



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L8-835-FW-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #15034137.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 19 SEP 2024
 [TESTDATE] 11/2/2023
 [MANUFAC] H E Williams Inc
 [LUMCAT] MX2D-4-00-L8-835-S-FW-DIM-UNV
 [LUMINAIRE] Long white metal housing with plastic frosted lens
 [LAMP] 144 LEDs
 [BALLAST] eldoLED Optotronic OTI50/120-277/1A4 DIM-1 L G2 #57452
 [OTHER] 24.9 C, 119.981 V, 0.338283 A, 39.9716 W, 0.984824 PF, 60.0072 Hz
 [OTHER] This test was performed using the calibrated photodetector method
 [MORE] of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2766
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	26.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12347	15723	16333
55	11562	14826	14956
65	10627	13783	13519
75	8867	11390	11042
85	5204	6908	6908

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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	570.322	570.322	570.322	570.322	570.322
0.5	579.258	571.488	567.991	569.545	565.660
1.0	579.258	571.488	568.380	569.934	566.049
1.5	578.869	571.099	568.380	570.322	566.437
2.0	578.869	571.099	568.380	570.711	566.826
2.5	578.481	571.099	568.768	571.099	567.603
3.0	578.092	570.711	568.768	571.877	568.380
3.5	577.704	570.322	569.157	572.265	569.157
4.0	577.315	569.934	569.157	573.042	569.934
4.5	576.538	569.545	569.157	573.819	570.711
5.0	575.762	569.157	569.545	574.596	571.488
5.5	574.984	568.768	569.934	575.373	572.653
6.0	574.207	568.380	569.934	576.150	573.430
6.5	573.430	567.603	570.322	576.927	574.596
7.0	572.265	567.214	570.322	577.704	575.762
7.5	571.099	566.437	570.322	578.869	576.927
8.0	570.322	565.660	570.711	579.647	578.481
8.5	568.768	565.272	570.711	580.812	579.647
9.0	567.603	564.495	570.711	581.589	581.200
9.5	566.437	563.718	571.099	582.754	582.366
10.0	564.883	562.552	571.099	583.532	583.532
10.5	563.329	561.775	571.099	584.308	584.697
11.0	561.775	560.610	571.099	585.474	585.862
11.5	560.221	559.444	571.099	586.251	587.417
12.0	558.667	558.667	571.099	587.417	588.193
12.5	556.725	557.502	571.099	588.193	589.747
13.0	554.782	556.336	571.099	588.971	590.913
13.5	552.840	554.782	571.099	589.747	592.078
14.0	550.897	553.617	570.711	590.524	593.244
14.5	548.955	552.062	570.711	591.302	594.409
15.0	546.624	550.897	570.322	592.078	595.187
15.5	544.681	549.343	569.934	592.856	596.352
16.0	542.350	547.789	569.934	593.632	597.517
16.5	540.019	546.235	569.545	594.021	598.294
17.0	537.688	544.681	568.768	594.409	599.072
17.5	535.357	543.127	568.380	594.798	599.848
18.0	533.026	541.573	567.991	595.187	600.237
18.5	530.307	539.631	567.603	595.575	600.626
19.0	527.587	537.688	566.826	595.575	601.014
19.5	524.867	535.746	566.049	595.575	600.626
20.0	522.148	533.803	565.272	595.187	600.626
20.5	519.428	531.861	564.495	594.798	600.237
21.0	516.321	529.918	563.718	594.409	599.848
21.5	513.601	527.587	562.941	594.021	599.072
22.0	510.493	525.256	561.775	593.244	598.294
22.5	507.385	522.925	560.610	592.467	597.906
23.0	504.665	520.594	559.832	591.302	597.129
23.5	501.169	518.263	558.279	590.136	596.352
24.0	498.061	515.543	557.113	589.359	595.575
24.5	494.953	513.212	555.559	588.193	594.409
25.0	491.845	510.493	554.005	587.028	593.244
25.5	488.736	507.773	552.451	585.862	591.690
26.0	485.240	505.054	550.897	584.697	590.524
26.5	481.744	502.334	548.955	583.532	588.971

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CANDELA TABULATION - (Cont.)

27.0	478.636	499.615	547.012	581.977	587.417
27.5	475.139	496.506	545.458	580.423	585.862
28.0	471.642	493.787	543.516	578.869	583.920
28.5	468.146	490.679	541.573	577.315	581.977
29.0	464.650	487.960	539.631	575.373	580.035
29.5	461.153	484.851	537.688	573.430	578.092
30.0	457.268	481.744	535.357	571.099	575.762
30.5	453.771	479.024	533.026	568.768	573.430
31.0	449.886	475.916	530.695	566.049	570.711
31.5	446.001	472.808	528.364	563.329	567.991
32.0	442.505	469.311	526.033	560.610	565.272
32.5	438.620	466.203	523.313	557.890	561.775
33.0	434.735	463.096	520.594	554.782	558.667
33.5	430.850	459.599	517.486	551.674	555.171
34.0	427.353	456.491	514.767	548.177	551.286
34.5	423.468	452.995	511.658	544.681	547.401
35.0	419.583	449.498	508.550	541.185	543.516
35.5	415.698	446.001	505.442	537.300	539.631
36.0	411.425	442.116	501.946	533.415	535.357
36.5	407.540	438.620	498.449	529.530	531.083
37.0	403.655	434.735	494.953	525.644	526.810
37.5	399.770	430.850	491.456	521.371	522.148
38.0	395.496	426.965	487.571	517.097	517.874
38.5	391.611	423.080	483.686	512.824	513.212
39.0	387.337	418.806	480.190	508.550	508.550
39.5	383.181	414.921	476.305	503.888	503.888
40.0	379.101	411.036	472.420	499.227	498.838
40.5	375.061	406.762	468.535	494.564	493.787
41.0	370.865	402.877	464.650	489.902	489.125
41.5	366.902	398.992	460.376	485.240	483.686
42.0	362.745	395.107	456.491	480.578	478.636
42.5	358.627	390.834	452.217	475.527	473.585
43.0	354.470	386.755	447.944	470.477	468.146
43.5	350.430	382.714	443.671	465.426	463.096
44.0	346.389	378.674	439.397	460.376	458.045
44.5	342.154	374.633	434.735	455.714	452.606
45.0	338.036	370.476	430.461	450.275	447.167
45.5	334.035	366.320	425.799	445.224	442.116
46.0	329.761	362.046	421.137	440.174	436.677
46.5	325.682	357.811	416.475	434.735	431.238
47.0	321.447	353.499	411.813	429.684	425.799
47.5	317.252	349.186	406.762	424.245	419.971
48.0	312.939	344.796	402.101	418.806	414.533
48.5	308.588	340.329	397.050	413.367	408.705
49.0	304.470	335.939	392.000	407.928	403.266
49.5	301.634	331.471	387.182	402.101	397.439
50.0	298.253	326.847	382.015	396.661	391.611
50.5	295.107	322.186	376.926	391.222	385.667
51.0	290.872	317.640	371.681	385.239	379.722
51.5	286.598	313.017	366.475	379.451	373.779
52.0	282.325	308.355	361.152	373.584	367.874
52.5	277.974	303.615	355.752	367.834	361.968
53.0	273.662	300.896	350.430	361.968	356.024
53.5	269.427	297.515	345.146	356.179	349.924
54.0	265.192	293.203	339.746	350.352	344.058
54.5	260.918	288.503	334.501	344.524	338.114

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CANDELA TABULATION - (Cont.)

55.0	256.762	283.879	329.256	338.775	332.131
55.5	252.527	279.295	323.934	333.063	326.342
56.0	248.447	274.671	318.844	327.236	320.592
56.5	244.252	270.165	313.560	321.486	314.571
57.0	240.095	265.659	308.199	315.698	308.899
57.5	235.976	261.151	303.071	309.948	303.149
58.0	231.898	256.606	299.536	304.664	299.225
58.5	227.701	252.099	295.340	300.313	294.524
59.0	223.505	247.593	290.173	295.612	289.512
59.5	219.427	243.047	284.811	290.600	283.802
60.0	215.386	238.541	279.450	284.889	278.207
60.5	211.385	233.956	274.050	279.139	272.496
61.0	207.305	229.450	268.650	273.389	266.707
61.5	203.226	224.904	263.288	267.639	260.958
62.0	199.108	220.320	257.966	261.774	255.130
62.5	194.912	215.735	252.527	255.907	249.303
63.0	190.716	211.074	247.127	250.157	243.591
63.5	186.637	206.411	241.766	244.329	237.919
64.0	182.402	201.750	236.326	238.696	232.208
64.5	178.167	197.049	230.926	232.907	226.730
65.0	173.894	192.348	225.526	227.275	221.214
65.5	169.698	187.530	220.009	221.641	215.658
66.0	165.424	182.752	214.492	215.968	210.180
66.5	161.229	177.973	208.898	210.219	204.663
67.0	156.916	173.156	203.304	204.430	199.030
67.5	152.527	168.338	197.670	198.719	193.436
68.0	148.253	163.521	191.960	192.931	187.686
68.5	143.901	158.820	186.326	186.986	181.819
69.0	139.511	153.925	180.538	181.003	175.953
69.5	135.160	149.108	174.710	175.021	170.087
70.0	130.809	144.174	168.960	169.193	164.259
70.5	126.536	139.395	163.171	163.366	158.548
71.0	122.262	134.694	157.499	157.538	152.953
71.5	117.872	129.916	151.866	151.866	147.359
72.0	113.598	125.253	146.310	146.310	141.843
72.5	109.402	120.630	140.794	140.755	136.481
73.0	105.245	116.046	135.355	135.277	131.159
73.5	101.089	111.462	129.954	129.954	125.914
74.0	96.893	106.994	124.671	124.632	120.786
74.5	92.852	102.565	119.387	119.426	115.735
75.0	88.851	98.097	114.142	114.181	110.646
75.5	84.810	93.668	109.014	108.897	105.634
76.0	80.808	89.239	103.808	103.769	100.661
76.5	76.923	84.926	98.758	98.641	95.766
77.0	73.038	80.498	93.668	93.512	90.832
77.5	69.153	76.185	88.578	88.423	85.976
78.0	65.230	71.834	83.606	83.412	81.197
78.5	61.306	67.483	78.633	78.439	76.418
79.0	57.421	63.287	73.777	73.505	71.679
79.5	53.652	59.053	68.959	68.687	67.172
80.0	50.001	54.935	64.297	63.947	62.627
80.5	46.349	50.816	59.674	59.363	58.237
81.0	42.697	46.853	55.128	54.818	53.808
81.5	39.161	43.007	50.700	50.389	49.651
82.0	35.703	39.278	46.349	46.115	45.493
82.5	32.440	35.626	42.153	42.036	41.492

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CANDELA TABULATION - (Cont.)

83.0	29.254	32.129	38.151	38.073	37.607
83.5	26.068	28.788	34.227	34.188	33.838
84.0	23.077	25.563	30.420	30.575	30.186
84.5	20.280	22.456	26.768	26.962	26.612
85.0	17.560	19.542	23.310	23.543	23.310
85.5	14.957	16.744	20.008	20.280	20.163
86.0	12.549	14.103	16.822	17.211	17.133
86.5	10.334	11.616	13.908	14.336	14.219
87.0	8.275	9.285	11.189	11.655	11.616
87.5	6.371	7.149	8.703	9.207	9.169
88.0	4.662	5.245	6.488	6.993	6.993
88.5	3.186	3.574	4.546	4.973	5.089
89.0	1.904	2.215	2.914	3.341	3.419
89.5	0.932	1.166	1.670	2.059	2.137
90.0	0.388	0.544	0.855	1.166	1.243
90.5	0.194	0.272	0.428	0.583	0.661
91.0	0.194	0.194	0.272	0.311	0.350
91.5	0.194	0.194	0.233	0.233	0.233
92.0	0.194	0.194	0.194	0.194	0.194
92.5	0.194	0.194	0.194	0.194	0.194
93.0	0.194	0.194	0.194	0.194	0.194
93.5	0.194	0.194	0.194	0.194	0.194
94.0	0.155	0.194	0.194	0.194	0.194
94.5	0.155	0.155	0.194	0.194	0.194
95.0	0.155	0.155	0.194	0.155	0.155
95.5	0.155	0.155	0.155	0.155	0.155
96.0	0.155	0.155	0.155	0.155	0.155
96.5	0.155	0.155	0.155	0.155	0.155
97.0	0.155	0.155	0.155	0.155	0.155
97.5	0.155	0.155	0.155	0.155	0.155
98.0	0.155	0.155	0.155	0.155	0.155
98.5	0.155	0.155	0.155	0.155	0.155
99.0	0.155	0.155	0.155	0.155	0.155
99.5	0.117	0.155	0.155	0.155	0.155
100.0	0.117	0.155	0.155	0.155	0.155
100.5	0.117	0.155	0.155	0.155	0.155
101.0	0.117	0.155	0.155	0.155	0.155
101.5	0.117	0.117	0.155	0.155	0.155
102.0	0.117	0.117	0.155	0.155	0.155
102.5	0.117	0.117	0.155	0.155	0.155
103.0	0.117	0.117	0.155	0.155	0.155
103.5	0.117	0.117	0.117	0.155	0.117
104.0	0.117	0.117	0.117	0.117	0.155
104.5	0.117	0.117	0.155	0.155	0.155
105.0	0.117	0.117	0.117	0.155	0.117
105.5	0.117	0.117	0.117	0.117	0.117
106.0	0.117	0.117	0.117	0.155	0.117
106.5	0.117	0.117	0.117	0.117	0.155
107.0	0.117	0.117	0.117	0.155	0.117
107.5	0.117	0.117	0.117	0.117	0.117
108.0	0.117	0.117	0.117	0.155	0.155
108.5	0.117	0.117	0.155	0.155	0.155
109.0	0.117	0.117	0.155	0.155	0.155
109.5	0.117	0.117	0.117	0.155	0.155
110.0	0.117	0.117	0.155	0.155	0.155
110.5	0.117	0.117	0.155	0.155	0.155

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CANDELA TABULATION - (Cont.)

111.0	0.117	0.117	0.155	0.155	0.155
111.5	0.117	0.117	0.155	0.155	0.155
112.0	0.117	0.117	0.155	0.155	0.155
112.5	0.117	0.155	0.155	0.155	0.155
113.0	0.117	0.155	0.155	0.155	0.155
113.5	0.117	0.155	0.155	0.155	0.155
114.0	0.155	0.155	0.155	0.155	0.155
114.5	0.155	0.155	0.155	0.155	0.155
115.0	0.155	0.155	0.155	0.155	0.155
115.5	0.155	0.155	0.155	0.194	0.155
116.0	0.155	0.155	0.194	0.194	0.194
116.5	0.155	0.155	0.194	0.194	0.194
117.0	0.155	0.155	0.194	0.194	0.194
117.5	0.155	0.194	0.194	0.194	0.194
118.0	0.155	0.194	0.194	0.194	0.194
118.5	0.194	0.194	0.194	0.194	0.194
119.0	0.194	0.194	0.194	0.233	0.233
119.5	0.194	0.194	0.233	0.233	0.233
120.0	0.194	0.194	0.233	0.233	0.233
120.5	0.194	0.194	0.233	0.233	0.233
121.0	0.194	0.233	0.233	0.233	0.233
121.5	0.194	0.233	0.233	0.233	0.233
122.0	0.233	0.233	0.233	0.272	0.272
122.5	0.233	0.233	0.272	0.272	0.272
123.0	0.233	0.233	0.272	0.272	0.272
123.5	0.233	0.233	0.272	0.272	0.272
124.0	0.233	0.272	0.272	0.311	0.311
124.5	0.233	0.272	0.272	0.311	0.311
125.0	0.272	0.272	0.311	0.311	0.311
125.5	0.272	0.272	0.311	0.311	0.311
126.0	0.272	0.272	0.311	0.311	0.311
126.5	0.272	0.311	0.311	0.350	0.350
127.0	0.311	0.311	0.350	0.350	0.350
127.5	0.311	0.311	0.350	0.350	0.350
128.0	0.311	0.311	0.350	0.350	0.350
128.5	0.311	0.311	0.350	0.388	0.388
129.0	0.311	0.350	0.350	0.388	0.388
129.5	0.350	0.350	0.388	0.388	0.388
130.0	0.350	0.350	0.388	0.388	0.388
130.5	0.350	0.350	0.388	0.428	0.428
131.0	0.350	0.350	0.388	0.428	0.428
131.5	0.350	0.388	0.428	0.428	0.428
132.0	0.388	0.388	0.428	0.428	0.466
132.5	0.388	0.388	0.428	0.466	0.466
133.0	0.388	0.388	0.428	0.466	0.466
133.5	0.388	0.428	0.466	0.466	0.466
134.0	0.428	0.428	0.466	0.466	0.466
134.5	0.428	0.428	0.466	0.505	0.505
135.0	0.428	0.428	0.466	0.505	0.505
135.5	0.428	0.466	0.466	0.505	0.505
136.0	0.466	0.466	0.505	0.505	0.505
136.5	0.466	0.466	0.505	0.544	0.544
137.0	0.466	0.466	0.505	0.544	0.544
137.5	0.466	0.505	0.505	0.544	0.544
138.0	0.466	0.505	0.544	0.544	0.544
138.5	0.505	0.505	0.544	0.544	0.583

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CANDELA TABULATION - (Cont.)

139.0	0.505	0.505	0.544	0.583	0.583
139.5	0.505	0.505	0.544	0.583	0.583
140.0	0.505	0.544	0.544	0.583	0.583
140.5	0.544	0.544	0.583	0.583	0.583
141.0	0.544	0.544	0.583	0.583	0.621
141.5	0.544	0.544	0.583	0.621	0.621
142.0	0.544	0.583	0.583	0.621	0.621
142.5	0.583	0.583	0.583	0.621	0.621
143.0	0.583	0.583	0.621	0.621	0.661
143.5	0.583	0.583	0.621	0.661	0.661
144.0	0.583	0.583	0.621	0.661	0.661
144.5	0.583	0.621	0.621	0.661	0.661
145.0	0.621	0.621	0.661	0.661	0.661
145.5	0.621	0.621	0.661	0.661	0.661
146.0	0.621	0.621	0.661	0.699	0.699
146.5	0.621	0.621	0.661	0.699	0.699
147.0	0.661	0.661	0.661	0.699	0.699
147.5	0.661	0.661	0.699	0.699	0.699
148.0	0.661	0.661	0.699	0.699	0.699
148.5	0.661	0.661	0.699	0.738	0.738
149.0	0.661	0.699	0.699	0.738	0.738
149.5	0.699	0.699	0.699	0.738	0.738
150.0	0.699	0.699	0.738	0.738	0.738
150.5	0.699	0.699	0.738	0.738	0.738
151.0	0.699	0.699	0.738	0.738	0.738
151.5	0.699	0.699	0.738	0.777	0.777
152.0	0.699	0.738	0.738	0.777	0.777
152.5	0.738	0.738	0.738	0.777	0.777
153.0	0.738	0.738	0.777	0.777	0.777
153.5	0.738	0.738	0.777	0.777	0.777
154.0	0.738	0.738	0.777	0.777	0.777
154.5	0.738	0.738	0.777	0.777	0.777
155.0	0.738	0.777	0.777	0.777	0.777
155.5	0.777	0.777	0.777	0.816	0.816
156.0	0.777	0.777	0.777	0.816	0.816
156.5	0.777	0.777	0.777	0.816	0.816
157.0	0.777	0.777	0.777	0.816	0.816
157.5	0.777	0.777	0.816	0.816	0.816
158.0	0.777	0.777	0.816	0.816	0.816
158.5	0.777	0.816	0.816	0.816	0.816
159.0	0.816	0.816	0.816	0.816	0.816
159.5	0.816	0.816	0.816	0.816	0.816
160.0	0.816	0.816	0.816	0.816	0.816
160.5	0.816	0.816	0.816	0.816	0.816
161.0	0.816	0.816	0.816	0.855	0.816
161.5	0.816	0.816	0.816	0.855	0.855
162.0	0.816	0.816	0.816	0.855	0.855
162.5	0.855	0.816	0.816	0.855	0.855
163.0	0.855	0.816	0.816	0.855	0.855
163.5	0.855	0.816	0.855	0.855	0.855
164.0	0.855	0.816	0.855	0.855	0.855
164.5	0.855	0.816	0.855	0.855	0.855
165.0	0.855	0.855	0.855	0.855	0.855
165.5	0.855	0.855	0.855	0.855	0.855
166.0	0.855	0.855	0.855	0.855	0.894
166.5	0.855	0.855	0.855	0.855	0.894

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	0.855	0.855	0.855	0.894	0.894
167.5	0.855	0.855	0.855	0.894	0.894
168.0	0.894	0.855	0.855	0.894	0.894
168.5	0.894	0.855	0.855	0.894	0.894
169.0	0.894	0.855	0.894	0.894	0.894
169.5	0.894	0.855	0.894	0.894	0.894
170.0	0.894	0.894	0.894	0.894	0.894
170.5	0.894	0.894	0.894	0.894	0.894
171.0	0.894	0.894	0.894	0.894	0.894
171.5	0.894	0.894	0.894	0.894	0.894
172.0	0.894	0.894	0.894	0.894	0.894
172.5	0.894	0.894	0.894	0.894	0.932
173.0	0.894	0.894	0.894	0.894	0.932
173.5	0.894	0.894	0.894	0.894	0.932
174.0	0.894	0.894	0.894	0.894	0.932
174.5	0.894	0.894	0.894	0.894	0.932
175.0	0.894	0.894	0.894	0.894	0.932
175.5	0.894	0.894	0.894	0.894	0.932
176.0	0.894	0.894	0.894	0.932	0.932
176.5	0.894	0.894	0.894	0.932	0.932
177.0	0.894	0.894	0.894	0.932	0.932
177.5	0.894	0.894	0.894	0.932	0.932
178.0	0.894	0.894	0.894	0.932	0.932
178.5	0.894	0.894	0.932	0.932	0.932
179.0	0.894	0.894	0.932	0.932	0.932
179.5	0.894	0.894	0.932	0.932	0.932
180.0	0.932	0.932	0.932	0.932	0.932

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	346.75	N.A.	12.50
0-30	752.39	N.A.	27.20
0-40	1248.46	N.A.	45.10
0-60	2204.03	N.A.	79.70
0-80	2719.3	N.A.	98.30
0-90	2762.02	N.A.	99.90
10-90	2674.4	N.A.	96.70
20-40	901.70	N.A.	32.60
20-50	1409.81	N.A.	51.00
40-70	1289.56	N.A.	46.60
60-80	515.28	N.A.	18.60
70-80	181.29	N.A.	6.60
80-90	42.72	N.A.	1.50
90-110	0.59	N.A.	0.00
90-120	0.85	N.A.	0.00
90-130	1.27	N.A.	0.00
90-150	2.50	N.A.	0.10
90-180	3.59	N.A.	0.10
110-180	3.00	N.A.	0.10
0-180	2765.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.63
10-20	259.13
20-30	405.64
30-40	496.06
40-50	508.10
50-60	447.46
60-70	333.99
70-80	181.29
80-90	42.72
90-100	0.36
100-110	0.23
110-120	0.27
120-130	0.42
130-140	0.58
140-150	0.64
150-160	0.57
160-170	0.39
170-180	0.14

IES INDOOR REPORT
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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	105	105	105	105	102	102	102	102	98	98	98	94	94	94	90	90	90	88
1	96	92	88	85	93	90	86	83	86	83	81	82	80	78	79	77	76	74
2	87	80	74	69	85	78	73	68	75	71	67	72	68	65	70	66	64	62
3	79	70	63	57	77	69	62	57	66	60	56	64	59	55	61	57	54	52
4	73	62	54	49	71	61	54	48	59	52	47	57	51	47	55	50	46	44
5	67	56	48	42	65	55	47	41	53	46	41	51	45	41	49	44	40	38
6	62	50	42	36	60	49	42	36	47	41	36	46	40	36	45	39	35	33
7	57	45	38	32	56	45	37	32	43	37	32	42	36	31	41	35	31	29
8	53	41	34	29	52	41	33	28	39	33	28	38	32	28	37	32	28	26
9	50	38	31	26	48	37	30	26	36	30	25	35	29	25	34	29	25	24
10	47	35	28	23	45	34	28	23	34	27	23	33	27	23	32	27	23	21

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	21.0	22.6	21.4	22.9	23.3	22.3	23.9	22.7	24.2	24.5
	3H	22.7	24.1	23.1	24.5	24.8	24.0	25.5	24.4	25.8	26.2
	4H	23.2	24.6	23.6	25.0	25.4	24.6	26.0	25.0	26.3	26.7
	6H	23.6	24.9	24.0	25.3	25.7	25.0	26.3	25.4	26.6	27.0
	8H	23.7	25.0	24.2	25.4	25.7	25.1	26.3	25.5	26.7	27.1
	12H	23.8	25.0	24.2	25.3	25.8	25.1	26.3	25.6	26.7	27.1

UGR Viewed Endwise

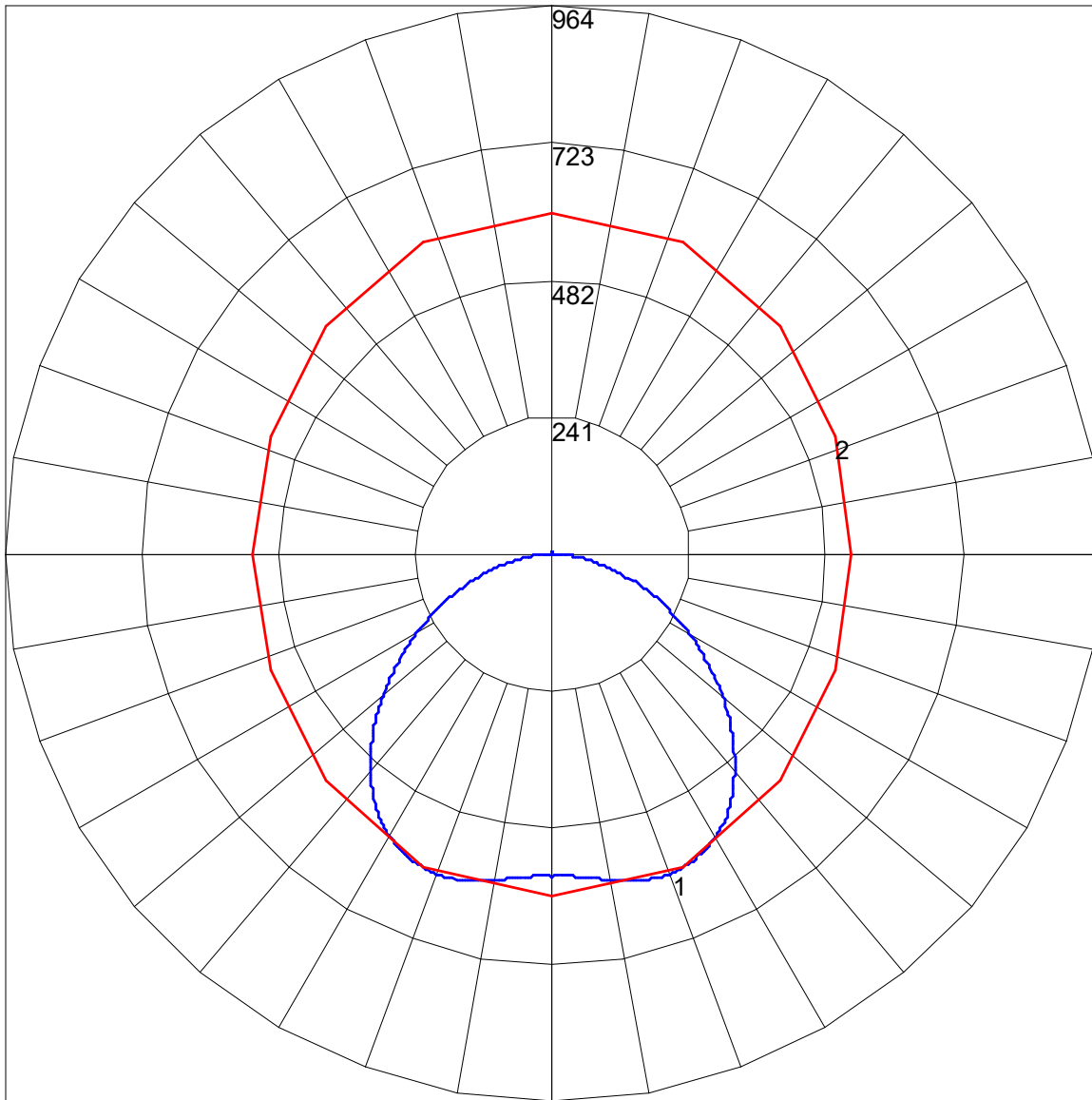
4H	2H	21.9	23.3	22.3	23.7	24.0	22.9	24.3	23.3	24.6	25.0
	3H	23.8	24.9	24.2	25.3	25.7	24.8	26.0	25.2	26.4	26.8
	4H	24.4	25.5	24.9	25.9	26.3	25.5	26.6	26.0	27.0	27.4
	6H	24.9	25.8	25.4	26.3	26.7	26.0	27.0	26.5	27.4	27.9
	8H	25.1	25.9	25.5	26.4	26.8	26.2	27.0	26.7	27.5	28.0
	12H	25.1	25.9	25.6	26.4	26.8	26.3	27.0	26.8	27.5	28.0

8H	4H	24.8	25.7	25.3	26.1	26.6	25.8	26.6	26.3	27.1	27.6
	6H	25.4	26.1	25.9	26.6	27.1	26.4	27.1	26.9	27.6	28.1
	8H	25.6	26.2	26.1	26.8	27.2	26.6	27.2	27.1	27.8	28.2
	12H	25.7	26.3	26.2	26.8	27.3	26.8	27.3	27.3	27.8	28.4

12H	4H	24.9	25.6	25.4	26.1	26.6	25.8	26.6	26.3	27.1	27.5
	6H	25.5	26.1	26.0	26.6	27.1	26.5	27.1	27.0	27.6	28.1
	8H	25.7	26.3	26.2	26.8	27.3	26.7	27.3	27.2	27.7	28.3

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 964.245 Located At Horizontal Angle = 90, Vertical Angle = 19
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (19) (Through Max. Cd.)