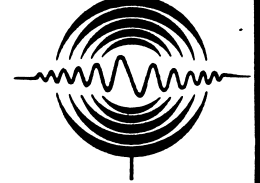


BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

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BALLABS CERTIFIED TEST REPORT NO.: 8425.0 DATE 08/29/95
 PREPARED FOR: GROSS CHANDELIER COMPANY - ST. LOUIS, MISSOURI
 DESCRIPTION: 1/250W CTD ED28 LAMP 24"DIA DIR/INDIRECT LUMINAIRE
 CLR/FROSTED/LENS w/WHITE REFLECTOR
 WHITE ACRYLIC BOWL w/OPEN TOP

CATALOG NBR: ***

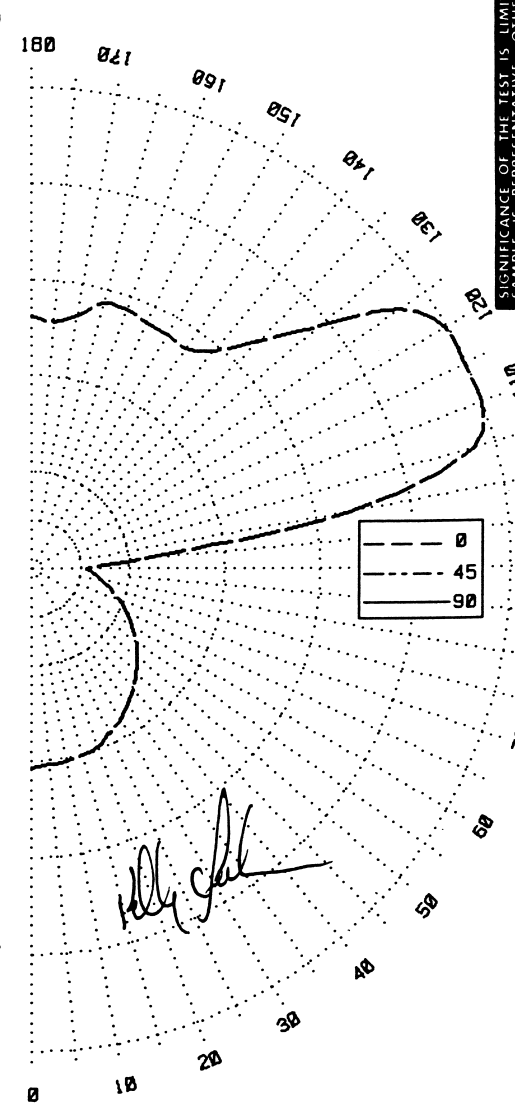
LAMP TYPE : M58PH-250

LUMENS 22000.

NBR. LAMPS:- 1

CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	912.	
5	902.	86.1
10	897.	
15	886.	251.2
20	875.	
25	836.	386.7
30	808.	
35	764.	479.9
40	721.	
45	675.	523.0
50	630.	
55	583.	523.0
60	528.	
65	477.	473.0
70	422.	
75	374.	395.9
80	326.	
85	287.	313.1
90	247.	
95	509.	555.8
100	1489.	
105	2115.	2237.9
110	2213.	
115	2203.	2186.6
120	2204.	
125	2076.	1862.7
130	1732.	
135	1475.	1142.4
140	1303.	
145	1232.	773.6
150	1240.	
155	1246.	576.6
160	1266.	
165	1266.	358.9
170	1180.	
175	1140.	108.8
180	1162.	



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

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	724.	3.3	5.5	90-120	4980.	22.6	37.6
0- 40	1204.	5.5	9.1	90-130	6843.	31.1	51.7
0- 60	2250.	10.2	17.0	90-150	8759.	39.8	66.2
0- 90	3432.	15.6	25.9	90-180	9803.	44.6	74.1

TOTAL LUMINAIRE = 0-180 13235. 60.2 100.0

IES SPACING CRITERIA: ADJACENT= 1.3

DIAGONAL= .9

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CATALOG NBR: ***
 LAMP TYPE : M58PH-250 LUMENS 22000. NBR. LAMPS:- 1

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	.00
RCR																					
0	.61	.61	.61	.61	.54	.54	.54	.54	.42	.42	.42	.31	.31	.31	.20	.20	.20	.20	.20	.20	.16
1	.55	.52	.50	.48	.49	.47	.45	.43	.36	.35	.33	.26	.25	.25	.17	.17	.17	.16	.16	.16	.12
2	.50	.45	.42	.38	.44	.40	.37	.35	.31	.29	.27	.23	.21	.20	.15	.14	.13	.13	.13	.13	.10
3	.45	.40	.35	.32	.40	.35	.32	.29	.27	.25	.23	.20	.18	.17	.13	.12	.11	.11	.11	.11	.08
4	.41	.35	.30	.27	.37	.31	.27	.24	.24	.21	.19	.18	.16	.14	.12	.10	.09	.09	.09	.09	.07
5	.38	.31	.26	.23	.33	.28	.24	.20	.21	.18	.16	.16	.14	.12	.10	.09	.08	.08	.08	.08	.06
6	.35	.28	.23	.19	.31	.25	.21	.18	.19	.16	.14	.14	.12	.10	.09	.08	.07	.07	.07	.07	.05
7	.32	.25	.20	.17	.28	.22	.18	.15	.17	.14	.12	.13	.11	.09	.08	.07	.06	.06	.06	.06	.04
8	.30	.22	.18	.15	.26	.20	.16	.13	.16	.13	.11	.11	.09	.08	.07	.06	.05	.05	.05	.05	.04
9	.27	.20	.16	.13	.24	.18	.14	.12	.14	.11	.09	.10	.08	.07	.07	.05	.05	.05	.05	.05	.03
10	.26	.19	.14	.12	.23	.17	.13	.11	.13	.10	.08	.09	.08	.06	.06	.05	.04	.04	.04	.04	.03

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES