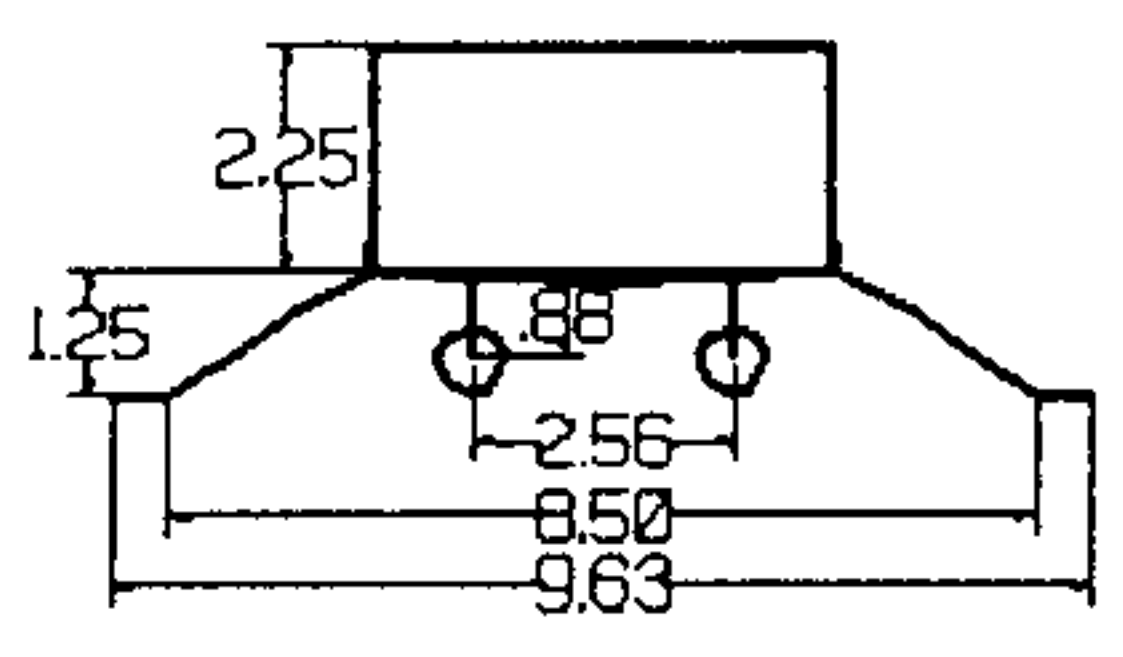
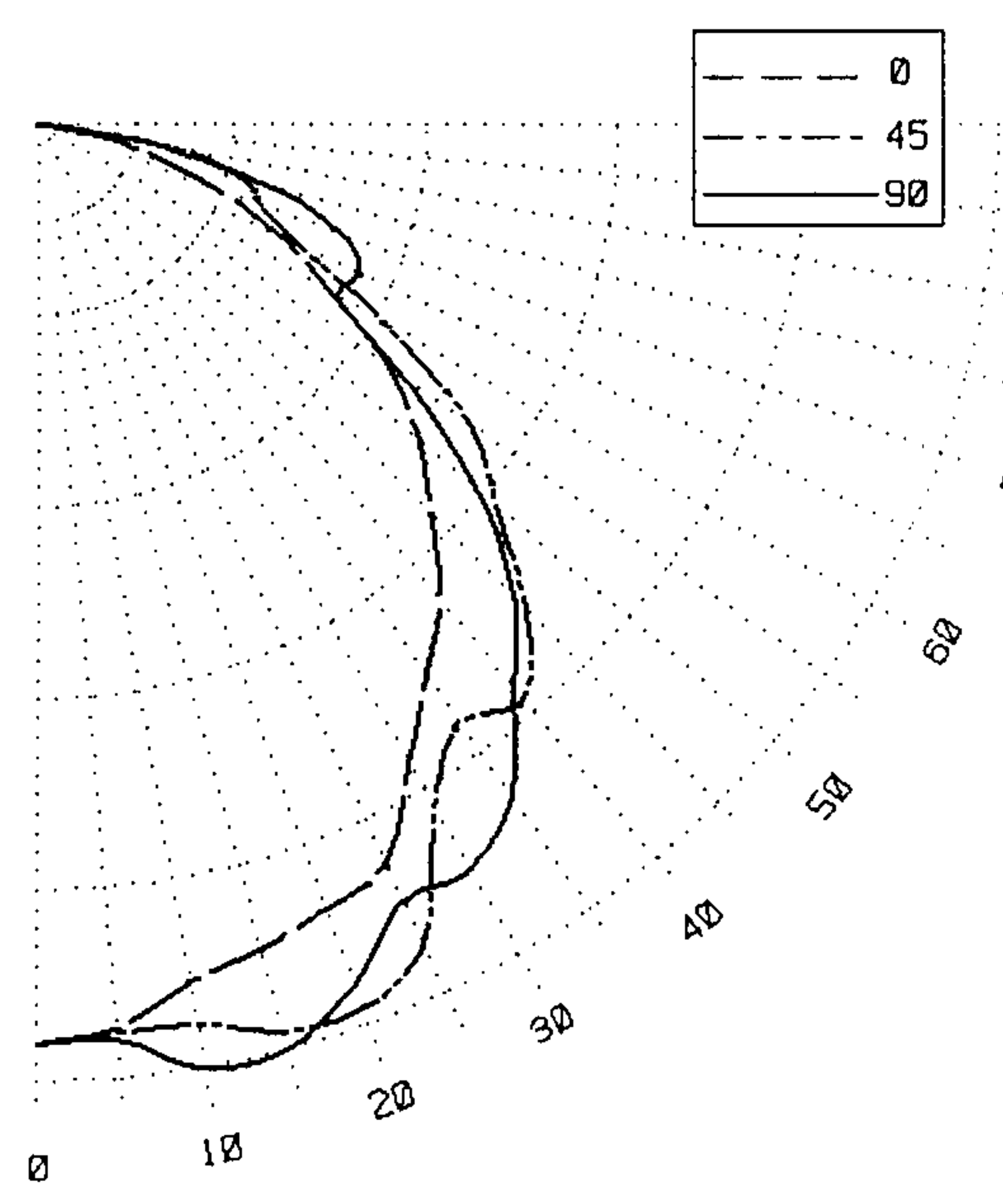


BALLABS CERTIFIED TEST REPORT NO.: 15482.0 DATE 06/07/10
 PREPARED FOR: TECHWRITE - CINCINNATI, OH
 DESCRIPTION: 2/54W T5HO LAMP 4'TECHSTRIP LUMINAIRE
 MIRO4 FORMED ALUMINUM REFLECTOR
 SYLVANIA #QTP2x54T5HO/UNVPSNHT WATTS=114.5
 CATALOG NBR: T442T51MRHT0000 R492T51MRHT0000
 LAMP TYPE : FP54/850/HO/ECO RATED LUMENS 4900. NBR. LAMPS:- 2

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	3217.	3217.	3217.	3217.	3217.	
5	3172.	3151.	3188.	3205.	3213.	303.9
10	3044.	3066.	3191.	3324.	3351.	
15	2984.	3068.	3282.	3334.	3348.	910.6
20	2919.	3143.	3294.	3268.	3214.	
25	2856.	3117.	3178.	3001.	2996.	1414.3
30	2579.	2859.	2756.	2920.	3009.	
35	2349.	2646.	2549.	2922.	2876.	1685.1
40	2174.	2461.	2628.	2594.	2576.	
45	1927.	2106.	2399.	2341.	2339.	1738.4
50	1728.	1891.	2079.	2069.	1999.	
55	1482.	1783.	1835.	1638.	1552.	1519.1
60	1166.	1483.	1374.	1176.	1189.	
65	939.	1181.	999.	1121.	1225.	1087.7
70	660.	867.	817.	1088.	1125.	
75	406.	497.	740.	818.	834.	707.5
80	208.	375.	503.	460.	437.	
85	62.	206.	106.	49.	35.	111.7
90	0.	0.	0.	0.	0.	



[Handwritten signature]

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2629.	26.8	27.7	90-120	0.	.0	.0
0- 40	4314.	44.0	45.5	90-130	0.	.0	.0
0- 60	7571.	77.3	79.9	90-150	0.	.0	.0
0- 90	9478.	96.7	100.0	90-180	0.	.0	.0
TOTAL LUMINAIRE = 0-180					9478.	96.7	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.

BALLABS CERTIFIED TEST REPORT NO.: 15482.0 DATE 06/07/10
 PREPARED FOR: TECHBRITE - CINCINNATI, OH
 DESCRIPTION: 2/54W T5HO LAMP 4'TECHSTRIP LUMINAIRE
 MIRO4 FORMED ALUMINUM REFLECTOR
 SYLVANIA #QTP2x54T5HO/UNVPSNHT WATTS=114.5
 CATALOG NBR: T442T51MRHT0000 R492T51MRHT0000
 LAMP TYPE : FP54/850/HO/ECO RATED LUMENS 4900. NBR. LAMPS:- 2

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	9192.	11444.	11158.
55	8715.	10791.	9127.
65	7494.	7973.	9777.
75	5291.	9644.	10869.
85	2399.	4102.	1355.

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	1.15	1.15	1.15	1.15	1.12	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	.99	.99	.99	.97
1	1.06	1.02	.98	.95	1.04	1.00	.96	.93	.96	.93	.90	.92	.90	.87	.89	.87	.85	.83
2	.97	.90	.84	.78	.95	.88	.82	.77	.85	.80	.76	.81	.77	.74	.79	.75	.72	.70
3	.89	.80	.72	.66	.87	.78	.71	.66	.75	.69	.64	.73	.68	.63	.70	.66	.62	.60
4	.82	.71	.63	.56	.80	.69	.62	.56	.67	.60	.55	.65	.59	.54	.63	.58	.54	.52
5	.75	.63	.54	.48	.73	.61	.54	.48	.59	.52	.47	.58	.51	.47	.56	.50	.46	.44
6	.69	.56	.48	.41	.67	.55	.47	.41	.53	.46	.41	.52	.45	.41	.50	.45	.40	.38
7	.63	.50	.42	.36	.62	.49	.42	.36	.48	.41	.36	.47	.40	.35	.45	.39	.35	.33
8	.58	.45	.37	.31	.57	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29
9	.54	.40	.32	.27	.52	.40	.32	.27	.39	.32	.27	.38	.31	.26	.36	.31	.26	.25
10	.50	.37	.29	.24	.48	.36	.29	.24	.35	.28	.23	.34	.28	.23	.33	.27	.23	.22

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES