



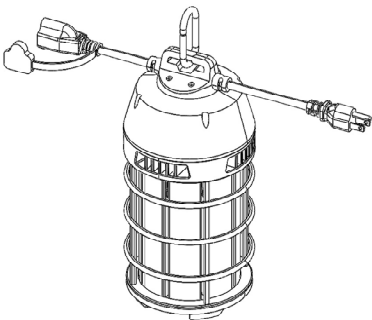
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 15762 TIGER ECONOMY PACK 150-WATT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GMS-3000
[TESTLAB] SHENZHEN BELLING TECHNOLOGY
[TESTDATE]
[ISSUEDATE] 04-18-2024
[MANUFAC] ENGINEERED PRODUCTS CO.
[LUMCAT] 15762

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	149.25
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	0.45 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	79779	82860	81966
55	87583	93878	91837
65	99221	108288	104715
75	118123	129865	125506
85	135273	149411	146877

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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	298.251	298.251	298.251	298.251	298.251	298.251	298.251	298.251	298.251	298.251
5	328.562	327.504	321.788	322.635	331.950	321.788	320.094	316.707	313.955	314.167
10	363.493	363.917	374.078	379.583	380.429	373.232	377.254	358.624	348.886	362.858
15	422.770	431.661	432.085	442.035	432.085	419.806	405.199	391.015	373.020	396.519
20	595.519	606.104	595.096	602.505	596.789	553.602	523.964	498.559	516.554	493.267
25	714.496	758.107	700.947	748.368	728.892	726.563	665.169	678.506	663.687	679.777
30	868.827	883.223	867.557	872.003	870.309	851.256	825.216	816.113	793.461	818.654
35	978.701	1028.027	992.250	1010.456	989.286	990.556	990.979	948.851	910.744	956.260
40	1091.750	1148.698	1112.920	1129.009	1106.569	1119.906	1123.929	1087.304	1019.983	1093.655
45	1227.663	1272.332	1275.084	1243.329	1261.324	1275.931	1290.750	1256.666	1166.693	1248.198
50	1303.876	1413.114	1385.593	1400.835	1350.450	1433.861	1398.930	1407.186	1246.928	1386.863
55	1390.250	1512.191	1490.174	1479.165	1457.783	1530.397	1549.239	1494.408	1362.094	1484.670
60	1433.226	1585.652	1554.531	1574.431	1529.551	1639.212	1636.249	1597.295	1416.713	1598.989
65	1575.278	1697.642	1719.236	1675.414	1662.500	1753.108	1771.103	1707.592	1532.091	1697.007
70	1666.310	1838.636	1813.444	1823.605	1789.309	1898.125	1920.142	1846.893	1665.252	1830.592
75	1818.736	1975.184	1999.530	1966.081	1932.420	2026.840	2052.879	1980.265	1769.621	1965.023
80	1950.203	2136.502	2130.362	2106.228	2085.058	2222.241	2232.826	2167.410	1920.353	2148.569
85	1954.649	2146.452	2158.942	2127.822	2122.317	2258.231	2296.125	2212.714	1963.117	2204.035
90	1950.839	2150.474	2155.132	2131.633	2112.367	2273.261	2300.783	2229.862	1964.176	2221.818
95	1931.785	2108.769	2108.980	2083.999	2118.507	2273.261	2304.593	2238.331	1974.973	2231.344
100	1791.850	1960.153	1954.861	1924.587	1966.081	2108.134	2146.452	2084.846	1859.171	2093.526
105	1706.746	1866.793	1853.032	1858.536	1871.662	2021.336	2010.962	1992.967	1755.437	1983.441
110	1582.264	1706.322	1700.394	1659.536	1775.337	1855.572	1924.587	1836.731	1690.021	1852.820
115	1432.379	1584.593	1559.612	1586.499	1578.242	1718.389	1680.283	1693.408	1476.625	1697.642
120	1380.300	1465.616	1463.711	1449.527	1532.514	1586.710	1625.875	1570.833	1455.031	1575.278
125	1209.668	1315.308	1274.661	1271.485	1344.946	1433.861	1435.555	1416.713	1294.137	1432.167
130	1102.970	1149.545	1164.999	1103.817	1206.916	1260.265	1272.332	1255.608	1148.063	1276.143
135	943.558	989.074	990.768	916.248	1046.657	1111.650	1120.330	1108.898	1024.217	1130.491
140	788.592	837.707	802.141	782.876	888.515	952.026	952.450	941.653	877.719	954.567
145	663.264	689.727	648.868	640.612	701.370	793.249	800.659	781.817	742.441	798.118
150	504.064	516.554	499.406	518.248	543.652	618.171	649.927	613.726	613.937	623.040
155	378.101	352.273	379.583	377.466	374.290	458.971	448.598	468.498	423.617	488.186
160	211.702	189.474	197.095	193.073	246.633	280.506	311.838	306.334	307.604	316.707
165	75.789	76.213	65.628	61.817	96.536	110.085	111.356	124.693	117.495	136.125
170	26.675	24.769	18.630	11.855	22.440	30.909	39.588	45.939	45.939	47.421
175	6.986	5.928	4.657	4.234	5.081	5.716	9.950	12.914	14.184	13.761
180	4.122	4.122	4.122	4.122	4.122	4.122	4.122	4.122	4.122	4.122

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	298.251	298.251	298.251	298.251	298.251	298.251	298.251
5	318.401	319.459	366.457	364.552	347.827	340.206	328.562
10	364.763	358.624	398.001	403.293	401.600	374.078	363.493
15	389.321	393.343	450.715	450.503	447.539	438.012	422.770
20	504.699	512.532	615.843	624.099	606.104	610.973	595.519
25	634.896	674.272	745.193	776.948	729.315	763.611	714.496
30	777.583	804.893	899.101	899.947	905.028	893.173	868.827
35	944.405	933.396	1007.492	1070.580	1022.735	1037.342	978.701
40	1067.192	1053.643	1114.190	1190.615	1158.859	1149.545	1091.750
45	1226.816	1202.470	1281.435	1310.862	1340.924	1265.346	1227.663
50	1343.676	1329.703	1376.066	1483.399	1456.090	1429.839	1303.876
55	1480.012	1436.613	1466.887	1571.891	1552.203	1511.556	1390.250
60	1564.693	1528.280	1534.420	1681.976	1635.190	1605.763	1433.226

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CANDELA TABULATION - (Cont.)

65	1683.670	1629.898	1685.999	1793.755	1822.758	1708.651	1575.278
70	1830.380	1783.594	1788.039	1947.240	1915.484	1866.581	1666.310
75	1949.780	1894.314	1952.956	2093.103	2105.805	2002.494	1818.736
80	2132.267	2086.752	2085.270	2266.699	2244.258	2142.641	1950.203
85	2211.656	2135.655	2117.872	2289.986	2293.373	2162.753	1954.649
90	2219.912	2150.262	2104.111	2296.125	2291.468	2167.834	1950.839
95	2225.840	2155.978	2093.526	2270.298	2253.997	2135.020	1931.785
100	2096.702	2024.088	1939.407	2086.963	2086.752	1971.585	1791.850
105	1946.816	1917.178	1844.141	2021.970	1970.315	1887.540	1706.746
110	1890.715	1779.571	1705.899	1804.552	1806.669	1702.511	1582.264
115	1640.694	1658.901	1533.150	1714.579	1617.831	1595.390	1432.379
120	1594.332	1523.200	1498.430	1575.702	1535.690	1479.589	1380.300
125	1416.501	1395.543	1304.723	1422.853	1345.369	1326.528	1209.668
130	1249.680	1221.947	1191.038	1253.067	1217.924	1155.472	1102.970
135	1112.920	1089.421	1010.244	1079.471	1032.685	989.709	943.558
140	944.828	925.775	857.819	917.519	857.395	845.963	788.592
145	786.475	773.984	722.541	752.391	710.262	695.019	663.264
150	649.292	598.483	554.449	585.357	549.791	541.535	504.064
155	434.625	467.863	417.477	425.945	396.519	387.204	378.101
160	310.568	295.325	260.606	223.134	223.346	200.271	211.702
165	113.473	106.910	71.555	63.087	74.731	79.388	75.789
170	41.494	25.616	12.490	13.549	21.594	26.463	26.675
175	12.279	8.045	5.716	4.869	6.351	6.774	6.986
180	4.122	4.122	4.122	4.122	4.122	4.122	4.122

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	161.00	N.A.	0.90
0-30	493.03	N.A.	2.70
0-40	1114.31	N.A.	6.10
0-60	3417.39	N.A.	18.80
0-80	7190.44	N.A.	39.50
0-90	9544.61	N.A.	52.40
10-90	9511.93	N.A.	52.20
20-40	953.31	N.A.	5.20
20-50	1926.17	N.A.	10.60
40-70	3988.27	N.A.	21.90
60-80	3773.05	N.A.	20.70
70-80	2087.85	N.A.	11.50
80-90	2354.17	N.A.	12.90
90-110	4323.09	N.A.	23.70
90-120	5939.24	N.A.	32.60
90-130	7158.5	N.A.	39.30
90-150	8430.42	N.A.	46.30
90-180	8663.62	N.A.	47.60
110-180	4340.53	N.A.	23.80
0-180	18208.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.68
10-20	128.32
20-30	332.03
30-40	621.28
40-50	972.86
50-60	1330.22
60-70	1685.2
70-80	2087.85
80-90	2354.17
90-100	2315.85
100-110	2007.24
110-120	1616.15
120-130	1219.26
130-140	810.42
140-150	461.50
150-160	195.92
160-170	35.83
170-180	1.45

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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	73	84	78	72	67	65	60	56	52	49	46	41	39	36	31
2	81	71	62	54	74	64	57	50	53	47	42	43	38	34	33	29	26	21
3	73	60	50	43	66	55	46	39	45	38	32	36	30	26	27	23	20	15
4	66	52	42	34	59	47	38	31	39	32	26	31	25	21	23	19	15	11
5	60	46	36	28	54	42	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	46	33	24	19	27	20	15	21	16	12	16	12	9	6
8	46	32	23	17	42	30	22	16	24	18	13	19	14	10	15	11	7	5
9	43	29	21	15	39	27	19	14	22	16	11	18	13	9	14	9	6	4
10	40	27	19	13	37	24	17	12	20	14	10	16	11	8	12	8	6	3

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UGR TABLE - CORRECTED

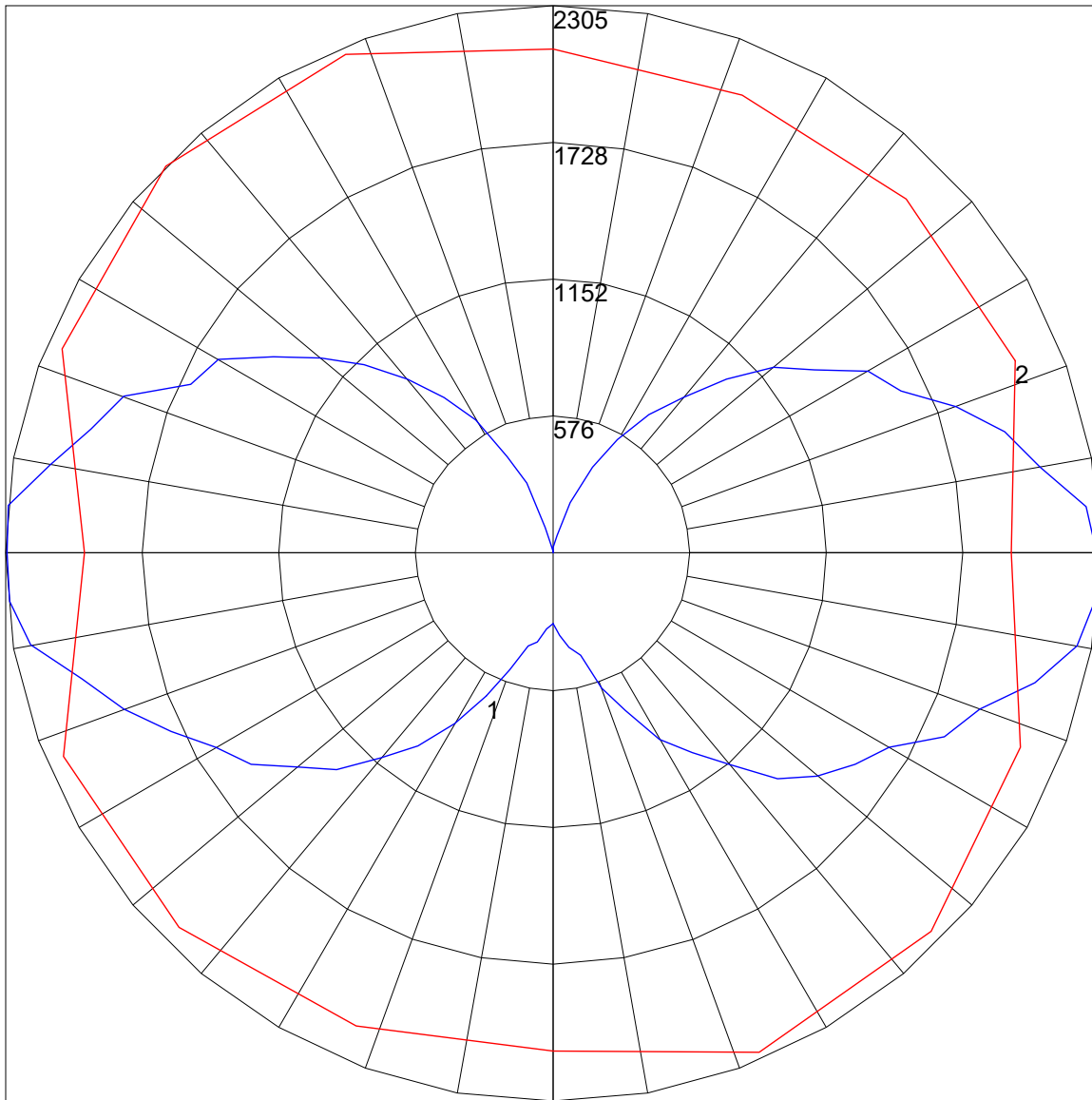
Reflectances

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	23.4	24.4	24.3	25.4	26.6	23.4	24.5	24.3	25.5	26.7
	3H	26.7	27.7	27.6	28.7	29.9	26.9	27.9	27.8	28.9	30.1
	4H	28.4	29.4	29.4	30.4	31.6	28.7	29.6	29.6	30.6	31.8
	6H	30.2	31.1	31.1	32.1	33.3	30.5	31.4	31.4	32.3	33.6
	8H	31.0	31.9	31.9	32.9	34.1	31.3	32.2	32.3	33.2	34.4
	12H	31.8	32.6	32.7	33.6	34.9	32.1	33.0	33.1	33.9	35.2
4H	2H	24.4	25.3	25.3	26.3	27.5	24.4	25.4	25.3	26.3	27.6
	3H	27.9	28.8	28.9	29.8	31.0	28.0	28.9	29.0	29.9	31.1
	4H	29.8	30.6	30.7	31.6	32.9	29.9	30.7	30.9	31.7	33.0
	6H	31.7	32.4	32.7	33.4	34.7	31.9	32.6	32.9	33.6	34.9
	8H	32.6	33.3	33.6	34.3	35.6	32.8	33.5	33.8	34.5	35.8
	12H	33.5	34.1	34.4	35.1	36.4	33.7	34.4	34.7	35.4	36.7
8H	4H	30.5	31.2	31.5	32.2	33.5	30.6	31.3	31.6	32.3	33.6
	6H	32.6	33.2	33.6	34.3	35.6	32.8	33.4	33.8	34.4	35.7
	8H	33.7	34.2	34.7	35.2	36.6	33.9	34.4	34.8	35.4	36.7
	12H	34.7	35.2	35.7	36.2	37.6	35.0	35.4	35.9	36.4	37.8
12H	4H	30.7	31.3	31.7	32.3	33.6	30.8	31.4	31.8	32.4	33.7
	6H	32.9	33.4	33.9	34.4	35.8	33.0	33.6	34.0	34.6	35.9
	8H	34.0	34.5	35.0	35.5	36.9	34.2	34.7	35.2	35.7	37.0

Maximum UGR = 37.8

POLAR GRAPH



Maximum Candela = 2304.593 Located At Horizontal Angle = 135, Vertical Angle = 95
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (95) (Through Max. Cd.)