



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LRX2-2-L8-927-DMA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 14853501.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 2023-07-25  
 [TESTDATE] 6/19/2023  
 [MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] LRX2-2-L8-927-DMA-DIM-UNV  
 [LUMINAIRE] 2 INCH WIDE, LINEAR RECESSED LED LUMINAIRE  
 [MORE] W/DIFFUSED MATTE ACRYLIC LENS  
 [LAMP] LED  
 [BALLAST] 0-10V DIMMING DRIVER  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] INDOOR, CLASSROOM, COMMERCIAL, OFFICE  
 [\_SEARCH\_MOUNTING] RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	14949	12895	11762
55	13326	11332	10374
65	11748	9989	9195
75	9690	8504	7925
85	7310	6820	6571

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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	567.106	567.106	567.106	567.106	567.106
0.5	577.104	567.571	564.316	565.711	562.921
1.0	577.104	567.339	564.316	565.711	562.688
1.5	576.872	567.339	564.084	565.479	562.456
2.0	576.639	566.874	563.619	565.246	561.758
2.5	576.407	566.409	563.386	564.549	561.293
3.0	575.942	565.944	562.688	564.084	560.363
3.5	575.477	565.479	561.991	563.154	559.433
4.0	575.012	565.014	561.293	562.456	558.736
4.5	574.547	564.316	560.596	561.526	557.573
5.0	574.082	563.619	559.433	560.363	556.411
5.5	573.152	562.688	558.503	558.968	554.783
6.0	572.454	561.758	557.341	557.806	553.388
6.5	571.757	561.061	556.178	556.178	551.760
7.0	570.827	559.898	555.015	554.550	550.133
7.5	569.896	558.968	553.620	552.923	548.272
8.0	568.966	557.573	552.225	551.063	546.645
8.5	567.804	556.411	550.598	549.203	544.552
9.0	566.641	555.248	548.970	547.110	542.460
9.5	565.479	553.853	547.110	544.785	540.134
10.0	564.316	552.458	545.250	542.692	538.042
10.5	562.921	551.063	543.390	540.367	535.252
11.0	561.526	549.435	541.297	538.042	532.694
11.5	559.898	547.807	539.204	535.484	530.136
12.0	558.271	545.947	536.879	532.926	527.346
12.5	556.876	544.087	534.554	530.136	524.323
13.0	555.015	542.227	532.229	527.346	521.533
13.5	553.155	540.134	529.671	524.323	518.510
14.0	551.528	538.042	527.346	521.533	515.488
14.5	549.435	535.949	524.556	518.510	512.233
15.0	547.575	533.857	521.998	515.255	509.210
15.5	545.482	531.531	518.975	512.000	505.722
16.0	543.855	529.439	516.185	508.745	502.234
16.5	542.227	527.114	513.163	505.257	498.747
17.0	540.134	524.788	510.140	501.769	495.259
17.5	537.112	522.463	507.117	498.282	491.539
18.0	534.322	520.371	504.094	494.561	487.586
18.5	531.531	517.580	500.839	490.841	483.633
19.0	529.206	514.558	497.584	486.888	479.680
19.5	526.649	511.535	494.329	482.936	475.495
20.0	524.091	508.512	490.841	479.215	471.077
20.5	521.301	505.490	487.586	475.263	466.892
21.0	518.510	502.699	484.098	471.077	462.474
21.5	515.720	499.677	480.610	467.124	458.289
22.0	512.698	496.421	476.890	462.939	453.871
22.5	509.907	493.399	473.402	458.521	449.686
23.0	506.652	490.144	470.147	454.336	445.500
23.5	503.629	486.656	466.427	450.151	441.083
24.0	500.374	483.401	462.242	445.965	436.897
24.5	497.119	479.913	458.289	441.780	432.480
25.0	493.864	476.658	454.104	437.362	428.062
25.5	490.609	472.937	450.151	433.177	423.644
26.0	487.121	469.450	445.965	428.759	419.459
26.5	483.866	465.729	442.013	424.574	415.273

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**CANDELA TABULATION - (Cont.)**

27.0	480.145	462.242	437.827	420.389	410.856
27.5	476.658	458.289	433.875	416.203	406.205
28.0	473.170	454.569	429.689	412.018	402.020
28.5	469.682	450.848	425.504	407.600	397.835
29.0	465.962	446.896	421.551	403.183	393.649
29.5	462.009	442.943	417.366	398.765	389.464
30.0	458.289	438.990	413.181	394.579	385.046
30.5	454.336	435.270	409.228	390.394	380.629
31.0	450.383	431.317	405.043	385.976	376.211
31.5	446.198	427.132	400.625	381.559	372.025
32.0	442.245	423.179	396.440	377.141	367.608
32.5	438.060	418.994	392.254	372.723	363.190
33.0	434.107	414.808	387.837	368.305	358.772
33.5	429.922	410.623	383.651	364.120	354.354
34.0	425.737	406.438	379.466	359.702	349.936
34.5	421.784	402.020	374.816	355.284	345.519
35.0	417.599	397.835	370.630	350.634	341.101
35.5	413.413	393.417	366.213	346.216	336.916
36.0	408.995	389.232	362.027	342.031	332.498
36.5	404.810	384.814	357.609	337.613	328.312
37.0	400.625	380.396	353.192	332.963	323.895
37.5	396.207	375.978	348.774	328.777	319.942
38.0	392.022	371.560	344.356	324.360	315.524
38.5	387.604	367.143	340.171	320.174	311.339
39.0	383.186	362.725	335.520	315.757	307.154
39.5	378.768	358.307	331.103	311.571	302.968
40.0	374.118	353.889	326.685	307.154	298.783
40.5	369.468	349.471	322.267	303.201	294.830
41.0	365.050	345.054	317.849	299.015	290.412
41.5	360.400	340.403	313.431	294.830	286.227
42.0	355.749	335.985	309.246	290.412	282.274
42.5	351.332	331.335	304.828	286.227	278.089
43.0	346.681	326.917	300.643	282.274	274.136
43.5	342.031	322.267	295.993	278.322	270.183
44.0	337.381	317.849	291.807	274.136	266.231
44.5	332.730	313.431	287.390	269.951	262.278
45.0	328.312	308.781	283.204	265.998	258.325
45.5	323.662	304.363	279.019	262.045	254.372
46.0	319.012	299.946	274.834	258.093	250.652
46.5	314.594	295.295	270.416	254.140	246.699
47.0	309.944	290.877	266.231	250.187	242.979
47.5	305.526	286.460	262.278	246.002	239.259
48.0	300.876	282.042	258.093	242.282	235.306
48.5	296.225	277.624	254.140	238.329	231.725
49.0	291.807	272.974	249.722	234.609	227.982
49.5	287.157	268.556	245.769	230.633	224.238
50.0	282.739	264.371	241.584	226.750	220.495
50.5	278.089	259.953	237.631	223.076	216.937
51.0	273.671	255.535	233.446	219.472	213.403
51.5	269.021	251.117	229.516	215.798	209.543
52.0	264.603	246.932	225.424	212.008	205.916
52.5	259.953	242.514	221.378	208.218	202.428
53.0	255.535	238.329	217.379	204.474	198.708
53.5	250.885	234.144	213.566	200.963	195.337
54.0	246.467	229.749	209.706	197.499	191.779
54.5	242.049	225.447	205.777	193.942	188.291

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**CANDELA TABULATION - (Cont.)**

55.0	237.399	221.239	201.870	190.268	184.804
55.5	232.981	217.077	198.080	186.548	181.246
56.0	228.540	212.938	194.383	182.967	177.875
56.5	224.192	208.846	190.617	179.595	174.526
57.0	219.821	204.707	186.896	176.270	171.318
57.5	215.542	200.661	183.292	172.759	167.993
58.0	211.287	196.685	179.619	169.179	164.575
58.5	207.172	192.709	175.875	165.668	161.250
59.0	202.963	188.849	172.155	162.273	158.134
59.5	198.824	184.990	168.528	158.948	154.925
60.0	194.662	181.176	165.040	155.716	151.624
60.5	190.617	177.363	161.599	152.461	148.392
61.0	186.594	173.527	158.111	149.136	145.276
61.5	182.548	169.690	154.484	145.787	142.067
62.0	178.502	165.970	150.949	142.486	138.858
62.5	174.480	162.296	147.601	139.300	135.743
63.0	170.434	158.553	144.392	136.185	132.697
63.5	166.365	154.832	141.184	133.255	129.651
64.0	162.319	151.089	137.882	130.325	126.605
64.5	158.274	147.369	134.464	127.163	123.629
65.0	154.205	143.695	131.116	123.861	120.699
65.5	150.159	139.998	127.954	120.885	117.816
66.0	146.136	136.301	124.861	118.211	115.049
66.5	142.090	132.627	121.722	115.467	112.235
67.0	138.068	129.000	118.444	112.491	109.352
67.5	134.069	125.396	115.142	109.282	106.423
68.0	130.069	121.745	111.840	105.981	103.423
68.5	126.117	118.118	108.562	102.912	100.447
69.0	122.210	114.491	105.446	100.052	97.564
69.5	118.304	110.957	102.377	97.215	94.657
70.0	114.421	107.422	99.122	94.099	91.588
70.5	110.608	103.865	95.797	90.751	88.542
71.0	106.771	100.307	92.518	87.542	85.543
71.5	103.005	96.796	89.309	84.659	82.636
72.0	99.261	93.402	86.240	81.985	79.823
72.5	95.564	90.053	83.287	79.218	77.126
73.0	91.937	86.728	80.288	76.265	74.382
73.5	88.333	83.380	77.195	73.312	71.545
74.0	84.799	80.078	74.103	70.476	68.848
74.5	81.311	76.847	71.173	67.802	66.314
75.0	77.893	73.708	68.360	65.174	63.709
75.5	74.521	70.592	65.593	62.524	61.035
76.0	71.196	67.499	62.756	59.896	58.501
76.5	67.918	64.384	59.943	57.199	56.013
77.0	64.663	61.338	57.106	54.548	53.432
77.5	61.477	58.338	54.409	51.944	50.805
78.0	58.292	55.362	51.781	49.410	48.317
78.5	55.153	52.432	49.154	46.898	45.945
79.0	52.107	49.572	46.526	44.434	43.597
79.5	49.084	46.759	43.946	42.016	41.272
80.0	46.131	43.992	41.434	39.597	38.923
80.5	43.201	41.272	38.946	37.203	36.528
81.0	40.365	38.598	36.435	34.854	34.180
81.5	37.598	35.993	34.017	32.575	31.948
82.0	34.877	33.482	31.715	30.390	29.809
82.5	32.227	31.018	29.437	28.274	27.739

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**CANDELA TABULATION - (Cont.)**

83.0	29.623	28.576	27.204	26.135	25.716
83.5	27.065	26.158	24.949	24.019	23.693
84.0	24.577	23.833	22.694	21.926	21.624
84.5	22.159	21.554	20.508	19.880	19.624
85.0	19.787	19.322	18.462	17.904	17.787
85.5	17.462	17.113	16.462	16.044	16.067
86.0	15.207	14.928	14.509	14.323	14.323
86.5	13.021	12.835	12.556	12.509	12.556
87.0	10.882	10.812	10.649	10.649	10.719
87.5	8.836	8.766	8.789	8.905	8.952
88.0	6.859	6.906	7.115	7.278	7.348
88.5	5.022	5.185	5.580	5.627	5.673
89.0	3.395	3.650	3.883	3.511	3.488
89.5	2.348	2.418	1.814	1.721	1.907
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : LRX2-2-L8-927-DMA-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LRX2-2-L8-927-DMA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	200.80	N.A.	15.70
0-30	411.09	N.A.	32.10
0-40	645.22	N.A.	50.40
0-60	1052.01	N.A.	82.20
0-80	1258.85	N.A.	98.30
0-90	1280.04	N.A.	100.00
10-90	1226.83	N.A.	95.80
20-40	444.42	N.A.	34.70
20-50	666.59	N.A.	52.10
40-70	539.71	N.A.	42.20
60-80	206.84	N.A.	16.20
70-80	73.92	N.A.	5.80
80-90	21.19	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1280.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	53.20
10-20	147.59
20-30	210.29
30-40	234.13
40-50	222.17
50-60	184.63
60-70	132.92
70-80	73.92
80-90	21.19
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

**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	20.8	22.4	21.2	22.7	23.0	19.7	21.2	20.0	21.6	21.9
	3H	22.5	24.0	22.9	24.3	24.7	21.3	22.8	21.7	23.1	23.4
	4H	23.2	24.5	23.6	24.8	25.2	21.9	23.3	22.3	23.6	24.0
	6H	23.6	24.8	24.0	25.2	25.6	22.4	23.6	22.8	24.0	24.4
	8H	23.8	24.9	24.2	25.3	25.7	22.6	23.7	23.0	24.1	24.5
	12H	23.8	25.0	24.3	25.4	25.8	22.7	23.8	23.1	24.2	24.6

UGR Viewed Endwise

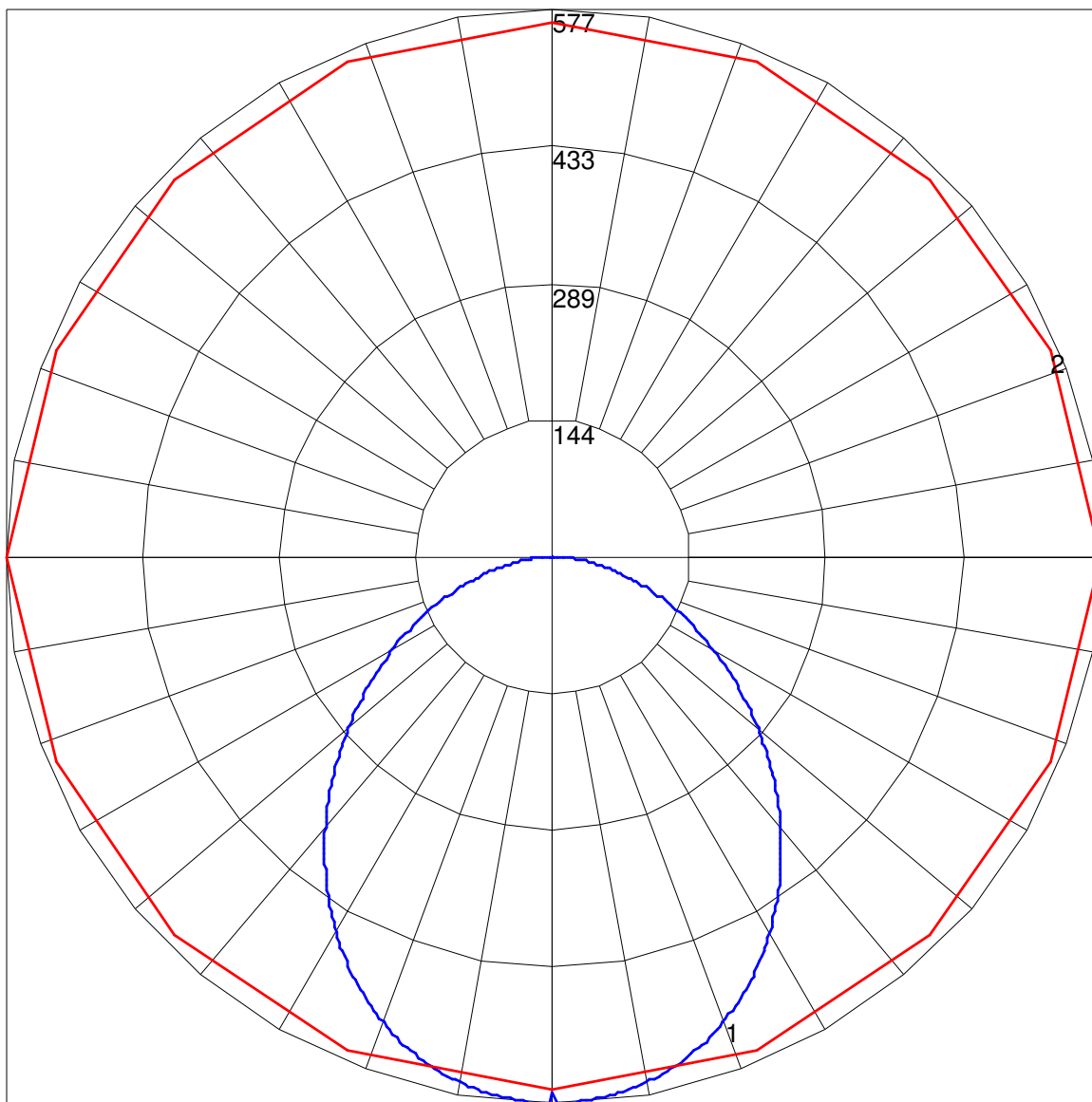
4H	2H	21.3	22.6	21.7	23.0	23.3	20.3	21.7	20.7	22.0	22.4
	3H	23.2	24.3	23.6	24.7	25.1	22.2	23.3	22.6	23.7	24.1
	4H	24.0	25.0	24.4	25.4	25.8	23.0	24.0	23.4	24.4	24.8
	6H	24.6	25.4	25.0	25.9	26.3	23.5	24.4	24.0	24.9	25.3
	8H	24.8	25.6	25.2	26.0	26.5	23.7	24.6	24.2	25.0	25.5
	12H	24.9	25.6	25.4	26.1	26.6	23.9	24.6	24.4	25.1	25.6

8H	4H	24.2	25.0	24.7	25.4	25.9	23.3	24.1	23.8	24.5	25.0
	6H	24.9	25.6	25.4	26.1	26.5	24.0	24.7	24.5	25.2	25.6
	8H	25.1	25.8	25.6	26.3	26.8	24.2	24.9	24.8	25.4	25.9
	12H	25.4	25.9	25.9	26.4	27.0	24.5	25.0	25.0	25.5	26.1

12H	4H	24.2	24.9	24.7	25.4	25.9	23.3	24.1	23.8	24.5	25.0
	6H	24.9	25.5	25.4	26.0	26.5	24.1	24.7	24.6	25.1	25.7
	8H	25.2	25.8	25.7	26.3	26.8	24.4	24.9	24.9	25.4	26.0

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 577.104 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.)