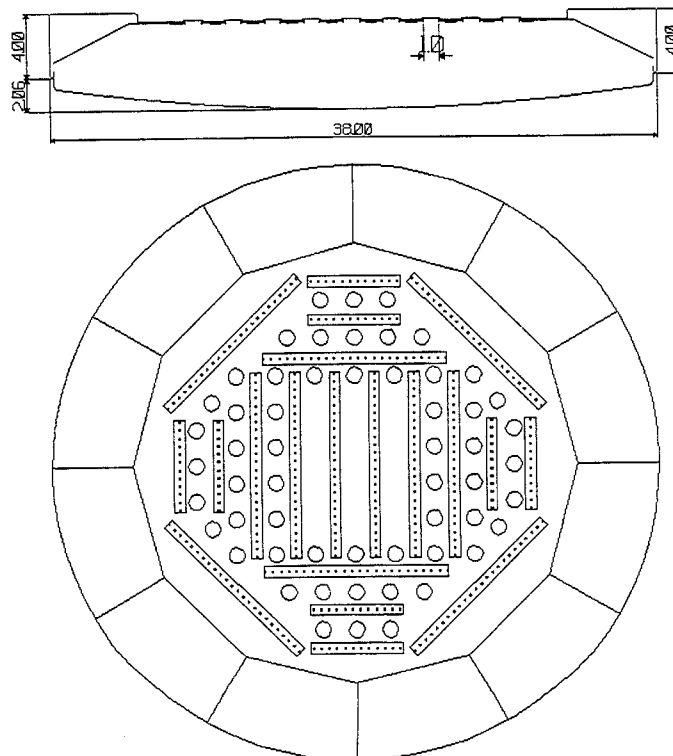
\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

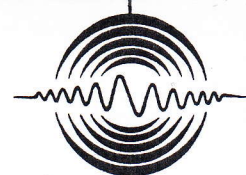
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ELECTRICAL CHARACTERISTICS 120.0V .8987A 107.35W

LUMINOUS EFFICACY (LUMENS / WATTS) = 68.1

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



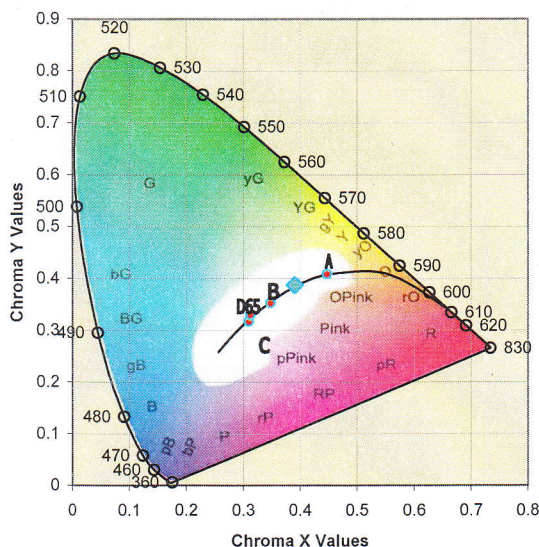


BALLABS CERTIFIED TEST REPORT NO.: 18688.0 A DATE 03/03/15  
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LAMP TYPE : M350C840D24N12STC M350C840D12N06STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.8987
INPUT WATTS (W)	107.350
POWER FACTOR	0.9953
THDv (%)	0.1791%
THDi (%)	7.1306%
LUMINOUS EFFICACY-LPW	68.1
LUMINOUS FLUX- LUMENS	7309
CHROMA x	0.3911
CHROMA y	0.3862
CHROMA u	0.2283
CHROMA v	0.3382
DELTA uv (Duv)	0.0011
CORR COLOR TEMP (K)	3793
COLOR REND INDEX (RA)	85.52
COLOR REND INDEX (R9)	25.9

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.5837	610	120.8110
360	0.6233	620	114.3969
370	0.5514	630	104.9814
380	0.6002	640	93.1129
390	0.5989	650	79.9032
400	0.7788	660	66.1672
410	1.4051	670	53.4145
420	5.1561	680	42.6150
430	19.6864	690	33.4917
440	54.9762	700	25.9409
450	95.1841	710	19.7860
460	87.8976	720	14.8302
470	55.5030	730	10.9732
480	43.7504	740	8.1902
490	50.6734	750	6.1384
500	62.1204	760	4.6669
510	71.8185	770	3.4811
520	78.8327	780	2.6048
530	85.7705	790	1.9236
540	94.1179	800	1.4694
550	102.6177	810	1.1025
560	109.8134	820	0.8395
570	115.7115	830	0.6654
580	120.4006	840	0.5209
590	123.1668	850	0.4119
600	123.8301		

Chromaticity Diagram CIE 1931 2 Degree

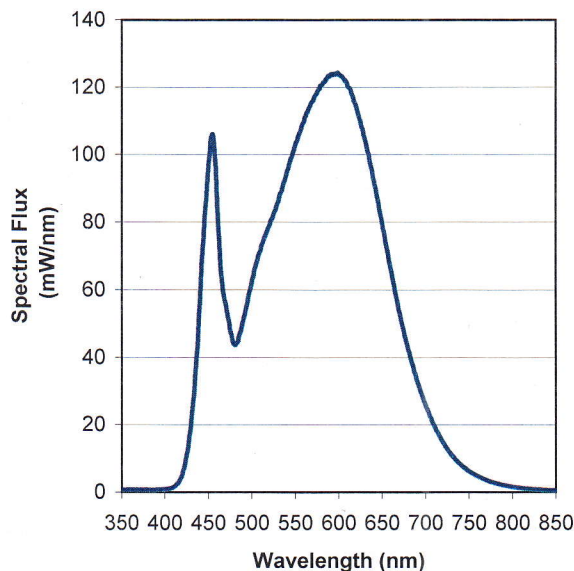


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

*[Signature]*  
Kelly C. Lerbs  
Vice President



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