



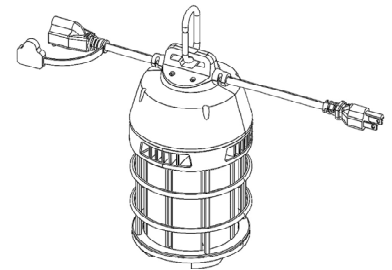
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 15761 TIGER ECONOMY PACK 100-WATT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GMS-3000
[TESTLAB] SHENZHEN BELLING EFFICIENCY
[TESTDATE]
[ISSUEDATE] 04-18-2024
[MANUFAC] ENGINEERED PRODUCTS CO.
[LUMCAT] 15761

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11398
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	95.45
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	53438	59487	57324
55	63420	73236	67916
65	70932	85838	76403
75	85146	103531	90343
85	104635	127621	109725

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	196.908	196.908	196.908	196.908	196.908	196.908	196.908	196.908	196.908	196.908
5	214.031	214.878	216.572	211.279	217.630	217.842	218.900	216.572	218.054	218.689
10	237.530	246.210	238.800	226.522	229.486	232.449	244.093	248.115	244.093	242.823
15	254.466	258.489	258.277	252.773	247.692	256.583	270.768	280.929	275.213	269.497
20	332.796	321.788	338.512	338.724	347.192	354.390	361.164	370.268	364.340	370.479
25	420.018	417.266	421.076	433.143	436.319	455.160	446.904	461.300	432.297	460.453
30	464.052	494.960	475.696	511.050	496.019	530.315	518.036	530.103	487.127	525.234
35	523.964	558.895	558.895	580.488	553.179	612.879	610.973	617.960	553.390	603.564
40	599.541	634.261	648.868	659.453	626.851	705.604	689.303	715.766	624.734	696.925
45	695.654	745.616	774.408	747.522	746.251	797.695	822.676	798.118	720.424	779.065
50	736.301	866.922	840.247	879.624	797.483	934.031	912.438	927.680	795.366	907.145
55	830.297	936.360	958.801	935.937	889.150	1009.398	1026.122	1003.682	864.381	981.029
60	832.838	1007.492	984.840	1012.996	879.412	1079.894	1040.941	1082.011	869.250	1054.278
65	905.663	1056.395	1095.984	1063.805	975.525	1135.784	1173.044	1128.798	965.363	1114.402
70	968.327	1157.378	1155.896	1153.355	1022.523	1222.158	1222.370	1223.005	1001.776	1204.376
75	1026.545	1222.158	1248.198	1233.590	1089.209	1295.196	1325.469	1290.962	1081.376	1279.106
80	1124.775	1346.640	1350.238	1340.500	1182.570	1417.136	1426.663	1405.493	1156.954	1390.885
85	1148.698	1384.534	1401.047	1374.796	1204.587	1442.541	1462.864	1433.438	1169.021	1417.560
90	1152.932	1395.966	1405.916	1378.607	1209.245	1447.410	1459.054	1436.825	1166.904	1423.064
95	1155.260	1388.768	1396.601	1370.774	1228.086	1462.017	1459.265	1441.271	1179.183	1426.663
100	1104.029	1311.074	1308.533	1275.296	1173.255	1356.166	1367.598	1330.974	1104.664	1318.695
105	1040.941	1246.081	1222.794	1224.276	1117.789	1300.277	1269.368	1280.165	1053.432	1265.134
110	1006.222	1135.572	1170.927	1108.263	1084.764	1187.016	1220.465	1161.612	1005.375	1146.581
115	867.133	1058.724	993.520	1022.311	933.396	1094.079	1030.356	1067.192	857.819	1066.769
120	877.930	966.634	992.461	956.684	953.296	995.425	1029.298	980.183	878.142	963.458
125	755.566	907.569	838.342	865.228	821.406	929.374	869.039	900.582	740.535	902.699
130	639.765	771.867	768.903	754.084	766.998	788.168	801.929	781.394	692.691	771.656
135	473.367	679.565	647.810	648.021	656.066	684.646	673.002	669.192	587.474	667.075
140	273.520	560.588	555.507	535.607	553.602	561.435	568.421	544.499	499.406	542.382
145	149.039	475.060	431.450	446.481	445.210	470.403	449.868	452.620	395.037	453.678
150	117.918	342.746	360.106	342.323	376.407	367.304	367.939	357.566	329.621	359.047
155	106.275	251.714	245.151	251.291	276.907	259.971	255.313	250.021	227.368	252.984
160	96.748	149.462	151.156	134.008	166.610	141.206	143.111	122.999	127.657	122.364
165	41.705	56.948	41.917	37.471	46.786	44.034	39.165	41.917	40.012	37.683
170	21.805	23.076	18.630	11.009	12.279	10.162	11.855	9.738	12.490	15.031
175	8.256	7.621	6.563	5.293	4.869	3.811	3.599	3.387	3.811	4.022
180	3.362	3.362	3.362	3.362	3.362	3.362	3.362	3.362	3.362	3.362

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	196.908	196.908	196.908	196.908	196.908	196.908	196.908
5	213.184	209.585	220.806	219.112	218.265	213.820	214.031
10	247.480	239.436	241.341	245.363	252.138	243.670	237.530
15	266.745	259.336	266.322	264.628	267.804	259.124	254.466
20	336.607	327.927	358.624	343.381	339.359	332.161	332.796
25	413.032	419.806	458.124	440.341	427.851	423.828	420.018
30	490.515	496.019	528.621	518.459	491.997	495.384	464.052
35	585.146	578.795	584.934	598.695	576.466	561.858	523.964
40	666.863	663.687	660.724	676.178	676.178	636.801	599.541
45	794.308	765.093	773.773	769.327	804.893	749.215	695.654
50	887.669	895.078	845.328	906.933	876.872	869.886	736.301
55	997.754	965.999	917.307	974.678	987.169	941.653	830.297
60	1015.749	1039.671	913.708	1064.440	1018.289	1017.866	832.838

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CANDELA TABULATION - (Cont.)

65	1141.712	1091.750	1022.311	1106.781	1141.500	1075.025	905.663
70	1189.133	1187.016	1054.914	1207.339	1199.083	1167.963	968.327
75	1286.093	1253.067	1141.288	1291.174	1301.759	1246.716	1026.545
80	1390.885	1375.008	1211.150	1407.186	1401.047	1349.815	1124.775
85	1423.276	1399.989	1222.582	1435.555	1450.797	1387.286	1148.698
90	1424.758	1409.939	1212.420	1444.023	1455.243	1397.660	1152.932
95	1424.334	1416.290	1208.398	1438.518	1449.950	1393.214	1155.260
100	1336.054	1318.060	1128.374	1329.492	1349.603	1304.299	1104.029
105	1233.802	1259.418	1079.048	1282.494	1266.404	1246.293	1040.941
110	1203.317	1159.495	1012.785	1158.859	1216.019	1140.230	1006.222
115	1003.470	1067.192	878.354	1075.660	1023.158	1046.022	867.133
120	996.484	970.233	896.137	1002.623	1035.225	974.890	877.930
125	849.986	911.168	746.040	911.168	864.805	897.619	755.566
130	777.160	774.831	712.167	789.650	806.375	770.597	639.765
135	656.066	675.754	604.199	673.637	673.637	673.637	473.367
140	539.206	521.635	526.292	565.034	585.992	559.530	273.520
145	427.639	415.149	422.770	473.155	469.980	458.759	149.039
150	348.039	336.819	331.950	362.858	380.218	350.579	117.918
155	194.978	218.054	215.513	266.957	275.848	261.664	106.275
160	113.261	123.634	128.927	136.125	168.727	156.236	96.748
165	35.143	32.602	28.368	39.165	44.669	59.912	41.705
170	13.549	7.621	7.833	12.702	20.747	24.346	21.805
175	3.387	2.752	4.869	5.716	6.986	7.621	8.256
180	3.362	3.362	3.362	3.362	3.362	3.362	3.362

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	101.42	N.A.	0.90
0-30	302.19	N.A.	2.70
0-40	668.44	N.A.	5.90
0-60	2108.68	N.A.	18.50
0-80	4477.74	N.A.	39.30
0-90	5954.36	N.A.	52.20
10-90	5933.05	N.A.	52.10
20-40	567.02	N.A.	5.00
20-50	1162.05	N.A.	10.20
40-70	2505.55	N.A.	22.00
60-80	2369.06	N.A.	20.80
70-80	1303.74	N.A.	11.40
80-90	1476.62	N.A.	13.00
90-110	2743.08	N.A.	24.10
90-120	3763.79	N.A.	33.00
90-130	4537.03	N.A.	39.80
90-150	5312.06	N.A.	46.60
90-180	5443.26	N.A.	47.80
110-180	2700.17	N.A.	23.70
0-180	11397.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.30
10-20	80.11
20-30	200.77
30-40	366.25
40-50	595.03
50-60	845.21
60-70	1065.32
70-80	1303.74
80-90	1476.62
90-100	1464.73
100-110	1278.35
110-120	1020.7
120-130	773.25
130-140	502.27
140-150	272.75
150-160	112.37
160-170	18.02
170-180	0.81

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	92	85	78	72	84	78	72	67	64	60	56	52	49	46	41	39	36	31
2	81	70	62	54	74	64	57	50	53	47	41	42	38	33	33	29	26	21
3	73	60	50	42	66	55	46	39	45	38	32	36	30	26	27	23	19	15
4	66	52	42	34	59	47	38	31	39	31	26	31	25	20	23	19	15	11
5	60	45	36	28	54	41	33	26	34	27	21	27	21	17	20	16	12	9
6	55	40	31	24	49	37	28	22	30	23	18	24	18	14	18	14	10	7
7	50	36	27	20	45	33	24	18	27	20	15	21	16	12	16	12	8	6
8	46	32	23	17	42	30	21	16	24	18	13	19	14	10	15	10	7	5
9	43	29	21	15	39	27	19	14	22	16	11	18	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

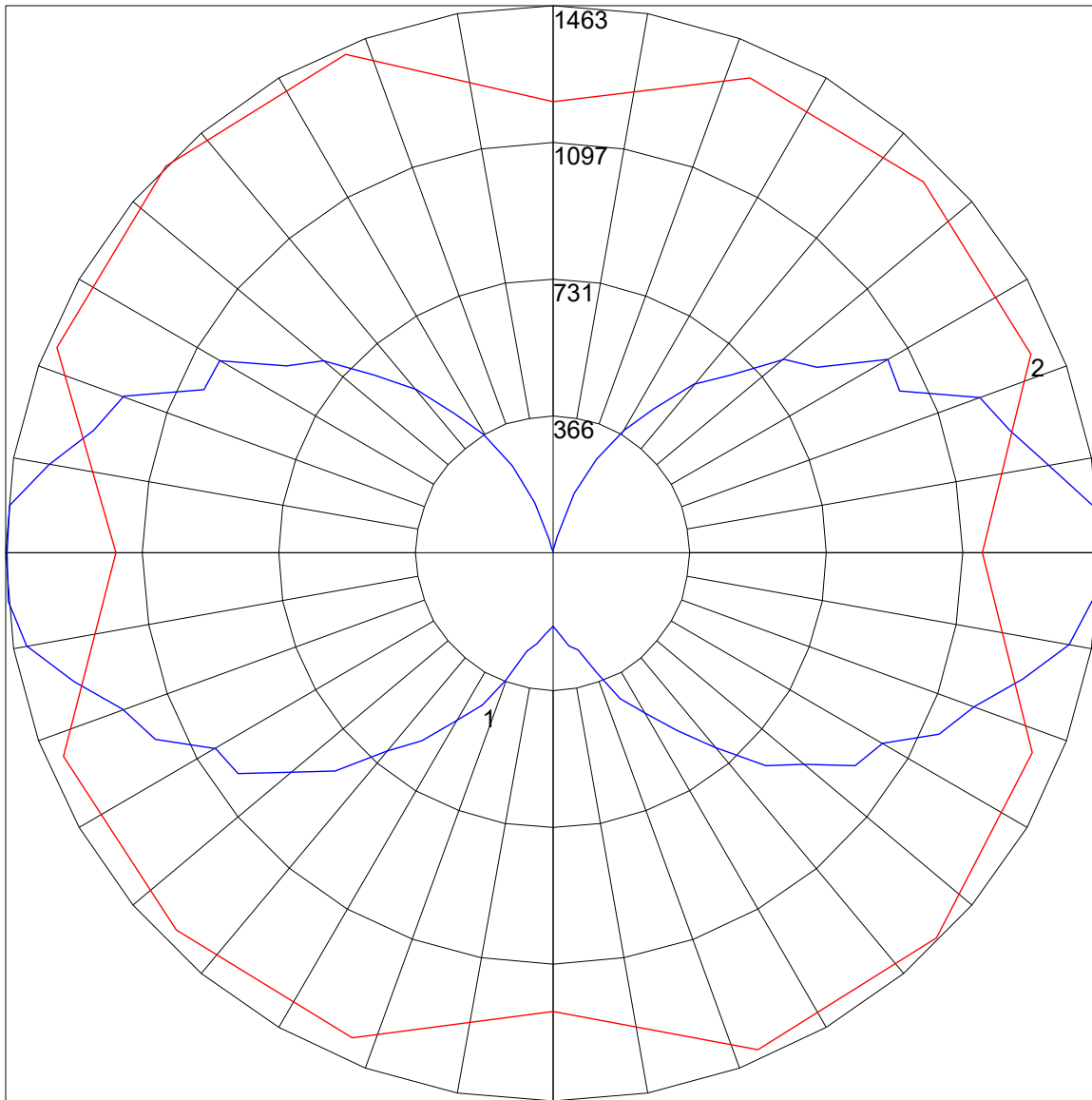
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	22.3	23.4	23.2	24.3	25.6	22.6	23.7	23.5	24.6	25.8
	3H	25.6	26.6	26.5	27.6	28.8	25.9	26.9	26.8	27.8	29.1
	4H	27.2	28.2	28.2	29.2	30.4	27.5	28.5	28.5	29.5	30.7
	6H	29.0	29.9	29.9	30.8	32.1	29.3	30.2	30.2	31.1	32.4
	8H	29.8	30.7	30.7	31.7	32.9	30.1	31.0	31.0	32.0	33.2
	12H	30.6	31.4	31.5	32.4	33.7	30.9	31.7	31.8	32.7	34.0
4H	2H	23.4	24.4	24.3	25.3	26.6	23.6	24.6	24.5	25.5	26.8
	3H	26.9	27.8	27.8	28.7	30.0	27.1	28.0	28.1	29.0	30.2
	4H	28.7	29.5	29.7	30.5	31.8	29.0	29.8	29.9	30.7	32.0
	6H	30.6	31.3	31.6	32.3	33.6	30.9	31.6	31.8	32.6	33.9
	8H	31.5	32.2	32.5	33.2	34.5	31.8	32.4	32.7	33.4	34.8
	12H	32.4	33.0	33.4	34.0	35.3	32.7	33.3	33.6	34.3	35.6
8H	4H	29.5	30.2	30.5	31.2	32.5	29.7	30.4	30.6	31.4	32.7
	6H	31.6	32.2	32.6	33.3	34.6	31.8	32.4	32.8	33.5	34.8
	8H	32.7	33.2	33.7	34.3	35.6	32.9	33.5	33.9	34.5	35.8
	12H	33.8	34.2	34.8	35.3	36.6	34.0	34.5	35.0	35.5	36.8
12H	4H	29.7	30.3	30.7	31.3	32.6	29.9	30.5	30.9	31.5	32.8
	6H	31.9	32.5	32.9	33.5	34.8	32.1	32.6	33.1	33.7	35.0
	8H	33.1	33.6	34.1	34.6	35.9	33.3	33.8	34.3	34.8	36.1

Maximum UGR = 36.8

POLAR GRAPH



Maximum Candela = 1462.864 Located At Horizontal Angle = 135, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)