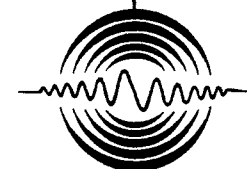


Building Acoustics & Lighting Laboratories, Inc.

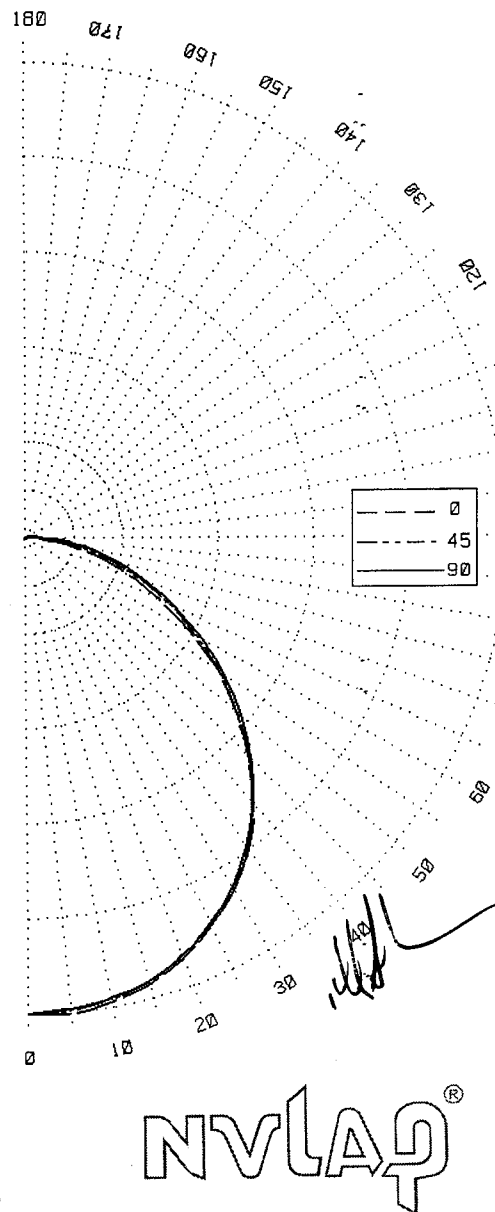
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19267.0 DATE 03/02/16
PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO
DESCRIPTION: 4-72LED 22"ARRAYS 2'ENCLOSED & GASKETED LUMINAIRE
WHITE FLAT REFL w/FROSTED ACRYLIC DROP LENS
EVERLINE #D23CC90UNVT-F @ 2300mA
CATALOG NBR: CT4S-LED-SMM-4-CC-UNVLT-840-U
LAMP TYPE : M700C840D72N2A

CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	3773.	3773.	3773.	3773.	3773.	358.7
5	3781.	3769.	3753.	3748.	3743.	
10	3737.	3726.	3709.	3702.	3700.	1032.2
15	3660.	3656.	3636.	3628.	3631.	1568.3
20	3546.	3558.	3531.	3514.	3523.	
25	3407.	3389.	3398.	3369.	3386.	1880.1
30	3237.	3200.	3237.	3192.	3207.	
35	3031.	2953.	3017.	2986.	3000.	1906.0
40	2773.	2696.	2756.	2741.	2761.	
45	2472.	2423.	2458.	2481.	2493.	1667.3
50	2154.	2129.	2151.	2196.	2203.	
55	1836.	1824.	1857.	1886.	1897.	1239.3
60	1494.	1530.	1551.	1581.	1596.	
65	1157.	1218.	1259.	1291.	1294.	751.4
70	890.	928.	976.	989.	1024.	
75	636.	673.	712.	749.	778.	311.0
80	391.	441.	478.	518.	548.	
85	199.	255.	289.	317.	359.	97.9
90	107.	132.	159.	172.	197.	
95	90.	79.	89.	95.	104.	55.7
100	91.	63.	55.	59.	60.	
105	87.	58.	43.	43.	44.	32.9
110	72.	49.	34.	33.	34.	
115	56.	38.	28.	25.	28.	15.4
120	38.	27.	20.	19.	22.	
125	28.	19.	14.	14.	17.	3.3
130	19.	14.	6.	9.	11.	
135	11.	8.	0.	0.	8.	.0
140	0.	0.	0.	0.	0.	
145	0.	0.	0.	0.	0.	.0
150	0.	0.	0.	0.	0.	
155	0.	0.	0.	0.	0.	.0
160	0.	0.	0.	0.	0.	
165	0.	0.	0.	0.	0.	.0
170	0.	0.	0.	0.	0.	
175	0.	0.	0.	0.	0.	.0
180	0.	0.	0.	0.	0.	



LUMEN SUMMARY

NVLAP LAB CODE 200921-0

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2959.	NA.	27.1	90-120	187.	NA.	1.7
0- 40	4839.	NA.	44.3	90-130	202.	NA.	1.8
0- 60	8413.	NA.	77.0	90-150	205.	NA.	1.9
0- 90	10714.	NA.	98.1	90-180	205.	NA.	1.9

TOTAL LUMINAIRE = 0-180 10920. NA. 100.0

IES SPACING CRITERIA: END= 1.3 DIAGONAL = 1.3 CROSS= 1.3

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.

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 LAMP TYPE : M700C840D72N2A

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	14434.	11839.	12005.
55	13214.	10259.	10477.
65	11304.	8449.	8687.
75	10150.	6338.	6926.
85	9439.	3994.	4962.

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98			
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.95	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83			
2	1.00	.92	.85	.80	.97	.90	.84	.78	.86	.81	.76	.82	.78	.74	.79	.76	.72	.70			
3	.91	.81	.73	.67	.89	.80	.72	.66	.76	.70	.65	.73	.68	.64	.71	.66	.62	.60			
4	.84	.72	.64	.57	.81	.71	.63	.57	.68	.61	.56	.66	.60	.55	.63	.58	.54	.52			
5	.77	.64	.55	.49	.74	.63	.54	.48	.60	.53	.48	.58	.52	.47	.56	.51	.46	.44			
6	.70	.57	.49	.42	.68	.56	.48	.42	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38			
7	.65	.51	.43	.37	.63	.51	.42	.37	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33			
8	.60	.46	.38	.32	.58	.45	.37	.32	.44	.37	.31	.42	.36	.31	.41	.35	.31	.29			
9	.55	.41	.33	.28	.53	.41	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25			
10	.51	.38	.30	.24	.50	.37	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.24	.22			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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EVERLINE #D23CC90UNVT-F @ 2300mA
CATALOG NBR: CT4S-LED-SMM-4-CC-UNVLT-840-U
LAMP TYPE : M700C840D72N2A

ELECTRICAL CHARACTERISTICS 120.0V .7514A 89.94W

LUMINOUS EFFICACY (LUMENS / WATTS) = 121.4

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

