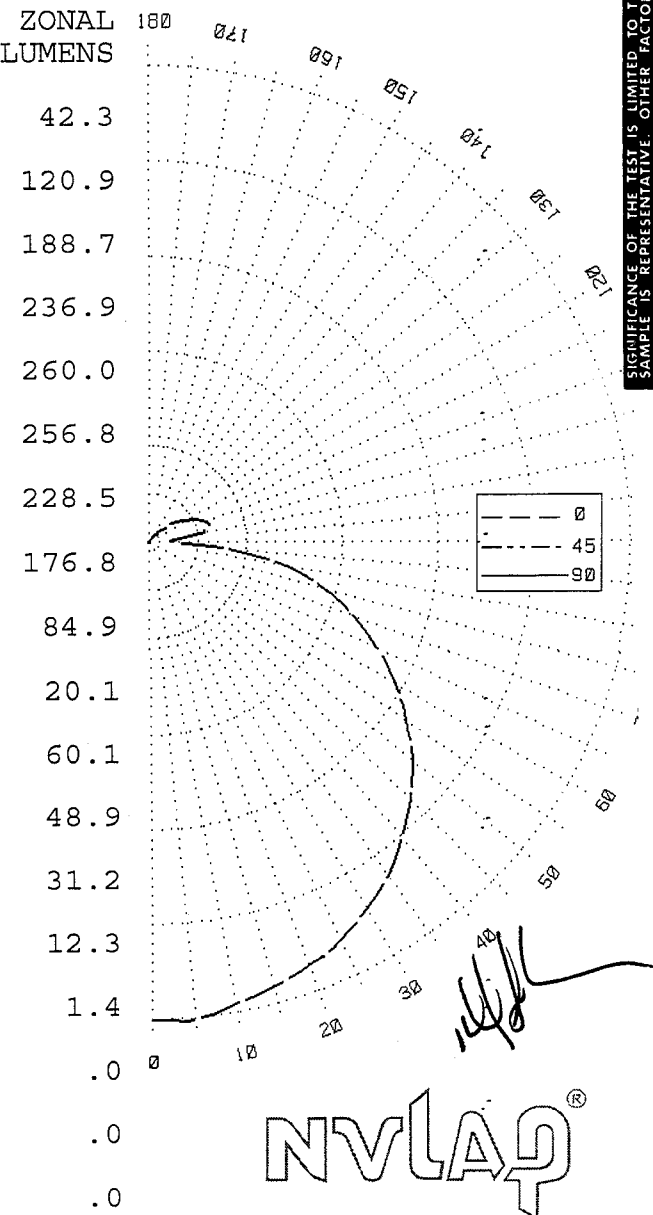


BALLABS CERTIFIED TEST REPORT NO.: 19166.0 DATE 11/17/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-12LED 6"ARRAYS 26"DIA WHT.WAL RING PENDANT LUMINAIRE
WHITE REFL w/1 PIECE .125"THK VIRGIN WHITE ACRYLIC INNER
BTM LENS 2 ROAL STRATO #RSLD035-7A
CATALOG NBR: P6326-35LO
LAMP TYPE : M350C835D12N06STC
CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	442.
5	443.
10	434.
15	426.
20	417.
25	408.
30	393.
35	377.
40	357.
45	336.
50	313.
55	286.
60	260.
65	230.
70	201.
75	167.
80	130.
85	78.
90	24.
95	18.
100	47.
105	57.
110	54.
115	49.
120	41.
125	35.
130	26.
135	16.
140	11.
145	2.
150	0.
155	0.
160	0.
165	0.
170	0.
175	0.
180	0.



LUMEN SUMMARY				NVLAP LAB CODE 200921-0			
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	352.	NA.	19.9	90-120	129.	NA.	7.3
0- 40	589.	NA.	33.3	90-130	160.	NA.	9.1
0- 60	1106.	NA.	62.5	90-150	174.	NA.	9.8
0- 90	1596.	NA.	90.2	90-180	174.	NA.	9.8
TOTAL LUMINAIRE =				0-180	1770.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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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

VERT
 ANGLE
 45 1335.
 55 1385.
 65 1481.
 75 1679.
 85 1916.

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	1.17	1.17	1.17	1.17	1.13	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.90
1	1.05	1.00	.95	.91	1.02	.97	.93	.89	.91	.87	.84	.85	.82	.80	.80	.78	.76	.73
2	.95	.86	.79	.73	.91	.84	.77	.71	.78	.73	.68	.74	.69	.65	.69	.65	.62	.59
3	.87	.75	.67	.60	.83	.73	.65	.59	.69	.62	.57	.65	.59	.54	.61	.56	.52	.50
4	.79	.66	.57	.50	.76	.64	.56	.49	.61	.53	.48	.57	.51	.46	.54	.49	.44	.42
5	.72	.58	.49	.42	.69	.57	.48	.41	.53	.46	.40	.50	.44	.39	.47	.42	.37	.35
6	.66	.52	.43	.36	.63	.50	.42	.35	.48	.40	.34	.45	.38	.33	.42	.37	.32	.30
7	.60	.46	.37	.31	.58	.45	.37	.31	.43	.35	.30	.40	.34	.29	.38	.32	.28	.26
8	.56	.42	.33	.27	.53	.40	.32	.26	.38	.31	.25	.36	.30	.25	.34	.28	.24	.22
9	.51	.37	.29	.23	.49	.36	.28	.23	.34	.27	.22	.32	.26	.21	.31	.25	.21	.19
10	.48	.34	.26	.20	.46	.33	.25	.20	.31	.24	.19	.30	.23	.19	.28	.22	.18	.16

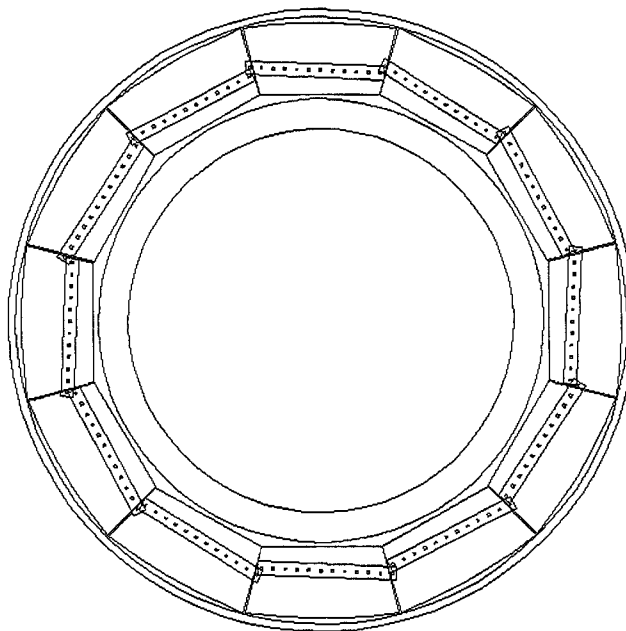
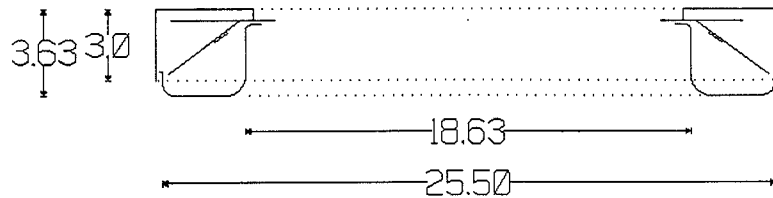
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

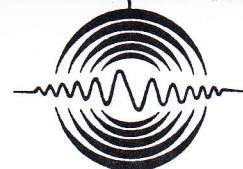
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BTM LENS 2 ROAL STRATO #RSLD035-7A
CATALOG NBR: P6326-35LO
LAMP TYPE : M350C835D12N06STC

ELECTRICAL CHARACTERISTICS 120.0V .2518A 27.959W

LUMINOUS EFFICACY (LUMENS / WATTS) = 63.3

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



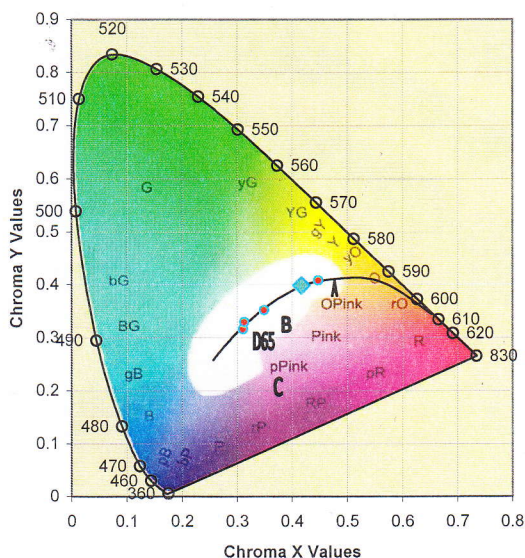


BALLABS CERTIFIED TEST REPORT NO.: 19166.0 A DATE 11/17/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
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BTM LENS 2 ROAL STRATO #RSLD035-7A
CATALOG NBR: P6326-35LO
LAMP TYPE : M350C835D12N06STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.2518
INPUT WATTS (W)	27.959
POWER FACTOR	0.9251
THDv (%)	0.1594%
THDi (%)	24.4690%
LUMINOUS EFFICACY-LPW	63.3
LUMINOUS FLUX- LUMENS	1771
CHROMA x	0.4169
CHROMA y	0.3984
CHROMA u	0.2401
CHROMA v	0.3441
DELTA uv (Duv)	0.0009
CORR COLOR TEMP (K)	3317
COLOR REND INDEX (RA)	84.90
COLOR REND INDEX (R9)	24

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.1336	610	32.0527
360	0.1234	620	30.6723
370	0.1124	630	28.3770
380	0.1134	640	25.3677
390	0.1010	650	21.9890
400	0.1283	660	18.5024
410	0.2389	670	15.0986
420	0.7969	680	12.1350
430	3.1051	690	9.5008
440	9.8303	700	7.2855
450	22.7470	710	5.4899
460	14.4345	720	4.0706
470	9.8957	730	2.9873
480	8.3076	740	2.2210
490	10.4549	750	1.6612
500	13.3568	760	1.2422
510	15.6781	770	0.9259
520	17.4639	780	0.6795
530	19.3099	790	0.5083
540	21.4769	800	0.3791
550	23.8965	810	0.2870
560	26.2609	820	0.2210
570	28.2681	830	0.1654
580	30.1080	840	0.1235
590	31.4896	850	0.1005
600	32.3308		

Chromaticity Diagram CIE 1931 2 Degree



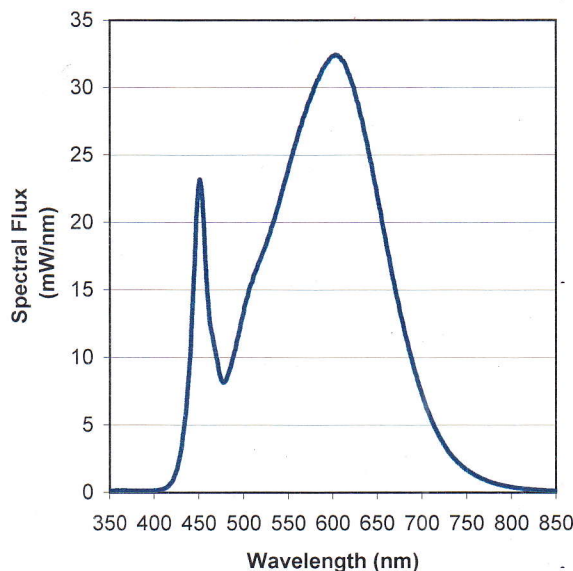
Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



[Signature]

Kelly C. Lerbs
Vice President

NVLAP LAB CODE 200921-0



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