

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-930U-L8-930D-F-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4UDC-4-00-L8-930U-L8-930D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[BALLAST] OTI50/120-277/1A4 DIM-1 L G2 #57452

[OTHER] 24.8 C, 119.951 V, 0.4435 A, 52.6728 W, 0.990119 PF, 60.0072 H

[OTHER] This test was performed using the calibrated photodetector

[MORE] method of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	54.2
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7414	7228	7146
55	6815	6650	6580
65	6286	6134	6068
75	5331	5328	5325
85	4163	4330	4456

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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	1075.770	1075.770	1075.770	1075.770	1075.770
0.5	1092.015	1076.673	1071.258	1073.514	1069.904
1.0	1092.015	1076.222	1071.258	1073.514	1069.904
1.5	1091.564	1075.770	1070.807	1073.514	1069.453
2.0	1091.113	1075.319	1070.356	1073.063	1069.453
2.5	1090.662	1074.868	1069.453	1072.612	1069.002
3.0	1089.759	1073.965	1069.002	1072.160	1068.099
3.5	1088.857	1073.063	1068.099	1071.258	1067.197
4.0	1087.954	1072.160	1067.197	1070.356	1066.294
4.5	1087.052	1070.807	1066.294	1069.453	1064.941
5.0	1086.149	1069.904	1064.941	1068.099	1063.587
5.5	1084.795	1068.551	1063.587	1066.746	1062.233
6.0	1083.442	1066.746	1062.233	1065.392	1060.428
6.5	1081.637	1065.392	1060.428	1063.587	1059.074
7.0	1080.283	1063.587	1059.074	1061.782	1057.269
7.5	1078.929	1061.782	1057.269	1059.977	1055.916
8.0	1076.673	1059.977	1055.013	1058.172	1054.111
8.5	1074.868	1057.721	1052.757	1055.916	1051.854
9.0	1072.612	1055.916	1050.952	1053.659	1049.598
9.5	1070.356	1053.659	1048.244	1050.952	1047.342
10.0	1068.099	1051.403	1045.988	1048.696	1044.634
10.5	1065.392	1048.696	1043.281	1045.988	1042.378
11.0	1063.136	1045.988	1040.573	1043.281	1039.220
11.5	1059.977	1043.281	1037.866	1040.573	1036.512
12.0	1057.269	1040.573	1035.158	1037.415	1033.353
12.5	1054.562	1037.415	1032.000	1034.256	1030.195
13.0	1051.403	1034.707	1028.841	1031.097	1027.036
13.5	1048.244	1031.097	1025.682	1027.487	1023.877
14.0	1045.086	1027.938	1022.072	1024.328	1020.718
14.5	1041.927	1024.780	1018.462	1020.718	1017.108
15.0	1038.768	1021.170	1014.852	1017.108	1013.499
15.5	1034.707	1018.011	1011.242	1013.047	1009.437
16.0	1030.195	1014.401	1007.181	1009.437	1005.827
16.5	1025.682	1010.340	1003.120	1005.376	1001.766
17.0	1021.621	1006.279	999.059	1001.315	997.705
17.5	1017.108	1001.766	994.546	996.802	993.192
18.0	1012.596	997.254	990.034	992.290	988.680
18.5	1008.084	992.741	985.521	987.326	984.168
19.0	1003.571	988.229	981.460	982.814	978.753
19.5	998.607	983.716	976.948	977.399	973.338
20.0	994.095	978.753	972.886	972.435	967.923
20.5	989.131	974.240	968.374	967.020	962.508
21.0	984.168	969.276	963.410	961.605	956.642
21.5	978.753	964.313	957.995	956.190	950.775
22.0	973.789	958.898	952.129	950.324	945.360
22.5	968.374	953.483	946.714	944.458	939.494
23.0	962.959	948.068	941.299	938.140	933.628
23.5	957.544	942.653	935.433	932.274	928.213
24.0	951.678	937.238	930.018	926.408	922.347
24.5	945.812	931.372	924.152	920.542	916.481
25.0	940.397	925.506	918.286	914.676	910.614
25.5	934.530	919.639	911.968	908.809	904.297
26.0	928.213	913.322	906.102	902.943	898.431
26.5	922.347	907.456	899.785	897.077	892.565

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CANDELA TABULATION - (Cont.)

27.0	916.029	901.138	893.467	891.211	886.247
27.5	909.712	894.821	887.601	885.345	880.381
28.0	903.394	888.052	880.832	879.027	874.063
28.5	896.626	881.283	874.515	873.161	867.746
29.0	889.857	874.966	868.197	866.844	861.429
29.5	883.540	868.197	861.880	860.075	855.562
30.0	876.771	861.429	855.562	853.757	849.245
30.5	870.002	854.660	848.794	847.440	842.928
31.0	862.782	848.342	842.025	840.671	836.610
31.5	856.014	841.574	835.256	833.903	829.841
32.0	848.794	834.354	828.488	826.683	823.073
32.5	841.574	827.585	821.719	819.914	815.853
33.0	834.354	820.816	814.950	813.145	808.633
33.5	827.585	813.597	807.730	805.925	801.864
34.0	819.914	806.377	800.962	798.705	794.644
34.5	812.694	799.157	793.290	791.485	786.973
35.0	805.474	792.388	786.071	784.266	779.302
35.5	797.803	784.717	778.851	777.046	771.631
36.0	790.132	777.497	771.631	769.374	764.411
36.5	782.912	770.277	764.411	762.154	757.191
37.0	775.241	762.606	756.740	754.483	749.520
37.5	767.569	754.935	749.520	746.812	742.300
38.0	759.447	747.263	741.848	739.141	734.628
38.5	751.776	739.592	734.177	731.921	726.957
39.0	744.556	731.921	726.506	724.250	719.737
39.5	736.433	724.250	719.286	716.579	711.615
40.0	728.762	716.127	711.615	708.907	704.395
40.5	720.640	708.456	703.944	701.236	696.724
41.0	712.969	700.334	696.273	693.114	688.601
41.5	704.846	692.663	688.150	685.443	680.479
42.0	697.175	684.540	680.479	677.771	672.808
42.5	689.504	676.869	672.808	669.649	665.137
43.0	681.381	669.198	665.137	661.978	657.014
43.5	673.710	661.075	657.014	654.307	649.343
44.0	665.588	652.953	648.892	646.184	641.672
44.5	657.465	644.831	640.769	638.062	633.549
45.0	649.343	637.159	633.098	629.939	625.878
45.5	641.672	629.037	624.976	622.268	618.207
46.0	633.549	620.914	616.853	614.146	610.536
46.5	625.427	612.792	609.182	606.475	602.865
47.0	617.305	604.670	601.060	598.352	594.742
47.5	608.731	596.547	592.937	590.230	587.071
48.0	600.608	588.425	584.815	582.559	578.949
48.5	592.486	580.302	577.144	574.436	570.826
49.0	583.912	572.180	569.021	566.314	563.155
49.5	575.790	564.057	560.899	558.643	555.484
50.0	567.216	555.935	552.776	550.520	547.361
50.5	558.643	547.813	544.654	542.398	539.690
51.0	550.069	539.690	536.531	534.275	531.568
51.5	541.946	531.568	528.409	526.604	523.445
52.0	533.824	523.445	520.287	518.482	515.774
52.5	525.250	515.323	512.164	510.810	507.652
53.0	517.128	507.200	504.042	502.688	499.529
53.5	508.554	499.078	495.919	494.566	491.407
54.0	500.432	490.956	488.248	486.894	483.284
54.5	492.309	483.284	480.126	478.772	475.162

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CANDELA TABULATION - (Cont.)

55.0	484.187	475.613	472.455	471.101	467.491
55.5	476.516	467.491	464.332	462.978	459.820
56.0	467.942	459.368	456.210	455.307	451.697
56.5	459.820	451.697	448.313	447.320	443.755
57.0	452.148	443.575	440.326	439.243	435.859
57.5	444.207	435.723	432.384	431.391	427.871
58.0	436.265	427.962	424.397	423.494	419.975
58.5	428.278	420.155	416.545	415.733	412.394
59.0	420.426	412.303	408.648	407.881	404.677
59.5	412.800	404.362	400.616	400.075	397.051
60.0	404.993	396.465	392.674	392.223	389.290
60.5	397.277	388.748	385.003	384.326	381.438
61.0	389.696	381.032	377.377	376.610	373.767
61.5	381.574	373.406	369.796	368.939	366.186
62.0	373.587	365.554	361.944	361.313	358.425
62.5	365.419	358.289	354.544	354.048	351.069
63.0	357.567	351.882	348.858	348.633	346.196
63.5	349.625	344.887	342.496	341.999	339.472
64.0	344.842	338.074	335.908	334.915	332.027
64.5	337.397	330.808	328.462	327.559	324.852
65.0	329.049	323.047	321.107	320.249	317.632
65.5	320.520	315.195	313.435	313.029	310.367
66.0	312.307	307.524	305.945	305.764	302.921
66.5	304.185	299.672	298.319	298.319	295.792
67.0	296.153	291.866	290.783	290.918	288.617
67.5	288.256	284.195	283.202	283.473	281.217
68.0	280.269	276.524	275.621	275.982	273.636
68.5	272.237	268.717	267.995	268.491	266.190
69.0	263.934	260.865	260.324	260.595	258.474
69.5	255.856	253.149	252.517	252.833	250.893
70.0	247.869	245.342	244.891	245.027	243.312
70.5	240.018	237.491	237.175	237.310	235.686
71.0	231.986	229.684	229.594	229.774	228.015
71.5	223.953	221.878	222.058	222.194	220.659
72.0	216.147	214.026	214.387	214.568	213.259
72.5	208.340	206.310	206.896	207.077	205.994
73.0	200.624	198.774	199.586	199.812	198.864
73.5	193.133	191.328	192.276	192.682	191.644
74.0	185.733	183.883	185.056	185.372	184.695
74.5	178.332	176.573	177.881	178.197	177.701
75.0	170.887	169.308	170.797	171.113	170.706
75.5	163.532	162.042	163.757	164.163	163.712
76.0	156.086	155.048	156.808	157.259	156.898
76.5	149.047	148.144	149.904	150.400	150.084
77.0	142.188	141.195	143.135	143.587	143.090
77.5	135.103	134.426	136.367	136.728	136.231
78.0	128.199	127.658	129.598	130.139	129.643
78.5	121.340	121.069	122.919	123.551	123.145
79.0	114.752	114.481	116.376	117.143	116.828
79.5	108.164	108.028	109.924	110.736	110.465
80.0	101.666	101.711	103.471	104.599	104.238
80.5	95.123	95.529	97.334	98.417	98.146
81.0	88.850	89.482	91.242	92.370	92.190
81.5	82.804	83.481	85.285	86.414	86.278
82.0	77.163	77.614	79.464	80.638	80.502
82.5	71.523	71.929	73.734	74.907	74.817

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CANDELA TABULATION - (Cont.)

83.0	65.882	66.514	68.093	69.311	69.402
83.5	60.332	61.099	62.633	63.806	64.077
84.0	55.142	55.774	57.218	58.346	58.752
84.5	49.863	50.540	51.893	53.021	53.428
85.0	44.944	45.486	46.749	47.742	48.103
85.5	40.161	40.432	41.515	42.553	42.913
86.0	35.468	35.558	36.506	37.453	37.905
86.5	30.820	30.820	31.678	32.535	32.941
87.0	26.127	26.127	26.759	27.842	28.158
87.5	21.479	21.524	22.111	23.194	23.600
88.0	17.057	17.012	17.599	18.772	19.223
88.5	12.815	12.545	13.312	14.350	14.981
89.0	8.303	8.168	9.205	10.198	10.875
89.5	3.836	4.558	5.505	6.272	6.498
90.0	0.000	0.000	0.000	0.000	0.000
90.5	2.785	1.468	1.355	1.317	1.430
91.0	6.135	3.237	2.635	2.597	2.559
91.5	9.861	6.587	3.914	3.877	3.839
92.0	13.625	10.953	5.646	5.043	5.043
92.5	17.539	15.469	8.732	6.323	6.210
93.0	21.604	19.798	12.345	8.393	7.565
93.5	25.707	23.938	16.222	11.329	9.861
94.0	29.734	28.003	20.513	14.829	12.985
94.5	33.874	32.068	24.992	18.443	16.373
95.0	37.939	36.245	29.395	22.131	19.722
95.5	42.004	40.160	33.686	25.933	23.260
96.0	45.881	44.149	37.901	29.885	26.874
96.5	49.795	48.139	42.117	33.912	30.600
97.0	53.597	52.053	46.295	37.939	34.552
97.5	57.511	56.005	50.510	42.042	38.504
98.0	61.388	59.882	54.613	46.107	42.493
98.5	65.264	63.796	58.565	50.247	46.483
99.0	69.216	67.824	62.592	54.199	50.510
99.5	73.206	71.813	66.657	58.151	54.462
100.0	77.120	75.841	70.722	62.216	58.339
100.5	81.185	79.868	74.787	66.431	62.253
101.0	85.363	83.895	78.927	70.684	66.506
101.5	89.616	87.998	83.142	74.937	70.910
102.0	93.756	92.251	87.358	79.190	75.276
102.5	98.085	96.466	91.724	83.443	79.604
103.0	102.526	100.832	96.052	87.659	84.008
103.5	106.967	105.273	100.644	92.175	88.374
104.0	111.521	109.752	105.311	96.843	92.928
104.5	116.226	114.420	109.978	101.623	97.482
105.0	121.044	119.200	114.608	106.327	102.112
105.5	125.974	124.055	119.388	111.070	106.704
106.0	130.980	128.948	124.243	115.887	111.296
106.5	136.024	133.991	129.324	120.743	115.925
107.0	141.406	139.261	134.744	125.899	120.969
107.5	146.976	144.680	140.239	131.357	126.426
108.0	152.509	150.251	145.847	137.266	132.034
108.5	158.343	155.934	151.455	143.175	137.830
109.0	164.328	161.730	157.214	149.159	143.702
109.5	170.463	167.753	163.274	155.106	149.649
110.0	177.012	173.925	169.484	161.204	155.859
110.5	183.711	180.248	175.845	167.753	162.295

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CANDELA TABULATION - (Cont.)

111.0	190.486	186.873	182.431	174.565	168.769
111.5	197.411	193.685	189.131	181.490	175.431
112.0	204.600	200.686	195.793	188.416	181.792
112.5	211.827	207.875	202.530	195.304	188.529
113.0	219.392	215.289	209.644	202.417	195.567
113.5	227.183	223.043	217.171	210.095	203.132
114.0	235.087	230.947	225.151	218.263	211.526
114.5	243.254	239.114	233.280	226.769	220.446
115.0	251.535	247.507	241.711	235.350	229.479
115.5	260.191	255.976	250.368	243.894	238.399
116.0	268.924	264.783	259.326	252.890	247.470
116.5	278.145	273.816	268.585	262.111	257.143
117.0	287.743	283.038	277.919	272.047	267.117
117.5	294.818	290.227	286.463	281.193	277.242
118.0	303.852	298.620	295.232	290.641	286.237
118.5	314.353	308.632	304.190	299.410	294.329
119.0	324.628	318.493	314.353	309.347	303.325
119.5	335.016	328.994	325.117	319.434	313.412
120.0	345.743	339.871	335.919	330.462	324.063
120.5	356.394	350.899	347.060	342.167	335.430
121.0	367.573	362.153	358.276	353.835	347.512
121.5	378.638	373.294	369.455	365.653	359.330
122.0	390.306	384.660	381.273	377.509	371.186
122.5	401.597	395.952	392.941	389.177	382.402
123.0	413.265	407.996	404.985	401.974	394.823
123.5	425.309	420.040	417.782	414.771	407.620
124.0	437.354	432.461	430.202	427.568	420.793
124.5	449.398	444.505	442.623	439.988	433.590
125.0	461.442	456.549	454.667	452.409	446.010
125.5	473.862	468.969	467.088	464.829	458.054
126.0	485.907	481.014	479.884	477.250	470.099
126.5	497.951	493.058	492.681	490.423	482.896
127.0	510.371	505.478	505.478	503.596	496.445
127.5	522.792	517.522	517.522	516.393	509.995
128.0	534.836	529.567	529.943	529.190	522.792
128.5	546.880	541.234	541.987	541.987	535.212
129.0	558.924	552.902	554.031	554.408	548.009
129.5	570.968	564.946	566.452	567.205	561.183
130.0	583.013	576.991	578.872	580.002	575.109
130.5	595.057	588.658	591.669	592.422	588.282
131.0	607.101	600.326	603.714	604.466	600.326
131.5	618.392	611.617	615.758	615.758	611.994
132.0	630.060	622.909	627.425	627.802	623.285
132.5	641.352	634.577	639.093	639.470	634.577
133.0	652.643	646.244	650.385	651.137	645.492
133.5	663.934	657.536	662.052	662.805	657.159
134.0	675.226	668.451	672.967	674.097	668.451
134.5	685.388	679.366	683.506	684.259	679.366
135.0	695.550	689.905	693.668	694.421	689.152
135.5	705.336	700.820	703.831	704.207	698.938
136.0	715.122	710.982	713.240	714.369	709.100
136.5	725.284	720.768	722.650	724.531	719.639
137.0	734.694	730.554	732.435	733.941	729.424
137.5	744.103	739.587	741.469	742.598	738.081
138.0	753.136	748.620	750.125	750.878	746.362
138.5	762.169	757.277	758.782	759.158	754.266

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	770.826	765.933	767.439	767.439	762.169
139.5	779.483	774.590	775.719	775.343	769.697
140.0	787.763	782.494	784.000	783.623	777.977
140.5	795.667	790.022	791.527	791.151	785.129
141.0	803.571	797.926	799.055	798.302	792.280
141.5	810.723	805.077	806.582	805.453	798.678
142.0	818.250	812.604	813.734	812.228	805.453
142.5	825.401	819.756	820.885	819.379	811.852
143.0	832.553	826.530	827.660	826.154	818.626
143.5	839.327	833.682	834.434	832.929	825.025
144.0	845.726	840.457	840.833	838.951	831.047
144.5	852.124	846.855	847.231	844.973	837.069
145.0	858.146	853.253	853.253	850.619	842.715
145.5	864.545	859.652	859.276	857.017	848.737
146.0	870.567	865.674	865.298	862.663	854.759
146.5	876.589	871.696	870.943	868.685	860.781
147.0	882.235	877.718	876.213	874.707	866.803
147.5	887.880	883.364	881.858	880.353	872.449
148.0	893.526	889.010	886.751	885.622	878.471
148.5	899.172	894.655	891.644	890.891	884.493
149.0	904.441	900.301	896.537	896.161	890.515
149.5	909.710	905.570	901.054	901.430	896.161
150.0	914.980	910.840	905.947	906.323	901.430
150.5	920.249	916.109	910.463	910.840	906.699
151.0	925.142	921.002	914.980	915.356	911.592
151.5	930.411	925.895	919.873	919.873	916.109
152.0	935.304	930.788	924.389	924.013	920.625
152.5	940.197	935.304	928.906	928.529	924.766
153.0	945.090	939.821	933.422	933.046	928.529
153.5	949.607	944.337	937.939	937.563	931.917
154.0	954.123	948.854	942.832	942.079	935.681
154.5	959.016	952.994	947.348	946.219	939.444
155.0	963.533	957.134	951.865	950.736	943.585
155.5	967.673	960.898	956.382	955.252	947.725
156.0	971.813	965.038	961.275	959.393	951.865
156.5	975.953	969.178	965.791	963.909	956.005
157.0	980.094	973.319	970.308	968.426	960.145
157.5	983.857	977.082	974.448	972.566	964.286
158.0	987.621	980.846	978.588	976.706	968.426
158.5	991.761	984.986	982.728	980.846	972.942
159.0	995.149	988.750	986.492	984.986	977.082
159.5	998.913	992.514	990.256	989.127	981.223
160.0	1002.300	995.901	994.020	992.890	985.363
160.5	1005.687	999.289	997.407	996.654	989.503
161.0	1009.075	1002.676	1000.794	1000.418	993.643
161.5	1012.462	1006.440	1003.805	1004.182	997.783
162.0	1016.226	1009.828	1006.816	1007.946	1001.547
162.5	1019.613	1013.215	1009.828	1011.333	1004.935
163.0	1023.001	1016.602	1012.839	1014.720	1008.322
163.5	1026.388	1019.613	1015.850	1018.108	1011.333
164.0	1029.776	1022.624	1018.484	1021.119	1014.344
164.5	1032.410	1025.635	1021.119	1024.130	1017.355
165.0	1035.421	1028.647	1023.754	1027.141	1019.990
165.5	1038.432	1031.281	1026.388	1029.776	1022.624
166.0	1041.443	1033.916	1029.023	1032.410	1024.883
166.5	1044.454	1036.551	1031.658	1034.669	1027.517

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CANDELA TABULATION - (Cont.)

167.0	1047.089	1038.809	1033.916	1036.927	1029.776
167.5	1049.724	1041.067	1036.551	1039.185	1032.410
168.0	1052.358	1043.325	1038.809	1041.443	1034.669
168.5	1054.993	1045.584	1041.067	1043.702	1037.303
169.0	1057.251	1047.466	1043.325	1045.584	1039.562
169.5	1059.133	1049.347	1045.207	1047.466	1041.820
170.0	1061.015	1051.229	1047.089	1049.347	1044.454
170.5	1062.897	1053.111	1048.595	1051.229	1046.336
171.0	1064.779	1054.617	1050.100	1053.111	1048.218
171.5	1066.285	1056.122	1051.606	1054.993	1050.100
172.0	1067.790	1057.628	1052.735	1056.499	1051.606
172.5	1069.296	1059.133	1053.864	1057.628	1052.735
173.0	1070.801	1060.639	1054.993	1059.133	1053.488
173.5	1071.930	1061.768	1056.122	1059.886	1054.240
174.0	1073.059	1062.897	1057.251	1060.639	1054.617
174.5	1073.812	1063.650	1058.004	1061.392	1054.993
175.0	1074.565	1064.779	1058.757	1061.768	1054.993
175.5	1075.318	1065.532	1059.886	1062.144	1055.370
176.0	1076.070	1066.285	1060.639	1062.144	1055.370
176.5	1076.447	1067.037	1061.015	1062.521	1055.370
177.0	1076.823	1067.790	1061.768	1062.521	1054.993
177.5	1077.576	1068.543	1062.521	1062.521	1054.993
178.0	1077.952	1068.543	1062.897	1062.521	1055.370
178.5	1077.952	1068.919	1063.273	1062.521	1055.370
179.0	1078.329	1069.296	1063.273	1062.521	1055.370
179.5	1078.705	1069.296	1063.650	1062.521	1055.370
180.0	1065.532	1065.532	1065.532	1065.532	1065.532

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	388.79	N.A.	7.10
0-30	812.83	N.A.	14.90
0-40	1305.82	N.A.	23.90
0-60	2218.88	N.A.	40.60
0-80	2717.26	N.A.	49.70
0-90	2769.92	N.A.	50.70
10-90	2668.44	N.A.	48.80
20-40	917.03	N.A.	16.80
20-50	1406.42	N.A.	25.70
40-70	1230.38	N.A.	22.50
60-80	498.39	N.A.	9.10
70-80	181.07	N.A.	3.30
80-90	52.66	N.A.	1.00
90-110	154.20	N.A.	2.80
90-120	395.85	N.A.	7.20
90-130	801.92	N.A.	14.70
90-150	1865.21	N.A.	34.10
90-180	2695.72	N.A.	49.30
110-180	2541.52	N.A.	46.50
0-180	5465.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.48
10-20	287.31
20-30	424.04
30-40	492.99
40-50	489.39
50-60	423.67
60-70	317.32
70-80	181.07
80-90	52.66
90-100	33.26
100-110	120.94
110-120	241.65
120-130	406.08
130-140	530.98
140-150	532.31
150-160	439.71
160-170	289.75
170-180	101.05

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	45	40	45	39	35	38	34	30	31	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	25	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	13

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

X=2H	Y=2H	14.8	15.7	15.8	16.7	17.9	14.7	15.6	15.7	16.6	17.8
	3H	16.6	17.4	17.5	18.3	19.6	16.5	17.3	17.4	18.2	19.5
	4H	17.2	17.9	18.2	18.9	20.2	17.1	17.9	18.1	18.8	20.1
	6H	17.6	18.3	18.6	19.3	20.6	17.6	18.3	18.6	19.2	20.5
	8H	17.8	18.4	18.7	19.4	20.7	17.7	18.4	18.7	19.4	20.7
	12H	17.8	18.5	18.8	19.4	20.8	17.8	18.4	18.8	19.4	20.8

UGR Viewed Endwise

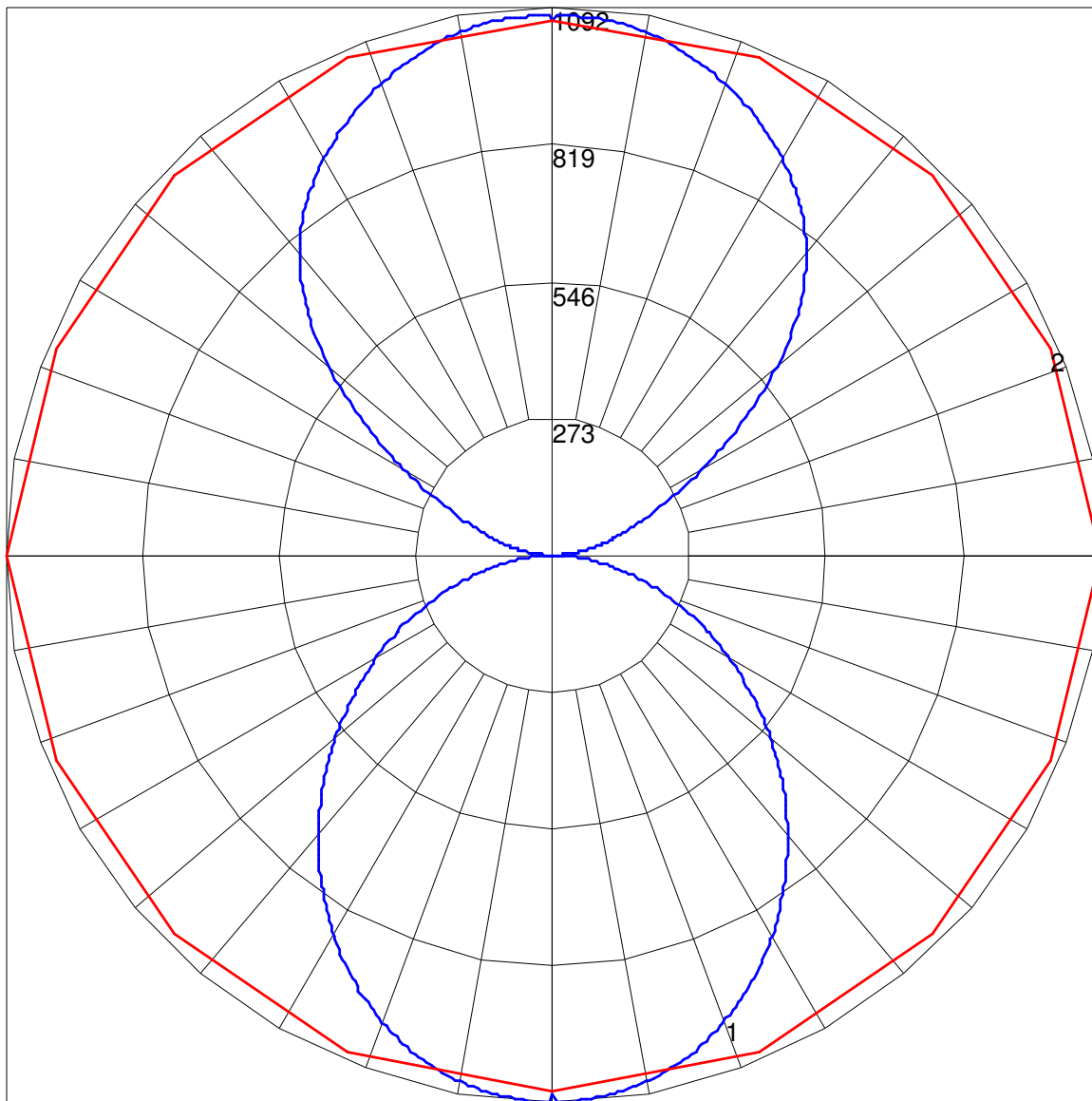
4H	2H	15.3	16.1	16.3	17.1	18.4	15.3	16.0	16.2	17.0	18.3
	3H	17.3	17.9	18.3	18.9	20.2	17.2	17.9	18.2	18.9	20.2
	4H	18.1	18.6	19.0	19.6	20.9	18.0	18.6	19.0	19.6	20.9
	6H	18.6	19.1	19.6	20.1	21.4	18.6	19.1	19.6	20.1	21.4
	8H	18.8	19.2	19.8	20.3	21.6	18.8	19.2	19.8	20.3	21.6
	12H	18.9	19.3	19.9	20.3	21.7	18.9	19.3	20.0	20.4	21.7

8H	4H	18.3	18.8	19.3	19.8	21.1	18.3	18.7	19.3	19.7	21.1
	6H	19.0	19.4	20.0	20.4	21.8	19.0	19.4	20.0	20.4	21.7
	8H	19.3	19.6	20.3	20.6	22.0	19.3	19.6	20.3	20.6	22.0
	12H	19.4	19.7	20.5	20.8	22.2	19.5	19.8	20.5	20.8	22.2

12H	4H	18.3	18.7	19.3	19.7	21.1	18.2	18.7	19.3	19.7	21.0
	6H	19.0	19.4	20.1	20.4	21.8	19.0	19.4	20.1	20.4	21.8
	8H	19.3	19.6	20.4	20.7	22.1	19.3	19.6	20.4	20.7	22.1

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1092.015 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.)