



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GH-2-L120-840-FA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13326828.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 05-MAY-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMCAT] GH-2-L120-840-FA-DIM-UNV
 [LUMINAIRE] White steel housing, frosted lens enclosure
 [LAMP] 168 white LEDs
 [BALLAST] ULT D15CC55UNVPW-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11922
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	90.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.85 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.27 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17742	17995	20145
55	14612	15962	18825
65	11314	13630	16297
75	7782	10478	11427
85	3452	6154	7664

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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	3899.679	3899.679	3899.679	3899.679	3899.679
0.5	3948.407	3892.296	3896.726	3892.296	3887.867
1.0	3948.407	3892.296	3896.726	3890.820	3886.390
1.5	3946.930	3890.820	3895.250	3890.820	3884.913
2.0	3945.454	3889.343	3893.773	3889.343	3884.913
2.5	3942.500	3887.867	3892.296	3887.867	3883.437
3.0	3941.024	3884.913	3890.820	3886.390	3881.960
3.5	3938.071	3881.960	3887.867	3884.913	3880.484
4.0	3933.641	3879.007	3886.390	3883.437	3879.007
4.5	3929.211	3876.054	3883.437	3880.484	3877.530
5.0	3924.781	3871.624	3880.484	3877.530	3874.577
5.5	3920.352	3867.194	3876.054	3874.577	3871.624
6.0	3915.922	3862.765	3873.101	3871.624	3868.671
6.5	3908.539	3856.858	3867.194	3868.671	3865.718
7.0	3902.633	3850.952	3862.765	3864.241	3862.765
7.5	3895.250	3845.045	3858.335	3861.288	3858.335
8.0	3889.343	3839.139	3852.428	3855.382	3855.382
8.5	3880.484	3831.756	3847.999	3852.428	3850.952
9.0	3871.624	3824.373	3840.616	3846.522	3846.522
9.5	3864.241	3816.990	3834.709	3842.092	3842.092
10.0	3853.905	3808.131	3828.803	3836.186	3837.662
10.5	3845.045	3800.748	3821.420	3830.280	3833.233
11.0	3836.186	3791.888	3814.037	3825.850	3827.326
11.5	3825.850	3783.029	3806.654	3819.943	3821.420
12.0	3814.037	3772.692	3799.271	3812.560	3815.514
12.5	3803.701	3762.356	3790.412	3806.654	3809.607
13.0	3791.888	3752.020	3781.552	3799.271	3803.701
13.5	3780.075	3741.684	3772.692	3791.888	3796.318
14.0	3766.786	3729.871	3762.356	3784.505	3790.412
14.5	3754.973	3718.059	3753.497	3775.646	3783.029
15.0	3741.684	3706.246	3743.161	3768.263	3775.646
15.5	3726.918	3692.956	3731.348	3759.403	3768.263
16.0	3713.629	3679.667	3721.012	3750.544	3759.403
16.5	3697.386	3666.378	3709.199	3741.684	3752.020
17.0	3682.620	3653.088	3698.863	3731.348	3743.161
17.5	3664.901	3638.323	3687.050	3722.488	3734.301
18.0	3648.659	3623.557	3673.761	3712.152	3725.441
18.5	3630.940	3607.314	3661.948	3701.816	3715.105
19.0	3613.220	3591.072	3648.659	3691.480	3706.246
19.5	3595.501	3573.353	3635.369	3681.144	3695.910
20.0	3577.782	3557.110	3622.080	3669.331	3685.573
20.5	3557.110	3540.867	3608.791	3657.518	3675.237
21.0	3539.391	3523.148	3595.501	3647.182	3664.901
21.5	3518.719	3505.429	3580.735	3635.369	3654.565
22.0	3499.523	3487.710	3565.970	3623.557	3642.752
22.5	3478.851	3468.514	3551.204	3610.267	3632.416
23.0	3458.178	3450.795	3536.438	3598.455	3620.603
23.5	3437.506	3431.600	3520.195	3586.642	3610.267
24.0	3416.834	3412.404	3503.953	3573.353	3598.455
24.5	3394.685	3393.208	3487.710	3560.063	3586.642
25.0	3372.536	3372.536	3471.468	3546.774	3574.829
25.5	3350.387	3353.340	3455.225	3533.485	3561.540
26.0	3326.762	3332.668	3437.506	3520.195	3549.727
26.5	3304.613	3311.996	3419.787	3505.429	3536.438

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CANDELA TABULATION - (Cont.)

27.0	3280.987	3289.847	3402.068	3492.140	3523.148
27.5	3254.409	3267.698	3384.349	3477.374	3509.859
28.0	3229.307	3245.549	3365.153	3462.608	3496.570
28.5	3204.205	3221.924	3345.957	3446.366	3481.804
29.0	3177.626	3198.298	3328.238	3431.600	3467.038
29.5	3151.047	3174.673	3307.566	3415.357	3452.272
30.0	3122.992	3149.571	3286.894	3397.638	3436.029
30.5	3096.413	3124.469	3266.221	3379.919	3419.787
31.0	3068.358	3099.366	3244.073	3362.200	3402.068
31.5	3038.826	3072.788	3223.400	3344.481	3385.825
32.0	3010.771	3046.209	3201.251	3326.762	3368.106
32.5	2981.239	3019.631	3179.102	3307.566	3350.387
33.0	2951.707	2993.052	3155.477	3286.894	3331.191
33.5	2922.175	2964.997	3131.852	3267.698	3311.996
34.0	2891.167	2936.941	3109.703	3247.026	3292.800
34.5	2860.159	2908.886	3084.601	3226.353	3272.128
35.0	2829.150	2880.831	3060.975	3205.681	3252.932
35.5	2798.142	2851.299	3035.873	3185.009	3233.736
36.0	2767.133	2823.244	3010.771	3162.860	3213.064
36.5	2733.172	2792.235	2987.146	3140.711	3192.392
37.0	2700.687	2762.704	2960.567	3118.562	3170.243
37.5	2668.202	2734.648	2935.465	3096.413	3149.571
38.0	2635.717	2703.640	2908.886	3072.788	3127.422
38.5	2603.232	2674.108	2882.307	3049.162	3105.273
39.0	2569.270	2643.100	2857.205	3027.013	3083.124
39.5	2535.308	2612.091	2829.150	3003.388	3060.975
40.0	2502.823	2581.083	2802.572	2979.763	3037.350
40.5	2468.862	2550.074	2775.993	2956.137	3013.724
41.0	2434.900	2519.066	2749.414	2931.035	2991.575
41.5	2400.939	2488.057	2721.359	2908.886	2969.426
42.0	2366.977	2457.049	2694.780	2885.261	2947.278
42.5	2334.492	2427.517	2669.678	2861.635	2923.652
43.0	2300.530	2396.509	2643.100	2838.010	2900.027
43.5	2268.045	2365.500	2615.044	2814.384	2877.878
44.0	2234.084	2334.492	2589.942	2792.235	2855.729
44.5	2201.599	2304.960	2563.364	2768.610	2835.057
45.0	2169.114	2275.428	2538.262	2744.984	2814.384
45.5	2136.629	2244.420	2511.683	2722.836	2790.759
46.0	2104.144	2214.888	2486.581	2699.210	2768.610
46.5	2071.658	2185.356	2460.002	2677.061	2746.461
47.0	2039.173	2155.824	2433.424	2653.436	2725.789
47.5	2006.688	2124.816	2408.321	2629.810	2703.640
48.0	1975.680	2095.284	2383.219	2606.185	2680.014
48.5	1943.195	2065.752	2356.641	2582.559	2657.866
49.0	1910.710	2036.220	2331.539	2560.410	2635.717
49.5	1878.225	2005.212	2304.960	2536.785	2613.568
50.0	1845.740	1975.680	2279.858	2513.159	2589.942
50.5	1813.255	1946.148	2253.279	2488.057	2567.793
51.0	1782.246	1916.616	2228.177	2464.432	2544.168
51.5	1748.285	1887.085	2201.599	2440.806	2520.542
52.0	1717.276	1857.553	2175.020	2415.704	2496.917
52.5	1684.791	1828.021	2148.441	2392.079	2474.768
53.0	1653.783	1798.489	2121.863	2366.977	2449.666
53.5	1621.298	1768.957	2096.761	2341.875	2426.041
54.0	1590.290	1739.425	2070.182	2316.773	2399.462
54.5	1557.805	1709.893	2043.603	2291.671	2374.360

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55.0	1528.273	1680.362	2017.025	2266.569	2349.258
55.5	1495.788	1652.306	1990.446	2239.990	2322.679
56.0	1465.222	1622.775	1963.867	2213.411	2296.100
56.5	1434.361	1594.719	1937.289	2186.833	2268.045
57.0	1403.944	1565.187	1909.233	2160.254	2238.513
57.5	1373.673	1537.132	1882.655	2132.199	2210.458
58.0	1343.403	1509.077	1854.599	2105.620	2180.926
58.5	1312.543	1481.022	1828.021	2076.088	2149.918
59.0	1282.420	1452.671	1801.442	2048.033	2120.386
59.5	1252.741	1425.650	1773.387	2017.025	2089.378
60.0	1222.913	1397.594	1745.332	1987.493	2056.893
60.5	1193.825	1370.277	1717.276	1957.961	2025.884
61.0	1165.031	1342.960	1690.698	1928.429	1993.399
61.5	1136.238	1316.086	1664.119	1897.421	1960.914
62.0	1110.249	1288.769	1636.064	1864.936	1928.429
62.5	1083.966	1262.634	1608.009	1833.927	1895.944
63.0	1056.502	1236.498	1581.430	1802.919	1863.459
63.5	1028.742	1210.805	1553.375	1770.434	1829.497
64.0	1001.425	1185.703	1525.319	1739.425	1797.012
64.5	973.960	1160.306	1498.741	1706.940	1764.527
65.0	947.381	1135.942	1469.652	1672.979	1729.089
65.5	920.950	1112.464	1441.006	1641.970	1693.651
66.0	894.962	1091.644	1412.508	1609.485	1658.213
66.5	869.122	1068.314	1384.010	1577.000	1625.728
67.0	843.429	1043.803	1355.511	1544.515	1588.813
67.5	818.327	1019.734	1326.423	1510.554	1550.422
68.0	793.521	996.109	1296.891	1476.001	1512.030
68.5	768.861	972.483	1267.359	1442.335	1475.854
69.0	744.350	949.006	1238.861	1408.521	1437.610
69.5	720.134	925.233	1210.362	1373.673	1397.890
70.0	695.770	901.607	1181.717	1337.497	1356.840
70.5	671.997	877.834	1152.775	1300.435	1315.496
71.0	648.667	854.208	1126.935	1264.701	1275.480
71.5	625.041	830.288	1098.732	1228.377	1235.022
72.0	601.859	805.924	1072.744	1190.871	1193.529
72.5	579.119	782.151	1045.132	1153.514	1154.400
73.0	556.528	758.082	1016.043	1116.894	1113.941
73.5	534.231	734.309	986.659	1079.536	1074.073
74.0	512.525	710.684	958.161	1045.427	1038.192
74.5	490.819	686.763	929.662	1008.365	1000.243
75.0	469.556	662.694	901.312	970.859	961.852
75.5	448.736	639.069	872.075	934.535	925.085
76.0	428.359	615.444	842.396	899.540	890.385
76.5	408.425	592.261	812.864	866.021	856.719
77.0	388.639	568.931	783.775	833.388	824.677
77.5	369.296	545.748	755.424	801.051	792.930
78.0	350.395	523.157	726.631	769.157	762.512
78.5	331.790	501.155	697.542	739.182	733.866
79.0	313.776	480.040	669.044	710.979	706.992
79.5	295.909	459.072	641.432	683.662	680.709
80.0	278.485	438.400	614.705	656.788	655.459
80.5	261.357	418.318	588.422	631.243	631.391
81.0	244.524	398.237	561.991	606.732	608.651
81.5	228.133	378.746	535.855	583.254	587.093
82.0	212.039	358.812	511.196	561.105	566.273
82.5	196.091	339.026	487.571	539.694	546.191

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CANDELA TABULATION - (Cont.)

83.0	180.587	319.387	464.683	518.874	526.700
83.5	165.526	300.043	441.944	498.940	508.243
84.0	150.612	280.995	419.795	480.040	490.672
84.5	135.846	261.947	398.680	462.173	473.838
85.0	121.228	243.195	379.041	444.749	457.448
85.5	106.758	224.885	360.288	427.916	441.501
86.0	92.139	207.018	341.979	411.674	426.144
86.5	77.669	189.742	324.112	396.170	411.526
87.0	62.903	172.909	307.574	381.551	397.499
87.5	48.137	156.666	292.070	367.376	383.323
88.0	33.519	141.458	277.452	353.496	369.296
88.5	18.900	126.987	264.015	340.207	356.597
89.0	5.906	115.027	252.497	329.575	346.261
89.5	0.000	105.724	242.604	319.682	336.220
90.0	0.000	99.670	235.073	311.266	327.508
90.5	3.839	127.578	291.184	396.317	424.816
91.0	3.987	123.000	283.949	387.162	414.922
91.5	4.134	118.570	277.599	379.189	406.506
92.0	4.134	114.288	271.545	371.658	398.237
92.5	4.282	110.006	265.196	364.571	390.854
93.0	4.430	105.872	258.994	357.335	383.323
93.5	4.725	102.180	252.793	349.805	375.793
94.0	5.168	98.636	246.591	342.569	367.671
94.5	5.759	94.945	240.242	335.629	360.288
95.0	6.349	91.549	234.335	328.689	353.201
95.5	7.088	88.448	228.429	321.454	346.113
96.0	7.678	85.495	222.965	314.219	338.878
96.5	8.269	82.541	217.945	307.426	331.052
97.0	8.860	79.736	213.072	300.782	324.112
97.5	9.598	76.930	208.347	294.285	317.320
98.0	10.041	74.568	203.474	288.083	310.675
98.5	10.484	72.353	198.306	282.620	304.178
99.0	10.779	70.286	193.138	277.304	298.419
99.5	11.074	68.366	188.561	271.988	293.104
100.0	11.370	66.447	183.983	266.525	287.788
100.5	11.517	64.675	179.701	261.209	282.324
101.0	11.665	63.050	175.714	255.155	276.861
101.5	11.813	61.722	171.432	248.806	271.693
102.0	11.960	60.393	167.298	243.047	265.048
102.5	12.108	59.211	163.163	238.027	258.551
103.0	12.403	58.178	158.881	233.006	252.793
103.5	12.551	57.144	154.747	227.986	247.920
104.0	12.699	56.110	150.760	223.556	242.899
104.5	12.846	55.225	147.069	219.274	237.584
105.0	12.994	54.339	143.525	214.844	233.302
105.5	13.142	53.600	140.572	210.119	229.167
106.0	13.289	53.010	137.618	205.689	224.885
106.5	13.437	52.271	134.370	200.817	220.012
107.0	13.585	51.681	131.417	195.796	215.582
107.5	13.732	51.238	128.759	191.366	211.005
108.0	13.880	50.795	126.101	186.789	205.689
108.5	14.028	50.352	123.591	182.359	200.817
109.0	14.028	49.909	120.933	177.929	196.387
109.5	14.175	49.466	118.275	174.238	191.662
110.0	14.323	49.171	116.208	170.989	187.380
110.5	14.471	48.875	114.288	167.889	182.802

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CANDELA TABULATION - (Cont.)

111.0	14.618	48.432	112.516	164.197	179.258
111.5	14.618	48.137	110.597	160.653	176.157
112.0	14.766	47.842	108.825	157.552	173.204
112.5	14.914	47.694	107.201	154.599	169.956
113.0	15.061	47.399	105.576	151.794	166.117
113.5	15.061	47.103	103.952	149.136	162.868
114.0	15.061	46.956	102.475	146.330	160.063
114.5	15.061	46.808	100.999	142.934	157.109
115.0	15.061	46.660	99.522	140.276	154.452
115.5	14.914	46.365	98.046	138.209	151.941
116.0	14.914	46.365	96.717	136.142	148.988
116.5	14.914	46.217	95.388	134.222	145.592
117.0	14.914	46.070	94.207	132.303	143.229
117.5	14.914	46.070	93.025	130.531	141.162
118.0	15.061	45.922	91.844	128.611	139.243
118.5	15.209	45.774	90.810	126.839	137.175
119.0	15.357	45.627	89.629	125.067	135.403
119.5	15.357	45.479	88.743	123.443	133.484
120.0	15.504	45.184	87.562	121.819	131.712
120.5	15.504	45.036	86.528	120.195	130.088
121.0	15.504	44.888	85.642	118.570	128.316
121.5	15.504	44.888	84.609	117.094	126.692
122.0	15.504	44.741	83.723	115.469	125.067
122.5	15.504	44.593	82.837	113.993	123.591
123.0	15.504	44.445	81.951	112.516	122.114
123.5	15.652	44.445	81.213	111.187	120.638
124.0	15.947	44.298	80.327	109.858	119.161
124.5	16.095	44.150	79.588	108.382	117.832
125.0	16.243	44.002	78.702	107.201	116.355
125.5	16.243	44.002	77.964	105.872	115.027
126.0	16.390	44.002	77.373	104.690	113.845
126.5	16.538	44.002	76.783	103.509	112.516
127.0	16.685	44.002	76.044	102.328	111.187
127.5	16.833	44.002	75.454	101.147	110.006
128.0	16.981	44.002	74.863	100.113	108.825
128.5	17.128	44.150	74.273	98.932	107.496
129.0	17.424	44.150	73.682	97.898	106.315
129.5	17.571	44.298	73.239	96.864	105.133
130.0	17.719	44.298	72.648	95.831	103.952
130.5	18.014	44.445	72.058	94.797	102.771
131.0	18.162	44.445	71.615	93.764	101.590
131.5	18.457	44.445	71.024	92.878	100.556
132.0	18.605	44.445	70.581	91.844	99.522
132.5	18.900	44.445	70.286	90.958	98.489
133.0	19.048	44.445	69.843	89.924	97.455
133.5	19.196	44.445	69.400	89.038	96.569
134.0	19.196	44.445	69.105	88.153	95.535
134.5	19.343	44.445	68.662	87.414	94.502
135.0	19.343	44.445	68.219	86.528	93.616
135.5	19.343	44.445	67.776	85.790	92.582
136.0	19.343	44.445	67.333	84.904	91.696
136.5	19.196	44.445	66.890	84.166	90.810
137.0	19.048	44.298	66.299	83.575	89.924
137.5	18.900	44.150	65.856	82.837	89.186
138.0	18.605	44.150	65.265	82.246	88.448
138.5	18.310	44.002	64.675	81.656	87.710

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CANDELA TABULATION - (Cont.)

139.0	17.867	44.002	64.379	81.065	86.971
139.5	17.571	44.002	63.936	80.622	86.381
140.0	17.128	43.855	63.493	80.179	85.790
140.5	16.833	43.855	63.050	79.736	85.199
141.0	16.538	43.855	62.607	79.293	84.609
141.5	16.243	43.855	62.165	78.850	84.166
142.0	16.095	43.855	61.574	78.407	83.575
142.5	15.947	43.855	61.131	77.964	82.984
143.0	15.800	43.855	60.688	77.521	82.541
143.5	15.800	44.002	60.393	76.930	82.246
144.0	15.652	44.002	60.097	76.340	81.803
144.5	15.800	44.150	59.802	75.897	81.360
145.0	15.947	44.150	59.654	75.306	80.917
145.5	16.095	44.298	59.359	74.716	80.622
146.0	16.243	44.445	59.211	74.125	80.179
146.5	16.390	44.593	59.064	73.682	79.736
147.0	16.685	44.593	58.916	73.239	79.441
147.5	16.833	44.741	58.916	72.796	79.293
148.0	16.981	44.741	58.768	72.205	78.998
148.5	17.128	44.741	58.768	71.762	78.555
149.0	17.276	44.741	58.768	71.172	78.407
149.5	17.424	44.741	58.768	70.581	78.259
150.0	17.571	44.741	58.768	69.990	77.964
150.5	17.719	44.741	58.768	69.547	77.669
151.0	17.867	44.741	58.768	69.252	77.226
151.5	18.014	44.593	58.621	68.809	76.930
152.0	18.162	44.445	58.473	68.366	76.635
152.5	18.162	44.445	58.325	68.071	76.192
153.0	18.310	44.150	58.030	67.628	75.897
153.5	18.457	44.002	57.439	67.185	75.602
154.0	18.457	43.707	56.996	66.890	75.306
154.5	18.605	43.412	56.406	66.447	74.863
155.0	18.605	42.969	55.963	66.151	74.420
155.5	18.753	42.674	55.520	65.708	73.977
156.0	18.753	42.231	55.077	65.413	73.387
156.5	18.900	41.788	54.782	64.822	72.796
157.0	18.900	41.345	54.486	64.379	72.205
157.5	19.048	40.902	54.191	63.641	71.467
158.0	19.048	40.459	54.043	62.755	70.581
158.5	19.196	40.016	53.748	61.722	69.695
159.0	19.196	39.573	53.600	60.540	68.514
159.5	19.343	39.130	53.453	59.211	67.185
160.0	19.491	38.687	53.305	57.882	65.561
160.5	19.491	38.244	53.157	56.701	63.789
161.0	19.491	37.801	52.862	55.668	61.722
161.5	19.639	37.358	52.714	54.782	59.654
162.0	19.639	36.915	52.271	53.896	57.735
162.5	19.786	36.472	51.828	53.305	56.110
163.0	19.786	36.029	51.385	52.567	54.634
163.5	19.786	35.586	50.942	51.976	53.157
164.0	19.786	34.995	50.499	51.385	51.976
164.5	19.934	34.552	49.909	50.942	50.795
165.0	19.934	34.109	49.171	50.499	49.761
165.5	19.934	33.519	48.137	50.056	48.580
166.0	19.934	33.076	47.103	49.318	47.694
166.5	20.082	32.485	46.070	48.432	46.660

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CANDELA TABULATION - (Cont.)

167.0	20.082	31.894	45.036	47.546	45.331
167.5	20.082	31.451	44.002	46.808	43.855
168.0	20.082	30.861	42.821	45.922	42.378
168.5	20.229	30.270	41.788	44.741	41.197
169.0	20.229	29.827	40.754	43.412	39.868
169.5	20.229	29.237	39.720	41.935	38.244
170.0	20.377	28.794	38.687	40.311	36.472
170.5	20.377	28.203	37.801	38.834	34.552
171.0	20.525	27.760	36.767	37.358	32.780
171.5	20.525	27.169	35.734	36.029	31.008
172.0	20.525	26.726	34.700	34.552	29.089
172.5	20.672	26.136	33.666	33.223	27.317
173.0	20.672	25.693	32.485	31.894	25.545
173.5	20.820	25.250	31.451	30.418	24.068
174.0	20.968	24.807	30.418	29.089	22.740
174.5	21.115	24.364	29.237	27.760	21.411
175.0	21.263	24.068	28.203	26.431	20.082
175.5	21.411	23.625	27.169	25.102	19.196
176.0	21.411	23.330	26.136	23.921	18.900
176.5	21.706	23.035	25.250	22.740	18.605
177.0	21.854	22.887	24.511	21.558	18.014
177.5	22.149	22.887	23.773	20.525	17.424
178.0	22.444	22.740	23.182	19.786	17.128
178.5	22.444	22.592	22.592	19.196	16.981
179.0	22.444	22.444	22.149	18.605	17.424
179.5	22.297	22.297	21.854	18.310	17.867
180.0	20.525	20.525	20.525	20.525	20.525

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1425.14	N.A.	12.00
0-30	3022.15	N.A.	25.30
0-40	4926.46	N.A.	41.30
0-60	8632.38	N.A.	72.40
0-80	10884.86	N.A.	91.30
0-90	11265.45	N.A.	94.50
10-90	10896.53	N.A.	91.40
20-40	3501.32	N.A.	29.40
20-50	5441.69	N.A.	45.60
40-70	5095.84	N.A.	42.70
60-80	2252.48	N.A.	18.90
70-80	862.56	N.A.	7.20
80-90	380.59	N.A.	3.20
90-110	371.60	N.A.	3.10
90-120	464.95	N.A.	3.90
90-130	531.89	N.A.	4.50
90-150	617.44	N.A.	5.20
90-180	656.58	N.A.	5.50
110-180	284.98	N.A.	2.40
0-180	11922.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	368.91
10-20	1056.23
20-30	1597.01
30-40	1904.31
40-50	1940.37
50-60	1765.55
60-70	1389.92
70-80	862.56
80-90	380.59
90-100	228.24
100-110	143.36
110-120	93.35
120-130	66.94
130-140	49.61
140-150	35.95
150-160	24.44
160-170	12.02
170-180	2.68

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-2-L120-840-FA-DIM-UNV_.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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	104	99	95	91	94	90	87	89	86	84	84	82	80	78
2	97	88	81	76	94	86	80	74	82	76	72	77	73	69	74	70	67	64
3	88	78	69	63	85	76	68	62	72	65	60	68	63	58	65	60	56	54
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	48	46
5	74	61	52	45	72	60	51	45	57	50	44	54	48	43	52	46	42	40
6	69	55	46	40	66	54	45	39	51	44	38	49	43	38	47	41	37	35
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	29	27
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	26	25
10	52	39	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-2-L120-840-FA-DIM-UNV_.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	19.7	21.2	20.1	21.7	22.1	22.6	24.1	23.0	24.5	25.0
	3H	21.1	22.5	21.5	22.9	23.4	24.5	25.9	24.9	26.3	26.8
	4H	21.5	22.8	22.0	23.3	23.7	25.1	26.5	25.6	26.9	27.4
	6H	21.7	23.0	22.2	23.4	23.9	25.6	26.9	26.1	27.3	27.8
	8H	21.8	23.0	22.3	23.5	24.0	25.9	27.0	26.4	27.5	28.0
	12H	21.8	22.9	22.3	23.4	24.0	26.0	27.2	26.5	27.6	28.2

UGR Viewed Endwise

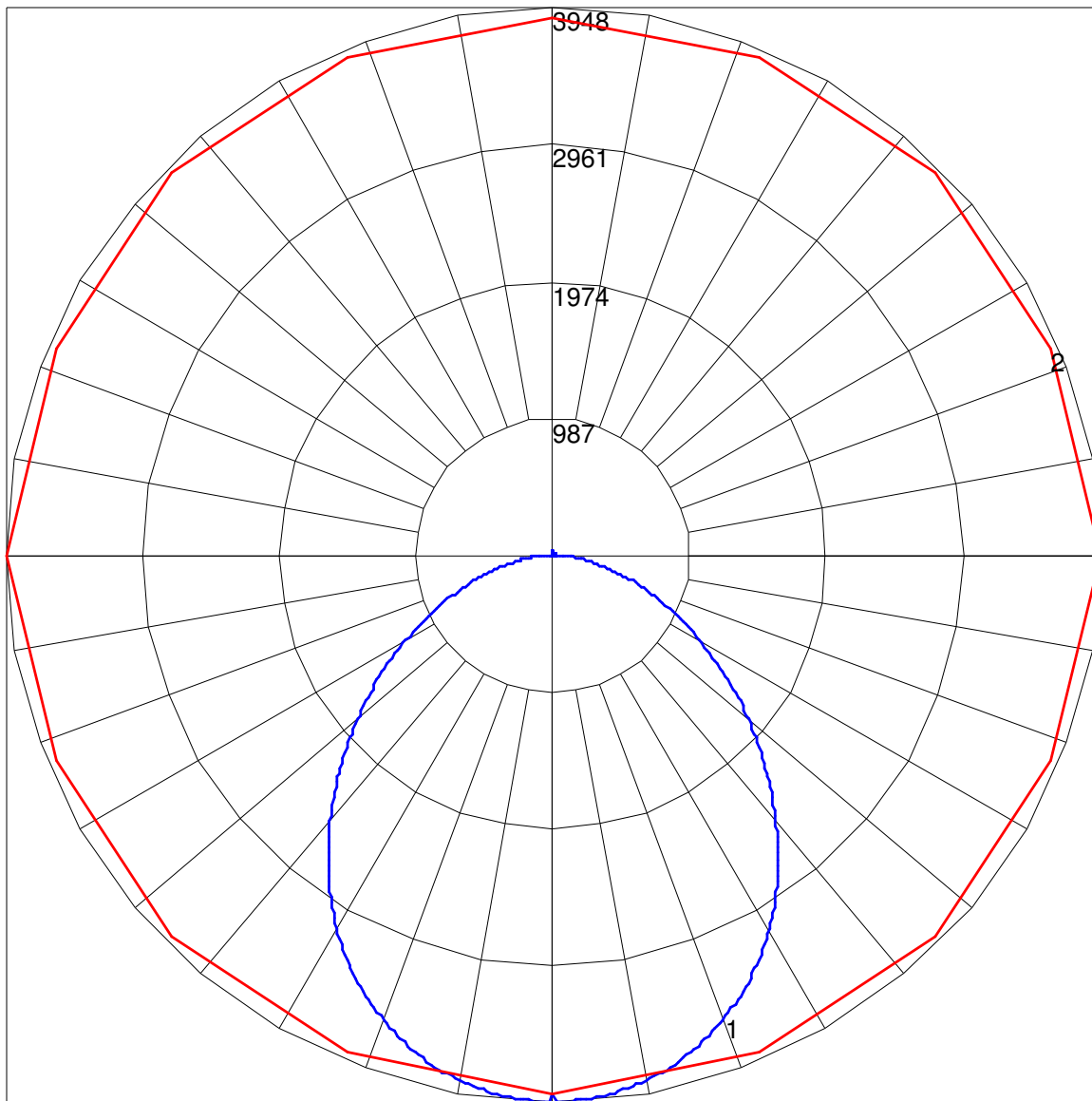
4H	2H	20.7	22.0	21.2	22.5	23.0	22.9	24.3	23.4	24.7	25.2
	3H	22.3	23.4	22.8	23.9	24.4	25.1	26.2	25.6	26.7	27.2
	4H	22.8	23.9	23.3	24.4	24.9	25.9	26.9	26.4	27.4	28.0
	6H	23.2	24.1	23.7	24.6	25.2	26.5	27.4	27.1	28.0	28.5
	8H	23.3	24.1	23.8	24.7	25.2	26.8	27.6	27.3	28.2	28.7
	12H	23.3	24.1	23.9	24.6	25.2	27.0	27.8	27.6	28.4	28.9

8H	4H	23.4	24.2	23.9	24.8	25.3	26.1	26.9	26.6	27.4	28.0
	6H	23.9	24.6	24.4	25.2	25.8	26.8	27.5	27.4	28.1	28.7
	8H	24.0	24.7	24.6	25.3	25.9	27.2	27.8	27.7	28.4	29.0
	12H	24.1	24.7	24.7	25.3	25.9	27.5	28.1	28.1	28.7	29.3

12H	4H	23.5	24.2	24.0	24.8	25.4	26.1	26.8	26.6	27.4	28.0
	6H	24.0	24.7	24.6	25.2	25.9	26.9	27.5	27.4	28.0	28.7
	8H	24.2	24.8	24.8	25.4	26.1	27.2	27.8	27.8	28.4	29.0

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 3948.407 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)