

BALLABS CERTIFIED TEST REPORT NO.: 19172.0 DATE 11/24/15  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 4-72LED, 14-48LED, 8-24LED ARRAYS 48"DIA PENDANT WHITE REFL  
90,1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC  
CONVEX BTM LENS 4 MEANWELL #LPF-60D-42

CATALOG NBR: P5548-40HI-10UP

LAMP TYPE : M700C840D24N06STC, M700C840D48N12STC, M700C840D72N18SOC  
CANDLEPOWER DISTRIBUTION

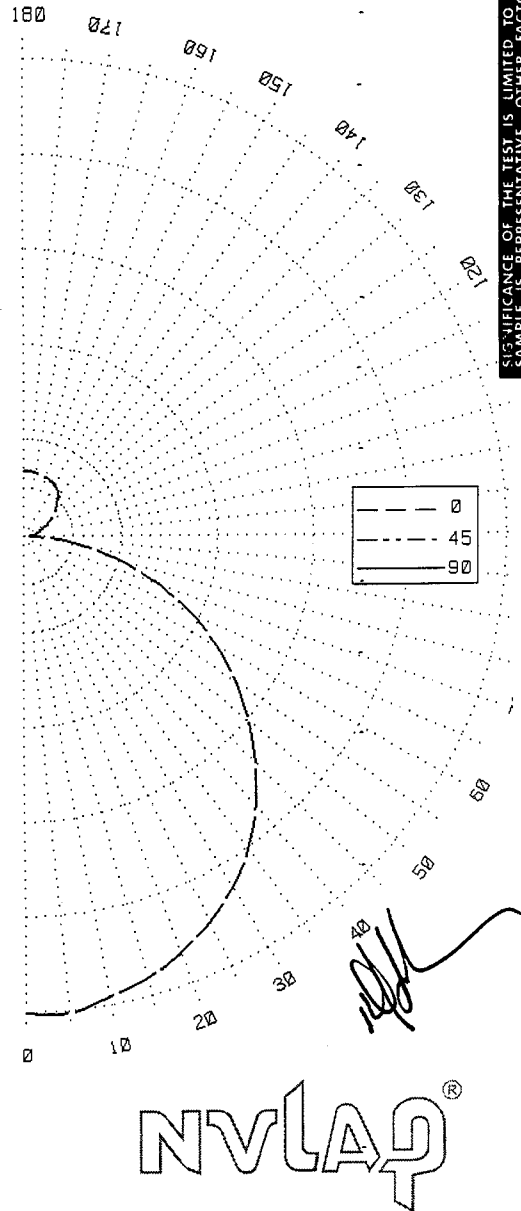
VERT  
ANG

AVERAGE CANDELA

0	5093.
5	5070.
10	5002.
15	4896.
20	4753.
25	4575.
30	4355.
35	4096.
40	3784.
45	3440.
50	3091.
55	2726.
60	2340.
65	1942.
70	1526.
75	1114.
80	713.
85	366.
90	136.
95	68.
100	89.
105	129.
110	183.
115	247.
120	314.
125	378.
130	440.
135	499.
140	558.
145	607.
150	631.
155	652.
160	667.
165	669.
170	685.
175	700.
180	696.

ZONAL 180  
LUMENS

484.0
1387.8
2117.8
2573.3
2446.0
1928.1
1179.0
399.4
73.9
136.0
245.2
339.3
386.2
381.2
301.7
189.7
66.9



NVLAP®

## LUMEN SUMMARY

NVLAP LAB CODE 200921-0

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	3990.	NA.	23.1	90-120	455.	NA.	2.6
0- 40	6563.	NA.	37.9	90-130	794.	NA.	4.6
0- 60	11673.	NA.	67.5	90-150	1562.	NA.	9.0
0- 90	15180.	NA.	87.7	90-180	2120.	NA.	12.3

TOTAL LUMINAIRE = 0-180 17300. NA. 100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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LUMINANCES-CD/SQ-M  
 HORIZONTAL ANGLE

VERT	0
ANGLE	
45	3978.
55	3785.
65	3505.
75	3004.
85	2073.

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

\*\*\*\*\*

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	.80				.70				.50				.30			.10		.00
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00
RCR																		
0	1.16	1.16	1.16	1.16	1.12	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.91	.91	.91	.88
1	1.06	1.02	.98	.94	1.02	.98	.95	.91	.92	.89	.86	.86	.84	.81	.80	.79	.77	.74
2	.97	.89	.82	.77	.93	.86	.80	.75	.81	.76	.72	.76	.72	.68	.71	.68	.65	.62
3	.89	.79	.71	.65	.85	.76	.69	.63	.71	.66	.61	.67	.62	.58	.63	.59	.56	.53
4	.81	.70	.61	.55	.78	.68	.60	.54	.64	.57	.52	.60	.54	.50	.56	.52	.48	.45
5	.74	.61	.53	.46	.71	.60	.52	.45	.56	.49	.44	.53	.47	.42	.50	.45	.41	.38
6	.68	.55	.46	.40	.65	.53	.45	.39	.50	.43	.38	.48	.41	.37	.45	.40	.35	.33
7	.63	.49	.41	.35	.60	.48	.40	.34	.45	.38	.33	.43	.37	.32	.40	.35	.31	.29
8	.58	.44	.36	.30	.55	.43	.35	.30	.41	.34	.29	.38	.32	.28	.36	.31	.27	.25
9	.53	.40	.32	.26	.51	.39	.31	.26	.37	.30	.25	.35	.28	.24	.33	.27	.23	.21
10	.49	.36	.28	.23	.47	.35	.28	.23	.33	.27	.22	.31	.25	.21	.30	.24	.20	.19

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

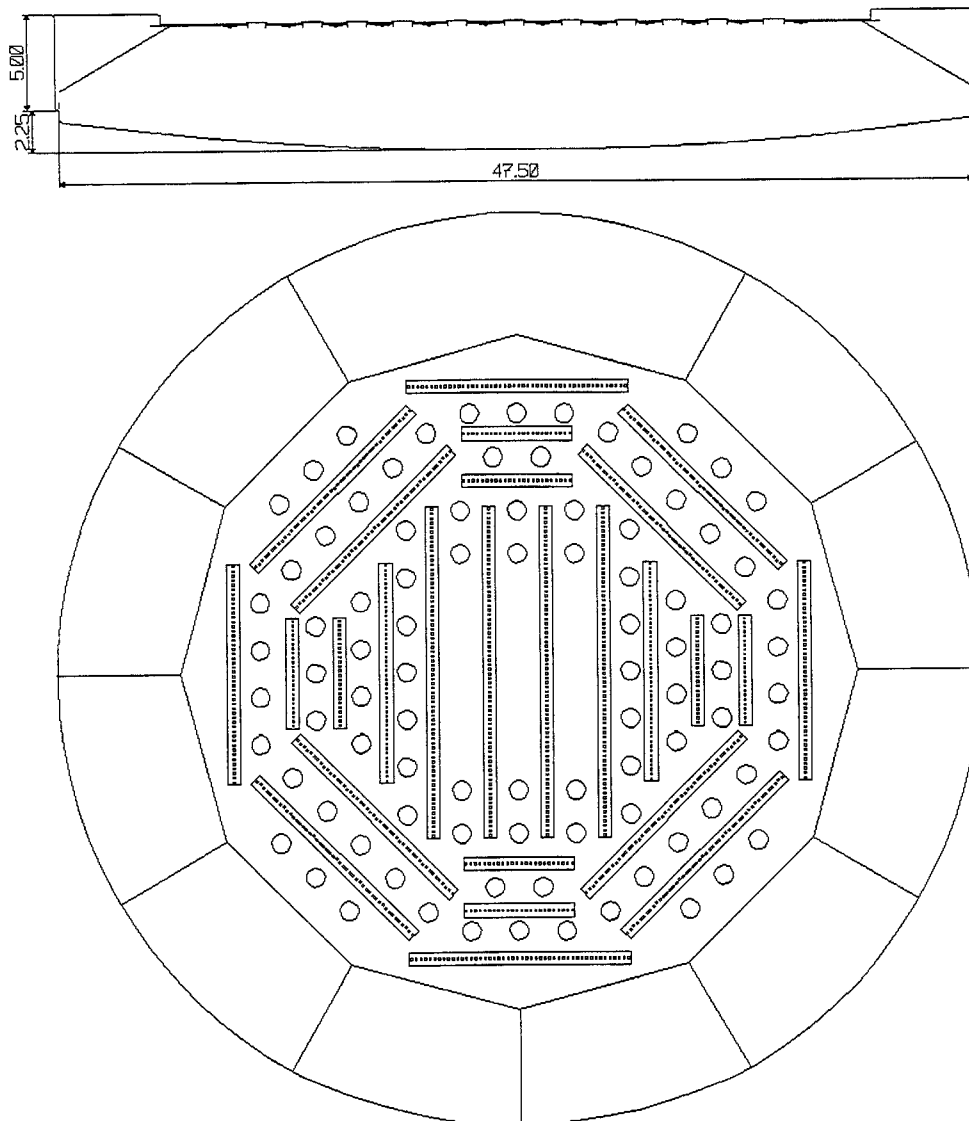
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ELECTRICAL CHARACTERISTICS 120.0V 1.9051A 227.42W

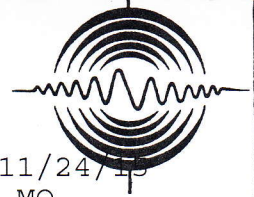
LUMINOUS EFFICACY (LUMENS / WATTS) = 76.1

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



# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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

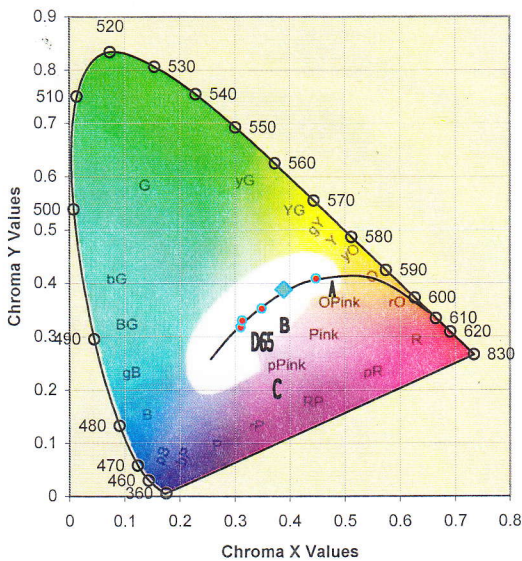


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INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	1.9051
INPUT WATTS (W)	227.420
POWER FACTOR	0.9947
THDv (%)	0.2517%
THDi (%)	5.5669%
LUMINOUS EFFICACY-LPW	76.1
LUMINOUS FLUX- LUMENS	17300
CHROMA x	0.3887
CHROMA y	0.3868
CHROMA u	0.2265
CHROMA v	0.3381
DELTA uv (Duv)	0.0021
CORR COLOR TEMP (K)	3857
COLOR REND INDEX (RA)	83.21
COLOR REND INDEX (R9)	18.2

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	1.6510	610	278.7703
360	1.8018	620	262.2399
370	1.7680	630	238.5266
380	1.7941	640	210.5665
390	2.1947	650	180.3055
400	2.8810	660	149.5110
410	6.1548	670	120.5987
420	23.2772	680	96.3627
430	85.6486	690	75.3626
440	217.5510	700	58.1673
450	230.7300	710	44.1088
460	128.0641	720	33.1151
470	81.0470	730	24.4688
480	82.4133	740	18.1898
490	113.2870	750	13.7061
500	149.9429	760	10.2990
510	175.3694	770	7.7208
520	193.5167	780	5.7960
530	210.5297	790	4.3264
540	228.7385	800	3.2107
550	247.5457	810	2.4430
560	263.7311	820	1.9505
570	276.0990	830	1.5158
580	284.9102	840	1.1422
590	289.7084	850	0.8676
600	288.4179		

Chromaticity Diagram CIE 1931 2 Degree

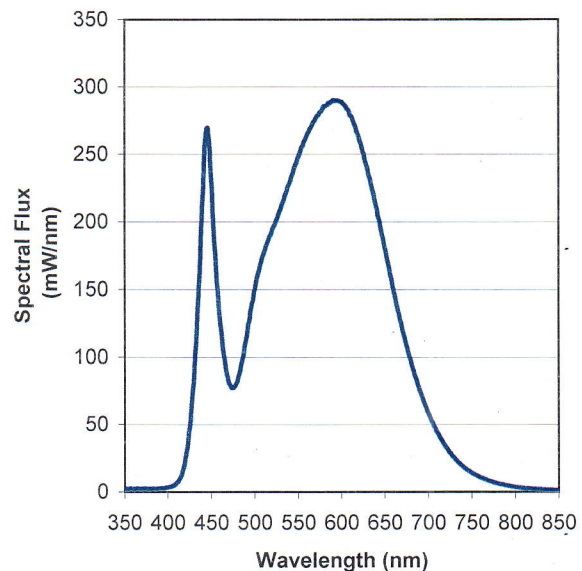


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

Kelly C. Lerbs  
Vice President



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