

BALLABS CERTIFIED TEST REPORT NO.: 19171.0 DATE 11/24/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 4-36LED, 8-12LED, 14-24LED ARRAYS 48"DIA PENDANT WHITE REFL
90, 1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC
CONVEX BTM LENS 4 MEANWELL #LPF-40D-48

CATALOG NBR: P5548-35LO-10UP

LAMP TYPE : M350C835D36N18STC, M350C835D12N06STC, M350C835D24N12STC

CANDLEPOWER DISTRIBUTION

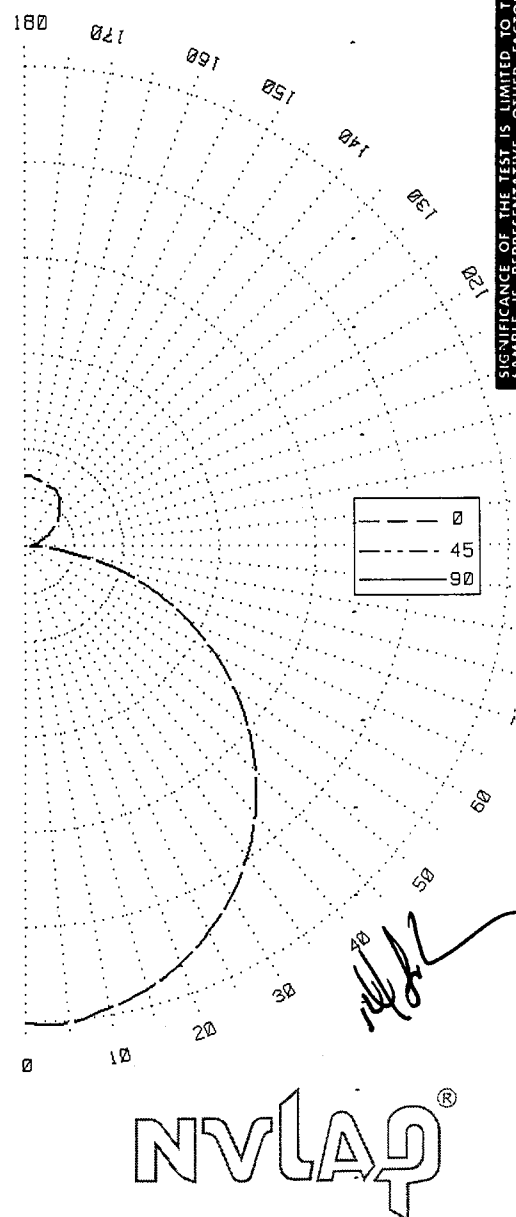
VERT
ANG

AVERAGE CANDELA

0	3001.
5	2989.
10	2951.
15	2888.
20	2799.
25	2686.
30	2552.
35	2394.
40	2217.
45	2016.
50	1807.
55	1585.
60	1351.
65	1115.
70	874.
75	633.
80	397.
85	193.
90	67.
95	34.
100	48.
105	73.
110	107.
115	146.
120	186.
125	225.
130	267.
135	301.
140	334.
145	366.
150	389.
155	401.
160	399.
165	410.
170	423.
175	438.
180	437.

ZONAL
LUMENS

285.3
818.5
1243.1
1504.1
1561.6
1422.1
1106.4
669.6
210.9
37.3
77.1
145.3
202.3
232.7
229.9
185.7
116.3
41.8



NVLAP[®]

LUMEN SUMMARY

NVLAP LAB CODE 200921-0

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2347.	NA.	23.3	90-120	260.	NA.	2.6
0- 40	3851.	NA.	38.2	90-130	462.	NA.	4.6
0- 60	6835.	NA.	67.7	90-150	925.	NA.	9.2
0- 90	8822.	NA.	87.4	90-180	1268.	NA.	12.6

TOTAL LUMINAIRE = 0-180 10090. 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 2332.
 55 2200.
 65 2011.
 75 1706.
 85 1095.
 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	1.04	1.04	1.04	.97	.97	.97	.90	.90	.90	.90	.90	.90	.87
1	1.06	1.02	.98	.94	1.02	.98	.95	.91	.92	.89	.86	.86	.84	.81	.80	.79	.77	.77	.77	.77	.74
2	.97	.89	.83	.77	.93	.86	.80	.75	.81	.76	.72	.76	.72	.68	.71	.68	.65	.65	.65	.65	.62
3	.89	.79	.71	.65	.85	.76	.69	.63	.72	.66	.61	.67	.62	.58	.63	.59	.56	.56	.56	.56	.53
4	.81	.70	.61	.55	.78	.68	.60	.54	.64	.57	.52	.60	.54	.50	.56	.52	.48	.48	.48	.48	.45
5	.74	.62	.53	.47	.71	.60	.52	.46	.56	.49	.44	.53	.47	.42	.50	.45	.41	.41	.41	.41	.39
6	.68	.55	.46	.40	.66	.54	.45	.40	.51	.43	.38	.48	.42	.37	.45	.40	.36	.36	.36	.36	.33
7	.63	.50	.41	.35	.60	.48	.40	.34	.45	.38	.33	.43	.37	.32	.41	.35	.31	.31	.31	.31	.29
8	.58	.44	.36	.30	.56	.43	.35	.30	.41	.34	.29	.39	.32	.28	.36	.31	.27	.27	.27	.27	.25
9	.53	.40	.32	.26	.51	.39	.31	.26	.37	.30	.25	.35	.28	.24	.33	.27	.23	.23	.23	.23	.21
10	.50	.36	.28	.23	.48	.35	.28	.23	.33	.27	.22	.32	.26	.21	.30	.24	.21	.21	.21	.21	.19

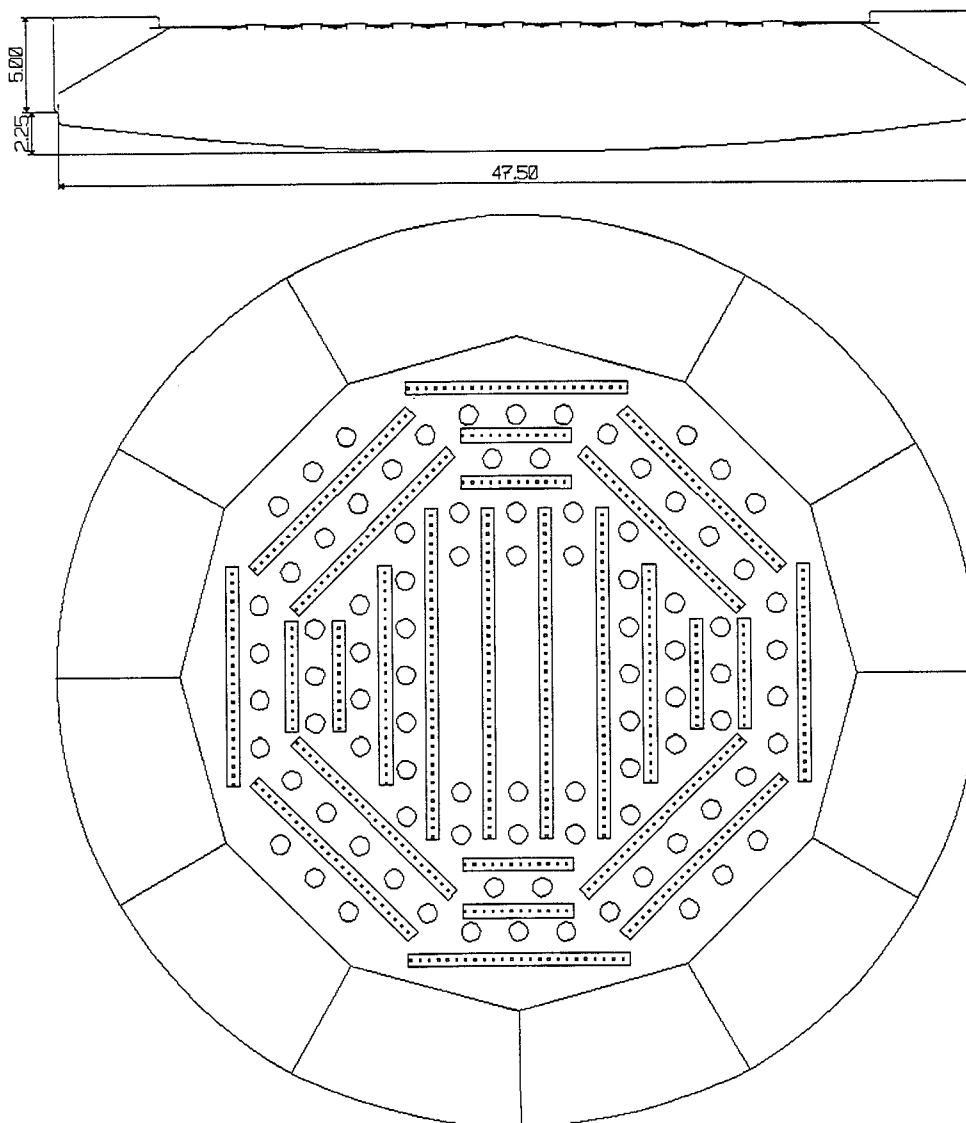
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 120.0V 1.1264A 134.09W

LUMINOUS EFFICACY (LUMENS / WATTS) = 75.2

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

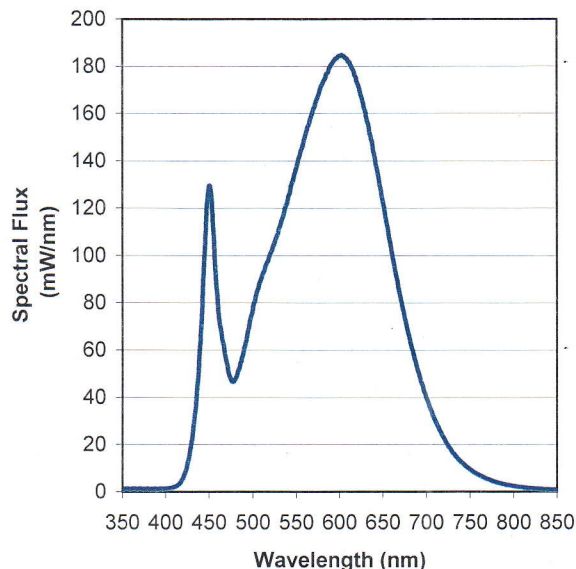
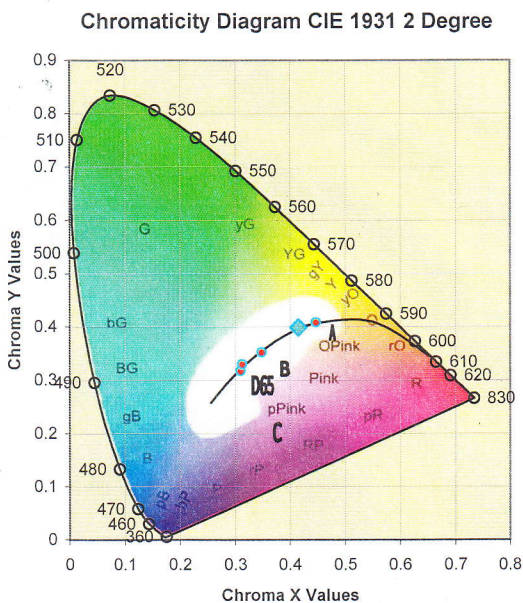




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INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	1.1264
INPUT WATTS (W)	134.090
POWER FACTOR	0.9920
THDv (%)	0.2043%
THDi (%)	7.2535%
LUMINOUS EFFICACY-LPW	75.2
LUMINOUS FLUX- LUMENS	10090
CHROMA x	0.4156
CHROMA y	0.3976
CHROMA u	0.2395
CHROMA v	0.3437
DELTA uv (Duv)	0.0002
CORR COLOR TEMP (K)	3338
COLOR REND INDEX (RA)	84.54
COLOR REND INDEX (R9)	21.9

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.8009	610	182.0380
360	0.9820	620	173.4206
370	1.0287	630	160.2254
380	0.9757	640	142.5811
390	0.9009	650	122.8356
400	1.0372	660	102.0509
410	1.7468	670	82.5617
420	5.6007	680	66.0691
430	21.1140	690	51.6080
440	62.4745	700	39.7218
450	128.4380	710	30.1104
460	80.0677	720	22.5380
470	54.8218	730	16.5304
480	47.3938	740	12.3301
490	59.7537	750	9.2297
500	76.5017	760	6.9020
510	89.9400	770	5.1540
520	99.9154	780	3.8448
530	110.3592	790	2.8509
540	122.5835	800	2.1309
550	136.2243	810	1.6799
560	149.4858	820	1.2567
570	161.5481	830	0.9477
580	172.3029	840	0.7678
590	180.2699	850	0.5727
600	184.0672		



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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