

BALLABS CERTIFIED TEST REPORT NO.: 20152.0 DATE 12/13/17
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 8-24 LED 6"ARRAYS 18"DIA WAF.R PENDANT LUMINAIRE
WHITE REFL w/WHITE ACRYLIC DIFFUSER & 15, 1"DIA CLEAR
ACRYLIC PLUGS IN TOP ROAL STRATO #RSLD035-11A
CATALOG NBR: P5518-40HI-10UP
LAMP TYPE : LM-700-06-40K

CANDLEPOWER DISTRIBUTION

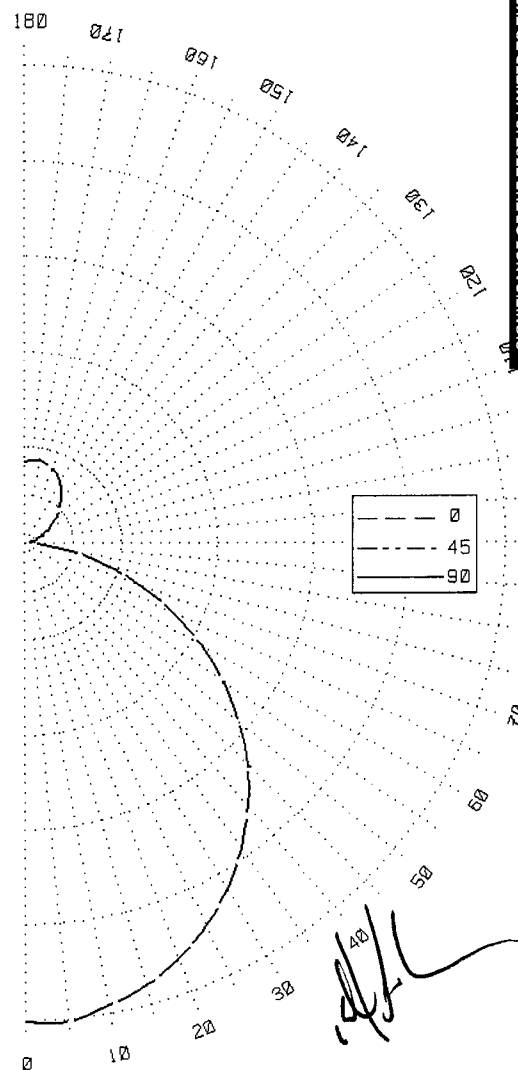
VERT
ANG

AVERAGE CANDELA

0	1133.
5	1127.
10	1113.
15	1085.
20	1050.
25	1005.
30	949.
35	885.
40	815.
45	741.
50	658.
55	571.
60	478.
65	384.
70	291.
75	205.
80	125.
85	60.
90	21.
95	15.
100	13.
105	18.
110	32.
115	46.
120	63.
125	84.
130	100.
135	118.
140	133.
145	152.
150	166.
155	181.
160	188.
165	195.
170	201.
175	196.
180	194.

ZONAL
LUMENS

107.6
307.7
465.2
556.2
574.2
512.2
381.2
217.2
65.5
16.5
19.4
46.0
74.9
91.1
95.6
83.6
55.3
18.7



NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	881.	NA.	23.9	90-120	82.	NA.	2.2
0- 40	1437.	NA.	39.0	90-130	157.	NA.	4.3
0- 60	2523.	NA.	68.4	90-150	344.	NA.	9.3
0- 90	3187.	NA.	86.4	90-180	501.	NA.	13.6
TOTAL LUMINAIRE =				0-180	3688.	NA.	100.0

IES SPACING CRITERIA: ADJACENT= 1.2 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.: 20152.0 DATE 12/13/17
 PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
 DESCRIPTION: 8-24 LED 6"ARRAYS 18"DIA WAF.R PENDANT LUMINAIRE
 WHITE REFL w/WHITE ACRYLIC DIFFUSER & 15, 1"DIA CLEAR
 ACRYLIC PLUGS IN TOP ROAL STRATO #RSLD035-11A
 CATALOG NBR: P5518-40HI-10UP
 LAMP TYPE : LM-700-06-40K

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT
 ANGLE
 45 6082.
 55 5613.
 65 4895.
 75 3889.
 85 2353.

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	1.04	1.04	1.04	.96	.96	.96	.90	.90	.90	.86			
1	1.06	1.02	.98	.94	1.02	.98	.95	.92	.92	.89	.86	.86	.83	.81	.80	.78	.77	.74			
2	.97	.90	.83	.78	.94	.87	.81	.76	.81	.76	.72	.76	.72	.69	.71	.68	.65	.62			
3	.89	.79	.72	.66	.86	.77	.70	.64	.72	.66	.61	.68	.63	.59	.63	.59	.56	.54			
4	.82	.70	.62	.56	.78	.68	.61	.55	.64	.58	.53	.60	.55	.51	.57	.52	.48	.46			
5	.75	.62	.54	.47	.72	.60	.52	.47	.57	.50	.45	.53	.48	.43	.50	.45	.41	.39			
6	.69	.56	.47	.41	.66	.54	.46	.40	.51	.44	.39	.48	.42	.38	.45	.40	.36	.34			
7	.63	.50	.42	.36	.61	.49	.41	.35	.46	.39	.34	.43	.37	.33	.41	.36	.32	.29			
8	.58	.45	.37	.31	.56	.44	.36	.30	.41	.34	.29	.39	.33	.28	.37	.31	.27	.25			
9	.54	.40	.32	.27	.52	.39	.32	.26	.37	.30	.26	.35	.29	.25	.33	.28	.24	.22			
10	.50	.37	.29	.24	.48	.36	.28	.23	.34	.27	.23	.32	.26	.22	.30	.25	.21	.19			

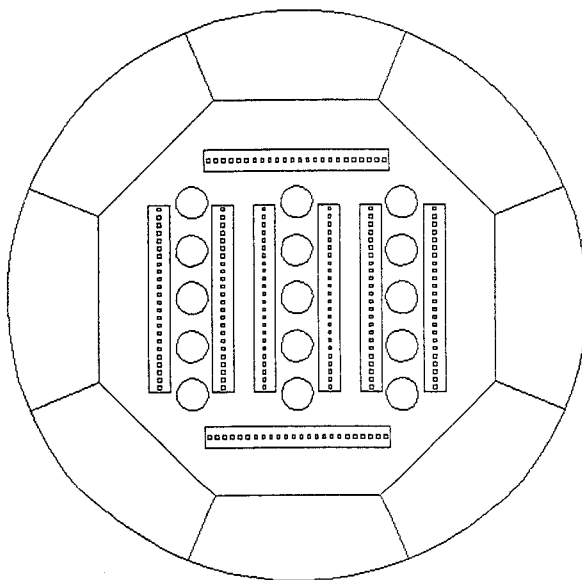
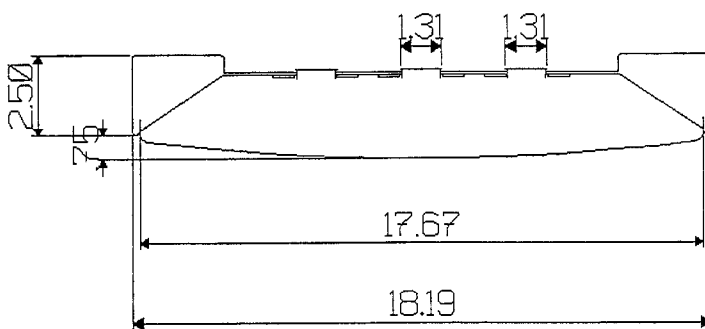
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

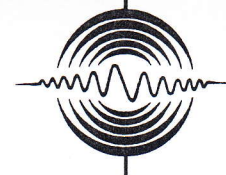
BALLABS CERTIFIED TEST REPORT NO.: 20152.0 DATE 12/13/17
 PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
 DESCRIPTION: 8-24 LED 6"ARRAYS 18"DIA WAF.R PENDANT LUMINAIRE
 WHITE REFL w/WHITE ACRYLIC DIFFUSER & 15, 1"DIA CLEAR
 ACRYLIC PLUGS IN TOP ROAL STRATO #RSLD035-11A
 CATALOG NBR: P5518-40HI-10UP
 LAMP TYPE : LM-700-06-40K

ELECTRICAL CHARACTERISTICS 120.02V .3478A 40.795W

LUMINOUS EFFICACY (LUMENS / WATTS) = 90.4

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

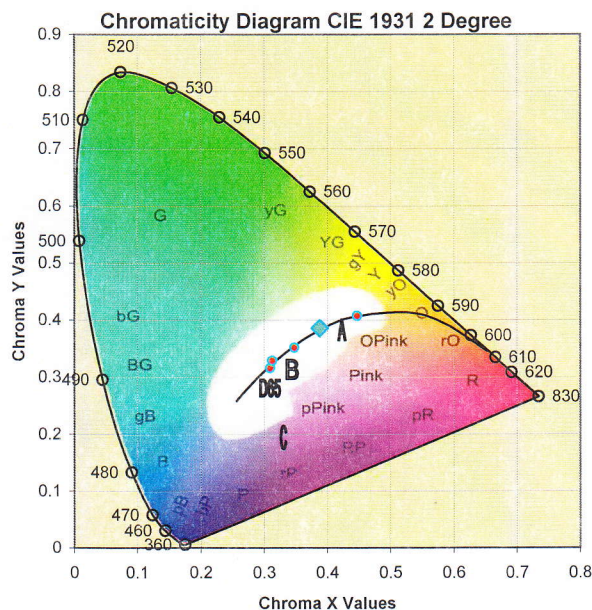




BALLABS CERTIFIED TEST REPORT NO.: 20152.0 A DATE 12/13/17
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 8-24 LED 6"ARRAYS 18"DIA WAF.R PENDANT LUMINAIRE
WHITE REFL w/WHITE ACRYLIC DIFFUSER & 15, 1"DIA CLEAR
ACRYLIC PLUGS IN TOP ROAL STRATO #RSLD035-11A
CATALOG NBR: P5518-40HI-10UP
LAMP TYPE : LM-700-06-40K

INPUT VOLTAGE (V)	120.02
INPUT CURRENT (A)	0.3478
INPUT WATTS (W)	40.7950
POWER FACTOR	0.9772
THDv (%)	0.123
THDi (%)	15.341
LUMINOUS EFFICACY-LPW	90.4
LUMINOUS FLUX- LUMENS	3688
CHROMA x	0.3888
CHROMA y	0.3861
CHROMA u	0.2268
CHROMA v	0.5069
DELTA uv (Duv)	0.0020
CORR COLOR TEMP (K)	3852
COLOR REND INDEX (RA)	83.23
COLOR REND INDEX (R9)	8.6

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.2839	610	61.5420
360	0.3202	620	56.1935
370	0.2774	630	49.4778
380	0.3133	640	42.0077
390	0.3149	650	34.4664
400	0.3950	660	27.3928
410	0.7479	670	20.8461
420	2.6665	680	15.8777
430	9.0051	690	12.1080
440	24.3712	700	9.0697
450	57.5106	710	6.7570
460	42.4250	720	4.9722
470	27.5290	730	3.6841
480	20.5799	740	2.6907
490	24.2182	750	2.0118
500	31.3463	760	1.5218
510	36.8186	770	1.1448
520	40.6715	780	0.8622
530	43.9434	790	0.6369
540	47.3084	800	0.4993
550	50.9765	810	0.3734
560	54.8252	820	0.2952
570	58.5613	830	0.2305
580	61.9093	840	0.1707
590	64.3163	850	0.1453
600	64.5380		

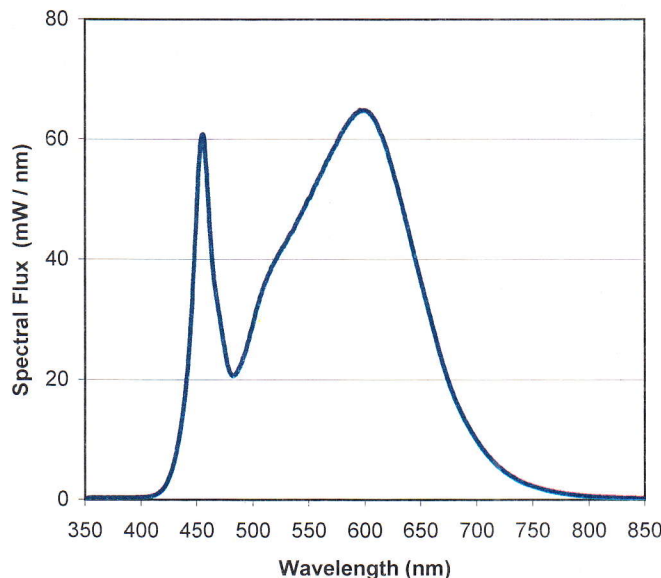


Data collected utilizing a Labsphere integrating sphere and 2100 spectroradiometer. Calibration of the spectroradiometer-sphere is traceable to the National Institute of Standards and Technology.



NVLAP LAB CODE 200921-0

Kelly C. Lerbs
Vice President



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.