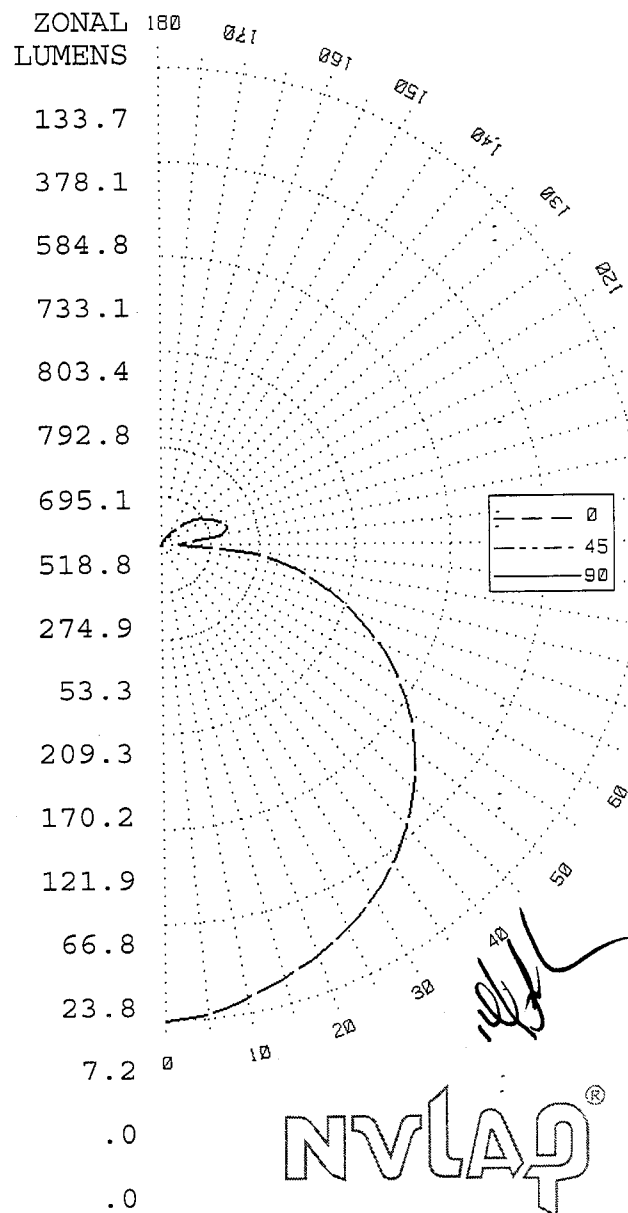


BALLABS CERTIFIED TEST REPORT NO.: 19187.0 DATE 12/03/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-48LED 11.625"ARRAYS 48"DIA WHT.WAL PENDANT LUMINAIRE
WHITE REFL w/1 PIECE .125"THK VIRGIN WHITE ACRYLIC INNER
BTM LENS 4 ROAL STRATO #RSLD035-6A

CATALOG NBR: P6348-35HI
LAMP TYPE : M700C835D48N12STC
CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	1414.
5	1400.
10	1367.
15	1334.
20	1301.
25	1264.
30	1219.
35	1167.
40	1105.
45	1037.
50	962.
55	884.
60	794.
65	700.
70	597.
75	490.
80	387.
85	252.
90	54.
95	49.
100	177.
105	198.
110	187.
115	171.
120	152.
125	136.
130	114.
135	86.
140	60.
145	38.
150	30.
155	16.
160	4.
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	1097.	NA.	19.7	90-120	433.	NA.	7.8
0- 40	1830.	NA.	32.9	90-130	555.	NA.	10.0
0- 60	3426.	NA.	61.5	90-150	645.	NA.	11.6
0- 90	4915.	NA.	88.3	90-180	652.	NA.	11.7

TOTAL LUMINAIRE = 0-180 5567. NA. 100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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 LAMP TYPE : M700C835D48N12STC

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE
 0

VERT
 ANGLE
 45 1266.
 55 1320.
 65 1403.
 75 1564.
 85 2126.

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	.86	.83	.84	.81	.79	.79	.76	.74	.71			
2	.95	.86	.79	.73	.91	.83	.77	.71	.78	.72	.67	.73	.68	.64	.68	.64	.61	.58			
3	.86	.75	.67	.60	.83	.73	.65	.59	.68	.62	.56	.64	.58	.54	.60	.55	.52	.49			
4	.79	.66	.57	.50	.75	.64	.56	.49	.60	.53	.48	.57	.51	.46	.53	.48	.44	.41			
5	.72	.58	.49	.42	.69	.56	.48	.41	.53	.46	.40	.50	.43	.38	.47	.41	.37	.34			
6	.66	.52	.43	.36	.63	.50	.42	.35	.47	.40	.34	.44	.38	.33	.42	.36	.32	.29			
7	.60	.46	.37	.31	.58	.45	.37	.31	.42	.35	.30	.40	.33	.29	.38	.32	.27	.25			
8	.56	.42	.33	.27	.53	.40	.32	.26	.38	.31	.25	.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			

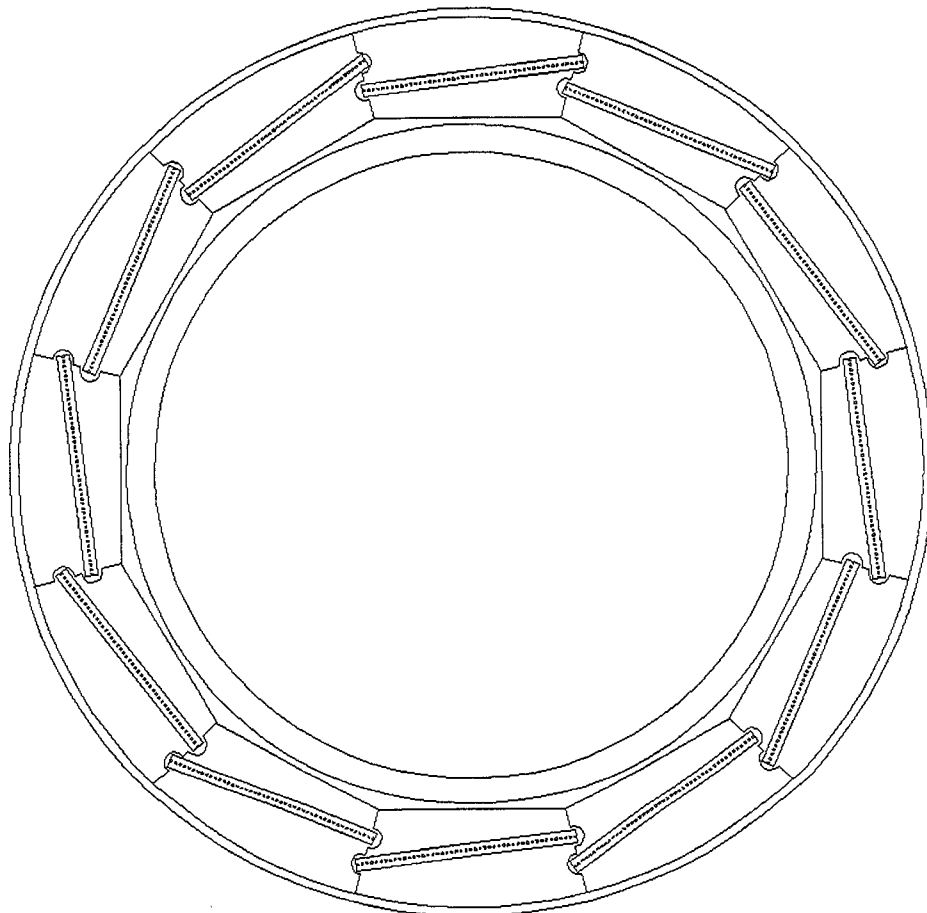
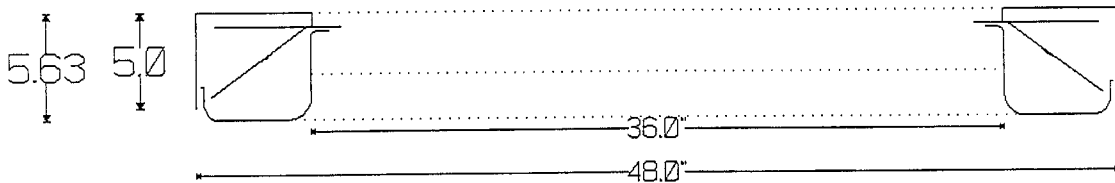
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

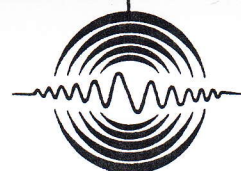
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BTM LENS 4 ROAL STRATO #RSLD035-6A
CATALOG NBR: P6348-35HI
LAMP TYPE : M700C835D48N12STC

ELECTRICAL CHARACTERISTICS 120.0V .8391A 96.107W

LUMINOUS EFFICACY (LUMENS / WATTS) = 57.9

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





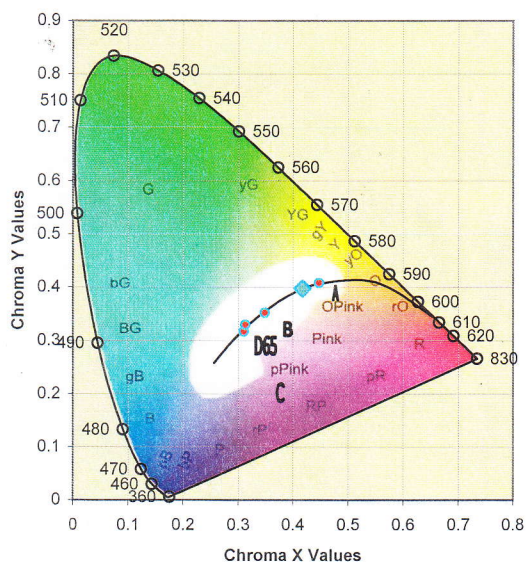
BALLABS CERTIFIED TEST REPORT NO.: 19187.0 A DATE 12/03/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
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BTM LENS 4 ROAL STRATO #RSLD035-6A

CATALOG NBR: P6348-35HI
LAMP TYPE : M700C835D48N12STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.8391
INPUT WATTS (W)	96.107
POWER FACTOR	0.9543
THDv (%)	0.2361%
THDi (%)	21.9960%
LUMINOUS EFFICACY-LPW	57.9
LUMINOUS FLUX- LUMENS	5567
CHROMA x	0.4174
CHROMA y	0.3969
CHROMA u	0.241
CHROMA v	0.3437
DELTA uv (Duv)	0.0002
CORR COLOR TEMP (K)	3295
COLOR REND INDEX (RA)	85.88
COLOR REND INDEX (R9)	27.8

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.7863	610	102.3549
360	0.7416	620	98.0225
370	0.7624	630	90.7754
380	0.7842	640	81.2539
390	0.6710	650	70.8628
400	0.6155	660	59.3555
410	0.7184	670	48.5077
420	1.8949	680	39.1827
430	7.1631	690	30.7491
440	22.9842	700	23.6738
450	62.9237	710	17.9219
460	57.8849	720	13.3392
470	39.3192	730	9.7785
480	30.0227	740	7.2510
490	34.8595	750	5.4778
500	42.1944	760	4.1146
510	48.9027	770	3.0641
520	54.2578	780	2.2522
530	59.5578	790	1.6853
540	66.5453	800	1.2543
550	73.9640	810	0.9728
560	81.3389	820	0.7467
570	88.3520	830	0.5635
580	94.5385	840	0.4486
590	99.4303	850	0.3493
600	102.5983		

Chromaticity Diagram CIE 1931 2 Degree

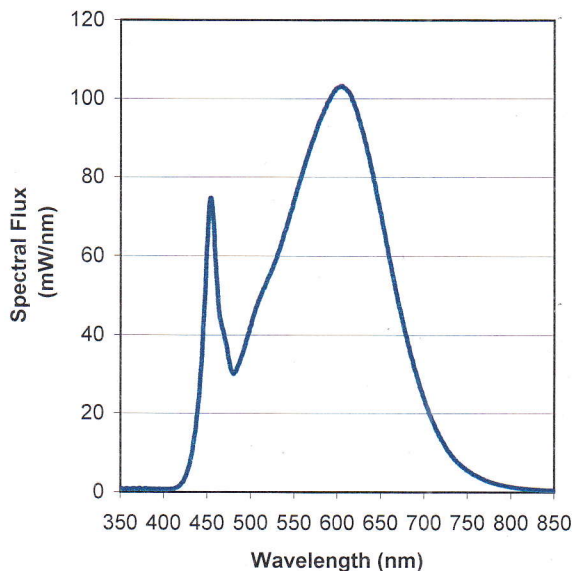


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



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.