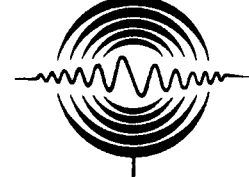


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

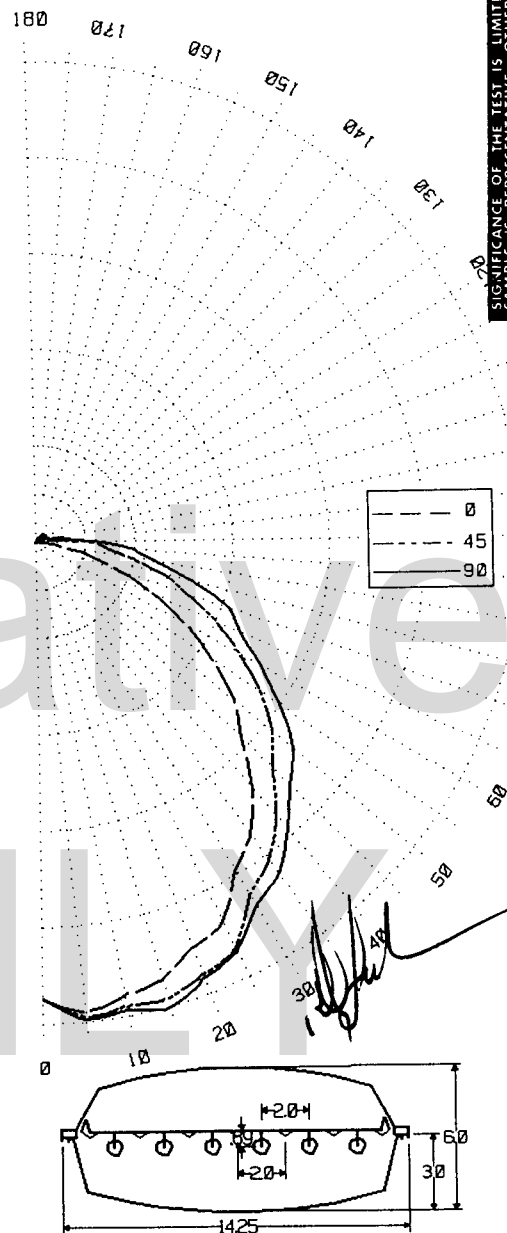
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 14141.2 DATE 04/30/09
PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO
DESCRIPTION: 6/54W T5HO C LAMP 51.5x14.5x6" ENCLOSED/GASKETED LUMINAIRE
SPECULAR REFLECTOR w/CLEAR ACRYLIC DROP LENS
ADVANCE #ICN-4S54-90C-2LS-G & ICN-2S54-90C WATTS=321
CATALOG NBR: CT4-6LT5-R
LAMP TYPE : FP54T5HO/835/C RATED LUMENS 4900. NBR. LAMPS:- 6

CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	6500.	6500.	6500.	6500.	6500.	
5	6707.	6734.	6779.	6807.	6818.	646.3
10	6548.	6626.	6704.	6754.	6771.	
15	6456.	6590.	6735.	6846.	6863.	1901.4
20	6160.	6350.	6567.	6612.	6628.	
25	5999.	6255.	6411.	6439.	6456.	2931.4
30	5453.	5771.	5849.	5982.	6021.	
35	5130.	5475.	5576.	5782.	5810.	3502.7
40	4629.	4957.	5152.	5336.	5398.	
45	3999.	4317.	4618.	4868.	4957.	3539.4
50	3565.	3871.	4256.	4595.	4651.	
55	2969.	3303.	3793.	4072.	4116.	3299.4
60	2384.	2729.	3253.	3520.	3598.	
65	1810.	2178.	2751.	3008.	3114.	2580.5
70	1264.	1704.	2233.	2740.	2852.	
75	785.	1258.	1843.	2189.	2267.	1802.7
80	395.	835.	1314.	1654.	1704.	
85	194.	512.	974.	1286.	1364.	968.6
90	100.	406.	785.	902.	930.	
95	61.	245.	367.	484.	518.	377.9
100	83.	128.	233.	350.	378.	
105	83.	105.	155.	228.	256.	173.9
110	72.	94.	133.	167.	178.	
115	66.	89.	122.	155.	167.	119.7
120	50.	89.	116.	139.	150.	
125	0.	89.	139.	144.	144.	99.6
130	0.	66.	139.	161.	161.	
135	0.	55.	111.	155.	161.	77.7
140	0.	0.	105.	144.	155.	
145	0.	0.	89.	116.	122.	41.8
150	0.	0.	66.	94.	94.	
155	0.	0.	0.	77.	72.	13.1
160	0.	0.	0.	61.	61.	
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	5479.	18.6	24.8	90-120	672.	2.3	3.0
0- 40	8982.	30.6	40.7	90-130	771.	2.6	3.5
0- 60	15821.	53.8	71.7	90-150	891.	3.0	4.0
0- 90	21172.	72.0	95.9	90-180	904.	3.1	4.1
TOTAL LUMINAIRE = 0-180					22076.	75.1	100.0

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

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

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VERT ANGLE	LUMINANCES-CD/SQ-M HORIZONTAL ANGLE		
	0	45	90
45	12697.	11996.	12877.
55	11621.	11270.	12229.
65	9615.	9897.	11203.
75	6809.	8739.	10749.
85	4997.	7087.	9925.

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	.89	.89	.89	.89	.86	.86	.86	.86	.82	.82	.82	.78	.78	.78	.74	.74	.74	.72					
1	.81	.77	.74	.70	.78	.75	.72	.69	.71	.69	.66	.68	.66	.64	.65	.63	.61	.60					
2	.73	.67	.62	.57	.71	.65	.61	.57	.62	.58	.55	.59	.56	.53	.57	.54	.52	.50					
3	.67	.59	.53	.48	.65	.58	.52	.48	.55	.50	.46	.53	.49	.45	.50	.47	.44	.42					
4	.62	.53	.46	.41	.60	.51	.45	.40	.49	.44	.40	.47	.42	.39	.45	.41	.38	.36					
5	.56	.46	.40	.35	.54	.45	.39	.34	.43	.38	.34	.42	.37	.33	.40	.36	.32	.31					
6	.52	.42	.35	.30	.50	.41	.34	.30	.39	.33	.29	.37	.32	.29	.36	.32	.28	.27					
7	.48	.37	.31	.26	.46	.37	.30	.26	.35	.29	.25	.34	.29	.25	.32	.28	.25	.23					
8	.44	.33	.27	.22	.42	.33	.27	.22	.31	.26	.22	.30	.25	.22	.29	.25	.21	.20					
9	.40	.30	.24	.19	.39	.29	.23	.19	.28	.23	.19	.27	.22	.19	.26	.22	.18	.17					
10	.37	.27	.21	.17	.36	.27	.21	.17	.26	.20	.17	.25	.20	.17	.24	.19	.16	.15					

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES