



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED2SEWT40120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 3929  
 [TESTLAB] TUV SUD America  
 [ISSUEDATE] 9/15/2020 8:22:40 AM  
 [MANUFAC] BEGHELLI NORTH AMERICA  
 [LUMCAT] BX910LED2SEWT40120-277V  
 [LUMINAIRE] 3965-2  
 [\_AMBIENT] 25.4 deg C  
 [\_WARMUP] 0:44.6  
 [\_Lumens] 2696.10

### CHARACTERISTICS

Lumens Per Lamp	24.04 (72 lamps)
Total Lamp Lumens	1730.88
Luminaire Lumens	1729
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	173
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.84
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.58
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	1.83 ft
Luminous Height	0.25 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11158	9723	11794
55	2137	9228	9218
65	448	2362	5639
75	160	526	2429
85	9	66	508

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	685.229	685.229	685.229	685.229	685.229	685.229	685.229	685.229	685.229	685.229
2.5	684.338	680.402	683.178	687.261	684.748	687.517	684.447	685.197	687.806	685.197
5.0	679.954	677.005	680.550	685.562	682.069	684.056	682.030	683.274	687.549	683.274
7.5	674.992	671.858	676.377	681.351	677.229	678.287	677.755	681.146	684.235	681.146
10.0	670.486	664.884	670.665	675.761	671.826	673.037	671.877	675.755	679.569	675.755
12.5	666.678	658.365	662.980	670.236	665.826	667.723	666.698	673.255	677.338	673.255
15.0	661.006	652.487	655.403	663.159	656.704	658.954	663.711	673.044	677.800	673.044
17.5	654.596	648.333	648.756	653.737	644.340	646.589	659.006	673.069	681.037	673.069
20.0	652.987	645.891	641.000	641.968	628.686	629.379	648.275	668.505	683.062	668.505
22.5	655.179	638.141	629.109	624.469	607.956	608.854	632.449	658.499	682.518	658.499
25.0	655.339	622.020	610.059	602.739	594.925	599.591	613.616	648.179	679.306	648.179
27.5	651.814	603.739	595.925	600.143	584.380	589.124	603.091	640.641	681.043	640.641
30.0	647.352	600.117	587.233	578.567	561.529	562.260	595.515	643.295	709.202	643.295
32.5	667.044	606.123	560.298	552.587	537.043	537.869	580.310	671.877	777.418	671.877
35.0	747.989	609.251	536.504	526.908	512.614	514.146	573.086	732.381	854.306	732.381
37.5	880.433	684.966	516.858	502.570	487.980	488.705	584.945	792.795	883.952	792.795
40.0	945.321	797.026	504.570	477.609	461.808	461.353	595.950	804.647	835.556	804.647
42.5	862.427	837.524	505.435	451.764	433.579	433.053	612.822	750.444	720.689	750.444
45.0	671.300	748.573	527.575	423.598	403.247	404.445	614.591	645.301	594.925	645.301
47.5	496.160	591.906	569.650	493.529	371.081	375.338	587.932	545.497	489.551	545.497
50.0	337.948	433.893	599.079	362.627	338.249	347.742	527.498	440.091	385.626	440.091
52.5	216.318	294.693	571.945	331.711	303.988	320.532	435.579	342.031	279.886	342.031
55.0	126.597	186.364	483.660	299.917	268.829	292.995	342.602	248.644	182.993	248.644
57.5	75.042	112.162	369.389	269.521	233.029	262.791	259.913	163.532	110.919	163.532
60.0	48.357	68.587	261.522	239.388	197.466	227.581	188.698	101.118	67.376	101.118
62.5	33.986	44.985	176.999	209.684	163.179	188.422	130.777	63.183	43.601	63.183
65.0	25.352	31.794	115.656	178.140	131.078	147.789	87.663	41.883	30.351	41.883
67.5	19.377	23.570	75.266	146.193	102.259	111.047	58.344	29.428	22.544	29.428
70.0	14.948	17.845	49.793	113.976	77.535	80.317	39.383	21.377	17.019	21.377
72.5	11.320	13.249	33.742	84.298	57.011	56.639	26.922	15.717	12.647	15.717
75.0	8.314	9.673	23.159	59.703	40.389	38.139	18.307	11.416	9.230	11.416
77.5	5.737	6.660	15.897	41.370	27.480	24.717	11.974	7.955	6.391	7.955
80.0	3.429	4.038	10.282	27.223	17.717	14.692	7.077	5.070	3.840	5.070
82.5	1.641	1.776	5.878	16.538	10.333	7.339	3.231	2.493	1.910	2.493
85.0	0.423	0.423	2.487	8.615	4.827	2.051	0.788	0.878	0.500	0.878
87.5	0.000	0.013	0.564	3.269	1.327	0.038	0.051	0.090	0.045	0.090
90.0	0.000	0.000	0.000	0.077	0.071	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	685.229	685.229	685.229	685.229	685.229	685.229	685.229
2.5	684.447	687.517	684.748	687.261	683.178	680.402	684.338
5.0	682.030	684.056	682.069	685.562	680.550	677.005	679.954
7.5	677.755	678.287	677.229	681.351	676.377	671.858	674.992
10.0	671.877	673.037	671.826	675.761	670.665	664.884	670.486
12.5	666.698	667.723	665.826	670.236	662.980	658.365	666.678
15.0	663.711	658.954	656.704	663.159	655.403	652.487	661.006
17.5	659.006	646.589	644.340	653.737	648.756	648.333	654.596
20.0	648.275	629.379	628.686	641.968	641.000	645.891	652.987
22.5	632.449	608.854	607.956	624.469	629.109	638.141	655.179
25.0	613.616	599.591	594.925	602.739	610.059	622.020	655.339
27.5	603.091	589.124	584.380	600.143	595.925	603.739	651.814
30.0	595.515	562.260	561.529	578.567	587.233	600.117	647.352
32.5	580.310	537.869	537.043	552.587	560.298	606.123	667.044
35.0	573.086	514.146	512.614	526.908	536.504	609.251	747.989
37.5	584.945	488.705	487.980	502.570	516.858	684.966	880.433
40.0	595.950	461.353	461.808	477.609	504.570	797.026	945.321
42.5	612.822	433.053	433.579	451.764	505.435	837.524	862.427
45.0	614.591	404.445	403.247	423.598	527.575	748.573	671.300
47.5	587.932	375.338	371.081	393.529	569.650	591.906	496.160
50.0	527.498	347.742	338.249	362.627	599.079	433.893	337.948
52.5	435.579	320.532	303.988	331.711	571.945	294.693	216.318
55.0	342.602	292.995	268.829	299.917	483.660	186.364	126.597
57.5	259.913	262.791	233.029	269.521	369.389	112.162	75.042
60.0	188.698	227.581	197.466	239.388	261.522	68.587	48.357
62.5	130.777	188.422	163.179	209.684	176.999	44.985	33.986
65.0	87.663	147.789	131.078	178.140	115.656	31.794	25.352
67.5	58.344	111.047	102.259	146.193	75.266	23.570	19.377
70.0	39.383	80.317	77.535	113.976	49.793	17.845	14.948
72.5	26.922	56.639	57.011	84.298	33.742	13.249	11.320
75.0	18.307	38.139	40.389	59.703	23.159	9.673	8.314
77.5	11.974	24.717	27.480	41.370	15.897	6.660	5.737
80.0	7.077	14.692	17.717	27.223	10.282	4.038	3.429

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**CANDELA TABULATION - (Cont.)**

82.5	3.231	7.339	10.333	16.538	5.878	1.776	1.641
85.0	0.788	2.051	4.827	8.615	2.487	0.423	0.423
87.5	0.051	0.038	1.327	3.269	0.564	0.013	0.000
90.0	0.000	0.000	0.071	0.077	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	251.77	14.50	14.60
0-30	538.99	31.10	31.20
0-40	920.52	53.20	53.20
0-60	1595.67	92.20	92.30
0-80	1724.69	99.60	99.80
0-90	1728.77	99.90	100.00
10-90	1663.97	96.10	96.30
20-40	668.75	38.60	38.70
20-50	1086.37	62.80	62.80
40-70	774.44	44.70	44.80
60-80	129.02	7.50	7.50
70-80	29.74	1.70	1.70
80-90	4.08	0.20	0.20
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1728.78	99.90	100.00

Total Luminaire Efficiency = 99.90%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	64.81
10-20	186.96
20-30	287.22
30-40	381.53
40-50	417.62
50-60	257.53
60-70	99.29
70-80	29.74
80-90	4.08
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

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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	111	107	103	100	108	105	102	99	100	98	96	97	95	93	93	92	90	88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

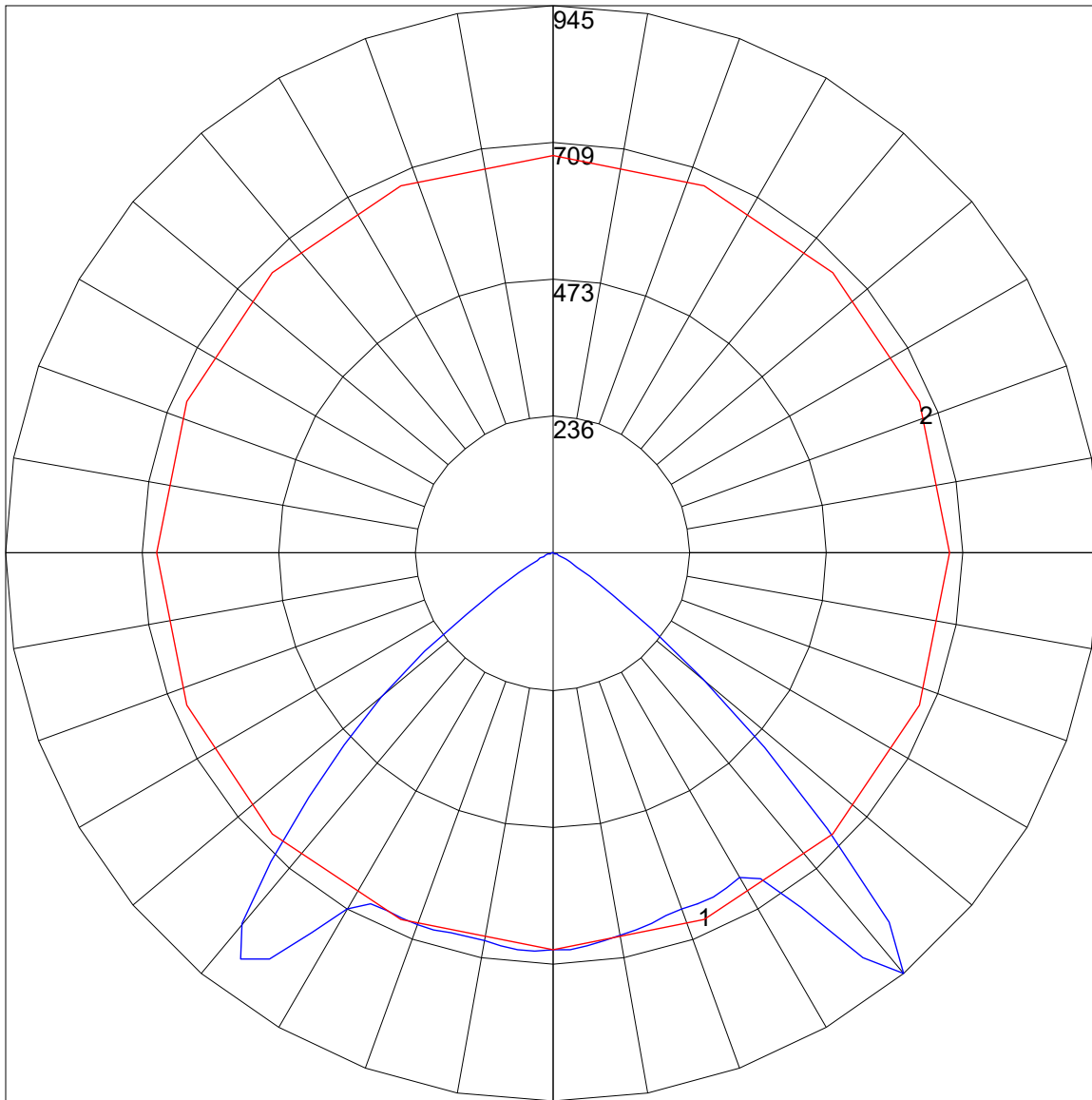
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	10.8	12.3	11.1	12.6	12.9	17.2	18.7	17.5	19.0	19.3
	3H	10.8	12.1	11.2	12.5	12.8	17.8	19.1	18.1	19.4	19.8
	4H	10.8	12.0	11.2	12.4	12.7	17.8	19.1	18.2	19.4	19.8
	6H	10.7	11.9	11.1	12.2	12.6	17.8	18.9	18.2	19.3	19.7
	8H	10.7	11.8	11.1	12.2	12.6	17.8	18.9	18.2	19.2	19.6
	12H	10.7	11.7	11.1	12.1	12.5	17.7	18.8	18.2	19.2	19.6
4H	2H	12.3	13.5	12.7	13.9	14.2	17.2	18.5	17.6	18.8	19.2
	3H	12.4	13.4	12.8	13.8	14.2	17.9	19.0	18.4	19.4	19.8
	4H	12.3	13.2	12.8	13.7	14.1	18.1	19.0	18.5	19.4	19.8
	6H	12.3	13.1	12.7	13.5	14.0	18.1	18.9	18.5	19.3	19.8
	8H	12.2	13.0	12.7	13.4	13.9	18.0	18.8	18.5	19.2	19.7
	12H	12.2	12.8	12.7	13.3	13.8	18.0	18.7	18.5	19.1	19.6
8H	4H	12.6	13.3	13.1	13.8	14.2	18.0	18.7	18.4	19.1	19.6
	6H	12.5	13.1	13.0	13.6	14.1	18.0	18.6	18.5	19.1	19.6
	8H	12.5	13.0	13.0	13.5	14.0	17.9	18.5	18.5	19.0	19.5
	12H	12.4	12.9	12.9	13.4	14.0	17.9	18.4	18.4	18.9	19.5
12H	4H	12.6	13.3	13.1	13.7	14.2	17.9	18.6	18.4	19.1	19.5
	6H	12.5	13.1	13.1	13.5	14.1	17.9	18.5	18.4	18.9	19.5
	8H	12.5	13.0	13.0	13.5	14.0	17.9	18.4	18.4	18.9	19.5

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 945.321 Located At Horizontal Angle = 0, Vertical Angle = 40  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)