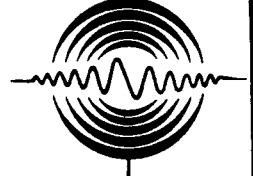


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

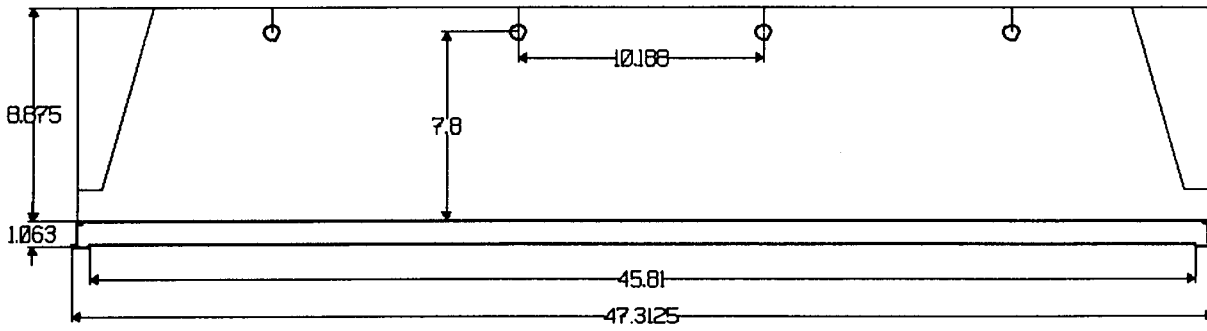
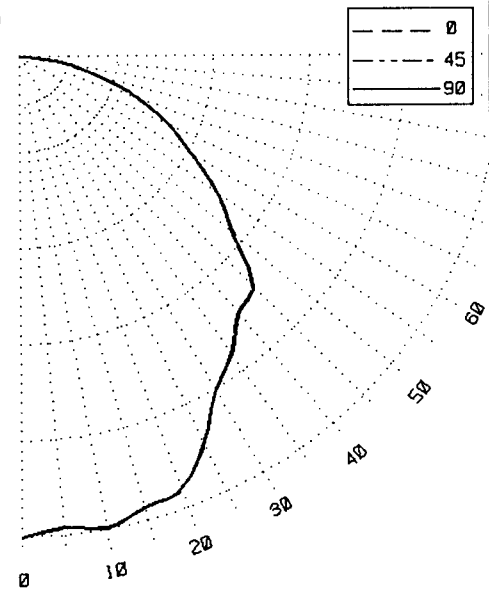
1618 HEADLAND DR.
 FENTON, MO 63026
 (636) - 343-6006
 (636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 13341.0 DATE 12/11/06
 PREPARED FOR: MARK ARCHITECTURAL LIGHTING - EDISON, NJ
 DESCRIPTION: 4/28W T5 LAMP 4x4' RECESSED DIRECT LUMINAIRE w/WHITE REFL
 CLEAR INTERIOR/WHITE EXTERIOR PVC MEMBRANE PANEL DOOR
 2 ADVANCE BALLAST #ICN-2M32-MC WATTS=137 REFL=86%
 CATALOG NBR: VEIL-VL44-428T5
 LAMP TYPE : FP28T5/835 RATED LUMENS 2900. NBR. LAMPS:- 4

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	2322.	2322.	2322.	2322.	2322.	
5	2283.	2283.	2282.	2282.	2282.	217.9
10	2308.	2308.	2308.	2308.	2311.	
15	2256.	2256.	2255.	2256.	2256.	639.4
20	2228.	2227.	2228.	2228.	2228.	
25	2069.	2069.	2069.	2069.	2073.	957.9
30	1868.	1867.	1868.	1871.	1871.	
35	1760.	1760.	1761.	1765.	1767.	1107.1
40	1627.	1626.	1627.	1630.	1632.	
45	1576.	1574.	1576.	1581.	1582.	1221.7
50	1329.	1329.	1330.	1342.	1338.	
55	1157.	1156.	1158.	1161.	1165.	1039.8
60	949.	949.	953.	953.	955.	
65	788.	788.	790.	793.	795.	784.8
70	603.	603.	606.	613.	609.	
75	420.	421.	425.	425.	427.	448.2
80	256.	256.	256.	261.	264.	
85	116.	117.	116.	117.	117.	127.2
90	0.	0.	0.	0.	0.	



LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1815.	15.6	27.7	90-120	0.	.0	.0
0- 40	2922.	25.2	44.7	90-130	0.	.0	.0
0- 60	5184.	44.7	79.2	90-150	0.	.0	.0
0- 90	6544.	56.4	100.0	90-180	0.	.0	.0

TOTAL LUMINAIRE = 0-180 6544. 56.4 100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.2 CROSS= 1.2

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	0	45	90
45	1636.	1636.	1642.
55	1480.	1482.	1491.
65	1368.	1372.	1380.
75	1191.	1205.	1211.
85	977.	977.	985.

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	.67	.67	.67	.67	.66	.66	.66	.66	.63	.63	.63	.60	.60	.60	.58	.58	.58	.56
1	.62	.59	.57	.55	.60	.58	.56	.54	.56	.54	.52	.53	.52	.51	.51	.50	.49	.48
2	.57	.52	.49	.45	.55	.51	.48	.45	.49	.46	.44	.47	.45	.43	.46	.44	.42	.41
3	.52	.46	.42	.38	.51	.45	.41	.38	.44	.40	.37	.42	.39	.37	.41	.38	.36	.35
4	.48	.41	.36	.33	.46	.40	.36	.33	.39	.35	.32	.38	.34	.32	.36	.34	.31	.30
5	.43	.36	.31	.28	.42	.36	.31	.28	.35	.30	.27	.33	.30	.27	.32	.29	.27	.26
6	.40	.33	.28	.24	.39	.32	.27	.24	.31	.27	.24	.30	.26	.23	.29	.26	.23	.22
7	.37	.29	.24	.21	.36	.29	.24	.21	.28	.24	.21	.27	.23	.20	.26	.23	.20	.19
8	.34	.26	.21	.18	.33	.26	.21	.18	.25	.21	.18	.24	.21	.18	.24	.20	.18	.17
9	.31	.23	.19	.16	.30	.23	.19	.16	.22	.18	.15	.22	.18	.15	.21	.18	.15	.14
10	.29	.21	.17	.14	.28	.21	.17	.14	.20	.16	.14	.20	.16	.14	.19	.16	.13	.12

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES