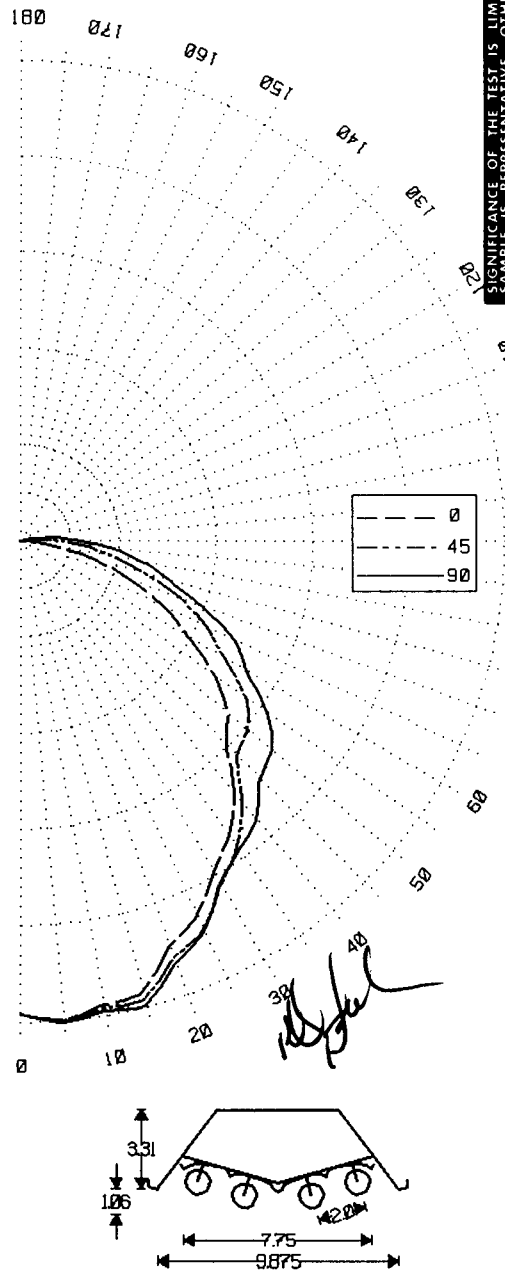


BALLABS CERTIFIED TEST REPORT NO.: 14749.0 DATE 06/22/09
 PREPARED FOR: SPECTRUM LIGHTING - FALL RIVER, MA
 DESCRIPTION: 4/32W T8 LAMP 4' LINEAR SUSPENDED HIGHBAY LUMINAIRE
 HIGHLY SPECULAR REFLECTOR w/OPEN BOTTOM
 2 GE BALLAST #GE332MAX-H/ULTRA WATTS=151
 CATALOG NBR: LM432EX/T8/GW/CP
 LAMP TYPE : F32T8/835/RS RATED LUMENS 2950. NBR. LAMPS: - 4

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	2991.	2991.	2991.	2991.	2991.	
5	3033.	3028.	3038.	3045.	3045.	289.9
10	2971.	2978.	2992.	3004.	3011.	
15	2942.	2961.	2987.	3018.	3028.	846.9
20	2724.	2743.	2798.	2822.	2834.	
25	2611.	2642.	2702.	2717.	2719.	1241.2
30	2417.	2463.	2508.	2506.	2496.	
35	2266.	2326.	2360.	2350.	2384.	1470.1
40	2079.	2144.	2154.	2237.	2297.	
45	1820.	1890.	1912.	2070.	2120.	1518.3
50	1684.	1751.	1852.	2003.	2050.	
55	1480.	1543.	1717.	1828.	1876.	1517.5
60	1200.	1250.	1463.	1578.	1631.	
65	984.	1063.	1274.	1423.	1478.	1238.5
70	728.	855.	1061.	1162.	1202.	
75	481.	620.	807.	903.	953.	805.9
80	253.	426.	587.	725.	781.	
85	79.	230.	412.	527.	572.	407.6
90	11.	93.	232.	335.	378.	
95	0.	2.	110.	201.	239.	118.0
100	0.	0.	7.	71.	105.	
105	0.	0.	0.	9.	9.	3.6
110	0.	0.	0.	0.	0.	
115	0.	0.	0.	0.	0.	0.0
120	0.	0.	0.	0.	0.	
125	0.	0.	0.	0.	0.	0.0
130	0.	0.	0.	0.	0.	
135	0.	0.	0.	0.	0.	0.0
140	0.	0.	0.	0.	0.	
145	0.	0.	0.	0.	0.	0.0
150	0.	0.	0.	0.	0.	
155	0.	0.	0.	0.	0.	0.0
160	0.	0.	0.	0.	0.	
165	0.	0.	0.	0.	0.	0.0
170	0.	0.	0.	0.	0.	
175	0.	0.	0.	0.	0.	0.0
180	0.	0.	0.	0.	0.	



LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2378.	20.2	25.1	90-120	122.	1.0	1.3
0- 40	3848.	32.6	40.7	90-130	122.	1.0	1.3
0- 60	6884.	58.3	72.8	90-150	122.	1.0	1.3
0- 90	9336.	79.1	98.7	90-180	122.	1.0	1.3

TOTAL LUMINAIRE = 0-180

9458. 80.1 100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.3 CROSS= 1.3

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

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VERT ANGLE	LUMINANCES-CD/SQ-M HORIZONTAL ANGLE		
	0	45	90
45	8216.	7846.	8700.
55	8236.	8361.	9135.
65	7432.	7923.	9192.
75	5932.	7248.	8559.
85	2893.	7041.	9775.

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	.95	.95	.95	.95	.93	.93	.93	.93	.88	.88	.88	.84	.84	.84	.81	.81	.81	.79
1	.87	.83	.79	.76	.84	.81	.77	.74	.77	.74	.72	.74	.71	.69	.71	.69	.67	.65
2	.79	.72	.66	.61	.76	.70	.65	.61	.67	.63	.59	.64	.61	.58	.62	.59	.56	.54
3	.72	.63	.57	.51	.70	.62	.56	.51	.59	.54	.50	.57	.53	.49	.55	.51	.48	.46
4	.66	.56	.49	.44	.64	.55	.48	.43	.53	.47	.42	.51	.46	.42	.49	.45	.41	.39
5	.60	.49	.42	.37	.58	.48	.42	.36	.47	.40	.36	.45	.40	.35	.43	.39	.35	.33
6	.55	.44	.37	.32	.53	.43	.36	.31	.42	.36	.31	.40	.35	.31	.39	.34	.30	.29
7	.51	.40	.32	.27	.49	.39	.32	.27	.38	.31	.27	.36	.31	.27	.35	.30	.26	.25
8	.47	.36	.29	.24	.45	.35	.28	.24	.34	.28	.23	.33	.27	.23	.32	.27	.23	.21
9	.43	.32	.25	.20	.42	.31	.25	.20	.30	.24	.20	.29	.24	.20	.28	.23	.20	.18
10	.40	.29	.22	.18	.39	.29	.22	.18	.28	.22	.18	.27	.21	.18	.26	.21	.18	.16

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES