

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-BP2233W-DIM-UNV\_40W\_4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13374551.04

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11/15/2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] BP-22-LS-8CS-BP2233W-DIM-UNV-40W-4000k

[LUMINAIRE] Formed white steel housing, white louver

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.81 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4031	3707	4011
55	3527	3183	3490
65	2576	2485	2535
75	1714	1719	1722
85	1442	1445	1460

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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>
0.0	1641.783	1641.783	1641.783	1641.783	1641.783
0.5	1644.299	1642.622	1641.783	1640.106	1638.429
1.0	1643.460	1641.783	1641.783	1640.945	1637.591
1.5	1642.622	1640.945	1640.106	1639.268	1637.591
2.0	1642.622	1640.106	1639.268	1637.591	1635.914
2.5	1639.268	1638.429	1637.591	1636.752	1633.398
3.0	1637.591	1635.914	1635.075	1635.075	1632.560
3.5	1635.075	1633.398	1633.398	1632.560	1629.206
4.0	1632.560	1630.883	1630.044	1630.883	1627.529
4.5	1630.044	1627.529	1626.690	1626.690	1625.013
5.0	1625.852	1624.175	1624.175	1623.336	1621.659
5.5	1621.659	1620.821	1620.821	1619.982	1617.467
6.0	1617.467	1616.628	1615.790	1615.790	1613.274
6.5	1613.274	1611.597	1610.759	1609.920	1608.243
7.0	1608.243	1605.728	1605.728	1604.889	1602.374
7.5	1601.535	1600.697	1600.697	1599.858	1597.343
8.0	1594.827	1594.827	1594.827	1593.989	1591.473
8.5	1588.119	1588.119	1588.119	1587.281	1585.604
9.0	1581.411	1581.411	1581.411	1581.411	1578.896
9.5	1575.542	1573.865	1574.703	1573.865	1571.349
10.0	1567.995	1566.318	1566.318	1566.318	1564.641
10.5	1559.610	1559.610	1558.772	1557.933	1557.933
11.0	1553.741	1552.064	1550.387	1550.387	1550.387
11.5	1547.033	1544.517	1542.002	1542.840	1542.840
12.0	1540.325	1536.132	1533.617	1535.294	1535.294
12.5	1531.940	1528.586	1524.393	1527.747	1527.747
13.0	1525.232	1521.039	1514.331	1518.524	1521.039
13.5	1518.524	1512.654	1504.269	1510.139	1513.493
14.0	1511.816	1503.431	1495.046	1502.592	1505.946
14.5	1503.431	1495.884	1484.984	1494.207	1499.238
15.0	1495.884	1487.499	1474.922	1485.822	1491.692
15.5	1487.499	1478.276	1464.860	1477.437	1482.468
16.0	1479.114	1469.891	1456.475	1468.214	1474.922
16.5	1471.568	1461.506	1446.413	1458.990	1467.375
17.0	1463.183	1453.121	1436.351	1451.444	1458.990
17.5	1456.475	1443.897	1426.289	1442.220	1450.605
18.0	1447.251	1434.674	1416.227	1432.158	1443.059
18.5	1438.866	1425.450	1407.003	1422.935	1433.835
19.0	1432.158	1415.388	1396.103	1413.711	1427.127
19.5	1422.935	1406.165	1386.041	1403.649	1417.904
20.0	1413.711	1396.103	1375.979	1394.426	1408.680
20.5	1405.326	1386.041	1365.917	1384.364	1400.295
21.0	1396.941	1376.817	1355.855	1374.302	1391.910
21.5	1388.556	1366.755	1346.631	1364.240	1383.525
22.0	1378.494	1355.855	1335.731	1353.339	1374.302
22.5	1370.109	1345.793	1325.669	1344.116	1365.917
23.0	1360.886	1335.731	1314.768	1334.054	1356.693
23.5	1351.662	1325.669	1303.868	1323.153	1346.631
24.0	1342.439	1314.768	1293.806	1313.091	1338.246
24.5	1334.054	1303.868	1282.905	1302.191	1328.184
25.0	1323.992	1293.806	1272.843	1292.129	1319.799
25.5	1313.930	1282.905	1261.943	1281.228	1308.899
26.0	1304.706	1272.005	1251.881	1271.166	1299.675
26.5	1295.483	1261.943	1240.980	1259.427	1289.613

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27.0	1285.421	1251.881	1230.080	1249.365	1278.713
27.5	1277.036	1240.142	1219.179	1238.465	1270.328
28.0	1266.135	1230.080	1208.279	1227.564	1260.266
28.5	1256.073	1219.179	1198.217	1217.502	1251.042
29.0	1246.011	1207.440	1187.316	1206.602	1239.303
29.5	1236.788	1197.378	1175.577	1194.863	1229.241
30.0	1225.049	1186.478	1164.677	1183.962	1219.179
30.5	1214.148	1174.739	1153.776	1173.062	1209.956
31.0	1204.086	1163.838	1142.037	1162.161	1198.217
31.5	1193.186	1152.099	1131.137	1150.422	1188.155
32.0	1183.124	1141.199	1120.236	1138.683	1178.093
32.5	1171.385	1129.460	1108.497	1127.783	1167.192
33.0	1160.484	1118.559	1095.920	1116.044	1155.453
33.5	1149.584	1106.820	1085.019	1104.305	1145.391
34.0	1138.683	1094.243	1072.442	1092.566	1133.652
34.5	1126.944	1082.504	1060.703	1079.988	1121.913
35.0	1116.044	1069.926	1048.964	1068.249	1111.013
35.5	1104.305	1058.187	1036.386	1055.672	1097.597
36.0	1091.727	1045.610	1023.809	1043.933	1086.696
36.5	1081.665	1033.871	1012.070	1031.355	1074.957
37.0	1069.088	1020.455	999.492	1019.616	1062.380
37.5	1056.510	1007.877	986.915	1007.039	1050.641
38.0	1044.771	996.138	974.337	994.461	1038.063
38.5	1033.032	983.561	961.760	981.884	1026.324
39.0	1020.455	970.983	949.182	969.306	1013.747
39.5	1007.877	958.406	936.605	956.729	1002.008
40.0	995.300	945.828	924.866	944.151	988.592
40.5	982.722	933.251	912.288	931.574	976.853
41.0	970.983	920.673	898.872	918.996	965.114
41.5	958.406	908.096	887.133	907.257	951.698
42.0	945.828	896.357	874.556	893.841	939.959
42.5	932.412	883.779	861.978	881.264	928.220
43.0	920.673	871.202	849.401	869.525	915.642
43.5	908.934	859.463	837.410	856.947	903.903
44.0	896.357	846.885	825.252	844.370	891.326
44.5	883.779	834.559	813.680	832.798	878.748
45.0	871.202	822.149	801.271	820.305	867.009
45.5	860.301	810.159	788.525	808.398	854.432
46.0	847.724	798.084	776.703	795.653	842.693
46.5	835.985	785.842	765.131	783.411	830.199
47.0	823.155	773.684	753.141	771.420	817.118
47.5	811.920	761.274	740.647	759.513	805.044
48.0	799.007	748.781	728.740	746.936	792.299
48.5	786.597	736.538	716.582	734.442	780.057
49.0	773.265	724.464	704.340	722.368	767.060
49.5	761.526	711.803	692.014	709.706	754.398
50.0	749.200	699.644	680.191	697.548	742.240
50.5	736.287	687.318	667.949	685.222	729.243
51.0	723.206	674.573	656.126	672.896	716.582
51.5	710.713	661.996	643.633	660.067	703.585
52.0	697.716	649.418	631.055	647.574	690.756
52.5	684.468	637.176	619.065	634.828	677.760
53.0	671.303	624.683	606.822	622.335	664.679
53.5	658.223	612.105	594.413	610.176	651.431
54.0	644.639	599.863	582.422	597.599	638.266
54.5	631.223	587.285	570.348	585.021	625.186

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55.0	618.394	574.792	558.022	572.360	611.853
55.5	604.894	562.130	545.780	559.950	598.521
56.0	590.891	549.637	533.621	547.457	585.189
56.5	577.475	537.227	521.547	534.879	572.109
57.0	563.891	524.649	509.389	522.637	558.609
57.5	550.643	512.072	497.063	509.892	545.193
58.0	537.311	499.327	485.156	497.650	532.196
58.5	523.476	486.833	473.501	485.156	518.612
59.0	509.976	474.339	461.510	472.495	505.112
59.5	496.476	461.762	449.352	460.001	491.780
60.0	482.641	449.101	437.278	448.011	478.280
60.5	469.057	436.691	425.539	435.349	464.697
61.0	454.970	423.862	413.716	422.856	450.861
61.5	440.967	411.284	401.725	410.613	437.026
62.0	426.545	398.791	389.986	398.204	422.939
62.5	412.290	386.045	378.415	385.878	408.517
63.0	397.533	373.552	366.760	373.552	393.592
63.5	382.272	361.310	355.272	361.142	377.577
64.0	366.341	348.648	343.785	348.313	361.058
64.5	349.738	335.987	332.298	335.484	344.120
65.0	332.801	323.074	320.978	322.152	327.518
65.5	316.450	310.077	309.742	308.820	310.832
66.0	300.183	296.913	298.506	294.817	292.720
66.5	282.323	283.748	287.270	281.149	274.357
67.0	262.954	270.584	276.202	267.733	258.761
67.5	243.249	257.252	265.134	253.982	243.584
68.0	226.814	243.836	254.233	240.398	230.168
68.5	213.650	230.252	243.752	227.988	216.585
69.0	204.175	217.675	233.438	216.668	204.762
69.5	197.467	206.103	223.293	205.852	197.551
70.0	191.430	196.461	213.398	195.706	191.513
70.5	185.476	187.740	203.756	186.315	185.728
71.0	179.523	180.445	194.364	179.607	179.942
71.5	173.821	173.821	185.476	173.905	174.324
72.0	168.203	167.952	176.924	168.203	168.790
72.5	162.585	162.334	168.790	162.669	163.256
73.0	157.135	156.800	161.327	157.303	157.722
73.5	151.685	151.349	154.452	151.936	152.355
74.0	146.402	146.067	147.911	146.486	146.905
74.5	140.952	140.616	141.707	141.120	141.539
75.0	135.585	135.334	136.005	135.837	136.256
75.5	130.219	130.135	130.554	130.638	130.974
76.0	125.020	125.020	125.356	125.523	125.775
76.5	119.822	119.906	120.157	120.325	120.744
77.0	114.623	114.791	115.042	115.210	115.545
77.5	109.508	109.844	110.011	110.179	110.514
78.0	104.477	104.729	104.980	105.148	105.567
78.5	99.446	99.782	99.949	100.201	100.452
79.0	94.499	94.918	95.002	95.337	95.505
79.5	89.636	90.055	90.055	90.474	90.642
80.0	84.772	85.108	85.359	85.611	85.779
80.5	79.909	80.328	80.496	80.748	80.831
81.0	75.130	75.465	75.717	76.052	76.052
81.5	70.434	70.686	70.937	71.273	71.273
82.0	65.738	65.906	66.242	66.493	66.577
82.5	60.959	61.211	61.546	61.797	61.881

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83.0	56.431	56.515	56.850	57.102	57.270
83.5	51.819	51.903	52.239	52.490	52.490
84.0	47.291	47.291	47.627	47.878	47.878
84.5	42.847	42.764	43.015	43.267	43.350
85.0	38.403	38.236	38.487	38.739	38.906
85.5	34.043	33.792	33.959	34.211	34.462
86.0	29.683	29.431	29.515	29.767	30.186
86.5	25.407	25.155	25.155	25.407	25.910
87.0	21.214	20.963	20.879	21.130	21.717
87.5	17.022	16.854	16.770	16.938	17.609
88.0	13.081	12.829	12.745	12.913	13.584
88.5	9.140	9.140	9.140	9.140	9.810
89.0	5.534	6.037	6.121	6.289	6.708
89.5	2.432	3.689	3.857	4.193	4.612
90.0	0.839	1.929	2.180	2.432	2.683
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BP-22-LS-8CS-BP2233W-DIM-UNV\_40W\_4000K\_.IES****CANDELA TABULATION - (Cont.)**

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BP-22-LS-8CS-BP2233W-DIM-UNV\_40W\_4000K\_.IES****CANDELA TABULATION - (Cont.)**

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BP-22-LS-8CS-BP2233W-DIM-UNV\_40W\_4000K\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	571.16	N.A.	16.30
0-30	1167.16	N.A.	33.30
0-40	1838.41	N.A.	52.50
0-60	2995.22	N.A.	85.50
0-80	3459.78	N.A.	98.80
0-90	3503.08	N.A.	100.00
10-90	3349.9	N.A.	95.60
20-40	1267.24	N.A.	36.20
20-50	1906.06	N.A.	54.40
40-70	1476.17	N.A.	42.10
60-80	464.56	N.A.	13.30
70-80	145.20	N.A.	4.10
80-90	43.30	N.A.	1.20
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3503.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	153.18
10-20	417.99
20-30	596.00
30-40	671.25
40-50	638.82
50-60	518.00
60-70	319.36
70-80	145.20
80-90	43.30
90-100	0.06
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-BP2233W-DIM-UNV\_40W\_4000K\_.IES

## 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	100	100	100	100	97	97	97	97	93	93	93	89	89	89	86	86	86	84
1	92	89	85	82	90	87	84	81	83	81	79	80	78	76	77	75	74	72
2	85	78	73	69	82	77	72	68	74	70	66	71	68	65	69	66	63	62
3	78	70	63	58	76	68	62	58	66	61	57	64	59	56	61	58	55	53
4	72	62	55	50	70	61	55	50	59	54	49	57	52	48	55	51	48	46
5	66	56	49	44	64	55	48	44	53	48	43	52	47	43	50	46	42	40
6	61	51	44	39	60	50	43	38	49	43	38	47	42	38	46	41	37	36
7	57	46	39	34	56	46	39	34	44	38	34	43	38	34	42	37	34	32
8	53	42	36	31	52	42	35	31	41	35	31	40	34	31	39	34	30	29
9	50	39	33	28	49	39	32	28	38	32	28	37	32	28	36	31	28	26
10	47	36	30	26	46	36	30	26	35	29	25	34	29	25	33	29	25	24

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-BP2233W-DIM-UNV\_40W\_4000K\_.IES

## 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

X=2H	Y=2H	16.5	18.1	16.9	18.4	18.7	16.5	18.0	16.9	18.3	18.7
	3H	17.5	18.8	17.8	19.2	19.5	17.4	18.8	17.8	19.1	19.5
	4H	17.8	19.1	18.2	19.5	19.8	17.8	19.1	18.2	19.4	19.8
	6H	18.1	19.3	18.5	19.7	20.1	18.1	19.3	18.5	19.7	20.1
	8H	18.2	19.4	18.7	19.7	20.1	18.2	19.4	18.6	19.7	20.1
	12H	18.3	19.4	18.7	19.8	20.2	18.3	19.4	18.7	19.8	20.2

### UGR Viewed Endwise

4H	2H	16.9	18.2	17.3	18.6	19.0	16.9	18.2	17.3	18.5	18.9
	3H	18.1	19.1	18.5	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	4H	18.5	19.5	19.0	19.9	20.3	18.5	19.5	18.9	19.9	20.3
	6H	18.9	19.8	19.4	20.2	20.7	18.9	19.8	19.4	20.2	20.7
	8H	19.1	19.9	19.5	20.3	20.8	19.1	19.9	19.5	20.3	20.8
	12H	19.2	19.9	19.7	20.4	20.9	19.2	19.9	19.7	20.4	20.9

8H	4H	18.7	19.5	19.1	19.9	20.4	18.7	19.5	19.1	19.9	20.4
	6H	19.2	19.9	19.7	20.4	20.8	19.2	19.9	19.7	20.4	20.8
	8H	19.4	20.0	19.9	20.5	21.0	19.4	20.0	19.9	20.5	21.0
	12H	19.6	20.1	20.1	20.6	21.2	19.6	20.1	20.1	20.6	21.2

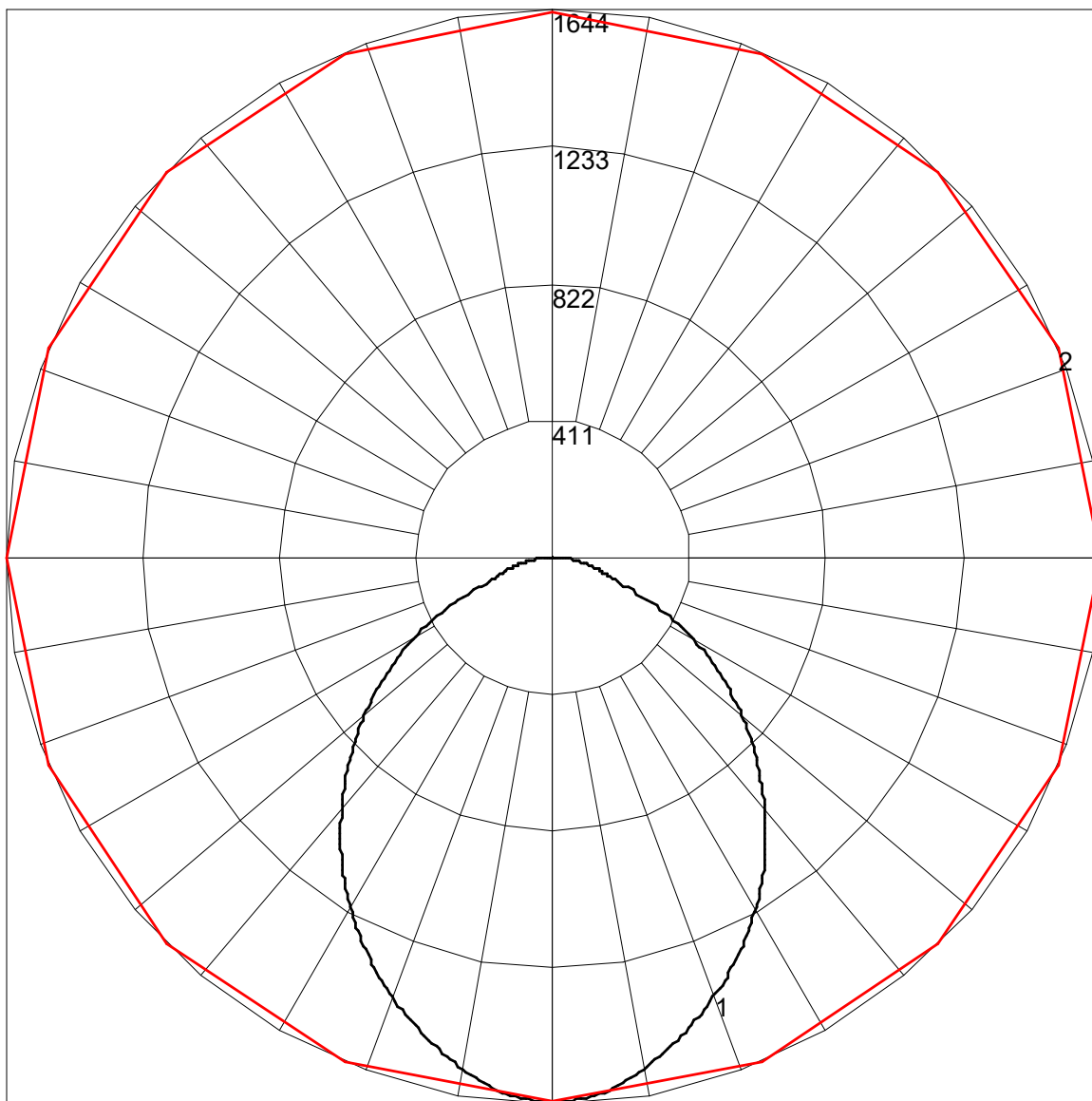
12H	4H	18.7	19.4	19.2	19.9	20.4	18.7	19.4	19.2	19.9	20.3
	6H	19.2	19.8	19.8	20.3	20.8	19.2	19.8	19.8	20.3	20.8
	8H	19.5	20.0	20.0	20.5	21.1	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 21.2

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-BP2233W-DIM-UNV\_40W\_4000K\_.IES

## POLAR GRAPH



Maximum Candela = 1644.299 Located At Horizontal Angle = 0, Vertical Angle = .5

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)