



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13309242.03A
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 06-MAY-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] GH-2-L120-840-HA-FA-DIM-UNV
 [LUMINAIRE] Formed white steel housing, lens enclosures
 [LAMP] 336 White LEDs
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, High Bay
 [_SEARCH_MOUNTING] Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	79.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.83 ft
Luminous Width (90-270)	1.42 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12005	13271	15133
55	10074	12134	14632
65	7985	10740	13068
75	5760	8497	9432
85	2877	4943	6786

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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	4103.569	4103.569	4103.569	4103.569	4103.569
0.5	4109.309	4103.569	4105.135	4103.047	4096.785
1.0	4107.222	4102.525	4105.135	4103.569	4094.698
1.5	4105.656	4102.004	4105.656	4103.047	4094.698
2.0	4103.047	4099.916	4104.091	4101.482	4093.655
2.5	4099.916	4098.873	4102.525	4099.916	4092.611
3.0	4100.438	4094.176	4100.960	4098.351	4090.524
3.5	4095.220	4092.089	4098.351	4096.785	4091.046
4.0	4092.611	4090.002	4096.264	4095.220	4086.871
4.5	4090.524	4085.827	4094.698	4092.611	4085.306
5.0	4085.827	4082.696	4090.002	4088.436	4084.784
5.5	4081.131	4076.435	4086.871	4085.827	4079.566
6.0	4073.304	4073.304	4082.175	4083.740	4077.478
6.5	4067.564	4069.129	4078.000	4080.609	4073.304
7.0	4061.824	4062.346	4072.782	4075.391	4069.129
7.5	4053.996	4056.606	4067.042	4071.216	4065.998
8.0	4048.257	4049.300	4061.824	4065.476	4061.302
8.5	4040.951	4041.473	4055.562	4060.780	4057.649
9.0	4031.558	4033.124	4049.300	4056.084	4051.909
9.5	4020.600	4025.297	4040.951	4049.300	4046.691
10.0	4012.251	4014.338	4035.211	4043.560	4039.907
10.5	4003.380	4006.511	4026.862	4035.733	4036.255
11.0	3991.378	3998.162	4019.557	4029.993	4031.558
11.5	3983.029	3987.726	4011.207	4024.253	4025.297
12.0	3969.984	3976.768	4002.337	4017.469	4018.513
12.5	3959.548	3965.809	3993.466	4010.686	4011.729
13.0	3945.980	3954.329	3984.595	4003.380	4005.468
13.5	3933.457	3942.849	3974.158	3996.075	3998.162
14.0	3920.411	3930.848	3964.244	3986.160	3991.900
14.5	3907.888	3918.324	3954.329	3977.811	3982.508
15.0	3893.799	3905.279	3943.371	3969.462	3974.680
15.5	3879.710	3891.711	3932.413	3960.591	3966.331
16.0	3865.099	3878.144	3920.933	3951.199	3958.504
16.5	3849.444	3864.055	3908.931	3941.284	3949.633
17.0	3833.268	3849.444	3896.930	3931.369	3940.762
17.5	3816.570	3834.312	3884.406	3920.933	3931.369
18.0	3799.350	3818.657	3871.882	3910.497	3921.455
18.5	3782.652	3802.481	3858.837	3899.539	3912.062
19.0	3764.388	3785.783	3845.270	3888.059	3901.626
19.5	3745.603	3769.084	3831.702	3876.579	3891.190
20.0	3726.817	3751.864	3817.613	3864.577	3880.753
20.5	3707.510	3734.644	3803.524	3853.097	3869.795
21.0	3687.681	3716.381	3789.435	3841.095	3859.359
21.5	3667.852	3698.117	3774.303	3829.093	3848.401
22.0	3648.023	3679.332	3758.648	3816.570	3836.921
22.5	3627.672	3660.546	3743.515	3803.524	3825.962
23.0	3606.799	3641.239	3727.339	3791.001	3814.482
23.5	3585.405	3621.410	3710.641	3777.955	3802.481
24.0	3563.488	3601.059	3693.943	3764.910	3791.001
24.5	3541.050	3580.708	3676.723	3751.343	3778.999
25.0	3518.612	3559.836	3658.981	3737.254	3766.475
25.5	3495.130	3538.441	3641.239	3723.164	3753.952
26.0	3471.649	3516.525	3622.976	3708.554	3740.906
26.5	3447.645	3494.087	3604.190	3693.943	3727.861

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CANDELA TABULATION - (Cont.)

27.0	3422.598	3471.649	3585.405	3678.810	3714.294
27.5	3397.551	3448.167	3566.098	3663.677	3700.205
28.0	3371.460	3424.685	3546.790	3647.501	3685.594
28.5	3345.369	3400.682	3526.439	3631.847	3670.461
29.0	3318.234	3376.156	3506.089	3614.627	3655.328
29.5	3290.578	3351.109	3485.738	3597.928	3639.152
30.0	3262.922	3325.540	3464.343	3580.187	3622.976
30.5	3234.744	3299.971	3442.949	3562.445	3606.277
31.0	3206.566	3273.358	3421.032	3544.181	3588.536
31.5	3177.344	3246.224	3399.116	3525.396	3570.794
32.0	3148.122	3219.089	3376.156	3506.089	3552.530
32.5	3118.900	3191.433	3353.196	3486.260	3533.745
33.0	3088.635	3163.777	3330.236	3465.909	3514.438
33.5	3057.848	3135.077	3306.233	3445.558	3495.130
34.0	3027.582	3105.855	3282.229	3424.685	3474.780
34.5	2996.273	3076.633	3257.182	3402.769	3453.907
35.0	2964.964	3046.890	3232.135	3380.331	3433.034
35.5	2932.612	3016.102	3206.044	3357.893	3411.118
36.0	2900.259	2985.837	3180.475	3334.933	3389.723
36.5	2867.385	2955.050	3153.862	3311.973	3367.807
37.0	2833.466	2923.741	3127.249	3289.013	3345.891
37.5	2800.070	2892.432	3100.637	3265.009	3322.409
38.0	2765.630	2860.601	3072.980	3240.484	3299.971
38.5	2731.190	2829.292	3045.324	3216.480	3276.489
39.0	2696.750	2797.461	3017.146	3191.955	3252.486
39.5	2661.789	2765.630	2988.968	3167.951	3229.004
40.0	2627.349	2733.278	2961.312	3143.426	3205.000
40.5	2591.865	2700.925	2933.655	3118.900	3180.997
41.0	2556.903	2669.094	2905.477	3093.853	3156.993
41.5	2522.464	2638.307	2877.299	3068.806	3132.989
42.0	2488.024	2605.432	2849.643	3044.281	3108.464
42.5	2453.062	2573.080	2821.465	3019.233	3084.460
43.0	2418.622	2540.727	2793.808	2994.708	3060.457
43.5	2384.704	2508.896	2766.152	2970.183	3036.453
44.0	2350.264	2477.065	2739.018	2945.657	3011.928
44.5	2316.346	2445.756	2711.361	2920.610	2987.924
45.0	2282.949	2414.447	2683.705	2896.085	2963.921
45.5	2249.553	2382.617	2655.527	2870.515	2939.917
46.0	2216.157	2350.786	2627.871	2845.990	2915.914
46.5	2182.761	2319.477	2600.214	2820.943	2891.388
47.0	2149.364	2288.168	2572.558	2795.896	2866.863
47.5	2116.490	2256.859	2544.902	2770.848	2842.337
48.0	2083.094	2225.550	2517.245	2745.279	2817.812
48.5	2050.219	2194.241	2489.589	2719.189	2793.287
49.0	2016.823	2163.453	2461.411	2693.620	2768.239
49.5	1983.427	2132.144	2433.755	2668.050	2744.236
50.0	1950.552	2101.357	2406.098	2641.960	2718.667
50.5	1917.156	2070.570	2377.920	2615.347	2693.098
51.0	1884.281	2039.783	2350.264	2588.734	2667.529
51.5	1850.885	2008.996	2322.608	2562.122	2641.438
52.0	1817.489	1978.208	2294.429	2535.509	2615.347
52.5	1784.614	1946.899	2265.730	2508.374	2589.256
53.0	1751.740	1916.112	2237.030	2481.240	2563.165
53.5	1719.387	1885.325	2208.851	2453.584	2536.553
54.0	1686.513	1854.538	2180.152	2425.927	2508.896
54.5	1654.160	1823.751	2151.973	2398.271	2480.718

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55.0	1621.807	1792.963	2122.752	2370.093	2452.018
55.5	1588.933	1762.176	2093.530	2341.393	2422.275
56.0	1557.102	1731.911	2064.308	2313.215	2393.575
56.5	1525.271	1701.124	2034.565	2283.993	2364.353
57.0	1493.440	1670.858	2005.343	2254.250	2334.088
57.5	1462.653	1640.071	1976.121	2223.984	2302.779
58.0	1430.822	1609.806	1946.378	2193.197	2270.426
58.5	1399.513	1579.540	1916.112	2162.410	2235.986
59.0	1368.726	1549.797	1886.369	2131.101	2202.068
59.5	1337.417	1519.531	1856.625	2099.792	2168.672
60.0	1307.152	1489.788	1826.881	2067.439	2135.275
60.5	1276.364	1460.566	1796.616	2034.565	2099.270
61.0	1246.621	1431.344	1766.872	2000.646	2063.786
61.5	1216.355	1402.644	1737.129	1966.728	2027.259
62.0	1186.612	1373.944	1707.385	1932.810	1989.167
62.5	1157.390	1345.766	1678.164	1898.370	1951.074
63.0	1127.647	1317.588	1648.420	1863.409	1913.503
63.5	1098.425	1289.932	1618.155	1827.403	1874.367
64.0	1069.725	1262.275	1588.411	1790.876	1834.709
64.5	1041.547	1235.141	1559.189	1753.827	1794.529
65.0	1013.369	1208.006	1528.924	1716.778	1753.827
65.5	985.191	1180.872	1499.180	1679.207	1712.082
66.0	958.056	1154.259	1468.393	1641.636	1670.858
66.5	930.400	1128.168	1437.606	1604.066	1630.156
67.0	903.787	1102.078	1406.297	1565.451	1588.411
67.5	877.174	1075.987	1375.510	1525.793	1546.144
68.0	850.562	1049.896	1344.201	1487.179	1502.833
68.5	824.471	1023.805	1312.370	1448.564	1460.044
69.0	798.902	997.714	1281.061	1409.950	1416.733
69.5	773.855	971.623	1249.230	1370.292	1373.422
70.0	748.807	945.532	1217.399	1330.633	1330.112
70.5	723.760	919.442	1185.046	1289.932	1286.279
71.0	699.235	893.873	1152.172	1248.708	1241.925
71.5	675.231	868.304	1120.341	1208.528	1198.092
72.0	650.706	842.735	1087.989	1167.827	1154.781
72.5	627.224	817.687	1056.679	1127.647	1113.036
73.0	603.742	792.640	1024.849	1087.467	1071.812
73.5	580.782	767.071	992.496	1047.287	1030.067
74.0	557.822	742.546	960.665	1007.629	990.409
74.5	534.862	717.498	928.312	967.449	951.272
75.0	512.581	692.451	895.960	929.356	912.658
75.5	490.560	668.448	864.129	891.785	875.087
76.0	468.696	643.400	832.298	855.258	839.604
76.5	447.249	618.875	800.467	819.775	805.685
77.0	426.272	594.350	768.636	785.335	771.767
77.5	405.713	570.346	736.806	750.895	739.415
78.0	385.258	546.864	705.497	718.542	708.628
78.5	365.481	523.382	674.188	686.711	678.362
79.0	345.808	500.005	643.400	656.968	649.662
79.5	326.814	476.941	613.135	627.746	622.006
80.0	307.924	454.190	583.391	599.568	595.915
80.5	289.608	431.699	554.170	572.433	570.346
81.0	271.449	409.157	525.470	545.821	546.864
81.5	254.125	386.927	497.605	520.617	523.382
82.0	236.540	364.750	470.522	496.248	500.997
82.5	219.737	342.677	443.910	472.975	479.393

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CANDELA TABULATION - (Cont.)

83.0	202.882	320.604	418.132	450.850	458.208
83.5	186.445	298.427	393.137	428.934	438.170
84.0	170.582	277.137	368.977	408.061	419.019
84.5	154.614	255.638	345.391	387.814	400.547
85.0	139.116	234.348	322.953	368.403	382.544
85.5	123.566	213.371	301.193	349.774	365.115
86.0	107.964	192.603	280.216	331.667	348.209
86.5	92.309	172.513	260.387	314.290	331.354
87.0	76.864	152.945	241.079	297.436	315.282
87.5	61.366	133.585	222.607	281.207	299.627
88.0	46.129	115.061	205.283	265.657	284.129
88.5	30.787	98.102	189.628	251.151	270.040
89.0	18.681	83.856	176.635	239.410	258.560
89.5	10.489	73.524	165.729	229.443	248.907
90.0	4.853	67.053	157.223	220.102	238.940
90.5	8.088	71.541	159.989	222.451	238.679
91.0	8.506	69.663	157.171	217.024	230.591
91.5	9.236	67.575	153.101	211.336	224.434
92.0	9.706	66.427	149.970	206.744	220.781
92.5	10.071	65.331	147.674	203.352	217.754
93.0	10.593	64.131	145.483	200.482	214.884
93.5	11.167	62.775	143.291	197.716	212.014
94.0	11.741	61.418	140.995	194.951	208.988
94.5	12.367	60.009	138.595	192.133	205.857
95.0	13.098	58.652	136.142	189.315	202.830
95.5	13.985	57.296	133.794	186.445	199.908
96.0	14.924	55.991	131.550	183.627	197.142
96.5	15.863	54.791	129.306	180.914	194.481
97.0	16.698	53.695	127.062	178.201	191.820
97.5	17.481	52.704	124.871	175.487	189.159
98.0	18.055	51.816	122.731	172.982	186.550
98.5	18.420	50.929	120.696	170.478	183.836
99.0	18.629	50.303	118.713	168.025	181.123
99.5	18.838	49.729	116.678	165.573	178.514
100.0	18.994	48.999	114.643	163.068	175.800
100.5	19.099	48.372	112.660	160.615	173.243
101.0	19.203	47.851	110.782	158.058	170.634
101.5	19.359	47.381	108.851	155.501	168.129
102.0	19.464	46.964	106.972	152.997	165.573
102.5	19.568	46.650	105.146	150.492	163.068
103.0	19.673	46.442	103.372	148.039	160.615
103.5	19.725	46.285	101.859	145.796	158.058
104.0	19.881	46.181	100.398	143.604	155.554
104.5	19.933	46.076	99.041	141.360	153.101
105.0	20.038	46.024	97.736	139.169	150.701
105.5	20.194	46.024	96.484	136.977	148.353
106.0	20.247	46.024	95.388	134.838	146.109
106.5	20.403	46.129	94.292	132.698	143.917
107.0	20.507	46.233	93.197	130.663	141.726
107.5	20.612	46.337	91.996	128.732	139.534
108.0	20.716	46.390	90.901	126.958	137.342
108.5	20.820	46.494	89.909	125.340	135.203
109.0	20.873	46.650	88.918	123.827	133.168
109.5	20.977	46.807	87.822	122.262	131.289
110.0	21.081	47.016	86.830	120.644	129.619
110.5	21.134	47.329	85.891	119.026	128.054

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CANDELA TABULATION - (Cont.)

111.0	21.238	47.590	85.056	117.461	126.488
111.5	21.342	47.903	84.221	116.000	124.923
112.0	21.447	48.268	83.439	114.695	123.253
112.5	21.551	48.686	82.708	113.391	121.636
113.0	21.655	49.207	81.977	112.086	120.174
113.5	21.760	49.677	81.351	110.834	118.870
114.0	21.812	50.199	80.725	109.529	117.513
114.5	21.916	50.773	80.047	108.277	116.209
115.0	22.021	51.295	79.525	106.972	114.748
115.5	22.073	51.869	79.003	105.720	113.339
116.0	22.177	52.443	78.481	104.468	111.982
116.5	22.282	52.964	78.012	103.268	110.625
117.0	22.438	53.538	77.542	102.172	109.373
117.5	22.490	54.008	77.072	101.180	108.173
118.0	22.595	54.582	76.707	100.241	106.972
118.5	22.699	55.156	76.290	99.302	105.824
119.0	22.856	55.678	75.924	98.415	104.676
119.5	22.908	56.200	75.559	97.580	103.633
120.0	23.012	56.774	75.298	96.745	102.641
120.5	23.064	57.296	74.985	95.858	101.702
121.0	23.169	57.870	74.724	95.023	100.815
121.5	23.221	58.444	74.411	94.240	99.980
122.0	23.325	59.018	74.150	93.510	99.145
122.5	23.430	59.644	73.941	92.779	98.363
123.0	23.482	60.218	73.733	92.153	97.580
123.5	23.586	60.635	73.628	91.527	96.797
124.0	23.638	60.896	73.472	90.953	95.962
124.5	23.795	61.053	73.420	90.327	95.284
125.0	23.951	61.157	73.367	89.700	94.658
125.5	24.056	61.209	73.420	89.179	94.084
126.0	24.212	61.314	73.576	88.605	93.457
126.5	24.369	61.261	73.733	88.135	92.831
127.0	24.473	61.157	73.994	87.717	92.257
127.5	24.630	61.000	74.359	87.300	91.735
128.0	24.786	60.792	74.672	86.830	91.161
128.5	24.943	60.635	74.985	86.413	90.640
129.0	25.099	60.426	75.246	85.995	90.118
129.5	25.204	60.218	75.559	85.526	89.596
130.0	25.360	60.009	75.872	85.108	89.126
130.5	25.517	59.696	76.185	84.743	88.657
131.0	25.673	59.331	76.498	84.378	88.239
131.5	25.830	58.965	76.811	84.013	87.770
132.0	25.934	58.548	77.072	83.752	87.300
132.5	25.934	58.235	77.385	83.543	86.883
133.0	25.986	57.817	77.699	83.439	86.465
133.5	26.039	57.504	78.012	83.386	86.048
134.0	26.091	57.191	78.377	83.439	85.735
134.5	26.143	56.930	78.742	83.491	85.421
135.0	26.247	56.617	79.055	83.699	85.265
135.5	26.456	56.304	79.316	83.856	85.213
136.0	26.613	55.991	79.629	84.117	85.161
136.5	26.717	55.574	79.995	84.378	85.213
137.0	26.874	55.052	80.412	84.639	85.317
137.5	27.082	54.582	80.829	84.900	85.474
138.0	27.239	54.008	81.351	85.161	85.682
138.5	27.343	53.278	81.769	85.421	85.943

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	27.239	52.599	82.186	85.787	86.204
139.5	27.187	51.869	82.656	86.152	86.517
140.0	26.874	51.138	83.073	86.517	86.830
140.5	26.613	50.147	83.439	86.883	87.143
141.0	26.404	49.312	83.699	87.248	87.509
141.5	26.091	48.477	83.804	87.613	87.874
142.0	25.778	47.955	83.543	87.926	88.291
142.5	25.412	47.485	83.178	88.344	88.657
143.0	24.525	46.911	82.760	88.657	89.074
143.5	24.317	46.703	82.291	88.970	89.439
144.0	24.160	46.442	81.664	89.283	89.857
144.5	23.638	46.233	80.829	89.596	90.222
145.0	23.586	46.076	79.942	89.961	90.640
145.5	23.743	45.920	79.107	90.274	91.005
146.0	23.899	45.763	78.273	90.535	91.266
146.5	24.056	45.607	77.385	90.848	91.579
147.0	24.264	45.450	76.446	91.161	91.892
147.5	24.473	45.294	75.455	91.422	92.257
148.0	24.734	45.033	74.568	91.527	92.623
148.5	24.943	44.772	73.628	91.422	92.988
149.0	25.256	44.459	72.689	91.109	93.353
149.5	25.517	44.146	71.698	90.535	93.771
150.0	25.830	43.728	70.706	89.857	94.136
150.5	26.143	43.363	69.715	89.022	94.031
151.0	26.508	42.946	68.775	87.978	93.771
151.5	26.821	42.528	67.784	86.883	93.353
152.0	27.082	42.111	66.740	85.682	92.570
152.5	27.239	41.589	65.697	84.430	91.631
153.0	27.395	41.119	64.757	83.125	90.640
153.5	27.448	40.597	63.818	81.873	89.596
154.0	27.448	40.128	62.879	80.569	88.344
154.5	27.448	39.606	61.992	79.212	86.935
155.0	27.500	39.084	61.053	77.803	85.578
155.5	27.448	38.562	60.113	76.446	84.273
156.0	27.395	38.093	59.226	75.142	82.969
156.5	27.395	37.623	58.287	73.785	81.560
157.0	27.343	37.101	57.400	72.480	80.203
157.5	27.187	36.579	56.513	71.228	78.847
158.0	27.030	36.058	55.730	70.080	77.385
158.5	26.769	35.484	55.104	68.984	75.872
159.0	26.508	34.962	54.530	67.888	74.463
159.5	26.195	34.388	53.852	66.845	73.420
160.0	25.830	33.814	53.121	65.749	72.428
160.5	25.517	33.292	52.338	64.653	71.489
161.0	25.152	32.770	51.451	63.505	70.811
161.5	24.838	32.300	50.408	62.357	70.028
162.0	24.630	31.831	49.364	61.209	69.089
162.5	24.578	31.413	48.320	60.061	68.149
163.0	24.734	31.048	47.277	59.018	67.106
163.5	24.838	30.683	46.337	58.130	65.749
164.0	25.047	30.370	45.294	57.191	64.288
164.5	25.152	30.004	44.250	56.043	62.827
165.0	25.256	29.691	43.206	54.634	61.731
165.5	25.308	29.430	42.163	53.069	60.426
166.0	25.308	29.170	41.171	51.399	58.600
166.5	25.360	28.909	40.180	49.938	56.304

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	25.360	28.752	39.241	48.529	53.956
167.5	25.308	28.543	38.249	47.224	51.712
168.0	25.308	28.387	37.258	45.868	49.573
168.5	25.308	28.282	36.266	44.459	47.485
169.0	25.256	28.126	35.275	42.946	45.398
169.5	25.308	28.022	34.388	41.380	43.415
170.0	25.360	27.865	33.605	39.867	41.537
170.5	25.465	27.708	32.874	38.354	39.658
171.0	25.517	27.604	32.248	36.788	37.936
171.5	25.569	27.552	31.779	35.327	36.475
172.0	25.673	27.500	31.361	33.970	35.014
172.5	25.726	27.448	30.996	32.666	33.553
173.0	25.830	27.395	30.683	31.622	32.248
173.5	25.934	27.395	30.318	30.735	31.100
174.0	26.039	27.448	30.004	30.004	30.265
174.5	26.195	27.552	29.691	29.378	29.535
175.0	26.404	27.604	29.378	28.804	28.700
175.5	26.613	27.813	29.170	28.335	28.074
176.0	26.874	28.022	29.013	27.917	27.395
176.5	27.187	28.282	28.961	27.552	26.665
177.0	27.500	28.543	28.909	27.395	26.247
177.5	27.917	28.752	28.909	27.239	25.986
178.0	28.230	29.013	28.856	27.134	25.934
178.5	28.491	29.222	28.856	27.082	26.091
179.0	28.648	29.326	28.909	27.134	26.300
179.5	28.752	29.378	29.013	27.239	26.508
180.0	28.387	28.387	28.387	28.387	28.387

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1499.52	N.A.	12.20
0-30	3180.89	N.A.	26.00
0-40	5189.45	N.A.	42.40
0-60	9097.85	N.A.	74.30
0-80	11399.66	N.A.	93.10
0-90	11733.88	N.A.	95.80
10-90	11345.58	N.A.	92.60
20-40	3689.94	N.A.	30.10
20-50	5739.26	N.A.	46.90
40-70	5351.08	N.A.	43.70
60-80	2301.81	N.A.	18.80
70-80	859.13	N.A.	7.00
80-90	334.22	N.A.	2.70
90-110	233.39	N.A.	1.90
90-120	309.77	N.A.	2.50
90-130	373.52	N.A.	3.10
90-150	469.88	N.A.	3.80
90-180	512.36	N.A.	4.20
110-180	278.97	N.A.	2.30
0-180	12246.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	388.30
10-20	1111.21
20-30	1681.37
30-40	2008.57
40-50	2049.32
50-60	1859.08
60-70	1442.68
70-80	859.13
80-90	334.22
90-100	135.12
100-110	98.27
110-120	76.38
120-130	63.75
130-140	53.48
140-150	42.88
150-160	27.33
160-170	12.27
170-180	2.87

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-2-L120-840-HA-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	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	100	96	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	83	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	54	79	68	59	53	65	57	52	62	56	51	59	54	49	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	47	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	42	35	62	49	41	35	47	40	35	46	39	34	44	38	34	31
8	59	46	37	32	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

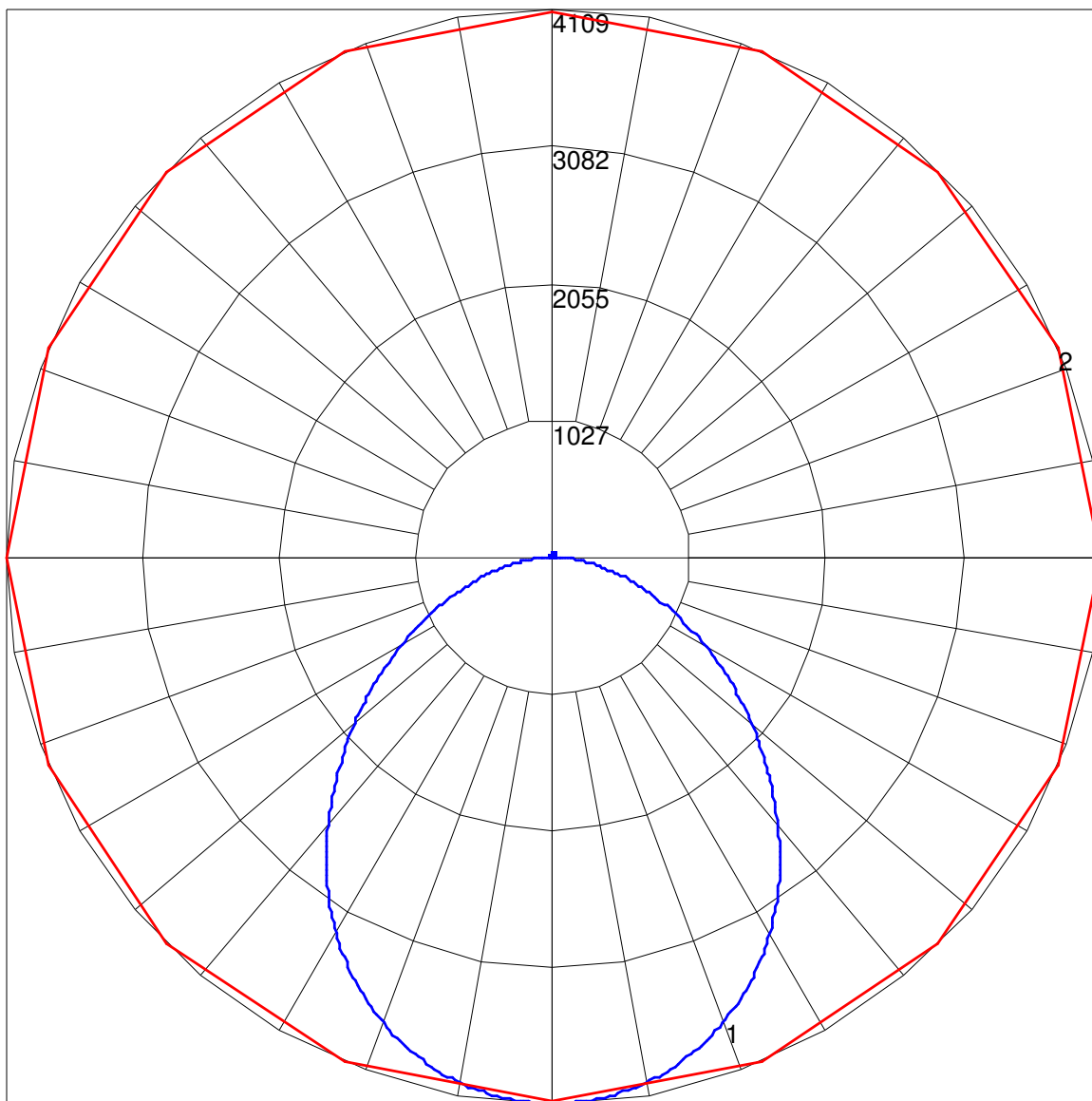
IES INDOOR REPORT
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UGR TABLE - CORRECTED

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	19.1	20.7	19.5	21.1	21.5	21.5	23.1	21.9	23.5	23.9
	3H	20.5	22.0	21.0	22.4	22.8	23.3	24.7	23.7	25.1	25.6
	4H	21.0	22.4	21.5	22.8	23.3	23.9	25.2	24.4	25.7	26.1
	6H	21.3	22.6	21.8	23.0	23.5	24.3	25.6	24.8	26.0	26.5
	8H	21.4	22.6	21.9	23.1	23.6	24.5	25.7	25.0	26.1	26.6
	12H	21.5	22.6	22.0	23.1	23.6	24.6	25.8	25.1	26.2	26.8
4H	2H	20.1	21.4	20.5	21.8	22.3	21.9	23.3	22.4	23.7	24.2
	3H	21.7	22.9	22.2	23.3	23.8	24.0	25.1	24.4	25.6	26.1
	4H	22.4	23.4	22.8	23.9	24.4	24.7	25.7	25.2	26.2	26.7
	6H	22.8	23.7	23.3	24.2	24.7	25.3	26.2	25.8	26.7	27.2
	8H	22.9	23.7	23.4	24.2	24.8	25.5	26.3	26.0	26.8	27.4
	12H	23.0	23.7	23.5	24.3	24.8	25.7	26.4	26.2	27.0	27.5
8H	4H	22.8	23.7	23.4	24.2	24.8	24.9	25.7	25.4	26.3	26.8
	6H	23.4	24.1	24.0	24.7	25.2	25.6	26.3	26.1	26.8	27.4
	8H	23.6	24.2	24.2	24.8	25.4	25.9	26.5	26.4	27.1	27.7
	12H	23.7	24.3	24.3	24.8	25.5	26.2	26.7	26.7	27.3	27.9
12H	4H	22.9	23.7	23.4	24.2	24.8	24.9	25.7	25.5	26.2	26.8
	6H	23.5	24.2	24.1	24.7	25.3	25.6	26.3	26.2	26.8	27.4
	8H	23.8	24.3	24.3	24.9	25.5	26.0	26.5	26.5	27.1	27.7

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 4109.309 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.)