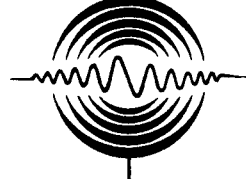


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

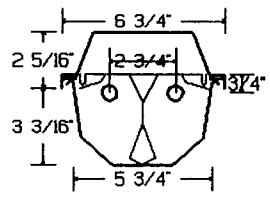
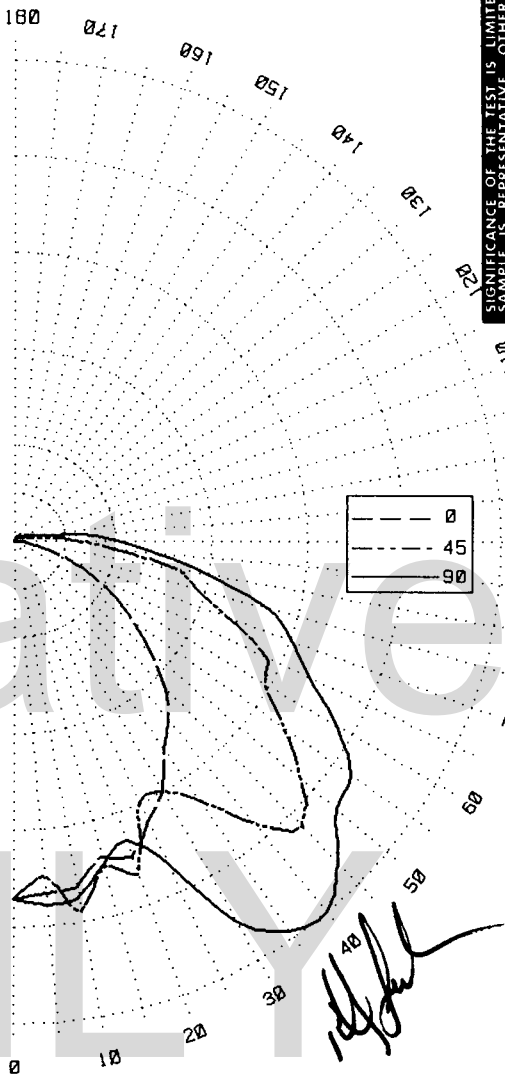
1618 HEADLAND DR.  
 FENTON, MO 63026  
 (636) - 343-6006  
 (636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 14552.0      DATE 04/13/09  
 PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO  
 DESCRIPTION: 2/54W T5HO C LAMP 52x7x6" SUSPENDED ENCLOSED LUMINAIRE  
 SPECULAR GARAGE REFLECTOR w/CLEAR ACRYLIC DROP LENS  
 UNIVERSAL BALLAST #B254PUNV-D WATTS=102  
 CATALOG NBR: CT2-2X54T5HO-LIRA-RF-W  
 LAMP TYPE : FP54T5HO/835/C      RATED LUMENS 4900.      NBR. LAMPS:- 2

### CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	1458.	1458.	1458.	1458.	1458.	
5	1436.	1365.	1371.	1454.	1483.	134.8
10	1427.	1378.	1528.	1497.	1472.	
15	1331.	1405.	1370.	1406.	1361.	391.7
20	1371.	1476.	1438.	1279.	1297.	
25	1259.	1300.	1176.	1330.	1449.	597.1
30	1181.	1218.	1176.	1618.	1789.	
35	1039.	1074.	1287.	1800.	1934.	886.9
40	953.	887.	1496.	1918.	1968.	
45	853.	826.	1641.	1831.	1852.	1094.0
50	701.	781.	1511.	1604.	1701.	
55	578.	822.	1330.	1565.	1664.	1085.1
60	455.	821.	1166.	1439.	1504.	
65	347.	767.	1120.	1266.	1310.	988.0
70	240.	602.	920.	1093.	1193.	
75	144.	476.	751.	1016.	1058.	752.2
80	82.	311.	663.	766.	794.	
85	46.	234.	416.	542.	577.	410.1
90	26.	129.	274.	382.	420.	
95	3.	56.	169.	270.	314.	178.3
100	0.	43.	78.	132.	165.	
105	0.	38.	66.	83.	94.	61.9
110	0.	24.	51.	71.	78.	
115	0.	18.	46.	56.	62.	37.5
120	0.	14.	32.	52.	56.	
125	0.	13.	23.	42.	48.	22.9
130	0.	0.	24.	31.	36.	
135	0.	0.	23.	27.	29.	12.5
140	0.	0.	22.	29.	31.	
145	0.	0.	21.	26.	27.	9.5
150	0.	0.	0.	24.	26.	
155	0.	0.	0.	0.	24.	1.4
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

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1124.	11.5	16.9	90-120	278.	2.8	4.2
0- 40	2011.	20.5	30.2	90-130	300.	3.1	4.5
0- 60	4190.	42.8	62.9	90-150	322.	3.3	4.8
0- 90	6340.	64.7	95.1	90-180	324.	3.3	4.9
TOTAL LUMINAIRE = 0-180					6664.	68.0	100.0

IES SPACING CRITERIA: END= 1.2      DIAGONAL = 1.3      CROSS= 1.9

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	6094.	7525.	8492.
55	5090.	6519.	8156.
65	4147.	6095.	7129.
75	2810.	4755.	6699.
85	2666.	3268.	4533.

\*\*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	.00	.00	.00	.00
RCR																								
0	.80	.80	.80	.80	.78	.78	.78	.78	.74	.74	.74	.74	.70	.70	.70	.70	.66	.66	.66	.66	.65	.65	.65	.65
1	.72	.68	.65	.61	.70	.66	.63	.60	.63	.60	.58	.59	.57	.55	.56	.55	.55	.53	.53	.53	.51	.51	.51	.51
2	.65	.58	.53	.48	.62	.57	.52	.47	.53	.49	.46	.51	.47	.44	.48	.45	.43	.43	.43	.43	.41	.41	.41	.41
3	.58	.50	.44	.39	.56	.49	.43	.39	.47	.42	.38	.44	.40	.37	.42	.39	.36	.36	.36	.36	.34	.34	.34	.34
4	.53	.44	.38	.33	.51	.43	.37	.32	.41	.36	.31	.39	.34	.31	.37	.33	.30	.30	.30	.30	.28	.28	.28	.28
5	.48	.38	.32	.27	.46	.37	.31	.26	.36	.30	.26	.34	.29	.25	.32	.28	.25	.25	.25	.25	.23	.23	.23	.23
6	.44	.34	.27	.23	.42	.33	.27	.22	.31	.26	.22	.30	.25	.21	.29	.24	.21	.21	.21	.21	.19	.19	.19	.19
7	.40	.30	.24	.19	.39	.29	.23	.19	.28	.23	.19	.27	.22	.18	.25	.21	.18	.18	.18	.18	.16	.16	.16	.16
8	.37	.27	.21	.16	.35	.26	.20	.16	.25	.20	.16	.24	.19	.15	.23	.18	.15	.15	.15	.15	.14	.14	.14	.14
9	.34	.24	.18	.14	.33	.23	.18	.14	.22	.17	.13	.21	.16	.13	.20	.16	.13	.13	.13	.13	.11	.11	.11	.11
10	.31	.22	.16	.12	.30	.21	.16	.12	.20	.15	.12	.19	.15	.11	.18	.14	.11	.11	.11	.11	.10	.10	.10	.10

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES