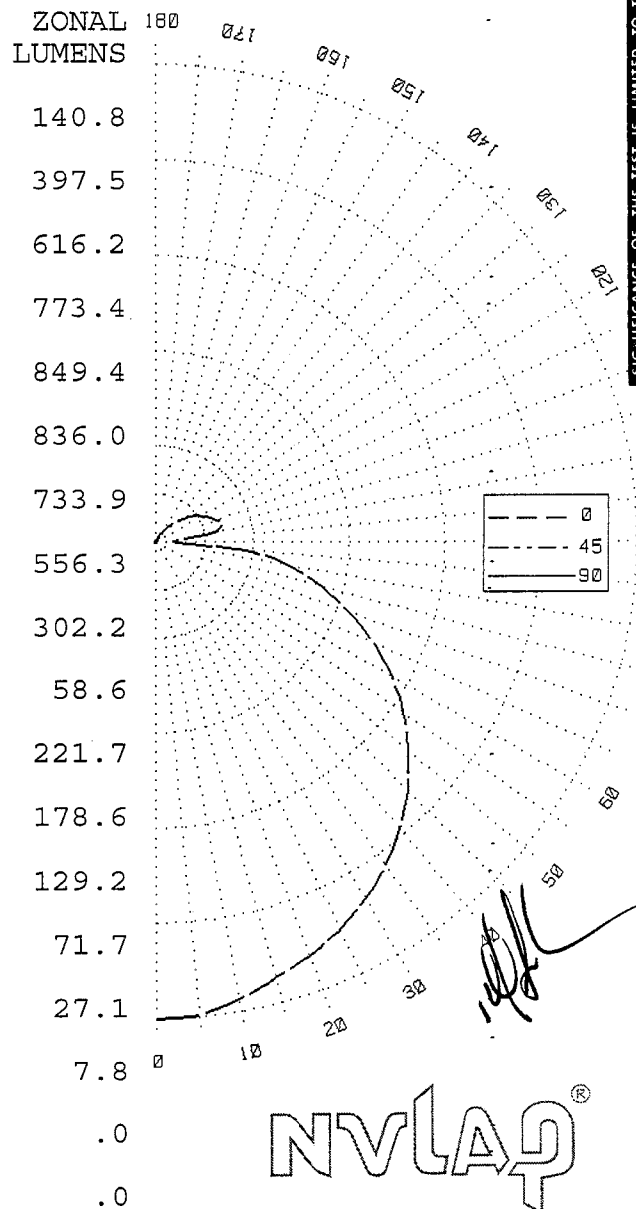


BALLABS CERTIFIED TEST REPORT NO.: 19188.0 DATE 12/04/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-48LED 11.625"ARRAYS 48"DIA WHT.WAL PENDANT LUMINAIRE
WHITE REFL w/1 PIECE .125"THK VIRGIN WHITE ACRYLIC INNER
BTM LENS 4 ROAL STRATO #RSLD035-6A

CATALOG NBR: P6348-40HI
LAMP TYPE : M700C840D48N12STC
CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	1483.
5	1475.
10	1441.
15	1402.
20	1367.
25	1331.
30	1284.
35	1231.
40	1168.
45	1097.
50	1016.
55	932.
60	841.
65	739.
70	633.
75	526.
80	417.
85	277.
90	60.
95	54.
100	180.
105	210.
110	198.
115	180.
120	161.
125	144.
130	119.
135	93.
140	65.
145	43.
150	31.
155	17.
160	7.
165	0.
170	0.
175	0.
180	0.



NVLAP®

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1154.	NA.	19.6	90-120	459.	NA.	7.8
0- 40	1928.	NA.	32.7	90-130	588.	NA.	10.0
0- 60	3613.	NA.	61.2	90-150	687.	NA.	11.6
0- 90	5206.	NA.	88.2	90-180	695.	NA.	11.8

TOTAL LUMINAIRE = 0-180 5900. 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.

BALLABS CERTIFIED TEST REPORT NO.: 19188.0 DATE 12/04/15
 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: P6348-40HI
 LAMP TYPE : M700C840D48N12STC

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT
 ANGLE

0

45	1338.
55	1392.
65	1481.
75	1677.
85	2338.

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	.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	.91	.91	.91	.88
1	1.05	1.00	.95	.90	1.01	.96	.92	.88	.90	.86	.83	.84	.81	.78	.78	.76	.74	.76	.74	.74	.71
2	.95	.86	.79	.72	.91	.83	.76	.71	.78	.72	.67	.72	.68	.64	.68	.64	.61	.68	.64	.61	.58
3	.86	.75	.67	.60	.83	.73	.65	.59	.68	.62	.56	.64	.58	.54	.60	.55	.51	.58	.54	.51	.49
4	.79	.66	.57	.50	.75	.64	.56	.49	.60	.53	.47	.56	.50	.45	.53	.48	.44	.50	.48	.44	.41
5	.71	.58	.49	.42	.68	.56	.48	.41	.53	.45	.40	.50	.43	.38	.47	.41	.37	.45	.41	.37	.34
6	.66	.52	.43	.36	.63	.50	.42	.35	.47	.40	.34	.44	.38	.33	.42	.36	.32	.42	.36	.32	.29
7	.60	.46	.37	.31	.58	.45	.36	.30	.42	.35	.29	.40	.33	.28	.37	.32	.27	.37	.32	.27	.25
8	.55	.42	.33	.27	.53	.40	.32	.26	.38	.31	.25	.36	.29	.24	.34	.28	.24	.32	.28	.24	.21
9	.51	.37	.29	.23	.49	.36	.28	.23	.34	.27	.22	.32	.26	.21	.30	.24	.20	.29	.24	.20	.18
10	.47	.34	.26	.20	.46	.33	.25	.20	.31	.24	.19	.29	.23	.19	.28	.22	.18	.26	.22	.18	.16

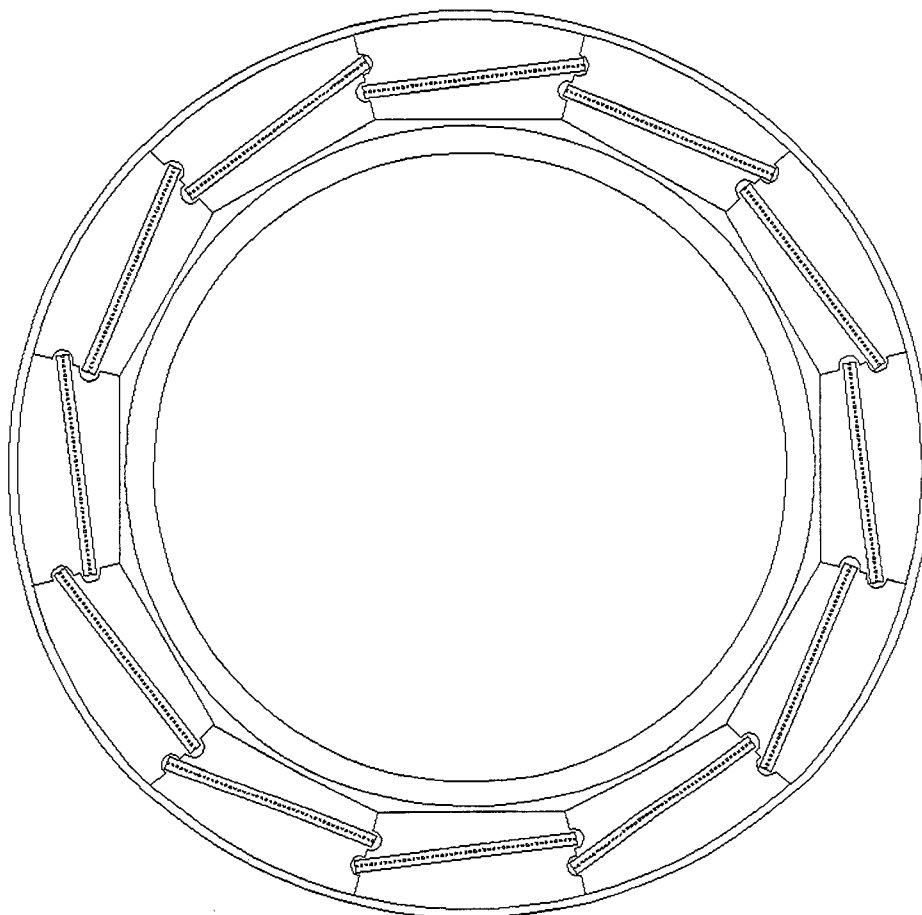
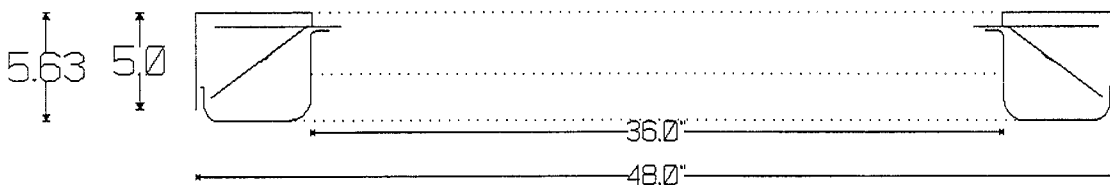
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

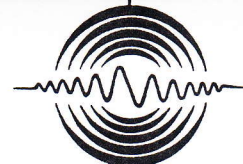
BALLABS CERTIFIED TEST REPORT NO.: 19188.0 DATE 12/04/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-48LED 11.625"ARRAYS 48"DIA WHT.WAL PENDANT LUMINAIRE
WHITE REFL w/1 PIECE .125"THK VIRGIN WHITE ACRYLIC INNER
BTM LENS 4 ROAL STRATO #RSLD035-6A
CATALOG NBR: P6348-40HI
LAMP TYPE : M700C840D48N12STC

ELECTRICAL CHARACTERISTICS 120.0V .8509A 97.783W

LUMINOUS EFFICACY (LUMENS / WATTS) = 60.3

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





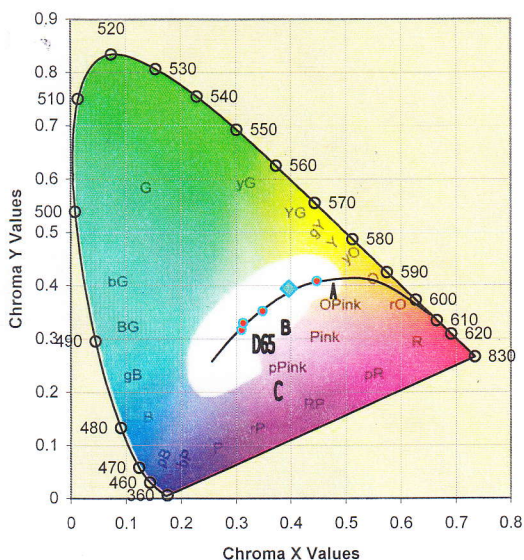
BALLABS CERTIFIED TEST REPORT NO.: 19188.0 A DATE 12/04/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-48LED 11.625"ARRAYS 48"DIA WHT.WAL PENDANT LUMINAIRE
WHITE REFL w/1 PIECE .125"THK VIRGIN WHITE ACRYLIC INNER
BTM LENS 4 ROAL STRATO #RSLD035-6A

CATALOG NBR: P6348-40HI
LAMP TYPE : M700C840D48N12STC

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	0.8509
INPUT WATTS (W)	97.783
POWER FACTOR	0.9577
THDv (%)	0.2249%
THDi (%)	21.0260%
LUMINOUS EFFICACY-LPW	60.3
LUMINOUS FLUX- LUMENS	5900
CHROMA x	0.3968
CHROMA y	0.3937
CHROMA u	0.229
CHROMA v	0.3408
DELTA uv (Duv)	0.0028
CORR COLOR TEMP (K)	3713
COLOR REND INDEX (RA)	82.70
COLOR REND INDEX (R9)	18.9

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.9930	610	96.8663
360	1.0028	620	91.2904
370	0.8385	630	83.9057
380	1.0486	640	74.6868
390	1.0142	650	64.9090
400	1.2530	660	54.3726
410	1.9696	670	44.4569
420	7.7120	680	35.9631
430	31.2121	690	28.3344
440	80.6144	700	21.9346
450	65.5753	710	16.6422
460	32.5265	720	12.4548
470	20.0738	730	9.1107
480	24.2378	740	6.8379
490	36.5022	750	5.1828
500	49.9715	760	3.9078
510	59.1645	770	2.9286
520	65.5200	780	2.1960
530	71.0726	790	1.6205
540	77.7984	800	1.2182
550	84.3670	810	0.9275
560	89.9736	820	0.7275
570	94.1546	830	0.5643
580	97.0936	840	0.4185
590	98.8949	850	0.3559
600	98.8454		

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

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.

