



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LRX2-2-L8-835-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-L8-835-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	1600
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	18687	16119	14703
55	16658	14165	12967
65	14685	12486	11494
75	12112	10630	9907
85	9137	8525	8214

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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	708.883	708.883	708.883	708.883	708.883
0.5	721.381	709.464	705.395	707.139	703.651
1.0	721.381	709.174	705.395	707.139	703.361
1.5	721.090	709.174	705.105	706.848	703.070
2.0	720.799	708.592	704.523	706.558	702.198
2.5	720.509	708.011	704.233	705.686	701.617
3.0	719.927	707.430	703.361	705.105	700.454
3.5	719.346	706.848	702.489	703.942	699.292
4.0	718.765	706.267	701.617	703.070	698.420
4.5	718.184	705.395	700.745	701.907	696.967
5.0	717.602	704.523	699.292	700.454	695.513
5.5	716.440	703.361	698.129	698.710	693.479
6.0	715.568	702.198	696.676	697.257	691.735
6.5	714.696	701.326	695.223	695.223	689.700
7.0	713.533	699.873	693.769	693.188	687.666
7.5	712.371	698.710	692.026	691.154	685.341
8.0	711.208	696.967	690.282	688.828	683.306
8.5	709.755	695.513	688.247	686.503	680.690
9.0	708.302	694.060	686.213	683.887	678.075
9.5	706.848	692.316	683.887	680.981	675.168
10.0	705.395	690.572	681.562	678.365	672.552
10.5	703.651	688.828	679.237	675.459	669.065
11.0	701.907	686.794	676.621	672.552	665.867
11.5	699.873	684.759	674.006	669.355	662.670
12.0	697.838	682.434	671.099	666.158	659.183
12.5	696.095	680.109	668.193	662.670	655.404
13.0	693.769	677.784	665.286	659.183	651.917
13.5	691.444	675.168	662.089	655.404	648.138
14.0	689.410	672.552	659.183	651.917	644.360
14.5	686.794	669.937	655.695	648.138	640.291
15.0	684.469	667.321	652.498	644.069	636.512
15.5	681.853	664.414	648.719	640.000	632.153
16.0	679.818	661.798	645.232	635.931	627.793
16.5	677.784	658.892	641.453	631.571	623.433
17.0	675.168	655.986	637.675	627.212	619.074
17.5	671.390	653.079	633.897	622.852	614.423
18.0	667.902	650.463	630.118	618.202	609.482
18.5	664.414	646.976	626.049	613.551	604.541
19.0	661.508	643.197	621.980	608.610	599.600
19.5	658.311	639.419	617.911	603.669	594.369
20.0	655.114	635.640	613.551	599.019	588.847
20.5	651.626	631.862	609.482	594.078	583.615
21.0	648.138	628.374	605.123	588.847	578.093
21.5	644.650	624.596	600.763	583.906	572.861
22.0	640.872	620.527	596.113	578.674	567.339
22.5	637.384	616.749	591.753	573.152	562.107
23.0	633.315	612.679	587.684	567.920	556.876
23.5	629.537	608.320	583.034	562.689	551.353
24.0	625.468	604.251	577.802	557.457	546.122
24.5	621.399	599.891	572.861	552.225	540.600
25.0	617.330	595.822	567.630	546.703	535.077
25.5	613.261	591.172	562.689	541.471	529.555
26.0	608.901	586.812	557.457	535.949	524.323
26.5	604.832	582.162	552.516	530.718	519.092

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**CANDELA TABULATION - (Cont.)**

27.0	600.182	577.802	547.284	525.486	513.570
27.5	595.822	572.861	542.343	520.254	507.757
28.0	591.462	568.211	537.112	515.023	502.525
28.5	587.103	563.560	531.880	509.501	497.293
29.0	582.452	558.620	526.939	503.978	492.062
29.5	577.511	553.679	521.708	498.456	486.830
30.0	572.861	548.738	516.476	493.224	481.308
30.5	567.920	544.087	511.535	487.993	475.786
31.0	562.979	539.146	506.303	482.471	470.263
31.5	557.748	533.915	500.781	476.948	465.032
32.0	552.807	528.974	495.550	471.426	459.510
32.5	547.575	523.742	490.318	465.904	453.987
33.0	542.634	518.511	484.796	460.382	448.465
33.5	537.402	513.279	479.564	455.150	442.943
34.0	532.171	508.047	474.332	449.628	437.421
34.5	527.230	502.525	468.520	444.105	431.898
35.0	521.998	497.293	463.288	438.293	426.376
35.5	516.767	491.771	457.766	432.770	421.144
36.0	511.244	486.540	452.534	427.539	415.622
36.5	506.013	481.017	447.012	422.016	410.391
37.0	500.781	475.495	441.490	416.204	404.868
37.5	495.259	469.973	435.967	410.972	399.927
38.0	490.027	464.451	430.445	405.450	394.405
38.5	484.505	458.928	425.214	400.218	389.174
39.0	478.983	453.406	419.401	394.696	383.942
39.5	473.461	447.884	413.878	389.464	378.710
40.0	467.648	442.362	408.356	383.942	373.479
40.5	461.835	436.839	402.834	379.001	368.538
41.0	456.313	431.317	397.312	373.769	363.015
41.5	450.500	425.504	391.789	368.538	357.784
42.0	444.687	419.982	386.558	363.015	352.843
42.5	439.164	414.169	381.035	357.784	347.611
43.0	433.352	408.647	375.804	352.843	342.670
43.5	427.539	402.834	369.991	347.902	337.729
44.0	421.726	397.312	364.759	342.670	332.788
44.5	415.913	391.789	359.237	337.439	327.847
45.0	410.391	385.976	354.006	332.498	322.906
45.5	404.578	380.454	348.774	327.557	317.966
46.0	398.765	374.932	343.542	322.616	313.315
46.5	393.243	369.119	338.020	317.675	308.374
47.0	387.430	363.597	332.788	312.734	303.724
47.5	381.907	358.075	327.847	307.502	299.074
48.0	376.095	352.552	322.616	302.852	294.133
48.5	370.282	347.030	317.675	297.911	289.657
49.0	364.759	341.217	312.153	293.261	284.977
49.5	358.946	335.695	307.212	288.291	280.298
50.0	353.424	330.463	301.980	283.437	275.619
50.5	347.611	324.941	297.039	278.845	271.172
51.0	342.089	319.419	291.807	274.340	266.754
51.5	336.276	313.897	286.896	269.748	261.929
52.0	330.754	308.665	281.780	265.010	257.395
52.5	324.941	303.143	276.723	260.273	253.035
53.0	319.419	297.911	271.724	255.593	248.385
53.5	313.606	292.679	266.957	251.204	244.171
54.0	308.084	287.186	262.133	246.874	239.724
54.5	302.561	281.809	257.221	242.427	235.364

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**CANDELA TABULATION - (Cont.)**

55.0	296.748	276.549	252.338	237.835	231.005
55.5	291.226	271.346	247.600	233.184	226.558
56.0	285.675	266.173	242.979	228.708	222.343
56.5	280.240	261.057	238.271	224.494	218.158
57.0	274.776	255.884	233.620	220.338	214.147
57.5	269.428	250.827	229.115	215.949	209.991
58.0	264.109	245.857	224.523	211.473	205.718
58.5	258.965	240.887	219.844	207.085	201.562
59.0	253.704	236.062	215.193	202.841	197.668
59.5	248.530	231.237	210.659	198.685	193.657
60.0	243.328	226.471	206.300	194.645	189.530
60.5	238.271	221.704	201.998	190.576	185.490
61.0	233.243	216.908	197.639	186.420	181.595
61.5	228.185	212.113	193.104	182.234	177.584
62.0	223.128	207.462	188.687	178.107	173.573
62.5	218.100	202.870	184.501	174.125	169.679
63.0	213.043	198.191	180.490	170.231	165.871
63.5	207.956	193.540	176.480	166.569	162.064
64.0	202.899	188.861	172.352	162.906	158.256
64.5	197.842	184.211	168.080	158.954	154.536
65.0	192.756	179.619	163.895	154.827	150.874
65.5	187.698	174.997	159.942	151.106	147.270
66.0	182.670	170.376	156.076	147.764	143.811
66.5	177.613	165.784	152.153	144.334	140.294
67.0	172.585	161.250	148.055	140.614	136.690
67.5	167.586	156.745	143.927	136.603	133.028
68.0	162.587	152.182	139.800	132.476	129.279
68.5	157.646	147.648	135.702	128.639	125.559
69.0	152.763	143.114	131.807	125.065	121.955
69.5	147.880	138.696	127.971	121.519	118.322
70.0	143.026	134.278	123.902	117.624	114.485
70.5	138.260	129.831	119.746	113.439	110.678
71.0	133.464	125.384	115.648	109.428	106.928
71.5	128.756	120.995	111.637	105.824	103.295
72.0	124.076	116.752	107.800	102.481	99.778
72.5	119.455	112.567	104.109	99.023	96.407
73.0	114.921	108.411	100.360	95.332	92.977
73.5	110.416	104.225	96.494	91.640	89.431
74.0	105.998	100.098	92.629	88.094	86.060
74.5	101.639	96.058	88.966	84.752	82.892
75.0	97.366	92.134	85.450	81.468	79.637
75.5	93.152	88.240	81.991	78.154	76.294
76.0	88.995	84.374	78.445	74.870	73.126
76.5	84.897	80.480	74.928	71.499	70.016
77.0	80.828	76.672	71.382	68.185	66.790
77.5	76.847	72.923	68.011	64.930	63.506
78.0	72.865	69.203	64.727	61.762	60.396
78.5	68.941	65.540	61.442	58.623	57.431
79.0	65.134	61.965	58.158	55.542	54.496
79.5	61.355	58.449	54.932	52.520	51.589
80.0	57.664	54.990	51.793	49.497	48.654
80.5	54.002	51.589	48.683	46.503	45.660
81.0	50.456	48.247	45.544	43.568	42.725
81.5	46.997	44.992	42.521	40.719	39.935
82.0	43.597	41.853	39.644	37.987	37.261
82.5	40.283	38.772	36.796	35.342	34.674

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**CANDELA TABULATION - (Cont.)**

83.0	37.028	35.720	34.005	32.668	32.145
83.5	33.831	32.698	31.186	30.024	29.617
84.0	30.721	29.791	28.367	27.408	27.030
84.5	27.698	26.943	25.635	24.850	24.530
85.0	24.734	24.153	23.077	22.380	22.234
85.5	21.827	21.391	20.578	20.054	20.084
86.0	19.008	18.659	18.136	17.904	17.904
86.5	16.276	16.044	15.695	15.637	15.695
87.0	13.602	13.515	13.312	13.312	13.399
87.5	11.045	10.957	10.986	11.132	11.190
88.0	8.574	8.632	8.894	9.097	9.184
88.5	6.278	6.481	6.975	7.034	7.092
89.0	4.243	4.563	4.854	4.389	4.360
89.5	2.936	3.023	2.267	2.151	2.383
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-L8-835-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-L8-835-DMA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	251.00	N.A.	15.70
0-30	513.87	N.A.	32.10
0-40	806.52	N.A.	50.40
0-60	1315.02	N.A.	82.20
0-80	1573.56	N.A.	98.30
0-90	1600.04	N.A.	100.00
10-90	1533.54	N.A.	95.80
20-40	555.52	N.A.	34.70
20-50	833.24	N.A.	52.10
40-70	674.64	N.A.	42.20
60-80	258.55	N.A.	16.20
70-80	92.40	N.A.	5.80
80-90	26.48	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	1600.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	66.50
10-20	184.49
20-30	262.87
30-40	292.66
40-50	277.71
50-60	230.78
60-70	166.15
70-80	92.40
80-90	26.48
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	21.5	23.1	21.9	23.4	23.7	20.4	21.9	20.7	22.2	22.6
	3H	23.2	24.7	23.6	25.0	25.4	22.0	23.5	22.4	23.8	24.1
	4H	23.9	25.2	24.3	25.5	25.9	22.6	24.0	23.0	24.3	24.7
	6H	24.3	25.5	24.7	25.9	26.3	23.1	24.3	23.5	24.7	25.1
	8H	24.5	25.6	24.9	26.0	26.4	23.3	24.4	23.7	24.8	25.2
	12H	24.5	25.7	25.0	26.1	26.5	23.4	24.5	23.8	24.9	25.3

UGR Viewed Endwise

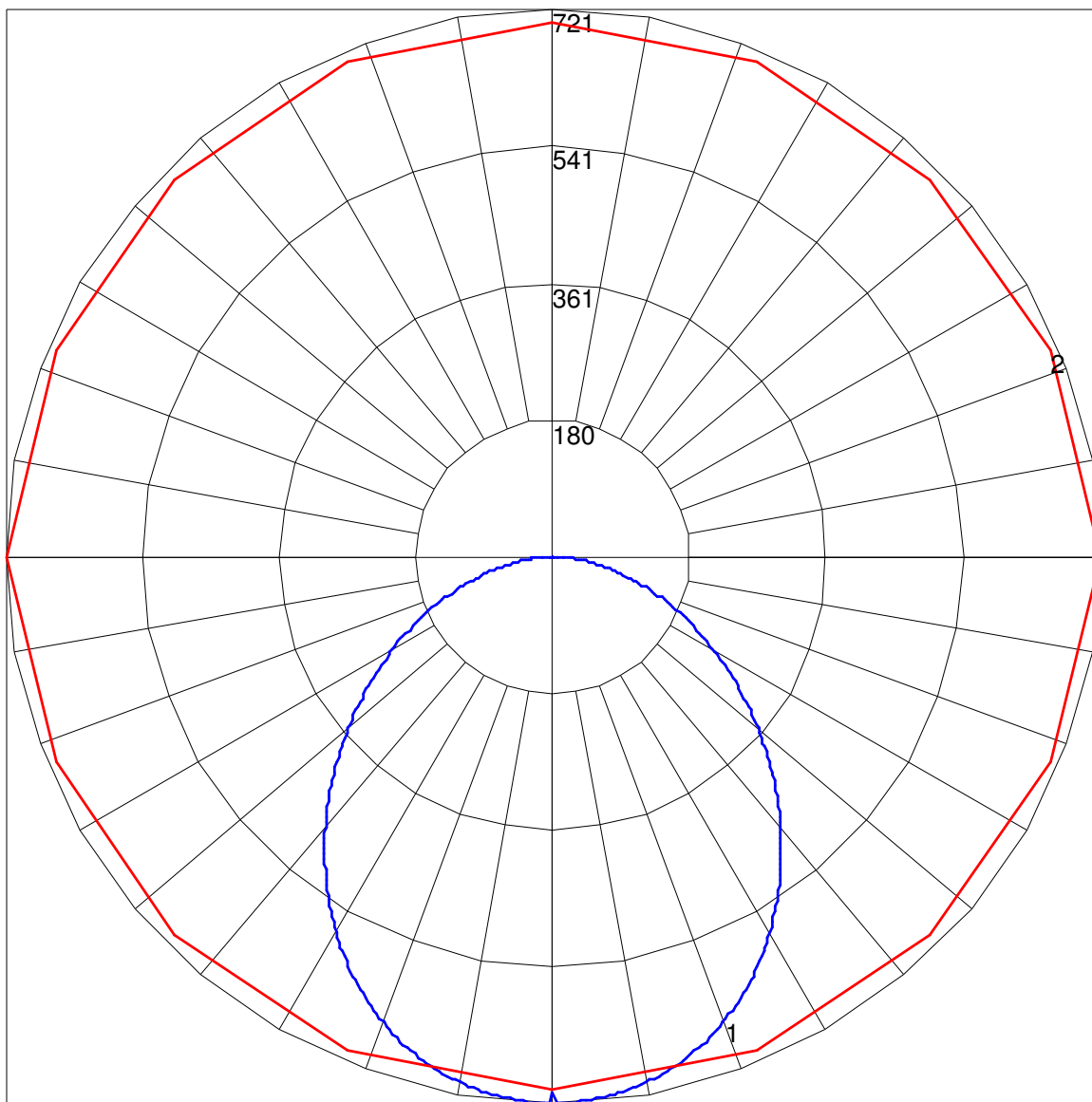
4H	2H	22.0	23.3	22.4	23.7	24.0	21.0	22.4	21.4	22.7	23.1
	3H	23.9	25.0	24.3	25.4	25.8	22.9	24.0	23.3	24.4	24.8
	4H	24.7	25.7	25.1	26.1	26.5	23.7	24.7	24.1	25.1	25.5
	6H	25.3	26.1	25.7	26.6	27.0	24.2	25.1	24.7	25.6	26.0
	8H	25.5	26.3	25.9	26.7	27.2	24.4	25.2	24.9	25.7	26.2
	12H	25.6	26.3	26.1	26.8	27.3	24.6	25.3	25.1	25.8	26.3

8H	4H	24.9	25.7	25.4	26.1	26.6	24.0	24.8	24.5	25.2	25.7
	6H	25.6	26.3	26.1	26.8	27.2	24.7	25.4	25.2	25.9	26.3
	8H	25.8	26.5	26.3	27.0	27.4	24.9	25.6	25.5	26.1	26.6
	12H	26.1	26.6	26.6	27.1	27.7	25.2	25.7	25.7	26.2	26.8

12H	4H	24.9	25.6	25.4	26.1	26.6	24.0	24.8	24.5	25.2	25.7
	6H	25.6	26.2	26.1	26.7	27.2	24.8	25.4	25.3	25.8	26.4
	8H	25.9	26.5	26.4	27.0	27.5	25.1	25.6	25.6	26.1	26.7

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 721.381 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.)