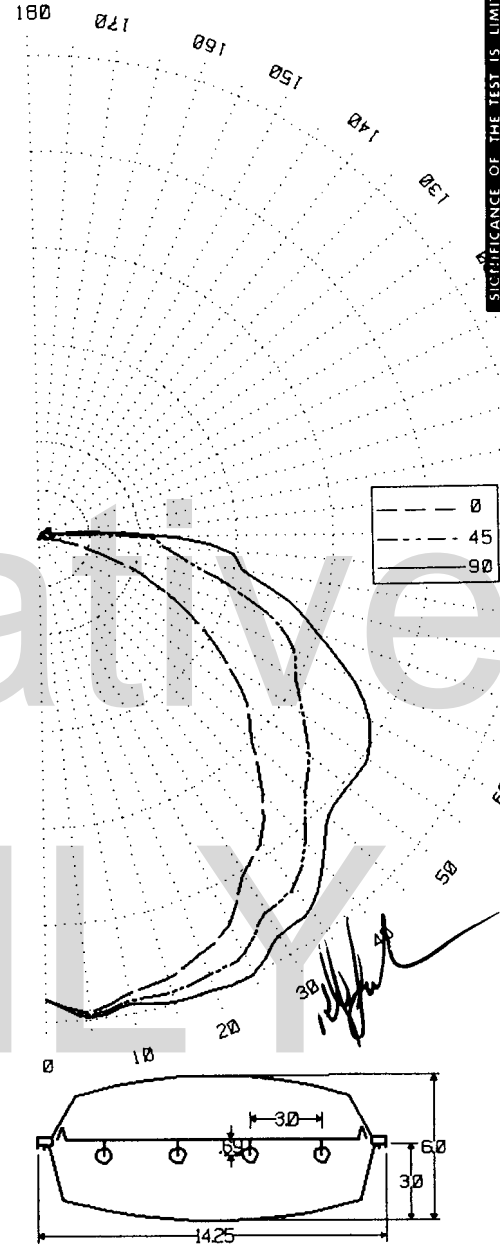


BALLABS CERTIFIED TEST REPORT NO.: 14140.2 DATE 04/30/09
 PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO
 DESCRIPTION: 4/54W T5HO C LAMP 51.5x14.5x6" ENCLOSED/GASKETED LUMINAIRE
 WHITE REFLECTOR w/CLEAR ACRYLIC DROP LENS
 ADVANCE BALLAST #ICN-4S54-90C-2LS-G WATTS=214 REFL=86%
 CATALOG NBR: CT4-4LT5
 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	3631.	3631.	3631.	3631.	3631.	
5	3748.	3754.	3770.	3776.	3792.	359.6
10	3645.	3667.	3700.	3721.	3732.	
15	3600.	3643.	3714.	3774.	3790.	1050.7
20	3498.	3558.	3678.	3771.	3798.	
25	3384.	3476.	3640.	3770.	3814.	1676.1
30	3085.	3215.	3433.	3591.	3640.	
35	2943.	3117.	3384.	3558.	3602.	2093.7
40	2649.	2872.	3166.	3346.	3384.	
45	2301.	2584.	2889.	3085.	3145.	2184.1
50	2078.	2405.	2709.	3003.	3101.	
55	1741.	2111.	2481.	2954.	3096.	2234.9
60	1425.	1790.	2285.	2834.	2949.	
65	1099.	1469.	2171.	2579.	2666.	2010.4
70	783.	1186.	1915.	2230.	2290.	
75	495.	968.	1507.	1860.	1991.	1475.3
80	261.	707.	1164.	1528.	1599.	
85	130.	467.	968.	1392.	1485.	991.4
90	70.	380.	843.	1006.	1033.	
95	43.	223.	359.	467.	500.	360.2
100	48.	87.	168.	277.	310.	
105	54.	70.	92.	136.	152.	106.1
110	48.	65.	81.	103.	114.	
115	38.	59.	76.	87.	97.	71.8
120	27.	59.	70.	81.	87.	
125	0.	48.	103.	87.	87.	63.1
130	0.	38.	92.	114.	108.	
135	0.	27.	70.	97.	108.	48.0
140	0.	0.	59.	97.	103.	
145	0.	0.	48.	65.	76.	23.7
150	0.	0.	38.	54.	54.	
155	0.	0.	0.	43.	43.	7.5
160	0.	0.	0.	32.	32.	
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	3086.	15.7	20.9	90-120	538.	2.7	3.6
0- 40	5180.	26.4	35.1	90-130	601.	3.1	4.1
0- 60	9599.	49.0	65.0	90-150	673.	3.4	4.6
0- 90	14076.	71.8	95.4	90-180	680.	3.5	4.6
TOTAL LUMINAIRE = 0-180					14757.	75.3	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.

BALLABS CERTIFIED TEST REPORT NO.: 14140.2 DATE 04/30/09
 PREPARED FOR: SCIENTIFIC LIGHTING PRODUCTS, INC - FENTON, MO
 DESCRIPTION: 4/54W T5HO C LAMP 51.5x14.5x6"ENCLOSED/GASKETED LUMINAIRE
 WHITE REFLECTOR w/CLEAR ACRYLIC DROP LENS
 ADVANCE BALLAST #ICN-4S54-90C-2LS-G WATTS=214 REFL=86%
 CATALOG NBR: CT4-4LT5
 LAMP TYPE : FP54T5HO/835/C RATED LUMENS 4900. NBR. LAMPS:- 4

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	7306.	7505.	8170.
55	6814.	7371.	9199.
65	5838.	7811.	9591.
75	4294.	7146.	9441.
85	3349.	7044.	10806.

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	.89	.89	.89	.89	.86	.86	.86	.86	.82	.82	.82	.78	.78	.78	.74	.74	.74	.72
1	.80	.76	.72	.68	.77	.73	.70	.67	.70	.67	.64	.66	.64	.62	.63	.61	.59	.57
2	.72	.65	.59	.55	.70	.63	.58	.54	.60	.56	.52	.57	.53	.50	.54	.51	.48	.47
3	.65	.57	.50	.45	.63	.55	.49	.44	.53	.47	.43	.50	.46	.42	.48	.44	.41	.39
4	.60	.50	.43	.38	.58	.49	.42	.37	.47	.41	.36	.44	.39	.36	.42	.38	.35	.33
5	.54	.44	.37	.31	.52	.43	.36	.31	.41	.35	.30	.39	.34	.30	.37	.33	.29	.27
6	.50	.39	.32	.27	.48	.38	.32	.27	.36	.31	.26	.35	.30	.26	.33	.29	.25	.23
7	.46	.35	.28	.23	.44	.34	.28	.23	.33	.27	.23	.31	.26	.22	.30	.25	.22	.20
8	.42	.31	.25	.20	.41	.31	.24	.20	.29	.24	.19	.28	.23	.19	.27	.22	.19	.17
9	.39	.28	.22	.17	.37	.27	.21	.17	.26	.21	.17	.25	.20	.16	.24	.20	.16	.15
10	.36	.26	.19	.15	.35	.25	.19	.15	.24	.18	.15	.23	.18	.14	.22	.17	.14	.13

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES