

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED4HTLOWT30120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4106
[TESTLAB] TUV SUD America
[ISSUEDATE] 5/4/2021 1:47:37 PM
[MANUFAC] BEGHELLI
[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE
[LUMINAIRE] BX910LED4HTLOWT30120-277V_P
[AMBIENT] 24.8 deg C
[POWERFACTOR] 0.9984
[ATHD] 4.25%
[CURRENT] 0.48
[VOLTAGE] 120.04
[STABILIZATION] 60:59.6 Stable
[POWER VARIATION] 0.40 %
[LIGHT VARIATION] 0.49 %
[Lumens] 7606.4
[END VOLTS] 120.04
[END CURRENT] 0.48
[END POWER] 56.96

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	3.79 ft
Luminous Height	0.25 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10791	10936	13680
55	4282	7782	10627
65	1156	3692	7178
75	280	1297	4030
85	24	159	1238

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047
2.5	1703.313	1701.839	1702.432	1703.085	1699.766	1700.191	1710.314	1710.265	1706.441	1707.284
5.0	1701.980	1695.207	1695.028	1696.801	1692.645	1693.842	1703.601	1703.433	1700.675	1699.549
7.5	1695.545	1688.582	1689.153	1690.562	1686.036	1684.882	1691.671	1690.023	1688.135	1682.902
10.0	1686.041	1681.852	1681.461	1678.839	1673.186	1670.232	1678.126	1675.324	1673.594	1671.201
12.5	1677.941	1672.305	1671.016	1664.439	1657.481	1653.912	1660.941	1658.868	1649.408	1646.971
15.0	1671.108	1664.069	1661.224	1651.334	1641.792	1632.979	1637.119	1638.311	1625.265	1618.971
17.5	1663.422	1655.985	1647.096	1634.133	1621.604	1610.594	1603.005	1605.975	1593.833	1587.664
20.0	1664.238	1653.461	1632.925	1612.101	1598.305	1577.954	1567.563	1564.076	1554.535	1546.086
22.5	1690.486	1672.011	1634.410	1595.258	1565.888	1538.884	1524.065	1518.081	1507.832	1497.942
25.0	1715.640	1694.060	1647.406	1589.606	1531.420	1491.349	1473.239	1464.350	1450.560	1444.222
27.5	1717.397	1696.421	1641.090	1576.806	1511.999	1446.518	1416.190	1406.583	1392.994	1387.717
30.0	1710.581	1683.479	1616.725	1544.204	1484.337	1410.451	1358.281	1344.431	1333.252	1323.563
32.5	1708.579	1674.285	1591.635	1502.104	1440.273	1373.252	1312.008	1283.650	1268.701	1261.950
35.0	1734.647	1692.961	1584.667	1469.605	1393.391	1321.670	1264.512	1222.368	1208.551	1199.836
37.5	1769.986	1724.725	1601.950	1459.275	1346.226	1262.749	1202.713	1167.500	1142.416	1138.940
40.0	1724.072	1692.912	1610.621	1466.624	1311.535	1204.128	1136.394	1103.341	1072.284	1070.195
42.5	1555.824	1546.777	1530.006	1450.864	1300.361	1151.001	1064.652	1025.462	994.780	990.368
45.0	1344.632	1342.799	1362.769	1364.358	1284.161	1105.718	988.426	943.389	915.574	908.540
47.5	1136.780	1139.653	1171.716	1216.210	1217.439	1066.566	914.867	864.454	837.820	830.079
50.0	935.337	945.586	988.475	1045.971	1109.863	1005.845	849.195	784.035	757.482	748.533
52.5	726.088	746.450	811.360	876.564	973.189	916.711	785.808	704.371	676.872	665.617
55.0	525.428	549.386	636.072	720.397	821.511	811.653	710.225	626.884	599.270	587.640
57.5	372.749	389.379	469.875	577.222	676.812	695.950	624.425	551.480	523.551	511.904
60.0	264.221	276.967	335.675	442.419	550.446	574.475	537.875	480.820	449.219	438.007
62.5	187.484	197.652	239.877	325.051	441.043	464.581	449.921	408.990	378.488	369.088
65.0	135.358	142.985	173.400	234.698	347.088	372.254	368.478	338.101	313.861	305.092
67.5	97.240	103.365	125.648	169.130	263.481	293.265	294.010	273.447	255.022	247.014
70.0	68.245	73.435	90.429	121.861	192.679	228.246	229.960	216.947	202.890	196.324
72.5	46.441	50.559	63.626	87.018	138.404	173.737	175.315	167.873	157.194	152.200
75.0	30.197	33.320	43.689	60.754	97.447	128.188	129.722	126.469	117.945	114.523
77.5	17.936	19.851	27.467	40.463	66.537	91.403	92.589	91.577	84.897	82.666
80.0	9.591	10.282	14.215	23.055	42.780	60.748	61.804	61.929	57.425	55.950
82.5	5.130	5.244	6.387	9.623	23.153	35.534	36.812	37.509	34.756	33.820
85.0	2.301	2.394	2.769	3.498	8.209	15.303	17.065	18.567	17.321	16.668
87.5	0.571	0.615	0.729	0.952	2.198	3.384	4.140	5.527	5.592	5.179
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047
2.5	1706.653	1710.064	1708.764	1695.017	1691.492	1697.982	1696.573	1696.888	1702.089	1696.888
5.0	1696.051	1701.692	1701.882	1686.313	1683.566	1693.189	1690.034	1690.513	1697.813	1690.513
7.5	1683.745	1688.087	1689.572	1674.231	1674.546	1688.440	1685.432	1686.362	1692.966	1686.362
10.0	1670.423	1671.750	1671.271	1660.261	1662.176	1676.793	1675.477	1678.300	1682.842	1678.300
12.5	1647.646	1652.950	1654.712	1644.501	1646.068	1663.199	1666.327	1671.750	1674.780	1671.750
15.0	1620.995	1626.555	1632.125	1624.972	1629.710	1652.183	1657.802	1664.161	1667.175	1664.161
17.5	1587.338	1594.714	1599.442	1598.843	1610.229	1639.447	1647.461	1656.649	1660.457	1656.649
20.0	1547.305	1559.229	1563.538	1566.209	1583.209	1618.128	1637.244	1654.962	1661.947	1654.962
22.5	1500.140	1513.033	1516.993	1524.625	1546.728	1598.354	1643.838	1679.633	1697.601	1679.633
25.0	1446.393	1455.499	1468.158	1474.077	1519.234	1599.153	1668.758	1723.060	1742.535	1723.060
27.5	1386.939	1398.787	1409.412	1430.318	1510.677	1601.498	1677.740	1741.556	1764.573	1741.556
30.0	1324.749	1337.576	1353.064	1401.790	1486.050	1581.892	1667.627	1740.000	1769.871	1740.000
32.5	1265.018	1275.076	1307.635	1372.463	1448.732	1553.702	1654.201	1747.143	1780.773	1747.143
35.0	1205.063	1219.278	1265.045	1326.120	1407.965	1531.039	1659.510	1780.300	1828.983	1780.300
37.5	1139.490	1162.098	1214.072	1272.753	1373.970	1530.261	1698.580	1832.176	1880.004	1832.176
40.0	1068.661	1099.653	1150.451	1217.728	1355.871	1547.441	1705.223	1791.816	1810.601	1791.816
42.5	992.310	1025.962	1080.047	1170.552	1345.149	1532.584	1602.080	1627.496	1622.442	1627.496
45.0	915.133	945.896	1005.644	1129.197	1315.066	1430.236	1415.151	1413.062	1400.893	1413.062
47.5	835.905	865.645	934.081	1081.227	1232.552	1265.295	1214.660	1204.024	1193.389	1204.024
50.0	754.876	787.037	867.979	1014.876	1091.166	1085.030	1029.857	1008.473	993.393	1008.473
52.5	675.670	707.423	800.730	930.702	929.897	914.252	853.242	806.279	777.746	806.279
55.0	597.970	631.171	723.406	819.743	774.580	759.413	669.833	603.296	572.832	603.296
57.5	522.039	557.410	638.172	689.743	639.069	610.640	497.744	432.632	405.111	432.632
60.0	447.636	484.992	558.171	564.112	519.068	465.854	358.844	308.399	290.763	308.399
62.5	377.400	412.646	474.216	454.365	412.945	342.084	257.644	225.172	213.939	225.172
65.0	313.600	341.708	387.056	363.844	315.759	248.652	189.181	166.605	158.685	166.605
67.5	254.869	277.125	305.897	288.287	233.577	180.564	140.526	122.862	117.265	122.862
70.0	202.879	219.852	238.800	222.882	169.886	132.410	103.844	89.880	85.082	89.880
72.5	156.705	170.691	182.338	167.759	121.943	96.963	75.545	64.475	60.063	64.475
75.0	117.847	128.308	135.978	122.933	85.582	69.763	53.464	44.978	41.355	44.978
77.5	85.082	92.839	97.371	86.295	58.208	48.329	36.410	29.958	27.216	29.958
80.0	57.430	62.685	65.144	56.505	36.910	30.937	21.668	17.098	14.878	17.098

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CANDELA TABULATION - (Cont.)

82.5	34.832	38.053	39.407	32.352	19.225	15.384	10.102	8.035	7.224	8.035
85.0	17.267	18.828	18.969	13.355	6.202	5.571	4.058	3.683	3.346	3.683
87.5	5.614	5.750	4.978	2.987	1.436	1.616	1.295	1.191	0.974	1.191
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047
2.5	1696.573	1697.982	1691.492	1695.017	1708.764	1710.064	1706.653	1707.284	1706.441	1710.265
5.0	1690.034	1693.189	1683.566	1686.313	1701.882	1701.692	1696.051	1699.549	1700.675	1703.433
7.5	1685.432	1688.440	1674.546	1674.231	1689.572	1688.087	1683.745	1682.902	1688.135	1690.023
10.0	1675.477	1676.793	1662.176	1660.261	1671.271	1671.750	1670.423	1671.201	1673.594	1675.324
12.5	1666.327	1663.199	1646.068	1644.501	1654.712	1652.950	1647.646	1646.971	1649.408	1658.868
15.0	1657.802	1652.183	1629.710	1624.972	1632.125	1626.555	1620.995	1618.971	1625.265	1638.311
17.5	1647.461	1639.447	1610.229	1598.843	1599.442	1594.714	1587.338	1587.664	1593.833	1605.975
20.0	1637.244	1618.128	1583.209	1566.209	1563.538	1559.229	1547.305	1546.086	1554.535	1564.076
22.5	1643.838	1598.354	1546.728	1524.625	1516.993	1513.033	1500.140	1497.942	1507.832	1518.081
25.0	1668.758	1599.153	1519.234	1474.077	1468.158	1455.499	1446.393	1444.222	1450.560	1464.350
27.5	1677.740	1601.498	1510.677	1430.318	1409.412	1398.787	1386.939	1387.717	1392.994	1406.583

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CANDELA TABULATION - (Cont.)

30.0	1667.627	1581.892	1486.050	1401.790	1353.064	1337.576	1324.749	1323.563	1333.252	1344.431
32.5	1654.201	1553.702	1448.732	1372.463	1307.635	1275.076	1265.018	1261.950	1268.701	1283.650
35.0	1659.510	1531.039	1407.965	1326.120	1265.045	1219.278	1205.063	1199.836	1208.551	1222.368
37.5	1698.580	1530.261	1373.970	1272.753	1214.072	1162.098	1139.490	1138.940	1142.416	1167.500
40.0	1705.223	1547.441	1355.871	1217.728	1150.451	1099.653	1068.661	1070.195	1072.284	1103.341
42.5	1602.080	1532.584	1345.149	1170.552	1080.047	1025.962	992.310	990.368	994.780	1025.462
45.0	1415.151	1430.236	1315.066	1129.197	1005.644	945.896	915.133	908.540	915.574	943.389
47.5	1214.660	1265.295	1232.552	1081.227	934.081	865.645	835.905	830.079	837.820	864.454
50.0	1029.857	1085.030	1091.166	1014.876	867.979	787.037	754.876	748.533	757.482	784.035
52.5	853.242	914.252	929.897	930.702	800.730	707.423	675.670	665.617	676.872	704.371
55.0	669.833	759.413	774.580	819.743	723.406	631.171	597.970	587.640	599.270	626.884
57.5	497.744	610.640	639.069	689.743	638.172	557.410	522.039	511.904	523.551	551.480
60.0	358.844	465.854	519.068	564.112	558.171	484.992	447.636	438.007	449.219	480.820
62.5	257.644	342.084	412.945	454.365	474.216	412.646	377.400	369.088	378.488	408.990
65.0	189.181	248.652	315.759	363.844	387.056	341.708	313.600	305.092	313.861	338.101
67.5	140.526	180.564	233.577	288.287	305.897	277.125	254.869	247.014	255.022	273.447
70.0	103.844	132.410	169.886	222.882	238.800	219.852	202.879	196.324	202.890	216.947
72.5	75.545	96.963	121.943	167.759	182.338	170.691	156.705	152.200	157.194	167.873
75.0	53.464	69.763	85.582	122.933	135.978	128.308	117.847	114.523	117.945	126.469
77.5	36.410	48.329	58.208	86.295	97.371	92.839	85.082	82.666	84.897	91.577
80.0	21.668	30.937	36.910	56.505	65.144	62.685	57.430	55.950	57.425	61.929
82.5	10.102	15.384	19.225	32.352	39.407	38.053	34.832	33.820	34.756	37.509
85.0	4.058	5.571	6.202	13.355	18.969	18.828	17.267	16.668	17.321	18.567
87.5	1.295	1.616	1.436	2.987	4.978	5.750	5.614	5.179	5.592	5.527
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047	1703.047
2.5	1710.314	1700.191	1699.766	1703.085	1702.432	1701.839	1703.313
5.0	1703.601	1693.842	1692.645	1696.801	1695.028	1695.207	1701.980
7.5	1691.671	1684.882	1686.036	1690.562	1689.153	1688.582	1695.545
10.0	1678.126	1670.232	1673.186	1678.839	1681.461	1681.852	1686.041
12.5	1660.941	1653.912	1657.481	1664.439	1671.016	1672.305	1677.941
15.0	1637.119	1632.979	1641.792	1651.334	1661.224	1664.069	1671.108
17.5	1603.005	1610.594	1621.604	1634.133	1647.096	1655.985	1663.422
20.0	1567.563	1577.954	1598.305	1612.101	1632.925	1653.461	1664.238
22.5	1524.065	1538.884	1565.888	1595.258	1634.410	1672.011	1690.486
25.0	1473.239	1491.349	1531.420	1589.606	1647.406	1694.060	1715.640
27.5	1416.190	1446.518	1511.999	1576.806	1641.090	1696.421	1717.397
30.0	1358.281	1410.451	1484.337	1544.204	1616.725	1683.479	1710.581
32.5	1312.008	1373.252	1440.273	1502.104	1591.635	1674.285	1708.579
35.0	1264.512	1321.670	1393.391	1469.605	1584.667	1692.961	1734.647
37.5	1202.713	1262.749	1346.226	1459.275	1601.950	1724.725	1769.986
40.0	1136.394	1204.128	1311.535	1466.624	1610.621	1692.912	1724.072
42.5	1064.652	1151.001	1300.361	1450.864	1530.006	1546.777	1555.824
45.0	988.426	1105.718	1284.161	1364.358	1362.769	1342.799	1344.632
47.5	914.867	1066.566	1217.439	1216.210	1171.716	1139.653	1136.780
50.0	849.195	1005.845	1109.863	1045.971	988.475	945.586	935.337
52.5	785.808	916.711	973.189	876.564	811.360	746.450	726.088
55.0	710.225	811.653	821.511	720.397	636.072	549.386	525.428
57.5	624.425	695.950	676.812	577.222	469.875	389.379	372.749
60.0	537.875	574.475	550.446	442.419	335.675	276.967	264.221
62.5	449.921	464.581	441.043	325.051	239.877	197.652	187.484
65.0	368.478	372.254	347.088	234.698	173.400	142.985	135.358
67.5	294.010	293.265	263.481	169.130	125.648	103.365	97.240
70.0	229.960	228.246	192.679	121.861	90.429	73.435	68.245
72.5	175.315	173.737	138.404	87.018	63.626	50.559	46.441
75.0	129.722	128.188	97.447	60.754	43.689	33.320	30.197
77.5	92.589	91.403	66.537	40.463	27.467	19.851	17.936
80.0	61.804	60.748	42.780	23.055	14.215	10.282	9.591
82.5	36.812	35.534	23.153	9.623	6.387	5.244	5.130
85.0	17.065	15.303	8.209	3.498	2.769	2.394	2.301
87.5	4.140	3.384	2.198	0.952	0.729	0.615	0.571
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	624.55	N.A.	15.10
0-30	1338.19	N.A.	32.30
0-40	2228.88	N.A.	53.80
0-60	3734.63	N.A.	90.20
0-80	4123.48	N.A.	99.60
0-90	4139.3	N.A.	100.00
10-90	3978.1	N.A.	96.10
20-40	1604.34	N.A.	38.80
20-50	2501.63	N.A.	60.40
40-70	1793.17	N.A.	43.30
60-80	388.85	N.A.	9.40
70-80	101.43	N.A.	2.50
80-90	15.81	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4139.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.19
10-20	463.35
20-30	713.64
30-40	890.69
40-50	897.29
50-60	608.45
60-70	287.42
70-80	101.43
80-90	15.81
90-100	0.00
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

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

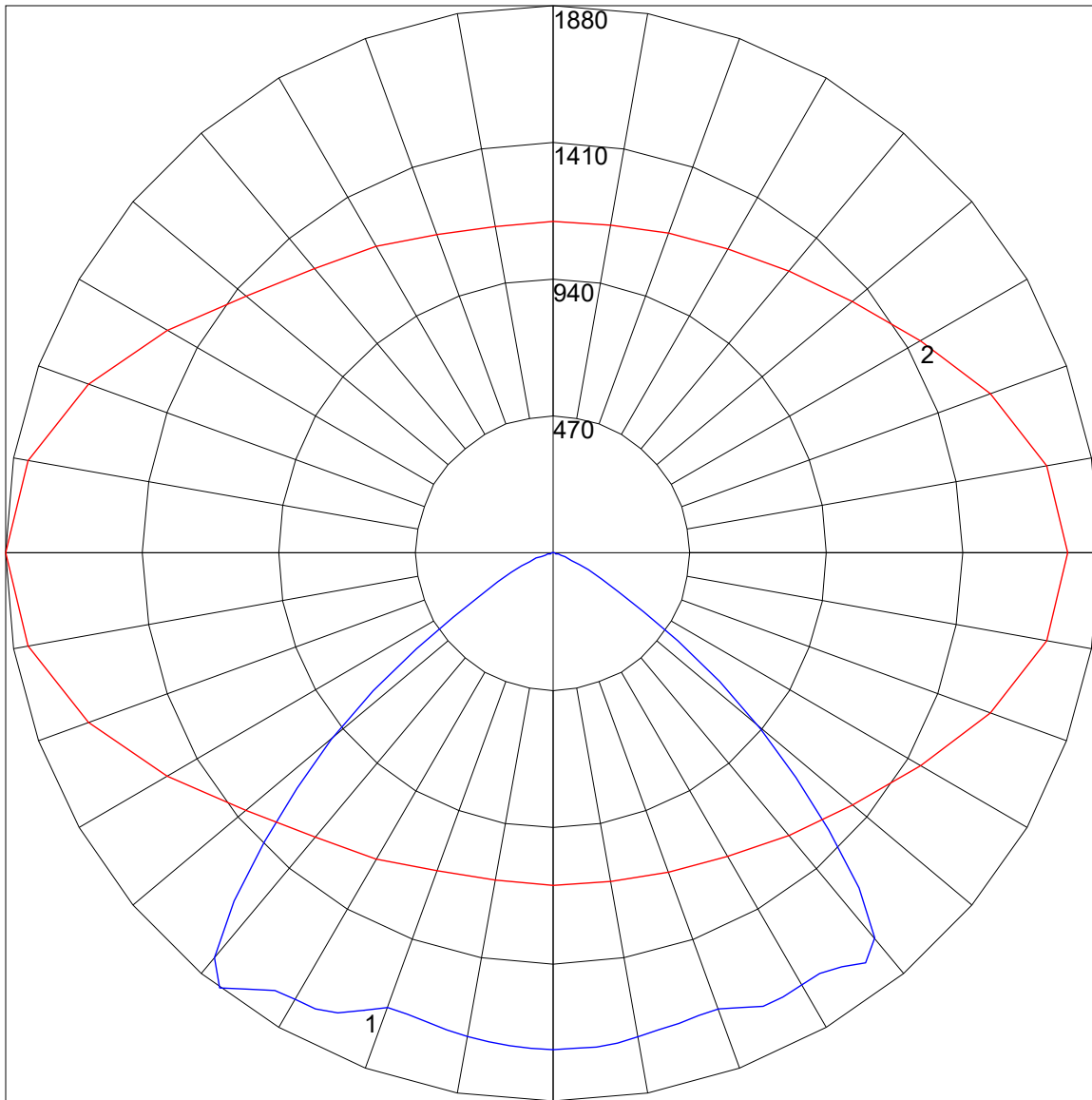
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UGR TABLE - CORRECTED

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	17.1	18.5	17.4	18.9	19.2	16.8	18.3	17.2	18.6	18.9
	3H	17.2	18.5	17.6	18.9	19.2	17.5	18.8	17.8	19.1	19.5
	4H	17.2	18.4	17.6	18.8	19.2	17.6	18.9	18.0	19.2	19.6
	6H	17.1	18.3	17.5	18.6	19.0	17.6	18.8	18.0	19.1	19.5
	8H	17.1	18.2	17.5	18.6	19.0	17.6	18.7	18.0	19.1	19.5
	12H	17.0	18.1	17.5	18.5	18.9	17.6	18.6	18.0	19.0	19.4
4H	2H	17.5	18.7	17.9	19.1	19.5	17.3	18.5	17.7	18.9	19.2
	3H	17.7	18.7	18.1	19.1	19.5	18.1	19.1	18.5	19.5	19.9
	4H	17.7	18.6	18.1	19.0	19.5	18.3	19.2	18.7	19.6	20.0
	6H	17.7	18.5	18.1	18.9	19.4	18.3	19.1	18.8	19.6	20.0
	8H	17.6	18.4	18.1	18.8	19.3	18.3	19.0	18.8	19.5	20.0
	12H	17.6	18.2	18.1	18.7	19.2	18.3	18.9	18.8	19.4	19.9
8H	4H	17.7	18.5	18.2	18.9	19.4	18.3	19.0	18.7	19.4	19.9
	6H	17.7	18.3	18.2	18.8	19.3	18.3	19.0	18.8	19.4	19.9
	8H	17.6	18.2	18.1	18.7	19.2	18.3	18.9	18.8	19.4	19.9
	12H	17.6	18.1	18.1	18.6	19.1	18.3	18.8	18.8	19.3	19.9
12H	4H	17.7	18.4	18.2	18.9	19.3	18.2	18.9	18.7	19.4	19.8
	6H	17.7	18.2	18.2	18.7	19.2	18.3	18.9	18.8	19.3	19.9
	8H	17.6	18.1	18.1	18.6	19.2	18.3	18.8	18.8	19.3	19.9

Maximum UGR = 20.0

POLAR GRAPH



Maximum Candela = 1880.004 Located At Horizontal Angle = 180, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)