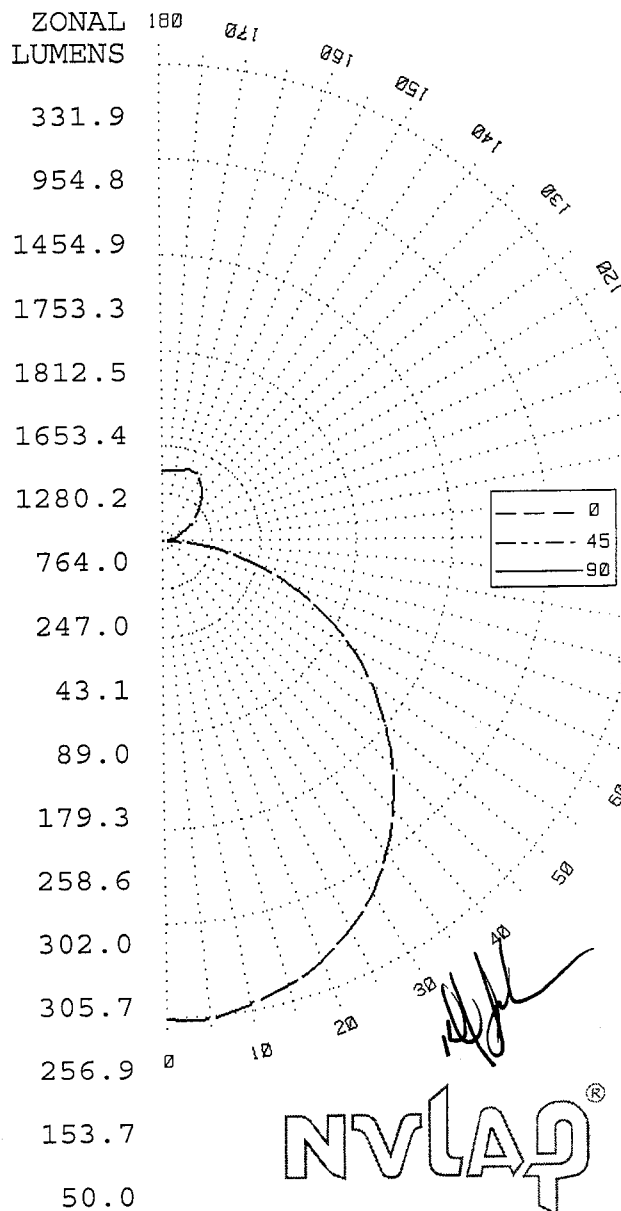


BALLABS CERTIFIED TEST REPORT NO.: 18689.0 DATE 03/02/15
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-48LED 8-24LED ARRAYS 38"DIA PENDANT WHITE REFL LUMINAIRE
56,1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC
CONVEX BTM LENS 4 MEANWELL #LPF-40D-20
CATALOG NBR: P5538.LED-40HI-XX-10UP
LAMP TYPE : 10-M700C840D48N12STC, 2-M700C840D24N06STC, 2-M700C840D48N12
CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA
0	3493.
5	3477.
10	3438.
15	3368.
20	3272.
25	3143.
30	2986.
35	2791.
40	2579.
45	2340.
50	2100.
55	1843.
60	1578.
65	1290.
70	998.
75	722.
80	453.
85	226.
90	82.
95	39.
100	53.
105	84.
110	129.
115	181.
120	233.
125	288.
130	339.
135	390.
140	441.
145	487.
150	526.
155	555.
160	562.
165	542.
170	527.
175	524.
180	523.



LUMEN SUMMARY

NVLAP LAB CODE 200921-0

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2742.	NA.	23.1	90-120	311.	NA.	2.6
0- 40	4495.	NA.	37.8	90-130	570.	NA.	4.8
0- 60	7961.	NA.	67.0	90-150	1178.	NA.	9.9
0- 90	10252.	NA.	86.2	90-180	1638.	NA.	13.8

TOTAL LUMINAIRE = 0-180 11890. NA. 100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

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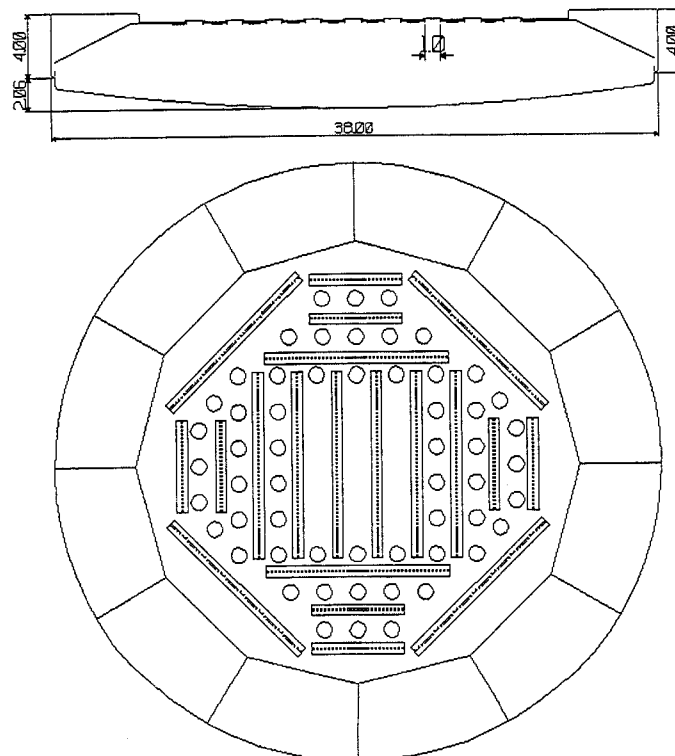
BALLABS CERTIFIED TEST REPORT NO.: 18689.0 DATE 03/02/15
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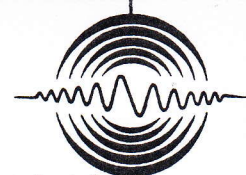
LUMINANCES-CD/SQ-M	
HORIZONTAL ANGLE	
0	
VERT	
ANGLE	
45	4278.
55	4050.
65	3693.
75	3102.
85	2072.
MAXIMUM BRIGHTNESSES NOT MEASURED	

ELECTRICAL CHARACTERISTICS 120.0V 1.3571A 162.05W

LUMINOUS EFFICACY (LUMENS / WATTS) = 73.4

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



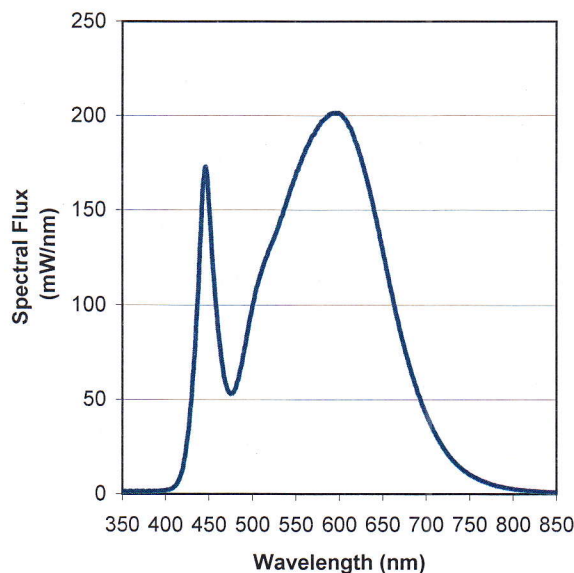
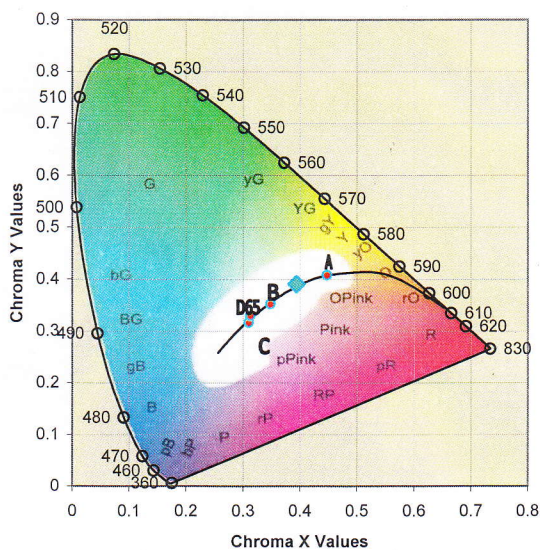


BALLABS CERTIFIED TEST REPORT NO.: 18689.0 A DATE 03/02/19
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO
DESCRIPTION: 12-48LED 8-24LED ARRAYS 38"DIA PENDANT WHITE REFL LUMINAIRE
56,1"DIA CLEAR POLYCARB PLUGS IN TOP w/MATTE WHITE ACRYLIC
CONVEX BTM LENS 4 MEANWELL #LPF-40D-20
CATALOG NBR: P5538.LED-40HI-XX-10UP
LAMP TYPE : 10-M700C840D48N12STC, 2-M700C840D24N06STC, 2-M700C840D48N12

INPUT VOLTAGE (V)	120.0
INPUT CURRENT (A)	1.3571
INPUT WATTS (W)	162.050
POWER FACTOR	0.9942
THDv (%)	0.2140%
THDi (%)	6.2355%
LUMINOUS EFFICACY-LPW	73.4
LUMINOUS FLUX- LUMENS	11890
CHROMA x	0.3944
CHROMA y	0.3899
CHROMA u	0.229
CHROMA v	0.3395
DELTA uv (Duv)	0.0018
CORR COLOR TEMP (K)	3740
COLOR REND INDEX (RA)	83.44
COLOR REND INDEX (R9)	19.5

Wavelength (nm)	Spectral Flux mW/nm	Wavelength (nm)	Spectral Flux mW/nm
350	0.9925	610	195.4525
360	1.3146	620	184.5679
370	1.0155	630	169.0994
380	1.1923	640	150.0857
390	1.2502	650	128.5677
400	1.7172	660	106.7976
410	3.5355	670	86.3567
420	13.8834	680	69.0475
430	52.3305	690	54.3541
440	134.1327	700	42.1935
450	152.6237	710	32.2311
460	89.7740	720	24.2162
470	56.8726	730	17.9461
480	55.4536	740	13.4515
490	74.8010	750	10.1034
500	99.4397	760	7.6829
510	117.2517	770	5.7499
520	130.0577	780	4.3047
530	141.6683	790	3.2322
540	155.3569	800	2.4346
550	168.9885	810	1.8612
560	180.5571	820	1.4225
570	189.7753	830	1.0945
580	196.7120	840	0.8462
590	200.7614	850	0.7074
600	201.0259		

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

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