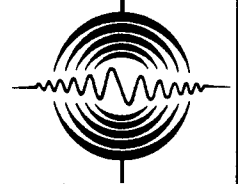


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

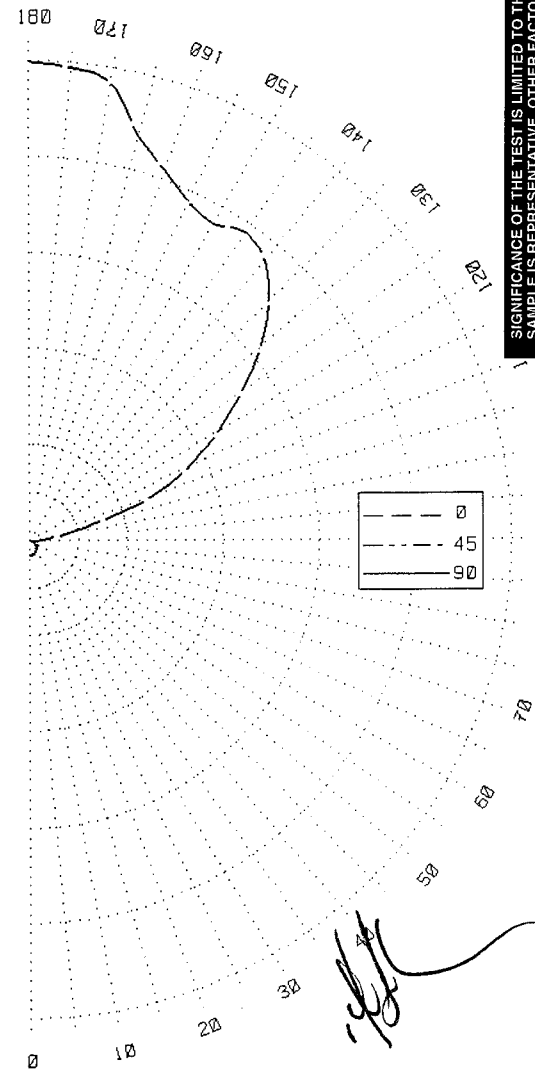
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) 343-6006  
(636) 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19453.0 DATE 08/18/16  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 16-24LED ARRAY 38"DIA MOD PEND LUMINAIRE w/WHITE REFL & 1/8  
CLR ACRYLIC TOP LENS/WHITE CTR RND REFL & FROST ACRYLIC BTM  
LENS w/.125"WHITE ACRYLIC BTM DOME 4ROAL STRATO #RSLD035-03  
CATALOG NBR: P1838-40HI-XX  
LAMP TYPE : M700C840D24N06STC

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	82.	7.7
5	81.	21.9
10	80.	32.9
15	77.	39.7
20	75.	41.3
25	71.	37.8
30	67.	29.1
35	63.	19.8
40	58.	13.2
45	53.	73.4
50	48.	373.1
55	42.	982.8
60	36.	1295.5
65	29.	1460.9
70	24.	1313.3
75	19.	964.9
80	15.	662.5
85	12.	253.0
90	13.	
95	67.	
100	155.	
105	353.	
110	712.	
115	990.	
120	1215.	
125	1444.	
130	1685.	
135	1886.	
140	2029.	
145	2091.	
150	2039.	
155	2085.	
160	2193.	
165	2337.	
170	2597.	
175	2650.	
180	2676.	



**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	63.	NA.	.8	90-120	1429.	NA.	18.8
0- 40	102.	NA.	1.3	90-130	2725.	NA.	35.7
0- 60	181.	NA.	2.4	90-150	5499.	NA.	72.1
0- 90	243.	NA.	3.2	90-180	7379.	NA.	96.8
TOTAL LUMINAIRE =				0-180	7623.	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.

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

BALLABS CERTIFIED TEST REPORT NO.: 19453.0 DATE 08/18/16  
 PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
 DESCRIPTION: 16-24LED ARRAY 38"DIA MOD PEND LUMINAIRE w/WHITE REFL & 1/8  
 CLR ACRYLIC TOP LENS/WHITE CTR RND REFL & FROST ACRYLIC BTM  
 LENS w/.125"WHITE ACRYLIC BTM DOME 4ROAL STRATO #RSLD035-03  
 CATALOG NBR: P1838-40HI-XX  
 LAMP TYPE : M700C840D24N06STC

\*\*\*\*\*

LUMINANCES-CD/SQ-M  
 HORIZONTAL ANGLE

VERT 0  
 ANGLE  
 45 83.  
 55 74.  
 65 61.  
 75 50.  
 85 47.

\*\*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	.50	.30	.10	.00
RCR																								
0	.96	.96	.96	.96	.83	.83	.83	.83	.57	.57	.57	.34	.34	.34	.13	.13	.13	.13	.13	.13	.03	.03	.03	.03
1	.87	.83	.79	.76	.75	.71	.68	.66	.50	.48	.46	.30	.29	.28	.11	.11	.11	.11	.11	.11	.03	.03	.03	.03
2	.79	.72	.67	.62	.68	.62	.58	.54	.43	.41	.38	.26	.25	.23	.10	.10	.10	.10	.10	.09	.02	.02	.02	.02
3	.72	.63	.57	.51	.62	.55	.49	.45	.38	.35	.32	.23	.21	.20	.09	.08	.08	.08	.08	.08	.02	.02	.02	.02
4	.66	.56	.49	.43	.56	.48	.42	.38	.34	.30	.27	.20	.18	.17	.08	.07	.07	.07	.07	.07	.02	.02	.02	.02
5	.60	.50	.42	.37	.52	.43	.37	.32	.30	.26	.23	.18	.16	.14	.07	.06	.06	.06	.06	.06	.01	.01	.01	.01
6	.55	.44	.37	.32	.47	.38	.32	.28	.27	.23	.20	.16	.14	.12	.06	.06	.05	.05	.05	.05	.01	.01	.01	.01
7	.51	.40	.33	.28	.44	.35	.29	.24	.24	.20	.17	.15	.13	.11	.06	.05	.04	.04	.04	.04	.01	.01	.01	.01
8	.47	.36	.29	.24	.41	.31	.25	.21	.22	.18	.15	.13	.11	.10	.05	.04	.04	.04	.04	.04	.01	.01	.01	.01
9	.44	.33	.26	.22	.38	.29	.23	.19	.20	.16	.14	.12	.10	.09	.05	.04	.03	.03	.03	.03	.01	.01	.01	.01
10	.41	.30	.24	.19	.35	.26	.21	.17	.19	.15	.12	.11	.09	.08	.04	.04	.03	.03	.03	.03	.01	.01	.01	.01

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 19453.0 DATE 08/18/16  
PREPARED FOR: IMPACT ARCHITECTURAL LIGHTING - SAINT LOUIS, MO  
DESCRIPTION: 16-24LED ARRAY 38"DIA MOD PEND LUMINAIRE w/WHITE REFL & 1/8  
CLR ACRYLIC TOP LENS/WHITE CTR RND REFL & FROST ACRYLIC BTM  
LENS w/.125"WHITE ACRYLIC BTM DOME 4ROAL STRATO #RSLD035-03  
CATALOG NBR: P1838-40HI-XX  
LAMP TYPE : M700C840D24N06STC

\*\*\*\*\*

ELECTRICAL CHARACTERISTICS 120.0V .6331A 71.480W

LUMINOUS EFFICACY (LUMENS / WATTS) = 106.6

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

