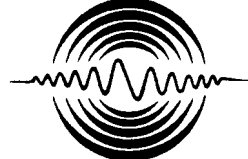


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

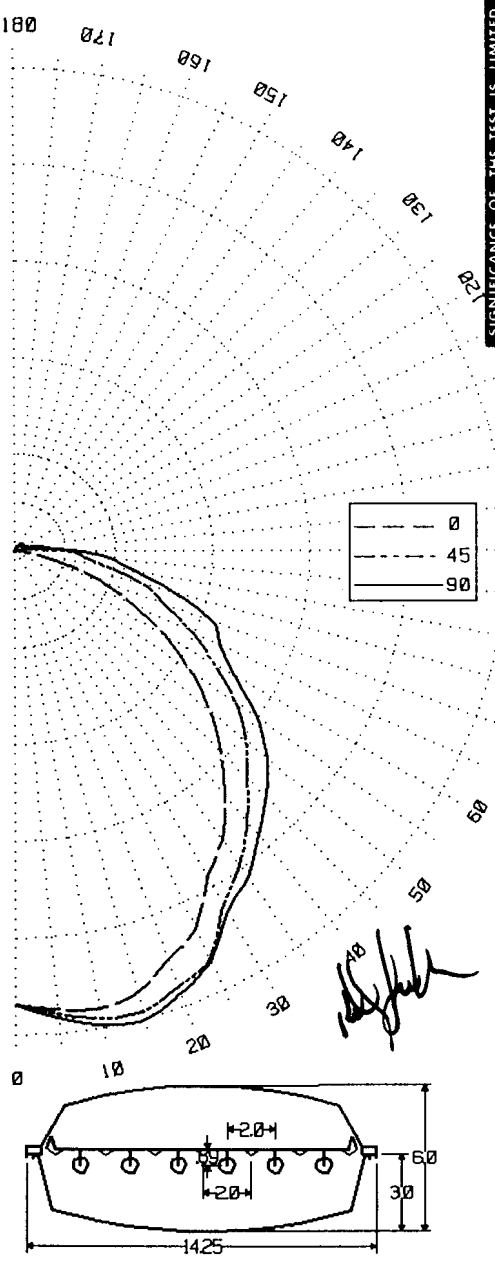
1618 HEADLAND DR.
 FENTON, MO 63026
 (636) - 343-6006
 (636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 14141.0 DATE 06/04/08
 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
 UNIVERSAL BALLAST #B454IUNV-E & B254IUNV-E WATTS=326
 CATALOG NBR: CT4-6LT5-R
 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	7925.	7925.	7925.	7925.	7925.	
5	8026.	8044.	8100.	8149.	8168.	773.0
10	8096.	8158.	8275.	8361.	8386.	
15	7973.	8115.	8312.	8441.	8460.	2344.6
20	7591.	7801.	8090.	8207.	8220.	
25	7295.	7585.	7868.	7905.	7912.	3582.7
30	6587.	6956.	7141.	7221.	7277.	
35	6180.	6599.	6716.	6932.	6963.	4211.8
40	5595.	6044.	6198.	6414.	6500.	
45	4982.	5477.	5643.	5742.	6099.	4337.4
50	4368.	4769.	5176.	5570.	5656.	
55	3684.	4066.	4633.	4991.	5083.	4053.7
60	2951.	3327.	3937.	4301.	4356.	
65	2230.	2637.	3339.	3703.	3875.	3159.4
70	1546.	2039.	2711.	3426.	3617.	
75	918.	1472.	2286.	2705.	2840.	2206.3
80	431.	973.	1595.	2039.	2119.	
85	184.	573.	1152.	1552.	1663.	1145.8
90	92.	437.	948.	1121.	1170.	
95	49.	264.	425.	573.	628.	436.6
100	67.	129.	277.	419.	462.	
105	86.	117.	191.	283.	320.	210.0
110	80.	110.	166.	209.	227.	
115	80.	98.	154.	191.	203.	145.0
120	0.	110.	141.	166.	178.	
125	0.	86.	154.	160.	166.	108.3
130	0.	73.	154.	191.	184.	
135	0.	0.	129.	172.	179.	75.6
140	0.	0.	110.	160.	172.	
145	0.	0.	98.	135.	141.	47.7
150	0.	0.	73.	104.	110.	
155	0.	0.	0.	92.	92.	16.0
160	0.	0.	0.	33.	33.	
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	6700.	22.8	25.0	90-120	792.	2.7	2.9
0- 40	10912.	37.1	40.6	90-130	900.	3.1	3.4
0- 60	19303.	65.7	71.9	90-150	1023.	3.5	3.8
0- 90	25815.	87.8	96.1	90-180	1039.	3.5	3.9
TOTAL LUMINAIRE = 0-180					26854.	91.3	100.0

IES SPACING CRITERIA: END= 1.2 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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LUMINANCES-CD/SQ-M
HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	15818.	14659.	15843.
55	14419.	13765.	15102.
65	11846.	12013.	13941.
75	7963.	10839.	13466.
85	4740.	8382.	12101.

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	1.08	1.08	1.08	1.08	1.05	1.05	1.05	1.05	1.00	1.00	1.00	.95	.95	.95	.90	.90	.90	.88
1	.98	.94	.90	.86	.95	.91	.88	.84	.87	.84	.81	.83	.80	.78	.79	.77	.75	.73
2	.89	.82	.75	.70	.87	.80	.74	.69	.76	.71	.67	.72	.68	.65	.69	.66	.63	.61
3	.82	.72	.65	.59	.79	.70	.64	.58	.67	.61	.57	.64	.59	.55	.62	.57	.54	.52
4	.75	.64	.56	.50	.72	.63	.55	.49	.60	.53	.48	.57	.52	.47	.55	.50	.46	.44
5	.68	.56	.48	.42	.66	.55	.47	.42	.53	.46	.41	.51	.45	.40	.49	.44	.39	.37
6	.63	.51	.42	.36	.61	.49	.42	.36	.47	.41	.35	.46	.39	.35	.44	.38	.34	.32
7	.58	.45	.37	.32	.56	.44	.37	.31	.43	.36	.31	.41	.35	.30	.39	.34	.30	.28
8	.53	.41	.33	.27	.52	.40	.32	.27	.38	.32	.27	.37	.31	.26	.36	.30	.26	.24
9	.49	.36	.29	.24	.48	.36	.28	.23	.34	.28	.23	.33	.27	.23	.32	.26	.22	.21
10	.46	.33	.26	.21	.44	.33	.25	.21	.31	.25	.20	.30	.24	.20	.29	.24	.20	.18

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES