

BALLABS CERTIFIED TEST REPORT NO.: 19470.0 DATE 08/31/16  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 12-24LED ARRAY 48"DIA MOD PEND LUMINAIRE w/WHITE REFL & 1/8  
CLR ACRYLIC TOP LENS/WHITE CTR RND REFL & FROST ACRYLIC BTM  
LENS w/.125"WHITE ACRYLIC BTM DOME 2ROAL STRATO #RSLD035-06  
CATALOG NBR: P1848-35LO-XX  
LAMP TYPE : M350C835D24N12STC

## CANDLEPOWER DISTRIBUTION

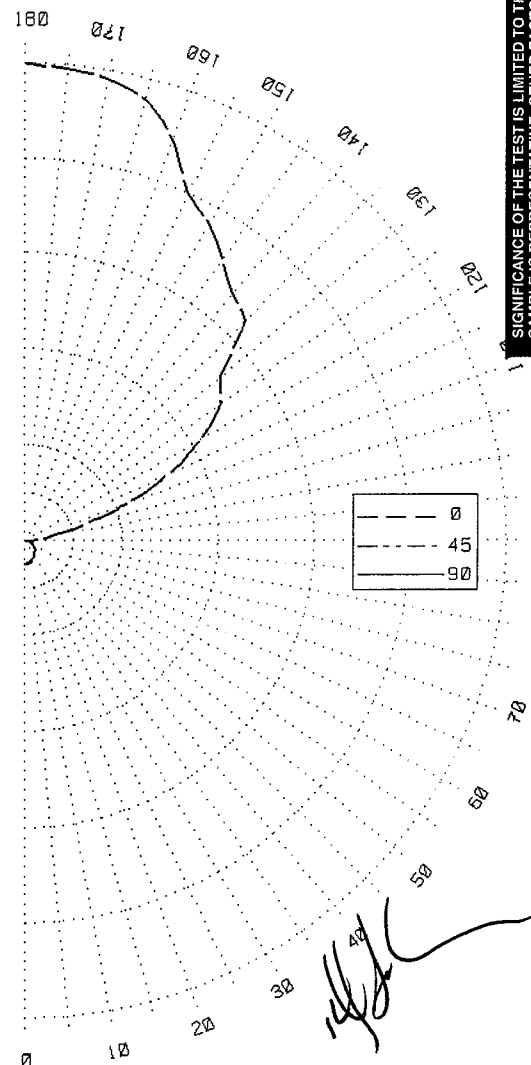
VERT  
ANG

AVERAGE CANDELA

0	107.
5	108.
10	106.
15	102.
20	98.
25	94.
30	89.
35	82.
40	75.
45	69.
50	60.
55	52.
60	44.
65	35.
70	29.
75	22.
80	16.
85	13.
90	11.
95	56.
100	125.
105	269.
110	489.
115	737.
120	957.
125	1126.
130	1203.
135	1461.
140	1515.
145	1616.
150	1728.
155	1814.
160	2024.
165	2169.
170	2225.
175	2252.
180	2266.

ZONAL  
LUMENS

10.3
28.9
43.3
51.7
53.5
46.9
35.1
23.2
13.9
60.6
284.8
732.0
1010.3
1131.8
1014.9
839.8
614.7
214.9



**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	83.	NA.	1.3	90-120	1077.	NA.	17.3
0- 40	134.	NA.	2.2	90-130	2088.	NA.	33.6
0- 60	235.	NA.	3.8	90-150	4234.	NA.	68.2
0- 90	307.	NA.	4.9	90-180	5904.	NA.	95.1
TOTAL LUMINAIRE =				0-180	6211.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.2 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	68.
55	59.
65	48.
75	38.
85	33.

\*\*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	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00
RCR																		
0	.96	.96	.96	.96	.83	.83	.83	.83	.58	.58	.58	.36	.36	.36	.15	.15	.15	.05
1	.88	.83	.80	.76	.75	.72	.69	.66	.51	.49	.47	.31	.30	.29	.13	.13	.12	.04
2	.80	.73	.67	.62	.68	.63	.58	.54	.44	.41	.39	.27	.26	.24	.11	.11	.10	.03
3	.72	.64	.57	.51	.62	.55	.50	.45	.39	.35	.32	.24	.22	.20	.10	.09	.09	.03
4	.66	.56	.49	.43	.57	.49	.43	.38	.34	.31	.28	.21	.19	.17	.09	.08	.07	.03
5	.61	.50	.42	.37	.52	.43	.37	.32	.31	.27	.24	.19	.17	.15	.08	.07	.06	.02
6	.56	.45	.37	.32	.48	.39	.33	.28	.27	.23	.20	.17	.15	.13	.07	.06	.06	.02
7	.51	.40	.33	.28	.44	.35	.29	.25	.25	.21	.18	.15	.13	.11	.06	.06	.05	.02
8	.48	.36	.29	.25	.41	.32	.26	.22	.23	.19	.16	.14	.12	.10	.06	.05	.04	.01
9	.44	.33	.26	.22	.38	.29	.23	.19	.21	.17	.14	.13	.10	.09	.05	.04	.04	.01
10	.41	.30	.24	.20	.36	.26	.21	.17	.19	.15	.13	.12	.09	.08	.05	.04	.03	.01

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

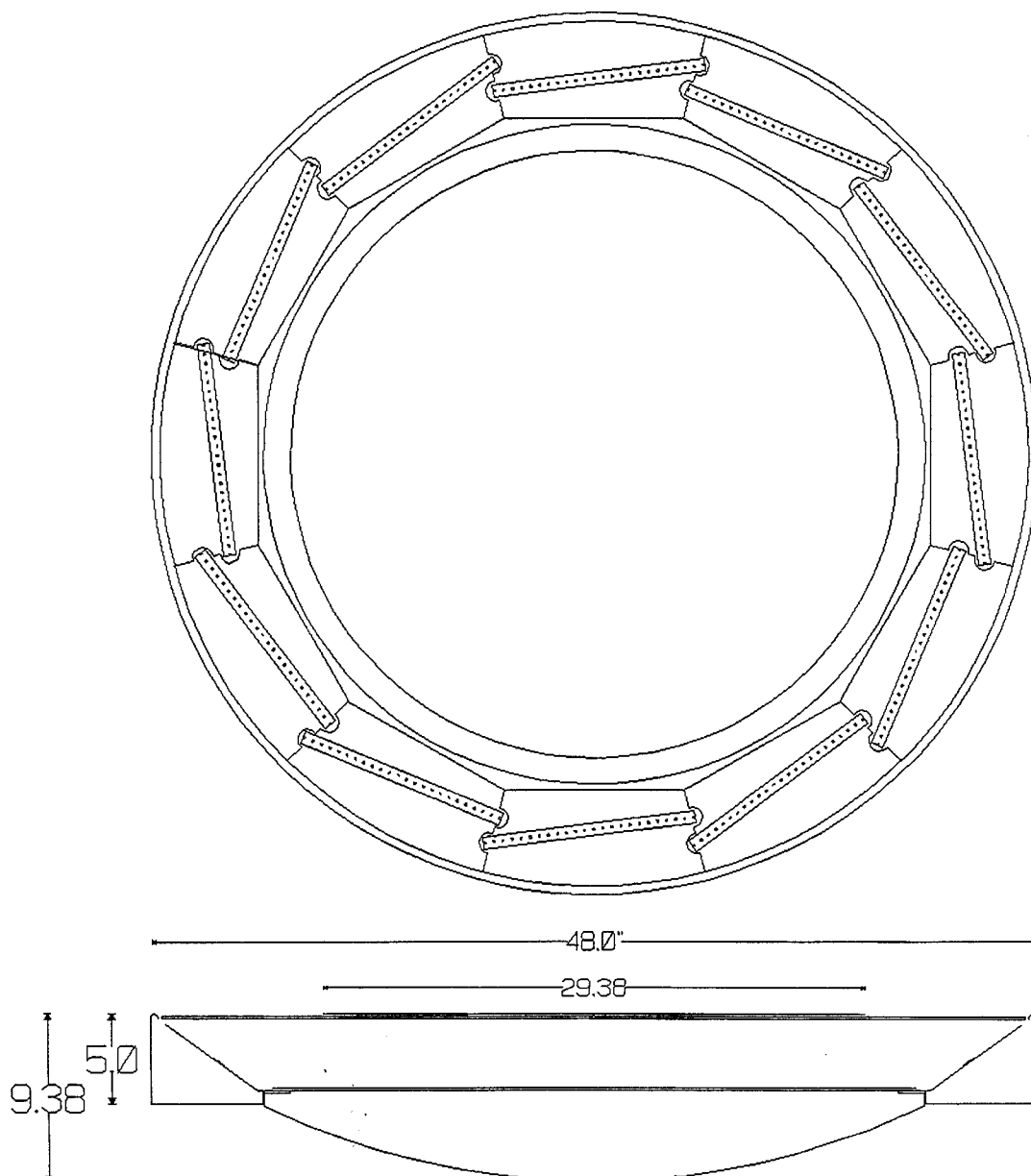
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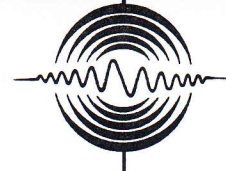
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ELECTRICAL CHARACTERISTICS 120.0V .4741A 53.345W

LUMINOUS EFFICACY (LUMENS / WATTS) = 116.4

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

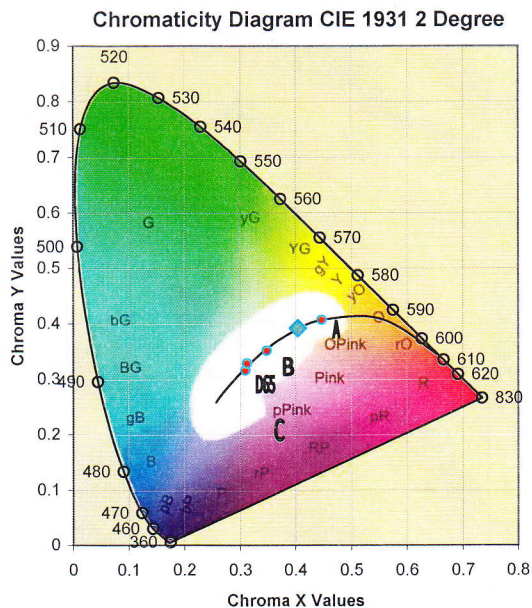




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INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.4741
INPUT WATTS (W)	53.345
POWER FACTOR	0.9378
THDv (%)	0.180
THDi (%)	26.855
LUMINOUS EFFICACY-LPW	116.4
LUMINOUS FLUX- LUMENS	6211
CHROMA x	0.4043
CHROMA y	0.3924
CHROMA u	0.2344
CHROMA v	0.3412
DELTA uv (Duv)	0.0010
CORR COLOR TEMP (K)	3536
COLOR REND INDEX (RA)	84.23
COLOR REND INDEX (R9)	20.2

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.5473	610	107.9439
360	0.5794	620	102.4058
370	0.6156	630	93.3347
380	0.5930	640	82.2570
390	0.6576	650	69.9740
400	0.8372	660	57.6135
410	1.5680	670	46.0897
420	4.7034	680	36.3423
430	16.5255	690	28.0991
440	48.3069	700	21.3433
450	93.5645	710	16.0691
460	47.4198	720	12.0108
470	32.4660	730	8.8655
480	29.6815	740	6.5622
490	38.6965	750	4.8458
500	50.2973	760	3.5904
510	58.2860	770	2.6710
520	64.1896	780	1.9580
530	70.2006	790	1.4580
540	77.8513	800	1.0868
550	85.5995	810	0.8194
560	93.1257	820	0.6293
570	99.4255	830	0.4870
580	104.7555	840	0.3804
590	108.5430	850	0.3029
600	109.9293		

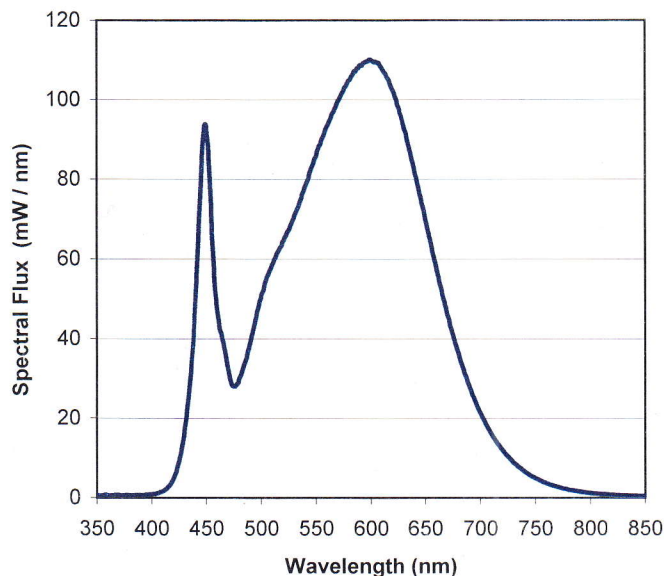


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

*[Signature]*  
Kelly C. Lerbs  
Vice President



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