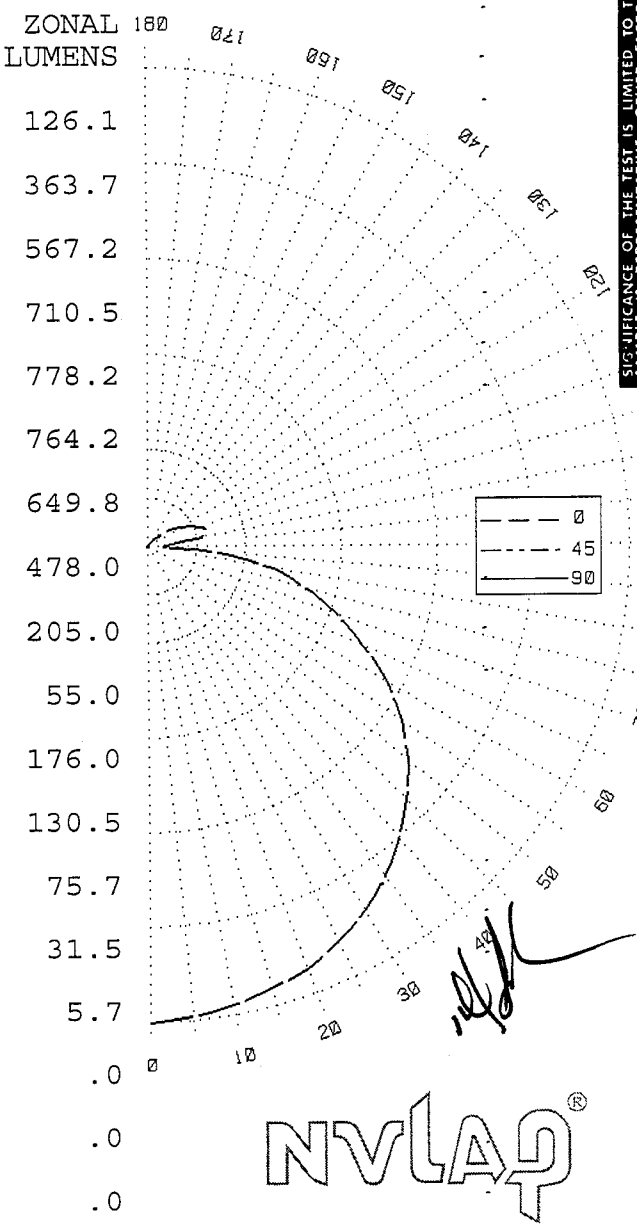


BALLABS CERTIFIED TEST REPORT NO.: 19185.0 DATE 12/02/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 16-24LED 6"ARRAYS 38"DIA WHT.WAL RING PENDANT LUMINAIRE
WHITE REFL w/1 PIECE .125"THK VIRGIN WHITE ACRYLIC INNER
BTM LENS 4 ROAL STRATO #RSLD035-03
CATALOG NBR: P6338-40HI
LAMP TYPE : M700C840D24N06STC
CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	1334.
5	1321.
10	1304.
15	1283.
20	1259.
25	1225.
30	1182.
35	1131.
40	1072.
45	1005.
50	934.
55	852.
60	761.
65	655.
70	556.
75	452.
80	347.
85	188.
90	41.
95	50.
100	152.
105	166.
110	155.
115	132.
120	108.
125	84.
130	59.
135	41.
140	25.
145	9.
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	1057.	NA.	20.7	90-120	361.	NA.	7.1
0- 40	1768.	NA.	34.5	90-130	437.	NA.	8.5
0- 60	3310.	NA.	64.7	90-150	474.	NA.	9.3
0- 90	4643.	NA.	90.7	90-180	474.	NA.	9.3
TOTAL LUMINAIRE =				0-180	5117.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT
 ANGLE

0

45	1913.
55	1981.
65	2037.
75	2224.
85	2387.

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	.94	.94	.94	.91
1	1.06	1.01	.96	.92	1.02	.98	.93	.90	.92	.88	.85	.86	.83	.81	.81	.79	.77	.74
2	.96	.87	.80	.74	.92	.85	.78	.72	.79	.74	.69	.75	.70	.66	.70	.67	.64	.61
3	.87	.76	.68	.61	.84	.74	.66	.60	.70	.63	.58	.66	.60	.56	.62	.58	.54	.51
4	.80	.67	.58	.51	.77	.65	.57	.51	.62	.55	.49	.58	.52	.47	.55	.50	.46	.43
5	.72	.59	.50	.43	.70	.57	.49	.42	.54	.47	.41	.51	.45	.40	.48	.43	.38	.36
6	.66	.53	.43	.37	.64	.51	.43	.36	.48	.41	.35	.46	.39	.34	.43	.38	.33	.31
7	.61	.47	.38	.32	.59	.46	.37	.31	.43	.36	.30	.41	.35	.30	.39	.33	.29	.27
8	.56	.42	.33	.27	.54	.41	.33	.27	.39	.31	.26	.37	.30	.25	.35	.29	.25	.23
9	.52	.38	.29	.24	.50	.37	.29	.23	.35	.28	.23	.33	.27	.22	.31	.26	.21	.19
10	.48	.34	.26	.21	.46	.33	.26	.20	.32	.25	.20	.30	.24	.19	.29	.23	.19	.17

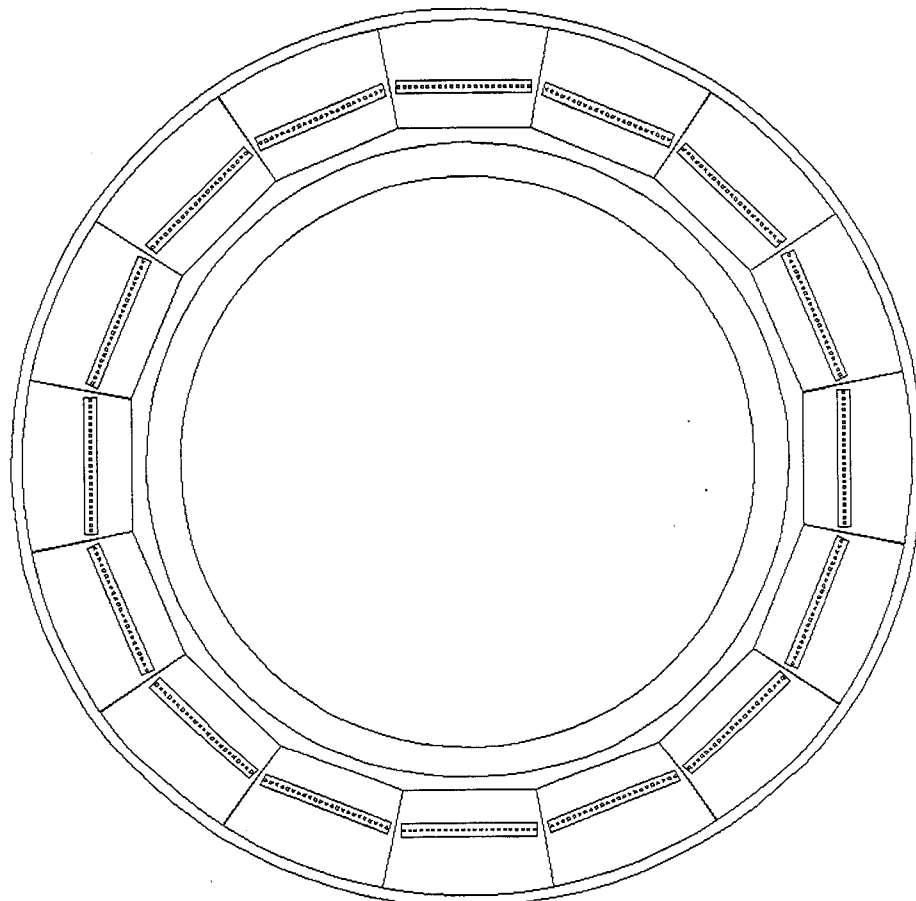
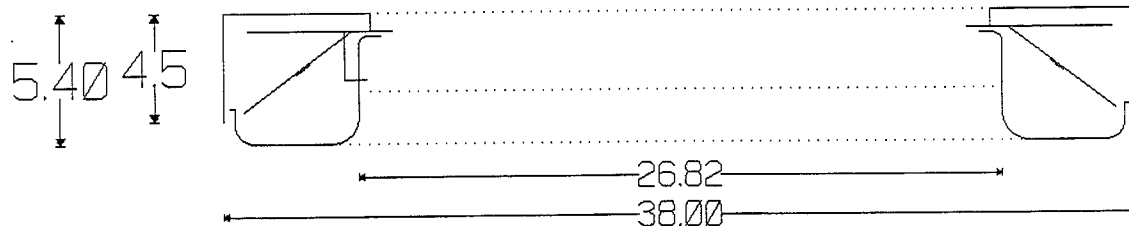
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

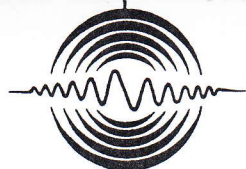
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 BTM LENS 4 ROAL STRATO #RSLD035-03
 CATALOG NBR: P6338-40HI
 LAMP TYPE : M700C840D24N06STC

ELECTRICAL CHARACTERISTICS 120.0V .6328A 71.515W

LUMINOUS EFFICACY (LUMENS / WATTS) = 71.6

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

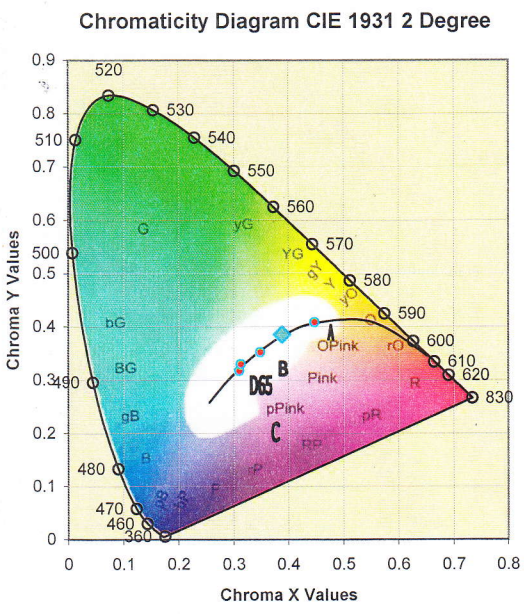




BALLABS CERTIFIED TEST REPORT NO.: 19185.0 A DATE 12/02/15
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CATALOG NBR: P6338-40HI
LAMP TYPE : M700C840D24N06STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.6328
INPUT WATTS (W)	71.515
POWER FACTOR	0.9416
THDv (%)	0.2082%
THDi (%)	23.5110%
LUMINOUS EFFICACY-LPW	71.6
LUMINOUS FLUX- LUMENS	5117
CHROMA x	0.3885
CHROMA y	0.3843
CHROMA u	0.2274
CHROMA v	0.3374
DELTA uv (Duv)	0.001
CORR COLOR TEMP (K)	3843
COLOR REND INDEX (RA)	85.71
COLOR REND INDEX (R9)	26.8

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.4183	610	84.4785
360	0.4469	620	79.8033
370	0.4790	630	72.9024
380	0.4176	640	64.3961
390	0.4246	650	54.9631
400	0.4443	660	45.3369
410	0.6441	670	36.3396
420	1.9919	680	29.0295
430	7.4527	690	22.7419
440	24.1729	700	17.5373
450	69.2155	710	13.3103
460	76.3707	720	9.9622
470	47.9110	730	7.3038
480	34.7072	740	5.4556
490	37.3714	750	4.1072
500	43.6352	760	3.0951
510	49.8653	770	2.3048
520	54.6284	780	1.7059
530	59.6338	790	1.2900
540	65.4606	800	0.9470
550	71.5015	810	0.7218
560	76.8213	820	0.5604
570	81.0740	830	0.4249
580	84.4480	840	0.3492
590	86.5151	850	0.2491
600	86.7847		

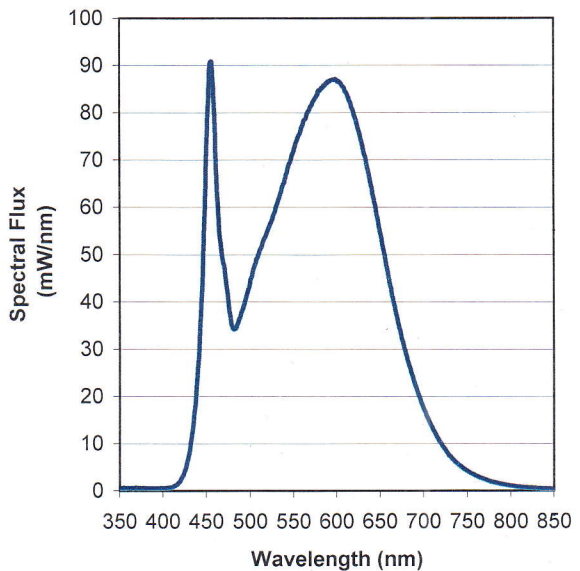


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0


Kelly C. Lerbs
Vice President



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