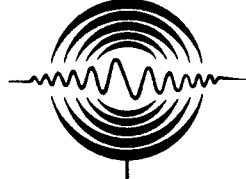


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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

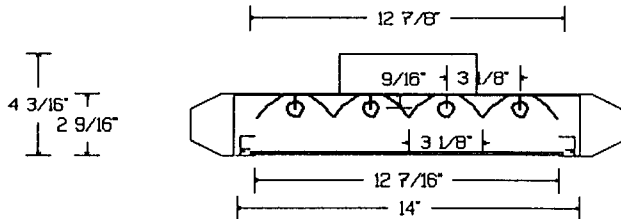
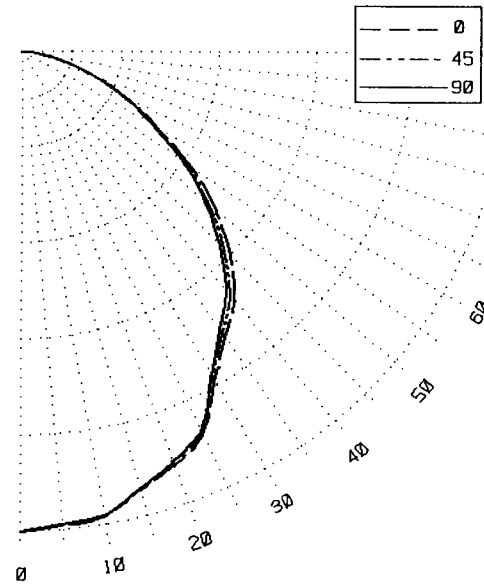


BALLABS CERTIFIED TEST REPORT NO.: 14547.0 DATE 04/07/09
 PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO
 DESCRIPTION: 4/54W T5HO C LAMP 52x18" SUSPENDED ENCLOSED LUMINAIRE
 WHITE FORMED REFL w/ROTUBA FROSTED ACRYLIC MICROPRISM LEN
 UNIVERSAL BALLAST # B454PUNV-E WATTS=206

CATALOG NBR: ***
 LAMP TYPE : FP54T5HO/835/C RATED LUMENS 4900. NBR. LAMPS:- 4

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	5171.	5171.	5171.	5171.	5171.	
5	5124.	5122.	5117.	5114.	5109.	488.5
10	5082.	5087.	5074.	5079.	5064.	
15	4877.	4875.	4867.	4865.	4862.	1380.2
20	4734.	4722.	4706.	4694.	4686.	
25	4544.	4534.	4519.	4506.	4501.	2092.3
30	4086.	4071.	4044.	4023.	4013.	
35	3757.	3739.	3707.	3672.	3659.	2328.4
40	3506.	3476.	3425.	3383.	3365.	
45	3116.	3076.	3018.	2975.	2955.	2343.6
50	2676.	2636.	2578.	2541.	2520.	
55	2196.	2161.	2113.	2081.	2066.	1903.3
60	1641.	1628.	1593.	1568.	1558.	
65	1251.	1244.	1224.	1203.	1196.	1214.6
70	867.	862.	847.	839.	836.	
75	545.	540.	532.	532.	530.	566.4
80	314.	311.	306.	306.	306.	
85	143.	145.	140.	140.	143.	154.9
90	0.	0.	0.	0.	0.	



[Handwritten signature]

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	3961.	20.2	31.8	90-120	0.	.0	.0
0- 40	6289.	32.1	50.4	90-130	0.	.0	.0
0- 60	10536.	53.8	84.5	90-150	0.	.0	.0
0- 90	12472.	63.6	100.0	90-180	0.	.0	.0
TOTAL LUMINAIRE = 0-180					12472.	63.6	100.0

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

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.: 14547.0 DATE 04/07/09
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CATALOG NBR: ***
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VERT ANGLE	LUMINANCES-CD/SQ-M HORIZONTAL ANGLE		
	0	45	90
45	11704.	11336.	11099.
55	10169.	9784.	9567.
65	7862.	7692.	7516.
75	5593.	5459.	5439.
85	4358.	4266.	4358.

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	.76	.76	.76	.76	.74	.74	.74	.74	.71	.71	.71	.68	.68	.68	.65	.65	.65	.64
1	.70	.68	.65	.63	.69	.66	.64	.62	.64	.62	.60	.61	.60	.58	.59	.58	.57	.55
2	.65	.60	.56	.53	.63	.59	.56	.53	.57	.54	.51	.55	.52	.50	.53	.51	.49	.48
3	.60	.54	.49	.46	.58	.53	.49	.45	.51	.47	.44	.49	.46	.44	.48	.45	.43	.42
4	.55	.48	.43	.39	.54	.47	.43	.39	.46	.42	.39	.44	.41	.38	.43	.40	.38	.36
5	.51	.43	.38	.34	.49	.42	.37	.34	.41	.37	.33	.40	.36	.33	.39	.35	.33	.31
6	.47	.39	.33	.30	.45	.38	.33	.29	.37	.32	.29	.36	.32	.29	.35	.31	.29	.27
7	.43	.35	.30	.26	.42	.34	.29	.26	.33	.29	.26	.32	.28	.25	.32	.28	.25	.24
8	.40	.31	.26	.23	.39	.31	.26	.22	.30	.26	.22	.29	.25	.22	.29	.25	.22	.21
9	.37	.28	.23	.20	.36	.28	.23	.20	.27	.23	.19	.26	.22	.19	.26	.22	.19	.18
10	.34	.26	.21	.17	.33	.25	.21	.17	.25	.20	.17	.24	.20	.17	.23	.20	.17	.16

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES