

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9604HTHO4K120-480V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4565
[TESTLAB] TUV SUD America
[ISSUE DATE] 8/28/2024 10:19:48 AM
[MANUFAC] BEGHELLI NORTH AMERICA
[LUMCAT] INDOOR LUMINAIRES / HIGH-BAY LUMINAIRE
[LUMINAIRE] BX9604HTHO4K[120-480V] [CR; RW] [FP; REM; SP] [OS] [CC]
[AMBIENT] 24.5 deg C
[POWERFACTOR] 0.9977
[ATHD] 4.87%
[CURRENT] 0.67
[VOLTAGE] 120.28
[STABILIZATION] 47:55.8 Stable
[POWER VARIATION] 0.50%
[LIGHT VARIATION] 0.48%
[Lumens] 11165.4

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.42 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25348	24663	24218
55	23089	21866	21063
65	19944	18170	16668
75	15820	13163	9772
85	8660	4547	3929

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094
2.5	4335.746	4342.759	4340.670	4333.797	4315.870	4315.383	4329.549	4325.022	4326.962	4342.809
5.0	4331.986	4334.254	4329.648	4324.455	4302.430	4302.301	4317.352	4310.558	4311.543	4330.185
7.5	4311.244	4311.622	4309.882	4304.131	4280.942	4279.948	4295.845	4289.955	4290.841	4311.284
10.0	4282.713	4285.658	4283.370	4277.242	4253.705	4251.268	4263.036	4259.147	4261.832	4280.027
12.5	4244.702	4251.029	4248.313	4240.206	4218.021	4217.843	4226.925	4222.896	4222.777	4239.818
15.0	4205.547	4206.293	4201.717	4195.738	4168.470	4172.669	4183.532	4178.269	4176.409	4192.594
17.5	4158.642	4152.912	4147.749	4142.188	4114.453	4113.528	4129.216	4123.615	4120.262	4133.891
20.0	4096.646	4093.602	4087.086	4075.835	4049.313	4052.149	4062.236	4057.699	4055.073	4063.977
22.5	4019.360	4022.494	4017.002	4005.413	3977.250	3981.140	3985.776	3982.722	3979.797	3984.283
25.0	3933.897	3937.100	3930.912	3921.919	3891.787	3902.252	3900.810	3896.810	3894.761	3895.020
27.5	3839.828	3840.574	3835.590	3825.812	3793.311	3803.846	3803.797	3797.927	3798.196	3794.843
30.0	3725.934	3727.317	3721.019	3709.848	3683.167	3687.306	3691.414	3681.048	3679.536	3681.735
32.5	3592.481	3589.626	3585.150	3567.214	3540.334	3549.466	3555.554	3546.502	3542.930	3548.302
35.0	3445.947	3440.377	3437.989	3417.864	3382.061	3393.571	3399.321	3390.089	3387.921	3401.808
37.5	3292.261	3284.979	3280.054	3257.413	3223.440	3229.548	3225.340	3212.448	3212.796	3231.389
40.0	3122.508	3121.155	3114.112	3092.734	3058.334	3054.553	3044.426	3028.539	3028.310	3041.183
42.5	2942.728	2950.338	2937.465	2922.305	2880.453	2875.828	2865.700	2839.915	2840.771	2846.869
45.0	2773.403	2775.860	2757.297	2743.350	2703.389	2693.620	2677.872	2650.038	2643.164	2649.819
47.5	2594.548	2596.110	2579.138	2553.244	2520.873	2505.016	2488.830	2456.649	2445.487	2449.645
50.0	2414.678	2415.275	2395.827	2365.296	2332.527	2316.223	2295.521	2267.607	2249.283	2255.490
52.5	2237.335	2233.445	2210.953	2178.791	2139.178	2127.797	2103.326	2073.979	2056.819	2061.176
55.0	2049.208	2047.169	2023.324	1991.878	1948.167	1933.235	1909.688	1883.763	1865.727	1869.368
57.5	1857.670	1860.107	1836.928	1804.378	1757.901	1735.319	1716.915	1691.797	1675.442	1674.994
60.0	1662.908	1671.841	1648.403	1615.804	1567.118	1547.988	1529.356	1499.114	1481.307	1479.765
62.5	1479.705	1484.132	1459.620	1430.662	1382.354	1360.807	1341.935	1308.610	1287.918	1283.013
65.0	1304.203	1301.059	1273.384	1244.813	1199.450	1176.978	1154.067	1119.359	1092.270	1089.982
67.5	1125.377	1122.114	1091.882	1065.391	1022.038	997.844	968.726	937.868	909.416	908.620
70.0	950.959	950.024	924.627	902.065	861.795	833.831	794.925	754.108	726.015	721.528
72.5	793.811	787.344	763.449	741.792	699.205	667.919	626.376	581.759	552.810	548.075
75.0	633.558	627.958	606.161	588.902	547.488	506.821	469.665	423.029	393.264	391.344
77.5	480.051	478.648	459.757	445.402	403.381	361.102	319.430	274.644	256.857	257.285
80.0	340.898	341.604	326.265	314.496	269.760	224.576	189.927	172.697	169.812	170.439
82.5	219.741	219.721	208.779	195.657	147.748	116.670	113.785	107.916	106.533	107.090
85.0	116.790	118.431	110.144	90.477	62.971	59.678	58.435	55.092	52.734	52.983
87.5	42.926	45.542	38.290	27.934	19.797	13.768	13.858	12.823	12.793	12.962
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	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094
2.5	4324.664	4323.779	4326.336	4315.810	4321.550	4335.786	4340.700	4341.596	4335.428	4341.596
5.0	4311.194	4312.677	4315.591	4306.121	4310.379	4325.022	4331.369	4333.239	4324.982	4333.239
7.5	4292.592	4294.312	4296.163	4285.668	4290.403	4305.992	4311.095	4312.388	4303.196	4312.388
10.0	4260.808	4261.862	4269.652	4259.256	4263.056	4279.799	4283.350	4284.961	4274.974	4284.961
12.5	4224.886	4229.034	4228.696	4220.688	4225.293	4238.992	4244.483	4248.691	4242.374	4248.691
15.0	4181.393	4182.070	4180.876	4175.613	4177.364	4192.664	4199.697	4198.951	4194.206	4198.951
17.5	4124.580	4126.729	4128.400	4119.496	4116.771	4135.761	4143.929	4142.526	4138.646	4142.526
20.0	4057.262	4062.246	4064.156	4061.599	4063.111	4078.312	4080.948	4079.744	4075.029	4079.744
22.5	3978.623	3986.989	3992.749	3990.272	3988.103	4002.180	4007.323	4004.319	4002.787	4004.319
25.0	3893.160	3902.909	3907.355	3905.943	3907.067	3916.856	3924.018	3918.537	3914.289	3918.537
27.5	3799.330	3805.020	3812.561	3812.869	3812.004	3821.763	3827.115	3826.130	3814.163	3826.130
30.0	3688.221	3688.499	3704.496	3703.779	3703.889	3716.682	3723.198	3723.506	3713.300	3723.506
32.5	3559.723	3559.086	3574.416	3583.578	3586.473	3588.243	3603.852	3599.296	3594.272	3599.296
35.0	3408.483	3408.612	3420.063	3432.329	3436.586	3440.764	3458.760	3447.818	3444.067	3447.818
37.5	3237.308	3242.342	3254.210	3263.909	3268.545	3273.180	3287.814	3281.049	3273.817	3281.049
40.0	3049.728	3055.568	3063.128	3085.044	3089.968	3088.764	3110.978	3100.702	3100.085	3100.702
42.5	2858.608	2860.647	2871.400	2897.395	2903.543	2902.707	2932.133	2917.380	2914.953	2917.380
45.0	2660.443	2664.462	2678.907	2698.813	2716.063	2719.186	2743.071	2735.700	2731.104	2735.700
47.5	2461.533	2468.507	2482.583	2507.821	2532.492	2529.567	2552.388	2550.856	2547.444	2550.856
50.0	2267.557	2275.446	2286.269	2318.720	2337.670	2337.113	2364.311	2363.137	2361.635	2363.137
52.5	2074.506	2084.215	2097.595	2123.480	2142.411	2144.908	2173.926	2173.240	2172.573	2173.240
55.0	1881.147	1889.384	1902.386	1928.619	1951.240	1952.325	1980.567	1980.100	1977.364	1980.100
57.5	1686.136	1694.701	1708.231	1733.926	1756.449	1759.065	1785.387	1786.561	1785.557	1786.561
60.0	1489.872	1505.182	1518.871	1543.343	1570.471	1567.934	1592.784	1595.888	1598.037	1595.888
62.5	1295.538	1316.429	1332.117	1357.027	1382.702	1378.037	1401.365	1409.184	1411.243	1409.184
65.0	1102.358	1124.184	1146.308	1171.735	1193.511	1194.427	1218.162	1226.787	1231.463	1226.787
67.5	920.469	938.793	965.503	990.473	1015.303	1015.591	1044.212	1049.484	1052.309	1049.484
70.0	736.669	758.147	786.708	827.624	853.906	851.668	876.349	881.582	885.163	881.582
72.5	564.042	589.111	616.100	662.457	693.157	694.072	712.088	720.116	723.249	720.116
75.0	406.147	430.818	461.120	504.354	543.499	544.305	560.411	565.136	566.837	565.136
77.5	265.900	280.981	315.740	359.352	399.611	405.202	419.607	420.572	422.432	420.572
80.0	173.642	175.940	186.943	223.173	265.731	278.017	290.989	289.666	291.377	289.666

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82.5	109.697	110.393	111.010	116.690	141.480	163.714	178.497	176.289	177.820	176.289
85.0	55.152	56.883	56.654	58.624	62.225	66.821	85.682	85.742	85.891	85.742
87.5	14.116	14.335	13.291	13.380	17.777	17.966	23.040	25.238	25.208	25.238
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	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094
2.5	4340.700	4335.786	4321.550	4315.810	4326.336	4323.779	4324.664	4342.809	4326.962	4325.022
5.0	4331.369	4325.022	4310.379	4306.121	4315.591	4312.677	4311.194	4330.185	4311.543	4310.558
7.5	4311.095	4305.992	4290.403	4285.668	4296.163	4294.312	4292.592	4311.284	4290.841	4289.955
10.0	4283.350	4279.799	4263.056	4259.256	4269.652	4261.862	4260.808	4280.027	4261.832	4259.147
12.5	4244.483	4238.992	4225.293	4220.688	4228.696	4229.034	4224.886	4239.818	4222.777	4222.896
15.0	4199.697	4192.664	4177.364	4175.613	4180.876	4182.070	4181.393	4192.594	4176.409	4178.269
17.5	4143.929	4135.761	4116.771	4119.496	4128.400	4126.729	4124.580	4133.891	4120.262	4123.615
20.0	4080.948	4078.312	4063.111	4061.599	4064.156	4062.246	4057.262	4063.977	4055.073	4057.699
22.5	4007.323	4002.180	3988.103	3990.272	3992.749	3986.989	3978.623	3984.283	3979.797	3982.722
25.0	3924.018	3916.856	3907.067	3905.943	3907.355	3902.909	3893.160	3895.020	3894.761	3896.810
27.5	3827.115	3821.763	3812.004	3812.869	3812.561	3805.020	3799.330	3794.843	3798.196	3797.927

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CANDELA TABULATION - (Cont.)

30.0	3723.198	3716.682	3703.889	3703.779	3704.496	3688.499	3688.221	3681.735	3679.536	3681.048
32.5	3603.852	3588.243	3586.473	3583.578	3574.416	3559.086	3559.723	3548.302	3542.930	3546.502
35.0	3458.760	3440.764	3436.586	3432.329	3420.063	3408.612	3408.483	3401.808	3387.921	3390.089
37.5	3287.814	3273.180	3268.545	3263.909	3254.210	3242.342	3237.308	3231.389	3212.796	3212.448
40.0	3110.978	3088.764	3089.968	3085.044	3063.128	3055.568	3049.728	3041.183	3028.310	3028.539
42.5	2932.133	2902.707	2903.543	2897.395	2871.400	2860.647	2858.608	2846.869	2840.771	2839.915
45.0	2743.071	2719.186	2716.063	2698.813	2678.907	2664.462	2660.443	2649.819	2643.164	2650.038
47.5	2552.388	2529.567	2532.492	2507.821	2482.583	2468.507	2461.533	2449.645	2445.487	2456.649
50.0	2364.311	2337.113	2337.670	2318.720	2286.269	2275.446	2267.557	2255.490	2249.283	2267.607
52.5	2173.926	2144.908	2142.411	2123.480	2097.595	2084.215	2074.506	2061.176	2056.819	2073.979
55.0	1980.567	1952.325	1951.240	1928.619	1902.386	1889.384	1881.147	1869.368	1865.727	1883.763
57.5	1785.387	1759.065	1756.449	1733.926	1708.231	1694.701	1686.136	1674.994	1675.442	1691.797
60.0	1592.784	1567.934	1570.471	1543.343	1518.871	1505.182	1489.872	1479.765	1481.307	1499.114
62.5	1401.365	1378.037	1382.702	1357.027	1332.117	1316.429	1295.538	1283.013	1287.918	1308.610
65.0	1218.162	1194.427	1193.511	1171.735	1146.308	1124.184	1102.358	1089.982	1092.270	1119.359
67.5	1044.212	1015.591	1015.303	990.473	965.503	938.793	920.469	908.620	909.416	937.868
70.0	876.349	851.668	853.906	827.624	786.708	758.147	736.669	721.528	726.015	754.108
72.5	712.088	694.072	693.157	662.457	616.100	589.111	564.042	548.075	552.810	581.759
75.0	560.411	544.305	543.499	504.354	461.120	430.818	406.147	391.344	393.264	423.029
77.5	419.607	405.202	399.611	359.352	315.740	280.981	265.900	257.285	256.857	274.644
80.0	290.989	278.017	265.731	223.173	186.943	175.940	173.642	170.439	169.812	172.697
82.5	178.497	163.714	141.480	116.690	111.010	110.393	109.697	107.090	106.533	107.916
85.0	85.682	66.821	62.225	58.624	56.654	56.883	55.152	52.983	52.734	55.092
87.5	23.040	17.966	17.777	13.380	13.291	14.335	14.116	12.962	12.793	12.823
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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094	4336.094
2.5	4329.549	4315.383	4315.870	4333.797	4340.670	4342.759	4335.746
5.0	4317.352	4302.301	4302.430	4324.455	4329.648	4334.254	4331.986
7.5	4295.845	4279.948	4280.942	4304.131	4309.882	4311.622	4311.244
10.0	4263.036	4251.268	4253.705	4277.242	4283.370	4285.658	4282.713
12.5	4226.925	4217.843	4218.021	4240.206	4248.313	4251.029	4244.702
15.0	4183.532	4172.669	4168.470	4195.738	4201.717	4206.293	4205.547
17.5	4129.216	4113.528	4114.453	4142.188	4147.749	4152.912	4158.642
20.0	4062.236	4052.149	4049.313	4075.835	4087.086	4093.602	4096.646
22.5	3985.776	3981.140	3977.250	4005.413	4017.002	4022.494	4019.360
25.0	3900.810	3902.252	3891.787	3921.919	3930.912	3937.100	3933.897
27.5	3803.797	3803.846	3793.311	3825.812	3835.590	3840.574	3839.828
30.0	3691.414	3687.306	3683.167	3709.848	3721.019	3727.317	3725.934
32.5	3555.554	3549.466	3540.334	3567.214	3585.150	3589.626	3592.481
35.0	3399.321	3393.571	3382.061	3417.864	3437.989	3440.377	3445.947
37.5	3225.340	3229.548	3223.440	3257.413	3280.054	3284.979	3292.261
40.0	3044.426	3054.553	3058.334	3092.734	3114.112	3121.155	3122.508
42.5	2865.700	2875.828	2880.453	2922.305	2937.465	2950.338	2942.728
45.0	2677.872	2693.620	2703.389	2743.350	2757.297	2775.860	2773.403
47.5	2488.830	2505.016	2520.873	2553.244	2579.138	2596.110	2594.548
50.0	2295.521	2316.223	2332.527	2365.296	2395.827	2415.275	2414.678
52.5	2103.326	2127.797	2139.178	2178.791	2210.953	2233.445	2237.335
55.0	1909.688	1933.235	1948.167	1991.878	2023.324	2047.169	2049.208
57.5	1716.915	1735.319	1757.901	1804.378	1836.928	1860.107	1857.670
60.0	1529.356	1547.988	1567.118	1615.804	1648.403	1671.841	1662.908
62.5	1341.935	1360.807	1382.354	1430.662	1459.620	1484.132	1479.705
65.0	1154.067	1176.978	1199.450	1244.813	1273.384	1301.059	1304.203
67.5	968.726	997.844	1022.038	1065.391	1091.882	1122.114	1125.377
70.0	794.925	833.831	861.795	902.065	924.627	950.024	950.959
72.5	626.376	667.919	699.205	741.792	763.449	787.344	793.811
75.0	469.665	506.821	547.488	588.902	606.161	627.958	633.558
77.5	319.430	361.102	403.381	445.402	459.757	478.648	480.051
80.0	189.927	224.576	269.760	314.496	326.265	341.604	340.898
82.5	113.785	116.670	147.748	195.657	208.779	219.721	219.741
85.0	58.435	59.678	62.971	90.477	110.144	118.431	116.790
87.5	13.858	13.768	19.797	27.934	38.290	45.542	42.926
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	1592.68	N.A.	14.30
0-30	3393.16	N.A.	30.40
0-40	5526.19	N.A.	49.50
0-60	9345.91	N.A.	83.70
0-80	11067.35	N.A.	99.10
0-90	11165.23	N.A.	100.00
10-90	10754.55	N.A.	96.30
20-40	3933.51	N.A.	35.20
20-50	6018.00	N.A.	53.90
40-70	4994.03	N.A.	44.70
60-80	1721.44	N.A.	15.40
70-80	547.13	N.A.	4.90
80-90	97.88	N.A.	0.90
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	11165.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	410.68
10-20	1181.99
20-30	1800.48
30-40	2133.02
40-50	2084.49
50-60	1735.24
60-70	1174.31
70-80	547.13
80-90	97.88
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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

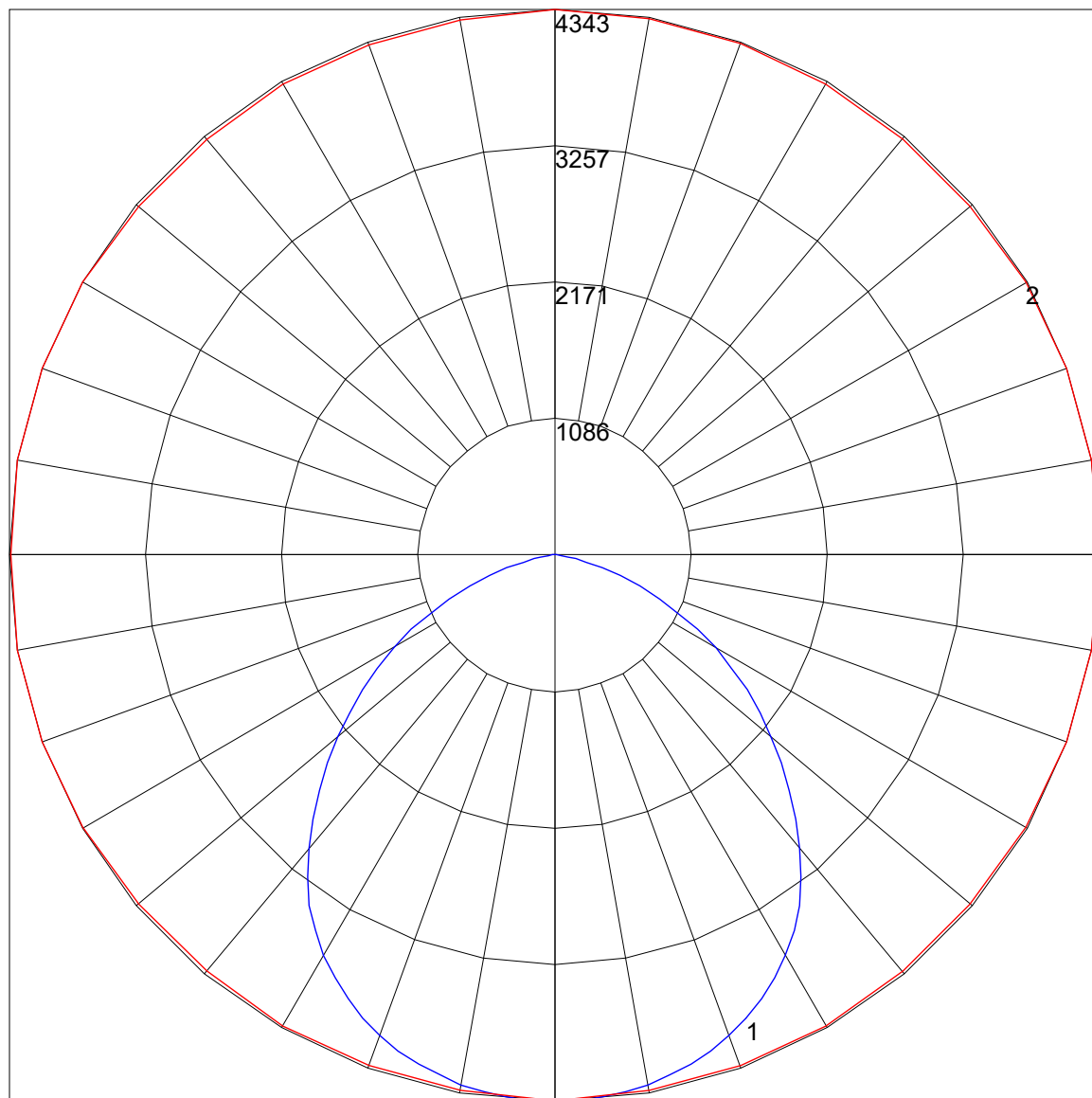
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UGR TABLE - CORRECTED

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	23.0	24.6	23.4	24.9	25.2	22.4	24.0	22.8	24.3	24.6
	3H	24.6	26.0	24.9	26.3	26.7	23.6	25.1	24.0	25.4	25.8
	4H	25.1	26.4	25.5	26.8	27.2	23.9	25.3	24.3	25.6	26.0
	6H	25.5	26.7	25.9	27.1	27.4	24.0	25.3	24.5	25.6	26.0
	8H	25.6	26.7	26.0	27.1	27.5	24.1	25.2	24.5	25.6	26.0
	12H	25.6	26.7	26.0	27.1	27.5	24.1	25.2	24.5	25.6	26.0
4H	2H	23.5	24.8	23.9	25.1	25.5	23.0	24.3	23.4	24.7	25.0
	3H	25.2	26.3	25.6	26.7	27.1	24.4	25.5	24.8	25.9	26.3
	4H	25.9	26.9	26.3	27.3	27.7	24.8	25.8	25.2	26.2	26.6
	6H	26.3	27.2	26.8	27.7	28.1	24.9	25.8	25.4	26.3	26.7
	8H	26.5	27.3	26.9	27.7	28.2	25.0	25.8	25.4	26.2	26.7
	12H	26.5	27.3	27.0	27.7	28.2	25.0	25.7	25.4	26.2	26.6
8H	4H	26.0	26.8	26.5	27.3	27.8	25.0	25.8	25.5	26.3	26.7
	6H	26.6	27.2	27.1	27.7	28.2	25.2	25.9	25.7	26.4	26.9
	8H	26.7	27.3	27.3	27.8	28.3	25.3	25.9	25.8	26.4	26.8
	12H	26.8	27.4	27.4	27.9	28.4	25.3	25.8	25.8	26.3	26.9
12H	4H	26.0	26.7	26.5	27.2	27.7	25.0	25.8	25.5	26.2	26.7
	6H	26.6	27.2	27.1	27.6	28.2	25.2	25.8	25.8	26.3	26.8
	8H	26.7	27.3	27.3	27.8	28.3	25.3	25.8	25.8	26.3	26.9

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 4342.809 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)