

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED4HTVHOWT40120-277V_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] BX910LED4HTVHOWT40120-277V_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	8773
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	60
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BX910LED4HTVHOWT40120-277V_P.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22872	23180	28996
55	9075	16493	22523
65	2450	7825	15214
75	593	2750	8541
85	51	337	2623

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582
2.5	3610.147	3607.022	3608.279	3609.663	3602.629	3603.529	3624.986	3624.882	3616.777	3618.564
5.0	3607.322	3592.967	3592.587	3596.345	3587.536	3590.073	3610.758	3610.400	3604.555	3602.168
7.5	3593.682	3578.924	3580.134	3583.120	3573.527	3571.083	3585.473	3581.979	3577.978	3566.886
10.0	3573.539	3564.661	3563.831	3558.273	3546.294	3540.033	3556.763	3550.825	3547.158	3542.085
12.5	3556.371	3544.426	3541.693	3527.753	3513.007	3505.443	3520.340	3515.947	3495.896	3490.731
15.0	3541.889	3526.969	3520.939	3499.978	3479.754	3461.075	3469.850	3472.375	3444.726	3431.386
17.5	3525.597	3509.836	3490.996	3463.520	3436.966	3413.629	3397.545	3403.840	3378.106	3365.030
20.0	3527.327	3504.486	3460.960	3416.823	3387.583	3344.449	3322.427	3315.036	3294.813	3276.907
22.5	3582.959	3543.803	3464.108	3381.126	3318.876	3261.641	3230.233	3217.550	3195.828	3174.866
25.0	3636.274	3590.534	3491.653	3369.147	3245.822	3160.892	3122.508	3103.668	3074.440	3061.007
27.5	3639.998	3595.538	3478.267	3342.017	3204.660	3065.873	3001.593	2981.231	2952.429	2941.245
30.0	3625.551	3568.108	3426.624	3272.917	3146.030	2989.429	2878.857	2849.501	2825.807	2805.272
32.5	3621.308	3548.623	3373.447	3183.687	3052.637	2910.587	2780.782	2720.676	2688.992	2674.683
35.0	3676.560	3588.205	3358.677	3114.806	2953.271	2801.260	2680.114	2590.791	2561.505	2543.034
37.5	3751.458	3655.529	3395.308	3092.911	2853.306	2676.378	2549.133	2474.499	2421.335	2413.967
40.0	3654.145	3588.101	3413.687	3108.488	2779.779	2552.131	2408.571	2338.515	2272.690	2268.262
42.5	3297.545	3278.371	3242.824	3075.086	2756.097	2439.529	2256.513	2173.451	2108.422	2099.071
45.0	2849.928	2846.042	2888.369	2891.736	2721.760	2343.553	2094.955	1999.498	1940.545	1925.637
47.5	2409.390	2415.477	2483.435	2577.739	2580.345	2260.572	1939.046	1832.198	1775.747	1759.340
50.0	1982.434	2004.156	2095.059	2216.919	2352.339	2131.874	1799.856	1661.750	1605.472	1586.505
52.5	1538.932	1582.089	1719.665	1857.863	2062.659	1942.955	1665.508	1492.904	1434.620	1410.765
55.0	1113.637	1164.415	1348.145	1526.872	1741.180	1720.288	1505.311	1328.671	1270.145	1245.494
57.5	790.036	825.283	995.892	1223.414	1434.493	1475.056	1323.460	1168.854	1109.659	1084.973
60.0	560.012	587.027	711.459	937.700	1166.663	1217.591	1140.017	1019.091	952.113	928.349
62.5	397.370	418.919	508.415	688.941	934.783	984.674	953.600	866.848	802.200	782.276
65.0	286.889	303.055	367.519	497.439	735.649	788.986	780.985	716.601	665.223	646.637
67.5	206.099	219.082	266.308	358.468	558.444	621.571	623.150	579.567	540.515	523.543
70.0	144.644	155.643	191.663	258.284	408.381	483.764	487.396	459.816	430.023	416.106
72.5	98.432	107.160	134.855	184.434	293.346	368.234	371.577	355.804	333.171	322.586
75.0	64.003	70.621	92.597	128.767	206.537	271.693	274.944	268.049	249.982	242.730
77.5	38.014	42.073	58.215	85.760	141.023	193.727	196.241	194.096	179.937	175.210
80.0	20.327	21.792	30.128	48.864	90.672	128.756	130.992	131.258	121.711	118.586
82.5	10.873	11.115	13.536	20.397	49.072	75.314	78.024	79.499	73.665	71.682
85.0	4.877	5.073	5.869	7.414	17.399	32.434	36.170	39.352	36.712	35.328
87.5	1.211	1.303	1.545	2.018	4.658	7.172	8.774	11.714	11.853	10.977
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	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582
2.5	3617.226	3624.455	3621.700	3592.564	3585.092	3598.847	3595.861	3596.530	3607.553	3596.530
5.0	3594.754	3606.711	3607.114	3574.116	3568.293	3588.689	3582.002	3583.017	3598.490	3583.017
7.5	3568.673	3577.874	3581.022	3548.507	3549.176	3578.624	3572.248	3574.219	3588.217	3574.219
10.0	3540.436	3543.250	3542.235	3518.898	3522.957	3553.938	3551.148	3557.132	3566.759	3557.132
12.5	3492.160	3503.402	3507.138	3485.496	3488.817	3525.125	3531.754	3543.250	3549.672	3543.250
15.0	3435.675	3447.458	3459.265	3444.103	3454.146	3501.776	3513.687	3527.165	3533.553	3527.165
17.5	3364.339	3379.973	3389.993	3388.725	3412.857	3474.785	3491.768	3511.242	3519.313	3511.242
20.0	3279.489	3304.763	3313.895	3319.556	3355.587	3429.598	3470.115	3507.668	3522.473	3507.668
22.5	3179.524	3206.850	3215.244	3231.421	3278.267	3387.687	3484.089	3559.957	3598.040	3559.957
25.0	3065.608	3084.909	3111.739	3124.284	3219.995	3389.382	3536.908	3652.001	3693.278	3652.001
27.5	2939.597	2964.709	2987.227	3031.537	3201.858	3394.351	3555.944	3691.203	3739.986	3691.203
30.0	2807.786	2834.973	2867.799	2971.073	3149.662	3352.797	3534.510	3687.905	3751.216	3687.905
32.5	2681.186	2702.505	2771.512	2908.915	3070.566	3293.049	3506.054	3703.044	3774.322	3703.044
35.0	2554.114	2584.242	2681.244	2810.691	2984.160	3245.015	3517.307	3773.319	3876.501	3773.319
37.5	2415.131	2463.050	2573.208	2697.582	2912.109	3243.366	3600.116	3883.269	3984.641	3883.269
40.0	2265.011	2330.697	2438.364	2580.956	2873.749	3279.778	3614.194	3797.728	3837.541	3797.728
42.5	2103.187	2174.512	2289.143	2480.968	2851.023	3248.289	3395.585	3449.453	3438.742	3449.453
45.0	1939.611	2004.813	2131.447	2393.317	2787.262	3031.364	2999.391	2994.964	2969.171	2994.964
47.5	1771.688	1834.723	1979.770	2291.645	2612.375	2681.774	2574.453	2551.912	2529.371	2551.912
50.0	1599.949	1668.114	1839.669	2151.014	2312.710	2299.705	2182.767	2137.443	2105.482	2137.443
52.5	1432.072	1499.373	1697.135	1972.610	1970.904	1937.743	1808.434	1708.896	1648.421	1708.896
55.0	1267.389	1337.757	1533.248	1737.433	1641.711	1609.565	1419.700	1278.677	1214.109	1278.677
57.5	1106.453	1181.421	1352.596	1461.900	1354.498	1294.242	1054.960	916.958	858.628	916.958
60.0	948.758	1027.934	1183.036	1195.626	1100.158	987.372	760.565	653.647	616.267	653.647
62.5	799.894	874.597	1005.093	963.020	875.231	725.041	546.072	477.250	453.440	477.250
65.0	664.670	724.245	820.359	771.161	669.247	527.013	400.967	353.118	336.330	353.118
67.5	540.192	587.361	648.343	611.021	495.064	382.704	297.843	260.405	248.541	260.405
70.0	430.000	465.973	506.132	472.396	360.070	280.640	220.096	190.499	180.329	190.499
72.5	332.133	361.777	386.463	355.562	258.456	205.511	160.117	136.654	127.303	136.654
75.0	249.774	271.947	288.204	260.555	181.390	147.861	113.317	95.330	87.651	95.330
77.5	180.329	196.771	206.375	182.900	123.371	102.433	77.170	63.496	57.685	63.496
80.0	121.722	132.860	138.072	119.762	78.231	65.571	45.924	36.239	31.535	36.239

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CANDELA TABULATION - (Cont.)

82.5	73.827	80.652	83.523	68.569	40.747	32.607	21.411	17.030	15.312	17.030
85.0	36.596	39.905	40.205	28.306	13.144	11.807	8.601	7.806	7.091	7.806
87.5	11.899	12.187	10.550	6.330	3.044	3.424	2.744	2.525	2.064	2.525
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	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582
2.5	3595.861	3598.847	3585.092	3592.564	3621.700	3624.455	3617.226	3618.564	3616.777	3624.882
5.0	3582.002	3588.689	3568.293	3574.116	3607.114	3606.711	3594.754	3602.168	3604.555	3610.400
7.5	3572.248	3578.624	3549.176	3548.507	3581.022	3577.874	3568.673	3566.886	3577.978	3581.979
10.0	3551.148	3553.938	3522.957	3518.898	3542.235	3543.250	3540.436	3542.085	3547.158	3550.825
12.5	3531.754	3525.125	3488.817	3485.496	3507.138	3503.402	3492.160	3490.731	3495.896	3515.947
15.0	3513.687	3501.776	3454.146	3444.103	3459.265	3447.458	3435.675	3431.386	3444.726	3472.375
17.5	3491.768	3474.785	3412.857	3388.725	3389.993	3379.973	3364.339	3365.030	3378.106	3403.840
20.0	3470.115	3429.598	3355.587	3319.556	3313.895	3304.763	3279.489	3276.907	3294.813	3315.036
22.5	3484.089	3387.687	3278.267	3231.421	3215.244	3206.850	3179.524	3174.866	3195.828	3217.550
25.0	3536.908	3389.382	3219.995	3124.284	3111.739	3084.909	3065.608	3061.007	3074.440	3103.668
27.5	3555.944	3394.351	3201.858	3031.537	2987.227	2964.709	2939.597	2941.245	2952.429	2981.231

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CANDELA TABULATION - (Cont.)

30.0	3534.510	3352.797	3149.662	2971.073	2867.799	2834.973	2807.786	2805.272	2825.807	2849.501
32.5	3506.054	3293.049	3070.566	2908.915	2771.512	2702.505	2681.186	2674.683	2688.992	2720.676
35.0	3517.307	3245.015	2984.160	2810.691	2681.244	2584.242	2554.114	2543.034	2561.505	2590.791
37.5	3600.116	3243.366	2912.109	2697.582	2573.208	2463.050	2415.131	2413.967	2421.335	2474.499
40.0	3614.194	3279.778	2873.749	2580.956	2438.364	2330.697	2265.011	2268.262	2272.690	2338.515
42.5	3395.585	3248.289	2851.023	2480.968	2289.143	2174.512	2103.187	2099.071	2108.422	2173.451
45.0	2999.391	3031.364	2787.262	2393.317	2131.447	2004.813	1939.611	1925.637	1940.545	1999.498
47.5	2574.453	2681.774	2612.375	2291.645	1979.770	1834.723	1771.688	1759.340	1775.747	1832.198
50.0	2182.767	2299.705	2312.710	2151.014	1839.669	1668.114	1599.949	1586.505	1605.472	1661.750
52.5	1808.434	1937.743	1970.904	1972.610	1697.135	1499.373	1432.072	1410.765	1434.620	1492.904
55.0	1419.700	1609.565	1641.711	1737.433	1533.248	1337.757	1267.389	1245.494	1270.145	1328.671
57.5	1054.960	1294.242	1354.498	1461.900	1352.596	1181.421	1106.453	1084.973	1109.659	1168.854
60.0	760.565	987.372	1100.158	1195.626	1183.036	1027.934	948.758	928.349	952.113	1019.091
62.5	546.072	725.041	875.231	963.020	1005.093	874.597	799.894	782.276	802.200	866.848
65.0	400.967	527.013	669.247	771.161	820.359	724.245	664.670	646.637	665.223	716.601
67.5	297.843	382.704	495.064	611.021	648.343	587.361	540.192	523.543	540.515	579.567
70.0	220.096	280.640	360.070	472.396	506.132	465.973	430.000	416.106	430.023	459.816
72.5	160.117	205.511	258.456	355.562	386.463	361.777	332.133	322.586	333.171	355.804
75.0	113.317	147.861	181.390	260.555	288.204	271.947	249.774	242.730	249.982	268.049
77.5	77.170	102.433	123.371	182.900	206.375	196.771	180.329	175.210	179.937	194.096
80.0	45.924	65.571	78.231	119.762	138.072	132.860	121.722	118.586	121.711	131.258
82.5	21.411	32.607	40.747	68.569	83.523	80.652	73.827	71.682	73.665	79.499
85.0	8.601	11.807	13.144	28.306	40.205	39.905	36.596	35.328	36.712	39.352
87.5	2.744	3.424	3.044	6.330	10.550	12.187	11.899	10.977	11.853	11.714
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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582	3609.582
2.5	3624.986	3603.529	3602.629	3609.663	3608.279	3607.022	3610.147
5.0	3610.758	3590.073	3587.536	3596.345	3592.587	3592.967	3607.322
7.5	3585.473	3571.083	3573.527	3583.120	3580.134	3578.924	3593.682
10.0	3556.763	3540.033	3546.294	3558.273	3563.831	3564.661	3573.539
12.5	3520.340	3505.443	3513.007	3527.753	3541.693	3544.426	3556.371
15.0	3469.850	3461.075	3479.754	3499.978	3520.939	3526.969	3541.889
17.5	3397.545	3413.629	3436.966	3463.520	3490.996	3509.836	3525.597
20.0	3322.427	3344.449	3387.583	3416.823	3460.960	3504.486	3527.327
22.5	3230.233	3261.641	3318.876	3381.126	3464.108	3543.803	3582.959
25.0	3122.508	3160.892	3245.822	3369.147	3491.653	3590.534	3636.274
27.5	3001.593	3065.873	3204.660	3342.017	3478.267	3595.538	3639.998
30.0	2878.857	2989.429	3146.030	3272.917	3426.624	3568.108	3625.551
32.5	2780.782	2910.587	3052.637	3183.687	3373.447	3548.623	3621.308
35.0	2680.114	2801.260	2953.271	3114.806	3358.677	3588.205	3676.560
37.5	2549.133	2676.378	2853.306	3092.911	3395.308	3655.529	3751.458
40.0	2408.571	2552.131	2779.779	3108.488	3413.687	3588.101	3654.145
42.5	2256.513	2439.529	2756.097	3075.086	3242.824	3278.371	3297.545
45.0	2094.955	2343.553	2721.760	2891.736	2888.369	2846.042	2849.928
47.5	1939.046	2260.572	2580.345	2577.739	2483.435	2415.477	2409.390
50.0	1799.856	2131.874	2352.339	2216.919	2095.059	2004.156	1982.434
52.5	1665.508	1942.955	2062.659	1857.863	1719.665	1582.089	1538.932
55.0	1505.311	1720.288	1741.180	1526.872	1348.145	1164.415	1113.637
57.5	1323.460	1475.056	1434.493	1223.414	995.892	825.283	790.036
60.0	1140.017	1217.591	1166.663	937.700	711.459	587.027	560.012
62.5	953.600	984.674	934.783	688.941	508.415	418.919	397.370
65.0	780.985	788.986	735.649	497.439	367.519	303.055	286.889
67.5	623.150	621.571	558.444	358.468	266.308	219.082	206.099
70.0	487.396	483.764	408.381	258.284	191.663	155.643	144.644
72.5	371.577	368.234	293.346	184.434	134.855	107.160	98.432
75.0	274.944	271.693	206.537	128.767	92.597	70.621	64.003
77.5	196.241	193.727	141.023	85.760	58.215	42.073	38.014
80.0	130.992	128.756	90.672	48.864	30.128	21.792	20.327
82.5	78.024	75.314	49.072	20.397	13.536	11.115	10.873
85.0	36.170	32.434	17.399	7.414	5.869	5.073	4.877
87.5	8.774	7.172	4.658	2.018	1.545	1.303	1.211
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	1323.72	N.A.	15.10
0-30	2836.27	N.A.	32.30
0-40	4724.09	N.A.	53.80
0-60	7915.5	N.A.	90.20
0-80	8739.66	N.A.	99.60
0-90	8773.18	N.A.	100.00
10-90	8431.53	N.A.	96.10
20-40	3400.37	N.A.	38.80
20-50	5302.17	N.A.	60.40
40-70	3800.59	N.A.	43.30
60-80	824.16	N.A.	9.40
70-80	214.98	N.A.	2.50
80-90	33.52	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	8773.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	341.64
10-20	982.07
20-30	1512.56
30-40	1887.81
40-50	1901.8
50-60	1289.61
60-70	609.18
70-80	214.98
80-90	33.52
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

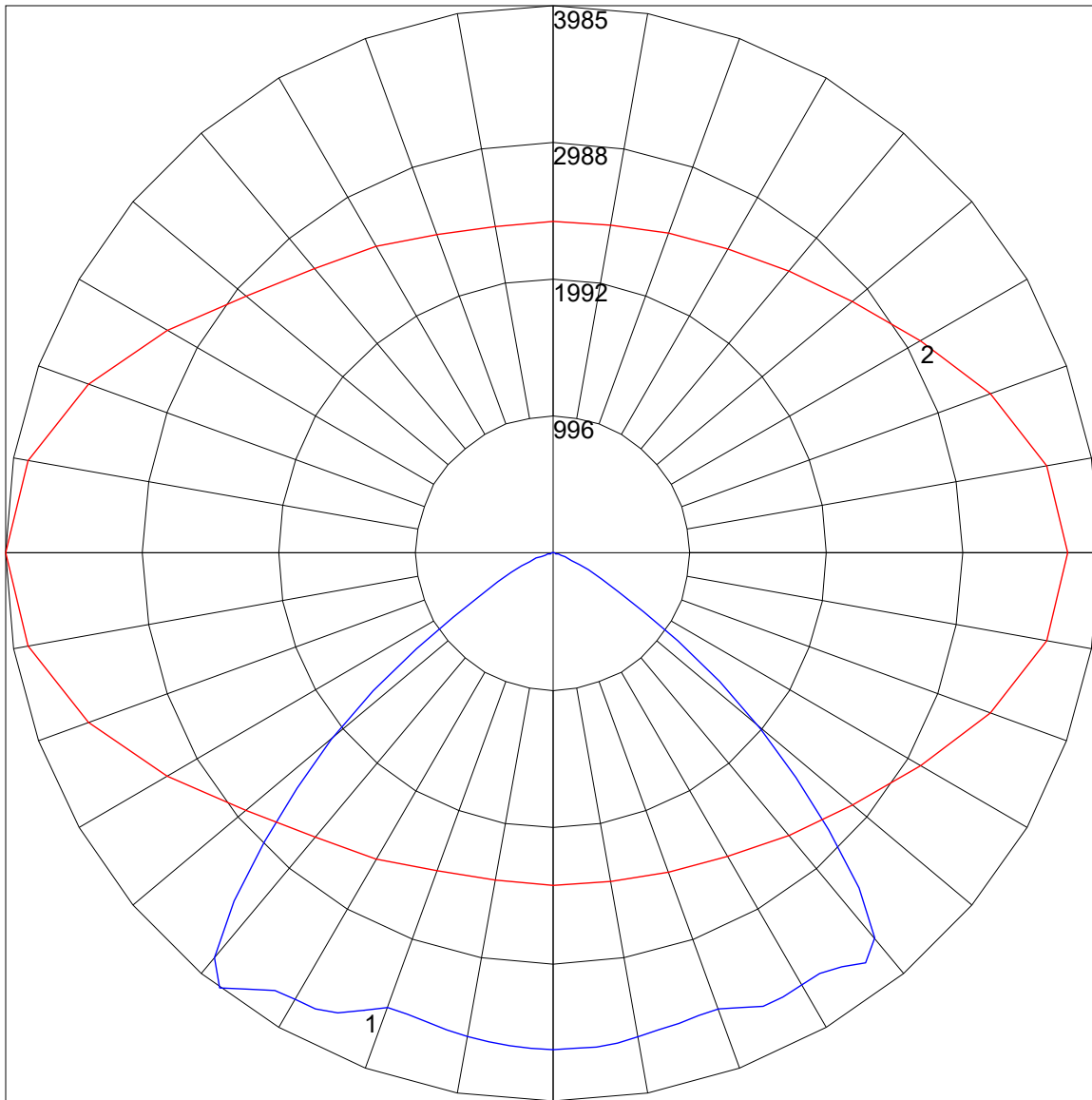
Reflectances

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	19.8	21.2	20.1	21.6	21.9	19.5	21.0	19.9	21.3	21.6
	3H	19.9	21.2	20.3	21.6	21.9	20.2	21.5	20.5	21.8	22.2
	4H	19.9	21.1	20.3	21.5	21.8	20.3	21.6	20.7	21.9	22.3
	6H	19.8	21.0	20.2	21.3	21.7	20.3	21.5	20.7	21.8	22.2
	8H	19.8	20.9	20.2	21.3	21.7	20.3	21.4	20.7	21.8	22.2
	12H	19.7	20.8	20.2	21.2	21.6	20.3	21.3	20.7	21.7	22.1
4H	2H	20.2	21.4	20.6	21.8	22.2	20.0	21.2	20.4	21.6	21.9
	3H	20.4	21.4	20.8	21.8	22.2	20.8	21.8	21.2	22.2	22.6
	4H	20.4	21.3	20.8	21.7	22.2	21.0	21.9	21.4	22.3	22.7
	6H	20.4	21.1	20.8	21.6	22.1	21.0	21.8	21.5	22.3	22.7
	8H	20.3	21.1	20.8	21.5	22.0	21.0	21.7	21.5	22.2	22.7
	12H	20.3	20.9	20.8	21.4	21.9	21.0	21.6	21.5	22.1	22.6
8H	4H	20.4	21.2	20.9	21.6	22.1	21.0	21.7	21.4	22.1	22.6
	6H	20.4	21.0	20.9	21.5	22.0	21.0	21.7	21.5	22.1	22.6
	8H	20.3	20.9	20.8	21.4	21.9	21.0	21.6	21.5	22.1	22.6
	12H	20.3	20.8	20.8	21.3	21.8	21.0	21.5	21.5	22.0	22.6
12H	4H	20.4	21.1	20.9	21.6	22.0	20.9	21.6	21.4	22.1	22.5
	6H	20.4	20.9	20.9	21.4	21.9	21.0	21.6	21.5	22.0	22.6
	8H	20.3	20.8	20.8	21.3	21.9	21.0	21.5	21.5	22.0	22.6

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 3984.641 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.)