



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GH-4-L720-840-FA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13326828.05
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 07-MAY-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] GH-4-L720-840-FA-DIM-UNV
 [LUMINAIRE] Formed white steel housing, frosted lens enclosure
 [LAMP] 1008 White LEDs
 [BALLAST] Six Everline D21CC80UNVPW-C Drivers
 [_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	72181
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	539.7
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)	3.73 ft
Luminous Width (90-270)	1.96 ft
Luminous Height	0.27 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27156	29502	32447
55	23148	27163	31009
65	18757	24180	27126
75	13951	19122	18703
85	7804	10756	12040

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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	24383.776	24383.776	24383.776	24383.776	24383.776
0.5	24383.776	24383.776	24394.642	24372.910	24383.776
1.0	24383.776	24383.776	24383.776	24362.044	24383.776
1.5	24383.776	24383.776	24383.776	24362.044	24383.776
2.0	24362.044	24372.910	24372.910	24351.178	24383.776
2.5	24362.044	24351.178	24372.910	24351.178	24383.776
3.0	24340.311	24340.311	24351.178	24340.311	24362.044
3.5	24318.579	24318.579	24340.311	24318.579	24351.178
4.0	24296.847	24296.847	24318.579	24329.445	24362.044
4.5	24275.114	24285.980	24296.847	24296.847	24340.311
5.0	24242.516	24264.248	24285.980	24285.980	24307.713
5.5	24231.649	24231.649	24253.382	24264.248	24296.847
6.0	24177.318	24209.917	24231.649	24242.516	24296.847
6.5	24166.452	24177.318	24199.051	24220.783	24264.248
7.0	24122.987	24133.853	24177.318	24188.184	24231.649
7.5	24090.389	24101.255	24144.720	24166.452	24199.051
8.0	24057.790	24068.656	24122.987	24144.720	24177.318
8.5	24003.459	24025.191	24068.656	24112.121	24155.586
9.0	23959.994	23981.726	24046.924	24079.522	24112.121
9.5	23905.663	23927.395	24003.459	24036.058	24079.522
10.0	23862.198	23883.931	23959.994	24014.325	24046.924
10.5	23786.135	23840.466	23916.529	23981.726	24025.191
11.0	23742.670	23775.268	23873.064	23938.262	23992.593
11.5	23677.473	23720.937	23829.600	23916.529	23949.128
12.0	23612.275	23655.740	23775.268	23873.064	23916.529
12.5	23547.078	23601.409	23720.937	23829.600	23883.931
13.0	23471.015	23536.212	23666.606	23786.135	23840.466
13.5	23405.817	23471.015	23562.314	23731.804	23797.001
14.0	23329.754	23405.817	23557.944	23677.473	23742.670
14.5	23253.690	23318.888	23503.613	23634.008	23699.205
15.0	23166.761	23253.690	23438.416	23579.677	23644.874
15.5	23101.563	23166.761	23362.352	23536.212	23601.409
16.0	23003.768	23101.563	23308.021	23471.015	23536.212
16.5	22927.704	23014.634	23231.958	23416.684	23503.613
17.0	22829.908	22927.704	23166.761	23351.486	23438.416
17.5	22742.978	22840.774	23090.697	23297.155	23384.085
18.0	22634.316	22753.845	23025.500	23221.092	23318.888
18.5	22536.520	22666.915	22949.436	23166.761	23264.557
19.0	22438.725	22569.119	22862.507	23101.563	23210.226
19.5	22330.062	22460.457	22786.443	23036.366	23123.296
20.0	22221.400	22373.527	22699.514	22960.303	23079.831
20.5	22101.872	22264.865	22623.450	22895.105	22992.901
21.0	21993.210	22156.203	22525.654	22819.042	22938.570
21.5	21884.548	22047.541	22438.725	22753.845	22873.373
22.0	21754.153	21938.879	22351.795	22666.915	22819.042
22.5	21645.491	21819.351	22253.999	22590.852	22732.112
23.0	21515.097	21721.555	22156.203	22514.788	22656.049
23.5	21384.702	21602.026	22058.407	22438.725	22579.985
24.0	21265.174	21471.632	21949.745	22351.795	22503.922
24.5	21134.779	21362.970	21851.949	22264.865	22427.858
25.0	21015.251	21232.575	21765.020	22177.936	22351.795
25.5	20873.990	21113.047	21645.491	22101.872	22275.731
26.0	20743.596	20982.652	21536.829	22004.076	22188.802
26.5	20602.335	20852.258	21428.167	21917.146	22101.872

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27.0	20439.34220721.86321319.50521830.21722004.076
27.5	20308.94720591.46921199.97721732.42121928.013
28.0	20156.82020450.20821091.31521645.49121830.217
28.5	20004.69320319.81420960.92021536.82921743.287
29.0	19830.83420167.68720852.25821439.03321645.491
29.5	19667.84120026.42620721.86321330.37121536.829
30.0	19504.84819874.29920613.20121232.57521439.033
30.5	19341.85519722.17220482.80721123.91321341.237
31.0	19178.86119570.04520363.27821026.11721243.441
31.5	19005.00219417.91820232.88420917.45521156.512
32.0	18842.00919265.79120102.48920808.79321047.850
32.5	18679.01619102.79819982.96120700.13120939.188
33.0	18505.15618950.67119852.56720580.60320841.392
33.5	18342.16318787.67819722.17220471.94120710.997
34.0	18168.30418635.55119591.77720352.41220602.335
34.5	17994.44518472.55819450.51720243.75020493.673
35.0	17820.58518309.56519320.12220124.22220385.011
35.5	17646.72618146.57119178.86120015.56020254.616
36.0	17472.86617983.57819037.60119896.03120145.954
36.5	17288.14117820.58518896.34019765.63720026.426
37.0	17103.41517646.72618755.07919635.24219906.898
37.5	16907.82317483.73318613.81919515.71419776.503
38.0	16723.09817309.87318461.69219385.31919656.975
38.5	16527.50617136.01418320.43119254.92519537.446
39.0	16331.91416962.15518168.30419124.53019407.052
39.5	16136.32316788.29518016.17718994.13619276.657
40.0	15940.73116614.43617874.91618863.74119146.263
40.5	15745.13916429.71017722.78918722.48119005.002
41.0	15549.54716244.98517559.79618592.08618874.608
41.5	15353.95516071.12517407.66918450.82518733.347
42.0	15158.36415886.40017255.54218309.56518602.952
42.5	14962.77215701.67417092.54918168.30418461.692
43.0	14767.18015516.94916929.55618027.04318320.431
43.5	14582.45415332.22316766.56317885.78218168.304
44.0	14386.86315147.49716603.57017733.65518027.043
44.5	14180.40514962.77216440.57617581.52917885.782
45.0	13984.81314778.04616277.58317440.26817733.655
45.5	13778.35514593.32116114.59017288.14117592.395
46.0	13582.76314408.59515940.73117136.01417440.268
46.5	13376.30514213.00315777.73816983.88717277.275
47.0	13169.84714028.27815603.87816820.89417125.148
47.5	12963.38913843.55215440.88516668.76716962.155
48.0	12756.93113647.96015277.89216505.77416810.028
48.5	12550.47313463.23515104.03316353.64716647.034
49.0	12354.88113267.64314941.03916190.65416484.041
49.5	12148.42313082.91714767.18016027.66016321.048
50.0	11941.96512887.32614593.32115864.66716158.055
50.5	11746.37412691.73414419.46115701.67416005.928
51.0	11539.91612507.00814245.60215527.81515842.935
51.5	11344.32412311.41614071.74315364.82215679.942
52.0	11137.86612126.69113897.88315190.96215516.949
52.5	10942.27411931.09913724.02415017.10315343.089
53.0	10740.16211746.37413550.16414843.24315180.096
53.5	10539.13811561.64813365.43914669.38415006.237
54.0	10341.37211376.92213191.57914495.52514821.511
54.5	10146.86711192.19713006.85414310.79914647.652

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55.0	9950.189	10996.605	12832.995	14126.074	14462.926
55.5	9761.117	10816.226	12648.269	13941.348	14278.201
56.0	9569.872	10630.414	12474.410	13756.622	14082.609
56.5	9377.540	10444.601	12289.684	13571.897	13887.017
57.0	9181.948	10260.963	12104.958	13387.171	13691.425
57.5	8984.183	10076.237	11931.099	13191.579	13484.967
58.0	8789.678	9892.598	11746.374	13006.854	13289.375
58.5	8597.346	9707.872	11561.648	12811.262	13082.917
59.0	8403.927	9524.233	11376.922	12604.804	12876.459
59.5	8217.028	9340.595	11192.197	12409.212	12670.001
60.0	8029.043	9158.042	11007.471	12202.754	12452.677
60.5	7843.231	8977.663	10828.179	12007.163	12235.353
61.0	7655.245	8797.284	10645.626	11800.705	12018.029
61.5	7465.087	8617.992	10464.161	11583.380	11789.838
62.0	7280.361	8440.872	10281.608	11376.922	11550.782
62.5	7097.809	8265.926	10095.796	11159.598	11311.725
63.0	6920.689	8090.980	9911.071	10931.408	11083.535
63.5	6747.917	7917.121	9725.258	10711.910	10841.218
64.0	6572.971	7745.435	9537.273	10486.980	10596.728
64.5	6395.851	7575.922	9350.374	10259.876	10347.892
65.0	6220.905	7406.409	9159.129	10028.426	10093.623
65.5	6050.306	7237.983	8966.797	9794.802	9839.354
66.0	5882.966	7071.730	8773.378	9557.919	9582.911
66.5	5715.627	6904.390	8579.960	9316.689	9326.468
67.0	5547.200	6738.137	8384.368	9075.459	9065.679
67.5	5382.034	6574.057	8189.863	8834.229	8803.804
68.0	5219.041	6408.891	7994.271	8588.653	8535.408
68.5	5054.961	6243.725	7799.766	8339.817	8264.840
69.0	4890.881	6080.731	7604.174	8089.894	7991.011
69.5	4730.061	5917.738	7407.496	7839.971	7720.443
70.0	4571.415	5754.745	7210.817	7590.048	7448.787
70.5	4413.855	5593.925	7015.225	7339.039	7180.392
71.0	4259.555	5434.192	6819.634	7089.116	6915.256
71.5	4108.514	5274.459	6621.869	6840.279	6656.641
72.0	3958.560	5115.812	6423.017	6590.357	6404.544
72.5	3811.867	4960.425	6225.252	6344.780	6153.535
73.0	3669.519	4805.038	6025.314	6101.377	5909.045
73.5	3526.085	4651.825	5825.375	5861.234	5666.729
74.0	3385.911	4500.784	5628.697	5625.437	5432.019
74.5	3251.170	4351.917	5429.845	5392.900	5208.175
75.0	3116.429	4204.137	5232.080	5164.710	4984.331
75.5	2986.035	4057.443	5034.315	4941.953	4772.440
76.0	2856.727	3912.922	4836.550	4727.888	4563.808
76.5	2728.505	3769.488	4642.045	4517.084	4357.350
77.0	2604.631	3624.968	4447.540	4312.799	4159.585
77.5	2478.583	3482.620	4255.208	4113.947	3968.340
78.0	2356.881	3341.360	4062.876	3920.529	3781.441
78.5	2237.353	3199.012	3873.804	3733.630	3605.409
79.0	2119.998	3057.752	3685.819	3552.164	3434.809
79.5	2001.556	2915.404	3501.093	3378.305	3272.903
80.0	1885.288	2774.144	3317.454	3210.965	3117.516
80.5	1772.279	2631.796	3138.162	3046.885	2968.649
81.0	1661.444	2491.622	2964.302	2890.412	2825.215
81.5	1551.695	2353.621	2791.529	2737.198	2685.041
82.0	1443.033	2213.447	2626.363	2589.418	2550.300
82.5	1337.631	2075.446	2464.457	2447.071	2422.078

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83.0	1236.575	1937.445	2305.810	2311.243	2297.117
83.5	1135.519	1799.444	2153.683	2179.762	2177.589
84.0	1037.723	1664.703	2005.902	2053.714	2062.407
84.5	938.841	1531.049	1862.468	1930.926	1950.485
85.0	845.391	1398.481	1722.294	1813.571	1839.649
85.5	750.855	1265.914	1587.553	1698.389	1732.074
86.0	659.579	1138.779	1457.159	1588.640	1626.672
86.5	569.389	1011.644	1331.111	1482.151	1528.876
87.0	479.200	888.856	1210.496	1382.182	1433.253
87.5	387.924	781.281	1105.094	1289.819	1347.410
88.0	297.734	683.485	1010.558	1209.409	1271.347
88.5	208.631	594.382	929.061	1140.952	1206.149
89.0	141.261	522.665	857.344	1077.928	1145.299
89.5	94.536	456.381	793.233	1017.077	1086.621
90.0	48.898	394.443	732.383	961.660	1033.377
90.5	43.465	273.829	572.649	789.974	862.777
91.0	41.292	264.049	578.082	801.926	866.037
91.5	41.292	257.529	576.996	806.273	866.037
92.0	42.378	253.183	576.996	800.840	859.517
92.5	45.638	253.183	573.736	791.060	845.391
93.0	48.898	246.663	563.956	776.934	834.525
93.5	52.158	240.143	553.090	763.895	820.399
94.0	55.418	233.624	542.224	750.855	807.359
94.5	58.678	229.277	531.358	738.902	794.320
95.0	60.851	223.844	521.578	725.863	781.281
95.5	63.024	218.411	511.799	713.910	769.328
96.0	63.024	215.151	502.019	701.957	757.375
96.5	64.111	211.891	493.326	690.004	745.422
97.0	64.111	209.718	484.633	678.052	733.469
97.5	65.197	206.458	475.940	667.185	721.516
98.0	65.197	203.198	467.247	656.319	710.650
98.5	65.197	201.025	459.641	645.453	698.697
99.0	65.197	199.938	452.034	635.673	686.745
99.5	66.284	198.852	444.428	625.894	675.878
100.0	66.284	197.765	437.908	617.201	665.012
100.5	66.284	196.678	432.475	608.508	656.319
101.0	66.284	196.678	427.042	598.728	647.626
101.5	66.284	197.765	420.522	590.035	638.933
102.0	66.284	197.765	415.089	581.342	630.240
102.5	65.197	198.852	409.656	573.736	620.461
103.0	65.197	199.938	404.223	566.130	611.768
103.5	65.197	201.025	398.790	559.610	604.161
104.0	66.284	201.025	394.443	553.090	597.642
104.5	66.284	203.198	390.097	545.484	591.122
105.0	66.284	204.285	385.750	538.964	584.602
105.5	66.284	205.371	382.491	531.358	576.996
106.0	66.284	207.545	378.144	523.751	569.389
106.5	67.371	208.631	374.884	517.232	561.783
107.0	67.371	210.804	372.711	510.712	554.177
107.5	67.371	212.978	369.451	504.192	547.657
108.0	67.371	215.151	367.278	498.759	541.137
108.5	67.371	217.324	365.105	494.413	534.618
109.0	68.457	219.497	364.018	488.979	528.098
109.5	68.457	221.671	361.845	484.633	523.751
110.0	68.457	223.844	360.758	481.373	518.318
110.5	68.457	227.104	359.672	477.027	513.972

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CANDELA TABULATION - (Cont.)

111.0	69.544	230.364	358.585	473.767	509.625
111.5	69.544	233.624	356.412	469.420	505.279
112.0	69.544	237.970	355.325	466.160	502.019
112.5	69.544	241.230	353.152	462.901	497.672
113.0	69.544	245.576	352.065	459.641	494.413
113.5	69.544	249.923	350.979	456.381	490.066
114.0	69.544	255.356	349.892	454.208	486.806
114.5	69.544	260.789	348.805	450.948	484.633
115.0	70.630	266.222	348.805	448.774	482.460
115.5	70.630	271.655	347.719	446.601	479.200
116.0	70.630	277.088	347.719	444.428	477.027
116.5	70.630	282.521	347.719	442.255	474.853
117.0	71.717	287.955	347.719	440.082	472.680
117.5	71.717	293.388	347.719	437.908	470.507
118.0	71.717	298.821	347.719	435.735	468.334
118.5	71.717	304.254	347.719	433.562	465.074
119.0	72.804	310.774	348.805	431.389	462.901
119.5	72.804	316.207	348.805	430.302	460.727
120.0	72.804	320.553	349.892	428.129	458.554
120.5	73.890	325.986	349.892	427.042	456.381
121.0	73.890	330.333	350.979	425.955	454.208
121.5	73.890	334.679	350.979	424.869	453.121
122.0	74.977	337.939	352.065	422.696	452.034
122.5	74.977	342.286	353.152	422.696	450.948
123.0	74.977	345.545	354.238	421.609	448.774
123.5	76.063	347.719	356.412	420.522	447.688
124.0	76.063	349.892	357.498	419.436	446.601
124.5	76.063	350.979	359.672	418.349	444.428
125.0	77.150	352.065	361.845	418.349	443.341
125.5	77.150	353.152	364.018	417.262	442.255
126.0	78.237	353.152	367.278	417.262	441.168
126.5	78.237	352.065	369.451	416.176	440.082
127.0	79.323	350.979	372.711	415.089	440.082
127.5	79.323	349.892	375.971	415.089	440.082
128.0	80.410	347.719	380.317	415.089	438.995
128.5	80.410	346.632	384.664	415.089	438.995
129.0	81.497	344.459	389.010	415.089	437.908
129.5	81.497	341.199	393.357	415.089	437.908
130.0	82.583	339.026	397.703	416.176	437.908
130.5	83.670	336.853	403.136	416.176	436.822
131.0	83.670	333.593	407.483	416.176	436.822
131.5	83.670	331.419	412.916	417.262	436.822
132.0	84.756	328.160	418.349	418.349	436.822
132.5	84.756	325.986	422.696	420.522	436.822
133.0	85.843	322.726	428.129	421.609	436.822
133.5	85.843	320.553	433.562	423.782	437.908
134.0	85.843	317.293	437.908	425.955	438.995
134.5	85.843	315.120	443.341	428.129	440.082
135.0	85.843	311.860	448.774	430.302	441.168
135.5	86.930	308.600	453.121	433.562	442.255
136.0	85.843	306.427	458.554	436.822	444.428
136.5	85.843	303.167	462.901	440.082	445.515
137.0	85.843	299.907	467.247	444.428	448.774
137.5	85.843	297.734	471.594	447.688	450.948
138.0	85.843	294.474	475.940	452.034	454.208
138.5	85.843	291.214	479.200	456.381	457.467

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CANDELA TABULATION - (Cont.)

139.0	85.843	287.955	482.460	460.727	460.727
139.5	85.843	284.695	483.546	465.074	465.074
140.0	85.843	282.521	485.720	469.420	468.334
140.5	85.843	279.262	485.720	473.767	472.680
141.0	86.930	276.002	486.806	478.113	477.027
141.5	86.930	272.742	485.720	483.546	481.373
142.0	86.930	269.482	484.633	487.893	485.720
142.5	88.016	266.222	482.460	493.326	490.066
143.0	88.016	262.962	479.200	497.672	494.413
143.5	88.016	259.702	475.940	502.019	498.759
144.0	88.016	257.529	471.594	506.365	504.192
144.5	89.103	254.269	467.247	510.712	509.625
145.0	89.103	252.096	461.814	515.058	515.058
145.5	89.103	249.923	456.381	519.405	519.405
146.0	89.103	247.750	450.948	522.665	523.751
146.5	89.103	245.576	444.428	525.925	529.184
147.0	89.103	243.403	438.995	527.011	534.618
147.5	89.103	241.230	432.475	527.011	538.964
148.0	89.103	240.143	427.042	525.925	543.311
148.5	89.103	237.970	420.522	524.838	546.570
149.0	89.103	235.797	415.089	522.665	547.657
149.5	89.103	233.624	409.656	520.491	548.744
150.0	89.103	230.364	404.223	516.145	547.657
150.5	89.103	228.190	398.790	511.799	545.484
151.0	89.103	226.017	392.270	505.279	543.311
151.5	89.103	223.844	386.837	498.759	540.051
152.0	89.103	220.584	381.404	491.153	535.704
152.5	89.103	217.324	374.884	483.546	530.271
153.0	90.190	214.064	369.451	475.940	523.751
153.5	90.190	210.804	362.931	467.247	516.145
154.0	90.190	207.545	357.498	458.554	507.452
154.5	90.190	204.285	350.979	449.861	497.672
155.0	91.276	201.025	345.545	442.255	487.893
155.5	91.276	196.678	339.026	433.562	478.113
156.0	91.276	193.419	333.593	424.869	467.247
156.5	92.363	190.159	327.073	417.262	457.467
157.0	92.363	186.899	320.553	408.570	446.601
157.5	93.449	183.639	315.120	399.877	436.822
158.0	93.449	179.292	308.600	391.184	425.955
158.5	93.449	177.119	303.167	382.491	415.089
159.0	94.536	173.859	297.734	373.798	405.310
159.5	94.536	170.600	292.301	365.105	394.443
160.0	94.536	167.340	286.868	355.325	384.664
160.5	94.536	165.166	282.521	346.632	374.884
161.0	95.623	161.907	278.175	337.939	364.018
161.5	95.623	158.647	273.829	329.246	353.152
162.0	95.623	156.473	268.395	319.467	343.372
162.5	95.623	153.214	262.962	310.774	332.506
163.0	96.709	149.954	257.529	302.081	322.726
163.5	95.623	147.780	251.009	293.388	311.860
164.0	96.709	145.607	244.490	285.781	302.081
164.5	96.709	142.347	237.970	279.262	292.301
165.0	96.709	140.174	231.450	271.655	283.608
165.5	96.709	138.001	223.844	265.136	276.002
166.0	96.709	135.828	217.324	257.529	268.395
166.5	96.709	132.568	209.718	249.923	259.702

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CANDELA TABULATION - (Cont.)

167.0	96.709	130.395	203.198	242.316	252.096
167.5	96.709	128.221	196.678	233.624	243.403
168.0	97.796	127.135	190.159	224.931	234.710
168.5	97.796	124.961	183.639	216.238	226.017
169.0	97.796	122.788	177.119	207.545	217.324
169.5	97.796	120.615	170.600	198.852	207.545
170.0	97.796	119.528	165.166	190.159	197.765
170.5	97.796	117.355	159.733	181.466	187.985
171.0	97.796	116.268	154.300	172.773	179.292
171.5	97.796	114.095	148.867	165.166	170.600
172.0	98.883	113.009	144.521	157.560	160.820
172.5	98.883	111.922	139.087	151.040	152.127
173.0	98.883	110.835	134.741	144.521	144.521
173.5	99.969	109.749	130.395	138.001	138.001
174.0	99.969	108.662	126.048	132.568	131.481
174.5	99.969	107.575	122.788	127.135	124.961
175.0	99.969	107.575	119.528	121.702	119.528
175.5	99.969	106.489	116.268	117.355	115.182
176.0	99.969	105.402	114.095	113.009	110.835
176.5	99.969	105.402	111.922	109.749	106.489
177.0	99.969	105.402	109.749	106.489	102.142
177.5	101.056	104.316	108.662	104.316	98.883
178.0	101.056	104.316	107.575	102.142	96.709
178.5	101.056	104.316	106.489	101.056	94.536
179.0	101.056	103.229	105.402	99.969	93.449
179.5	101.056	103.229	105.402	99.969	92.363
180.0	101.056	101.056	101.056	101.056	101.056

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8916.08	N.A.	12.40
0-30	18919.63	N.A.	26.20
0-40	30935.87	N.A.	42.90
0-60	54549.56	N.A.	75.60
0-80	68098.95	N.A.	94.30
0-90	69885.13	N.A.	96.80
10-90	67578.09	N.A.	93.60
20-40	22019.79	N.A.	30.50
20-50	34427.1	N.A.	47.70
40-70	32196.65	N.A.	44.60
60-80	13549.38	N.A.	18.80
70-80	4966.42	N.A.	6.90
80-90	1786.18	N.A.	2.50
90-110	906.79	N.A.	1.30
90-120	1241.13	N.A.	1.70
90-130	1552.94	N.A.	2.20
90-150	2073.63	N.A.	2.90
90-180	2295.5	N.A.	3.20
110-180	1388.71	N.A.	1.90
0-180	72180.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2307.04
10-20	6609.04
20-30	10003.55
30-40	12016.24
40-50	12407.31
50-60	11206.38
60-70	8582.96
70-80	4966.42
80-90	1786.18
90-100	519.30
100-110	387.49
110-120	334.35
120-130	311.81
130-140	282.02
140-150	238.67
150-160	148.80
160-170	60.81
170-180	12.25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L720-840-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	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	95	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	89	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	62	58	56
4	82	69	61	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L720-840-FA-DIM-UNV_.IES

UGR TABLE - CORRECTED

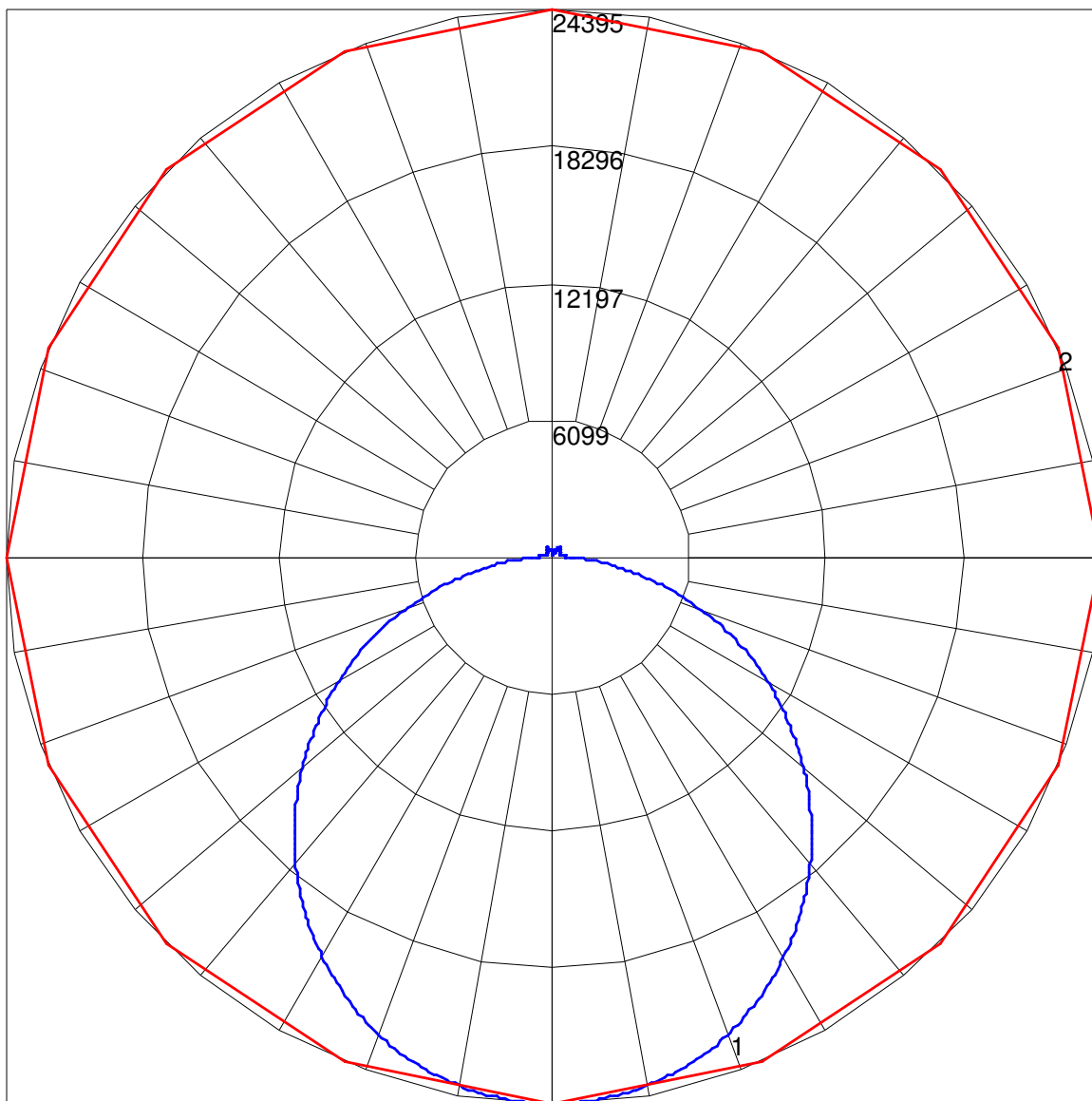
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	22.1	23.7	22.5	24.1	24.5	24.4	25.9	24.8	26.3	26.7
	3H	23.6	25.0	24.0	25.4	25.8	26.1	27.5	26.5	27.9	28.4
	4H	24.0	25.4	24.5	25.8	26.2	26.7	28.0	27.1	28.4	28.9
	6H	24.4	25.6	24.8	26.0	26.5	27.1	28.3	27.5	28.7	29.2
	8H	24.4	25.6	24.9	26.1	26.6	27.2	28.4	27.7	28.8	29.3
	12H	24.5	25.6	24.9	26.1	26.6	27.3	28.5	27.8	28.9	29.4
4H	2H	23.1	24.4	23.5	24.8	25.3	24.8	26.2	25.3	26.6	27.0
	3H	24.8	25.9	25.2	26.3	26.8	26.8	27.9	27.2	28.4	28.8
	4H	25.4	26.4	25.8	26.9	27.4	27.5	28.5	27.9	29.0	29.5
	6H	25.8	26.7	26.3	27.2	27.7	28.0	28.9	28.5	29.4	29.9
	8H	25.9	26.7	26.4	27.2	27.8	28.2	29.0	28.7	29.5	30.0
	12H	26.0	26.7	26.5	27.3	27.8	28.3	29.1	28.9	29.6	30.2
8H	4H	25.8	26.7	26.3	27.2	27.7	27.7	28.5	28.2	29.0	29.6
	6H	26.4	27.1	26.9	27.6	28.2	28.3	29.0	28.8	29.6	30.1
	8H	26.6	27.2	27.1	27.8	28.3	28.5	29.2	29.1	29.7	30.3
	12H	26.7	27.3	27.3	27.8	28.5	28.8	29.4	29.4	29.9	30.5
12H	4H	25.9	26.6	26.4	27.2	27.7	27.7	28.5	28.2	29.0	29.5
	6H	26.5	27.1	27.1	27.7	28.3	28.3	29.0	28.9	29.5	30.1
	8H	26.7	27.3	27.3	27.9	28.5	28.6	29.2	29.2	29.7	30.4

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 24394.642 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)