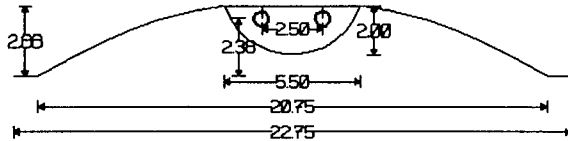
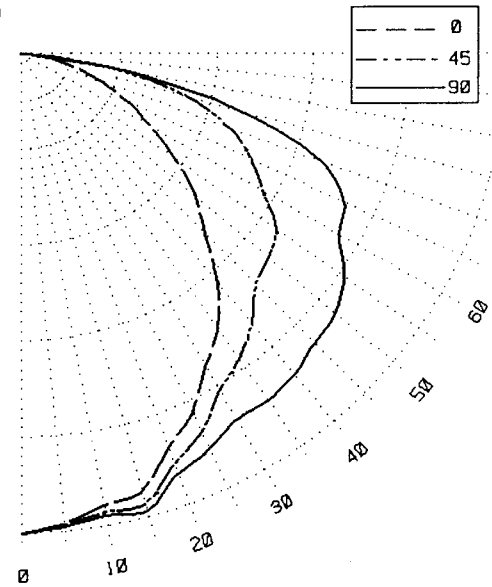


BALLABS CERTIFIED TEST REPORT NO.: 14746.0 DATE 06/26/09  
 PREPARED FOR: SPECTRUM LIGHTING - FALL RIVER, MA  
 DESCRIPTION: 2/54W T5HO LAMP 2x4'RECESSED TROFFER RETROFIT KIT  
 FORMED WHITE REFL w/CLEAR RIBBED ACRYLIC CENTER DIFFUSER  
 ADVANCE BALLAST #ICN-2S54 WATTS=106 REFL=89%  
 CATALOG NBR: LR24254/T5-HO/3.5LA/GW  
 LAMP TYPE : F54T5HO/835 RATED LUMENS 5000. NBR. LAMPS:- 2

### CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	2059.	2059.	2059.	2059.	2059.	193.9
5	2024.	2024.	2031.	2038.	2037.	564.9
10	1966.	1975.	1996.	2010.	2015.	829.6
15	1945.	1967.	2000.	2019.	2027.	1018.2
20	1800.	1832.	1876.	1906.	1919.	1098.9
25	1700.	1740.	1794.	1849.	1873.	1137.3
30	1552.	1595.	1673.	1761.	1812.	1032.3
35	1447.	1496.	1604.	1751.	1817.	713.6
40	1288.	1349.	1518.	1719.	1801.	89.6
45	1093.	1179.	1406.	1664.	1761.	
50	957.	1073.	1368.	1654.	1742.	
55	790.	937.	1318.	1582.	1677.	
60	627.	795.	1181.	1434.	1560.	
65	493.	689.	1074.	1393.	1515.	
70	361.	583.	940.	1250.	1356.	
75	242.	438.	732.	922.	970.	
80	137.	302.	427.	469.	481.	
85	61.	104.	102.	68.	48.	
90	0.	0.	0.	0.	0.	



*[Handwritten signature]*

### LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1588.	15.9	23.8	90-120	0.	.0	.0
0- 40	2607.	26.1	39.0	90-130	0.	.0	.0
0- 60	4843.	48.4	72.5	90-150	0.	.0	.0
0- 90	6678.	66.8	100.0	90-180	0.	.0	.0
TOTAL LUMINAIRE = 0-180					6678.	66.8	100.0

IES SPACING CRITERIA: END= 1.1 DIAGONAL = 1.2 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	2448.	3149.	3944.
55	2181.	3639.	4630.
65	1847.	4025.	5677.
75	1481.	4479.	5935.
85	1108.	1853.	872.

\*\*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	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10
RCR																																						
0	.80	.80	.80	.80	.78	.78	.78	.78	.74	.74	.74	.71	.71	.71	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68	.68
1	.73	.70	.67	.64	.71	.68	.65	.63	.65	.63	.61	.63	.61	.59	.60	.59	.57	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56
2	.66	.60	.56	.52	.64	.59	.55	.51	.57	.53	.50	.54	.51	.49	.52	.50	.48	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	
3	.60	.53	.47	.43	.58	.52	.46	.42	.50	.45	.42	.48	.44	.41	.46	.43	.40	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	
4	.55	.46	.40	.36	.53	.46	.40	.36	.44	.39	.35	.42	.38	.35	.41	.37	.34	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	
5	.50	.41	.34	.30	.48	.40	.34	.30	.38	.33	.29	.37	.33	.29	.36	.32	.29	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	
6	.45	.36	.30	.26	.44	.36	.30	.25	.34	.29	.25	.33	.28	.25	.32	.28	.25	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	
7	.42	.32	.26	.22	.41	.32	.26	.22	.31	.26	.22	.30	.25	.22	.29	.25	.21	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	
8	.38	.29	.23	.19	.37	.28	.23	.19	.28	.22	.19	.27	.22	.19	.26	.22	.18	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	
9	.35	.26	.20	.16	.34	.26	.20	.16	.25	.20	.16	.24	.19	.16	.23	.19	.16	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	
10	.33	.24	.18	.14	.32	.23	.18	.14	.22	.18	.14	.22	.17	.14	.21	.17	.14	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES