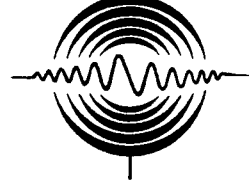


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

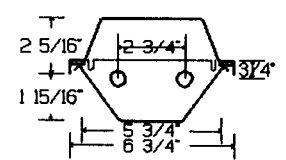
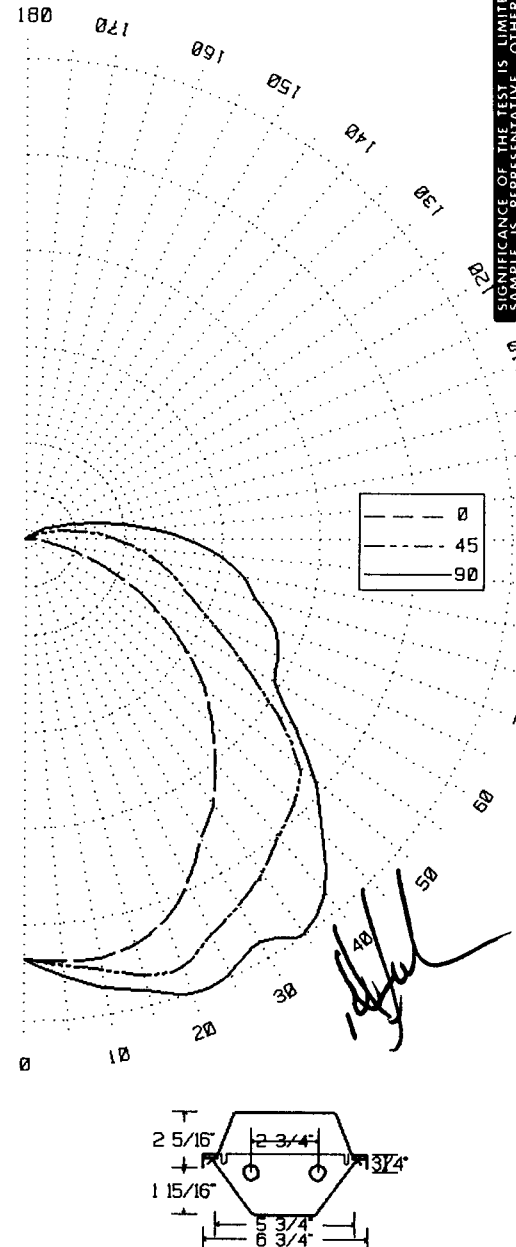
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 14515.0 DATE 03/18/09
 PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO
 DESCRIPTION: 2/54W T5HO LAMP 52x7x4" SUSPEND ENCLOSED/GASKETED LUMINAIRE
 WHITE REFLECTOR w/CLEAR LINEAL RIBBED ACRYLIC DROP LENS
 UNIVERSAL BALLAST #B254PUNV-D WATTS=93 REFL=88%
 CATALOG NBR: CT2-2x54T5HO-DIRA
 LAMP TYPE : FP54T5HO/835 RATED LUMENS 5000. NBR. LAMPS:- 2

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	1362.	1362.	1362.	1362.	1362.	
5	1371.	1375.	1386.	1406.	1421.	132.8
10	1377.	1392.	1416.	1456.	1475.	
15	1358.	1382.	1462.	1509.	1513.	410.2
20	1315.	1363.	1476.	1528.	1566.	
25	1233.	1317.	1414.	1522.	1555.	653.4
30	1126.	1236.	1373.	1454.	1504.	
35	1051.	1165.	1324.	1493.	1560.	830.4
40	946.	1060.	1262.	1456.	1495.	
45	845.	978.	1217.	1333.	1350.	895.5
50	748.	903.	1150.	1199.	1212.	
55	630.	803.	979.	1027.	1051.	818.5
60	505.	694.	809.	875.	924.	
65	388.	561.	671.	818.	893.	667.7
70	271.	410.	565.	770.	852.	
75	168.	286.	497.	695.	764.	514.1
80	87.	203.	429.	624.	704.	
85	39.	155.	360.	549.	624.	380.6
90	17.	104.	285.	450.	513.	
95	8.	60.	225.	357.	406.	231.6
100	0.	39.	152.	251.	292.	
105	0.	25.	112.	178.	202.	110.0
110	0.	7.	69.	125.	144.	
115	0.	0.	44.	81.	95.	42.8
120	0.	0.	25.	62.	72.	
125	0.	0.	10.	39.	51.	16.7
130	0.	0.	0.	20.	29.	
135	0.	0.	0.	18.	20.	5.4
140	0.	0.	0.	16.	16.	
145	0.	0.	0.	0.	0.	.0
150	0.	0.	0.	0.	0.	.0
155	0.	0.	0.	0.	0.	.0
160	0.	0.	0.	0.	0.	.0
165	0.	0.	0.	0.	0.	.0
170	0.	0.	0.	0.	0.	.0
175	0.	0.	0.	0.	0.	.0
180	0.	0.	0.	0.	0.	.0



LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1196.	12.0	21.0	90-120	384.	3.8	6.7
0- 40	2027.	20.3	35.5	90-130	401.	4.0	7.0
0- 60	3741.	37.4	65.5	90-150	407.	4.1	7.1
0- 90	5303.	53.0	92.9	90-180	407.	4.1	7.1
TOTAL LUMINAIRE = 0-180					5710.	57.1	100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.5 CROSS= 1.7

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.: 14515.0 DATE 03/18/09
 PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO
 DESCRIPTION: 2/54W T5HO LAMP 52x7x4"SUSPEND ENCLOSED/GASKETED LUMINAIRE
 WHITE REFLECTOR w/CLEAR LINEAL RIBBED ACRYLIC DROP LENS
 UNIVERSAL BALLAST #B254PUNV-D WATTS=93 REFL=88%
 CATALOG NBR: CT2-2x54T5HO-DIRA
 LAMP TYPE : FP54T5HO/835 RATED LUMENS 5000. NBR. LAMPS:- 2

LUMINANCES-CD/SQ-M
HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	6036.	6572.	7290.
55	5548.	5901.	6335.
65	4638.	4739.	6306.
75	3279.	4399.	6762.
85	2260.	4448.	7710.

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	.00			
RCR																		
0	.67	.67	.67	.67	.65	.65	.65	.65	.61	.61	.61	.58	.58	.58	.55	.55	.55	.53
1	.60	.57	.54	.52	.58	.55	.53	.51	.52	.50	.48	.49	.48	.46	.47	.45	.44	.42
2	.55	.49	.45	.42	.53	.48	.44	.41	.45	.42	.39	.43	.40	.38	.41	.38	.36	.35
3	.50	.43	.39	.35	.48	.42	.38	.34	.40	.36	.33	.38	.35	.32	.36	.33	.31	.29
4	.45	.38	.33	.29	.44	.37	.33	.29	.35	.31	.28	.34	.30	.27	.32	.29	.26	.25
5	.41	.34	.28	.24	.40	.33	.28	.24	.31	.27	.24	.30	.26	.23	.28	.25	.22	.21
6	.38	.30	.25	.21	.37	.29	.24	.21	.28	.23	.20	.26	.23	.20	.25	.22	.19	.18
7	.35	.27	.22	.18	.34	.26	.21	.18	.25	.21	.18	.24	.20	.17	.23	.19	.17	.15
8	.32	.24	.19	.16	.31	.24	.19	.15	.22	.18	.15	.21	.18	.15	.20	.17	.14	.13
9	.30	.22	.17	.13	.28	.21	.16	.13	.20	.16	.13	.19	.15	.13	.18	.15	.12	.11
10	.27	.20	.15	.12	.26	.19	.15	.12	.18	.14	.11	.17	.14	.11	.17	.13	.11	.10

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES