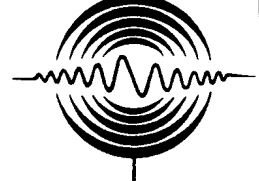


# Building Acoustics & Lighting Laboratories, Inc.

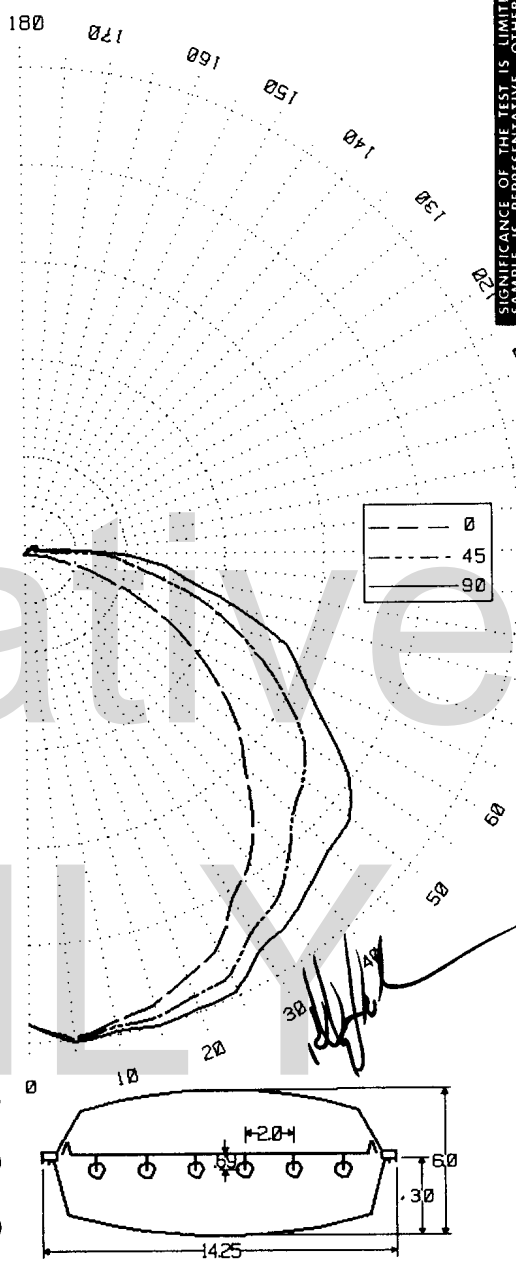
1618 HEADLAND DR.  
FENTON, MO 63026  
(636) - 343-6006  
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 14142.2 DATE 04/30/09  
 PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO  
 DESCRIPTION: 6/54W T5HO C LAMP 51.5x15.5x6" ENCLOSED/GASKETED LUMINAIRE  
 WHITE REFLECTOR w/CLEAR ACRYLIC DROP LENS REFL=86%  
 ADVANCE #ICN-4S54-90C-2LS-G & ICN-2S54-90C WATTS=327  
 CATALOG NBR: CT4-6LT5  
 LAMP TYPE : FP54T5HO/835/C RATED LUMENS 4900. NBR. LAMPS:- 6

## CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	5947.	5947.	5947.	5947.	5947.	587.0
5	6122.	6133.	6150.	6166.	6172.	1713.3
10	5991.	6014.	6058.	6103.	6119.	2707.5
15	5894.	5955.	6055.	6139.	6161.	3336.8
20	5687.	5782.	5954.	6077.	6116.	3591.8
25	5520.	5654.	5888.	6049.	6094.	3639.6
30	5058.	5247.	5531.	5721.	5776.	3016.4
35	4790.	5035.	5370.	5609.	5676.	2147.6
40	4334.	4651.	5035.	5364.	5470.	1222.7
45	3810.	4183.	4657.	5158.	5297.	416.4
50	3420.	3849.	4473.	5074.	5225.	185.0
55	2902.	3386.	4205.	4751.	4868.	125.4
60	2361.	2891.	3743.	4166.	4250.	108.9
65	1827.	2439.	3236.	3676.	3782.	80.0
70	1309.	1972.	2707.	3292.	3437.	40.8
75	841.	1470.	2228.	2634.	2735.	12.8
80	434.	1008.	1643.	2005.	2083.	.0
85	217.	651.	1242.	1626.	1710.	.0
90	116.	518.	969.	1141.	1169.	.0
95	55.	261.	401.	545.	584.	.0
100	89.	133.	245.	378.	412.	.0
105	83.	116.	167.	239.	272.	.0
110	66.	100.	139.	178.	194.	.0
115	61.	94.	128.	167.	172.	.0
120	50.	100.	128.	144.	155.	.0
125	0.	89.	155.	161.	161.	.0
130	0.	66.	144.	178.	178.	.0
135	0.	55.	111.	161.	172.	.0
140	0.	0.	105.	150.	155.	.0
145	0.	0.	83.	116.	122.	.0
150	0.	0.	66.	94.	94.	.0
155	0.	0.	0.	72.	77.	.0
160	0.	0.	0.	61.	55.	.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	5008.	17.0	21.8	90-120	727.	2.5	3.2
0- 40	8345.	28.4	36.4	90-130	836.	2.8	3.6
0- 60	15576.	53.0	67.9	90-150	957.	3.3	4.2
0- 90	21963.	74.7	95.8	90-180	969.	3.3	4.2
TOTAL LUMINAIRE = 0-180					22932.	78.0	100.0

IES SPACING CRITERIA: END= 1.3 DIAGONAL = 1.4 CROSS= 1.5

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	12097.	12097.	13760.
55	11359.	12494.	14464.
65	9705.	11642.	13606.
75	7295.	10564.	12968.
85	5590.	9037.	12443.

\*\*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	.00						
RCR																		
0	.92	.92	.92	.92	.90	.90	.90	.90	.85	.85	.85	.81	.81	.81	.77	.77	.77	.75
1	.83	.79	.75	.72	.81	.77	.74	.70	.73	.70	.68	.69	.67	.65	.66	.64	.63	.61
2	.75	.68	.63	.58	.73	.67	.61	.57	.63	.59	.55	.60	.57	.53	.57	.54	.52	.50
3	.69	.60	.53	.48	.66	.59	.52	.47	.56	.50	.46	.53	.49	.45	.51	.47	.44	.42
4	.63	.53	.46	.40	.60	.52	.45	.40	.49	.43	.39	.47	.42	.38	.45	.41	.37	.35
5	.57	.46	.39	.34	.55	.45	.38	.33	.43	.37	.33	.41	.36	.32	.40	.35	.31	.30
6	.52	.41	.34	.29	.50	.40	.34	.29	.39	.33	.28	.37	.32	.28	.35	.31	.27	.25
7	.48	.37	.30	.25	.46	.36	.29	.25	.35	.29	.24	.33	.28	.24	.32	.27	.23	.22
8	.44	.33	.26	.21	.43	.32	.26	.21	.31	.25	.21	.30	.24	.21	.29	.24	.20	.19
9	.41	.30	.23	.18	.39	.29	.23	.18	.28	.22	.18	.27	.21	.18	.26	.21	.17	.16
10	.38	.27	.20	.16	.36	.26	.20	.16	.25	.20	.16	.24	.19	.16	.23	.19	.15	.14

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES