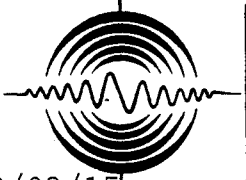


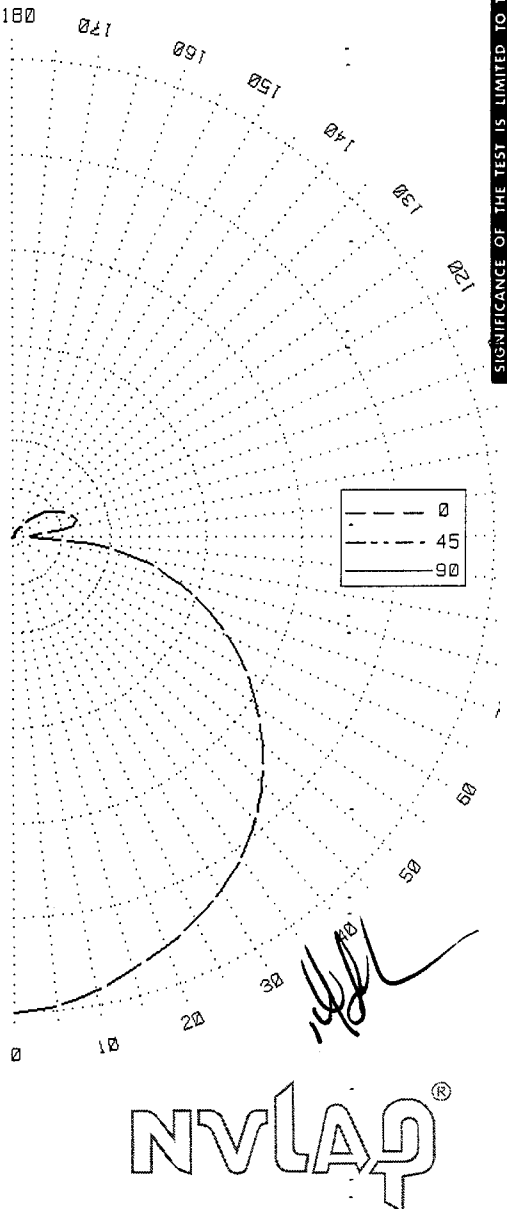
BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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



BALLABS CERTIFIED TEST REPORT NO.: 19186.0 DATE 12/03/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-24LED 11.625"ARRAYS 48"DIA WHT.WAL PENDANT LUMINAIRE
WHITE REFL w/1PIECE .125"THK VIRGIN WHITE ACRYLIC INNER &
BTM LENS 2 ROAL STRATO #RSLD035-06
CATALOG NBR: P6348-35LO
LAMP TYPE : M350C835D24N12STC
CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	850.	80.3
5	841.	
10	823.	226.3
15	799.	
20	778.	350.0
25	756.	
30	729.	438.9
35	699.	
40	662.	481.6
45	622.	
50	575.	471.0
55	525.	
60	473.	416.9
65	420.	
70	358.	312.3
75	295.	
80	230.	153.2
85	140.	
90	33.	33.5
95	31.	
100	100.	122.8
105	116.	
110	110.	101.8
115	103.	
120	91.	72.0
125	80.	
130	69.	40.0
135	52.	
140	39.	13.3
145	21.	
150	15.	4.2
155	9.	
160	2.	.0
165	0.	
170	0.	.0
175	0.	
180	0.	



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

LUMEN SUMMARY				NVLAP LAB CODE 200921-0			
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	657.	NA.	19.8	90-120	258.	NA.	7.8
0- 40	1095.	NA.	33.0	90-130	330.	NA.	9.9
0- 60	2048.	NA.	61.7	90-150	383.	NA.	11.6
0- 90	2931.	NA.	88.3	90-180	388.	NA.	11.7
TOTAL LUMINAIRE =				0-180	3318.	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 ANGLE	0
45	759.
55	784.
65	841.
75	941.
85	1185.

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	1.05	1.05	1.05	.98	.98	.98	.91	.91	.91	.88
1	1.05	1.00	.95	.91	1.01	.96	.92	.88	.90	.87	.83	.84	.81	.79	.79	.77	.75	.72
2	.95	.86	.79	.73	.91	.83	.77	.71	.78	.72	.68	.73	.68	.64	.68	.65	.61	.58
3	.86	.76	.67	.60	.83	.73	.65	.59	.68	.62	.56	.64	.59	.54	.60	.56	.52	.49
4	.79	.67	.57	.51	.76	.64	.56	.50	.60	.53	.48	.57	.51	.46	.53	.48	.44	.41
5	.72	.58	.49	.42	.69	.57	.48	.41	.53	.46	.40	.50	.43	.38	.47	.41	.37	.34
6	.66	.52	.43	.36	.63	.50	.42	.36	.47	.40	.34	.45	.38	.33	.42	.36	.32	.30
7	.60	.47	.38	.31	.58	.45	.37	.31	.42	.35	.30	.40	.33	.29	.38	.32	.28	.25
8	.56	.42	.33	.27	.53	.40	.32	.26	.38	.31	.26	.36	.29	.25	.34	.28	.24	.22
9	.51	.37	.29	.23	.49	.36	.28	.23	.34	.27	.22	.32	.26	.21	.30	.25	.20	.18
10	.48	.34	.26	.20	.46	.33	.25	.20	.31	.24	.19	.29	.23	.19	.28	.22	.18	.16

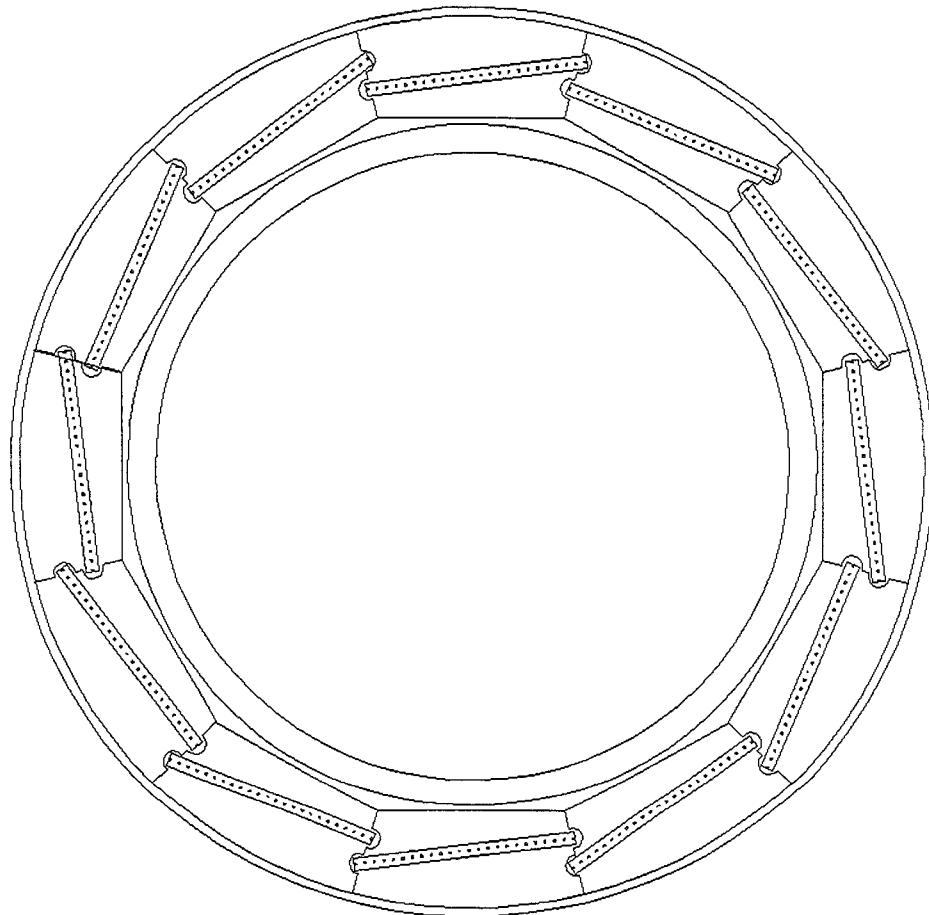
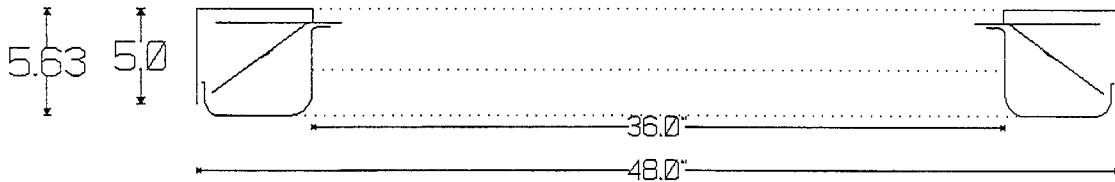
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

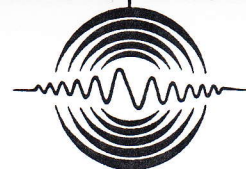
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BTM LENS 2 ROAL STRATO #RSLD035-06
CATALOG NBR: P6348-35LO
LAMP TYPE : M350C835D24N12STC

ELECTRICAL CHARACTERISTICS 120.0V .4742A 53.393W

LUMINOUS EFFICACY (LUMENS / WATTS) = 62.1

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



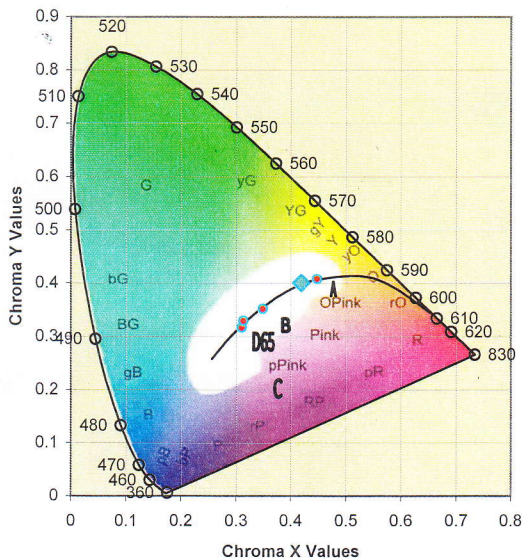


BALLABS CERTIFIED TEST REPORT NO.: 19186.0 A DATE 12/03/15
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DESCRIPTION: 12-24LED 11.625"ARRAYS 48"DIA WHT.WAL PENDANT LUMINAIRE
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CATALOG NBR: P6348-35LO
LAMP TYPE : M350C835D24N12STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.4742
INPUT WATTS (W)	53.393
POWER FACTOR	0.9381
THDv (%)	0.2003%
THDi (%)	26.9030%
LUMINOUS EFFICACY-LPW	62.1
LUMINOUS FLUX- LUMENS	3318
CHROMA x	0.4186
CHROMA y	0.4004
CHROMA u	0.2403
CHROMA v	0.3448
DELTA uv (Duv)	0.0014
CORR COLOR TEMP (K)	3300
COLOR REND INDEX (RA)	84.41
COLOR REND INDEX (R9)	22.3

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.2264	610	60.0946
360	0.2400	620	57.4167
370	0.2855	630	53.0614
380	0.2441	640	47.3910
390	0.2176	650	41.2712
400	0.2923	660	34.5614
410	0.4387	670	28.1772
420	1.5476	680	22.7535
430	6.4861	690	17.8348
440	20.7410	700	13.7136
450	43.2226	710	10.3695
460	23.0687	720	7.7080
470	16.0704	730	5.6671
480	14.3847	740	4.1994
490	18.9921	750	3.1466
500	24.9527	760	2.3660
510	29.4682	770	1.7638
520	32.8975	780	1.2992
530	36.2863	790	0.9783
540	40.3784	800	0.7214
550	44.7567	810	0.5437
560	49.1734	820	0.4173
570	53.0624	830	0.3233
580	56.4648	840	0.2677
590	59.0185	850	0.1939
600	60.5230		

Chromaticity Diagram CIE 1931 2 Degree



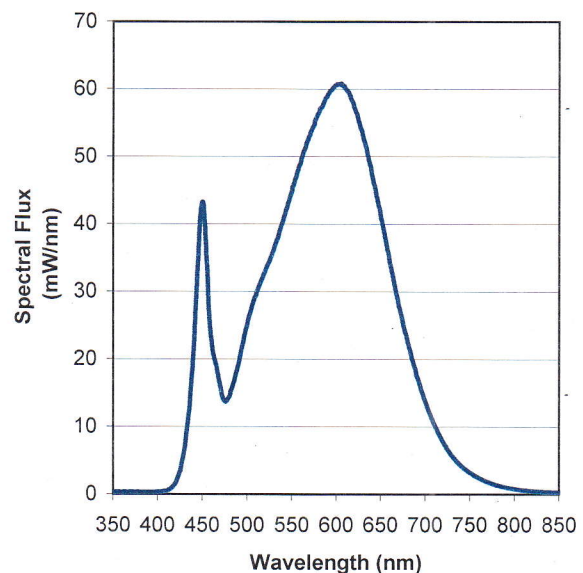
Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

[Signature]

Kelly C. Lerbs
Vice President



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