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## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ALR 18 BOWL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18210-3

[TESTLAB] LightLab International ([www.LightLabInternational.com](http://www.LightLabInternational.com))

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Alabaster Rocks (ALR) 18" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: ALR 18" Bowl

[MORE] Extruded base plate with shaved alabaster rocks in resin cast bowl lens.

[MORE] 63 LEDs with 21 in each of three arrays with white plastic lenses.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.820a.

[ISSUE DATE] August, 2018

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1782
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	39
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	Circular w/ Sides
Luminous Length (0-180)	0.53 m (Diameter)
Luminous Width (90-270)	0.53 m (Diameter)
Luminous Height	0.13 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	912	912	912
55	830	830	830
65	745	745	745
75	661	661	661
85	598	598	598

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**CANDELA TABULATION**

	<u>0</u>
<b>0.0</b>	277.651
<b>0.5</b>	277.638
<b>1.0</b>	277.612
<b>1.5</b>	277.546
<b>2.0</b>	277.454
<b>2.5</b>	277.323
<b>3.0</b>	277.204
<b>3.5</b>	277.047
<b>4.0</b>	276.850
<b>4.5</b>	276.666
<b>5.0</b>	276.429
<b>5.5</b>	276.193
<b>6.0</b>	275.878
<b>6.5</b>	275.589
<b>7.0</b>	275.247
<b>7.5</b>	274.892
<b>8.0</b>	274.511
<b>8.5</b>	274.104
<b>9.0</b>	273.671
<b>9.5</b>	273.237
<b>10.0</b>	272.764
<b>10.5</b>	272.304
<b>11.0</b>	271.792
<b>11.5</b>	271.227
<b>12.0</b>	270.676
<b>12.5</b>	270.098
<b>13.0</b>	269.480
<b>13.5</b>	268.850
<b>14.0</b>	268.206
<b>14.5</b>	267.523
<b>15.0</b>	266.827
<b>15.5</b>	266.104
<b>16.0</b>	265.329
<b>16.5</b>	264.554
<b>17.0</b>	263.766
<b>17.5</b>	262.951
<b>18.0</b>	262.084
<b>18.5</b>	261.257
<b>19.0</b>	260.337
<b>19.5</b>	259.431
<b>20.0</b>	258.511
<b>20.5</b>	257.552
<b>21.0</b>	256.580
<b>21.5</b>	255.569
<b>22.0</b>	254.557
<b>22.5</b>	253.506
<b>23.0</b>	252.468
<b>23.5</b>	251.365
<b>24.0</b>	250.248
<b>24.5</b>	249.145
<b>25.0</b>	248.028
<b>25.5</b>	246.846
<b>26.0</b>	245.651
<b>26.5</b>	244.482

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	243.234
<b>27.5</b>	242.038
<b>28.0</b>	240.777
<b>28.5</b>	239.503
<b>29.0</b>	238.229
<b>29.5</b>	236.928
<b>30.0</b>	235.614
<b>30.5</b>	234.248
<b>31.0</b>	232.908
<b>31.5</b>	231.516
<b>32.0</b>	230.176
<b>32.5</b>	228.757
<b>33.0</b>	227.325
<b>33.5</b>	225.907
<b>34.0</b>	224.462
<b>34.5</b>	222.990
<b>35.0</b>	221.493
<b>35.5</b>	220.008
<b>36.0</b>	218.511
<b>36.5</b>	217.000
<b>37.0</b>	215.476
<b>37.5</b>	213.926
<b>38.0</b>	212.389
<b>38.5</b>	210.800
<b>39.0</b>	209.237
<b>39.5</b>	207.647
<b>40.0</b>	206.031
<b>40.5</b>	204.402
<b>41.0</b>	202.826
<b>41.5</b>	201.158
<b>42.0</b>	199.489
<b>42.5</b>	197.847
<b>43.0</b>	196.179
<b>43.5</b>	194.511
<b>44.0</b>	192.803
<b>44.5</b>	191.121
<b>45.0</b>	189.427
<b>45.5</b>	187.745
<b>46.0</b>	186.051
<b>46.5</b>	184.304
<b>47.0</b>	182.583
<b>47.5</b>	180.823
<b>48.0</b>	179.115
<b>48.5</b>	177.328
<b>49.0</b>	175.594
<b>49.5</b>	173.808
<b>50.0</b>	172.126
<b>50.5</b>	170.327
<b>51.0</b>	168.527
<b>51.5</b>	166.767
<b>52.0</b>	164.941
<b>52.5</b>	163.180
<b>53.0</b>	161.354
<b>53.5</b>	159.568
<b>54.0</b>	157.742
<b>54.5</b>	155.982

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**CANDELA TABULATION - (Cont.)**

<b>55.0</b>	154.156
<b>55.5</b>	152.343
<b>56.0</b>	150.530
<b>56.5</b>	148.691
<b>57.0</b>	146.865
<b>57.5</b>	145.039
<b>58.0</b>	143.213
<b>58.5</b>	141.374
<b>59.0</b>	139.627
<b>59.5</b>	137.775
<b>60.0</b>	135.935
<b>60.5</b>	134.136
<b>61.0</b>	132.284
<b>61.5</b>	130.444
<b>62.0</b>	128.605
<b>62.5</b>	126.806
<b>63.0</b>	124.953
<b>63.5</b>	123.193
<b>64.0</b>	121.354
<b>64.5</b>	119.554
<b>65.0</b>	117.755
<b>65.5</b>	115.916
<b>66.0</b>	114.155
<b>66.5</b>	112.369
<b>67.0</b>	110.569
<b>67.5</b>	108.783
<b>68.0</b>	107.062
<b>68.5</b>	105.275
<b>69.0</b>	103.528
<b>69.5</b>	101.794
<b>70.0</b>	100.034
<b>70.5</b>	98.313
<b>71.0</b>	96.566
<b>71.5</b>	94.845
<b>72.0</b>	93.124
<b>72.5</b>	91.482
<b>73.0</b>	89.761
<b>73.5</b>	88.106
<b>74.0</b>	86.451
<b>74.5</b>	84.769
<b>75.0</b>	83.167
<b>75.5</b>	81.524
<b>76.0</b>	79.909
<b>76.5</b>	78.293
<b>77.0</b>	76.743
<b>77.5</b>	75.153
<b>78.0</b>	73.577
<b>78.5</b>	72.053
<b>79.0</b>	70.516
<b>79.5</b>	69.006
<b>80.0</b>	67.508
<b>80.5</b>	66.037
<b>81.0</b>	64.565
<b>81.5</b>	63.147
<b>82.0</b>	61.702
<b>82.5</b>	60.309

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**CANDELA TABULATION - (Cont.)**

<b>83.0</b>	58.956
<b>83.5</b>	57.551
<b>84.0</b>	56.237
<b>84.5</b>	54.884
<b>85.0</b>	53.597
<b>85.5</b>	52.309
<b>86.0</b>	51.087
<b>86.5</b>	49.826
<b>87.0</b>	48.618
<b>87.5</b>	47.436
<b>88.0</b>	46.240
<b>88.5</b>	45.137
<b>89.0</b>	44.007
<b>89.5</b>	42.943
<b>90.0</b>	42.050
<b>90.5</b>	41.340
<b>91.0</b>	40.762
<b>91.5</b>	40.263
<b>92.0</b>	39.856
<b>92.5</b>	39.422
<b>93.0</b>	39.068
<b>93.5</b>	38.739
<b>94.0</b>	38.437
<b>94.5</b>	38.227
<b>95.0</b>	38.266
<b>95.5</b>	38.660
<b>96.0</b>	39.501
<b>96.5</b>	40.762
<b>97.0</b>	42.339
<b>97.5</b>	44.204
<b>98.0</b>	46.017
<b>98.5</b>	47.764
<b>99.0</b>	49.603
<b>99.5</b>	51.311
<b>100.0</b>	53.071
<b>100.5</b>	54.989
<b>101.0</b>	56.959
<b>101.5</b>	59.061
<b>102.0</b>	61.124
<b>102.5</b>	63.252
<b>103.0</b>	65.262
<b>103.5</b>	67.311
<b>104.0</b>	69.281
<b>104.5</b>	71.291
<b>105.0</b>	73.301
<b>105.5</b>	75.285
<b>106.0</b>	77.295
<b>106.5</b>	79.278
<b>107.0</b>	81.288
<b>107.5</b>	83.219
<b>108.0</b>	85.229
<b>108.5</b>	87.134
<b>109.0</b>	89.078
<b>109.5</b>	90.983
<b>110.0</b>	92.914
<b>110.5</b>	94.884

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**CANDELA TABULATION - (Cont.)**

<b>111.0</b>	96.907
<b>111.5</b>	98.983
<b>112.0</b>	101.032
<b>112.5</b>	103.213
<b>113.0</b>	105.328
<b>113.5</b>	107.574
<b>114.0</b>	109.899
<b>114.5</b>	112.237
<b>115.0</b>	114.641
<b>115.5</b>	117.045
<b>116.0</b>	119.515
<b>116.5</b>	121.985
<b>117.0</b>	124.599
<b>117.5</b>	127.121
<b>118.0</b>	129.722
<b>118.5</b>	132.402
<b>119.0</b>	135.082
<b>119.5</b>	137.775
<b>120.0</b>	140.454
<b>120.5</b>	143.200
<b>121.0</b>	145.906
<b>121.5</b>	148.678
<b>122.0</b>	151.371
<b>122.5</b>	154.143
<b>123.0</b>	156.875
<b>123.5</b>	159.542
<b>124.0</b>	162.248
<b>124.5</b>	164.914
<b>125.0</b>	167.555
<b>125.5</b>	170.116
<b>126.0</b>	172.652
<b>126.5</b>	175.056
<b>127.0</b>	177.460
<b>127.5</b>	179.837
<b>128.0</b>	182.136
<b>128.5</b>	184.343
<b>129.0</b>	186.563
<b>129.5</b>	188.691
<b>130.0</b>	190.754
<b>130.5</b>	192.750
<b>131.0</b>	194.629
<b>131.5</b>	196.547
<b>132.0</b>	198.373
<b>132.5</b>	200.094
<b>133.0</b>	201.788
<b>133.5</b>	203.391
<b>134.0</b>	204.967
<b>134.5</b>	206.465
<b>135.0</b>	207.870
<b>135.5</b>	209.237
<b>136.0</b>	210.524
<b>136.5</b>	211.798
<b>137.0</b>	212.980
<b>137.5</b>	214.110
<b>138.0</b>	215.187
<b>138.5</b>	216.251

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>139.0</b>	217.210
<b>139.5</b>	218.104
<b>140.0</b>	219.010
<b>140.5</b>	219.798
<b>141.0</b>	220.586
<b>141.5</b>	221.309
<b>142.0</b>	221.979
<b>142.5</b>	222.649
<b>143.0</b>	223.240
<b>143.5</b>	223.805
<b>144.0</b>	224.383
<b>144.5</b>	224.856
<b>145.0</b>	225.355
<b>145.5</b>	225.762
<b>146.0</b>	226.222
<b>146.5</b>	226.616
<b>147.0</b>	226.997
<b>147.5</b>	227.339
<b>148.0</b>	227.667
<b>148.5</b>	227.995
<b>149.0</b>	228.350
<b>149.5</b>	228.678
<b>150.0</b>	228.994
<b>150.5</b>	229.309
<b>151.0</b>	229.651
<b>151.5</b>	229.953
<b>152.0</b>	230.281
<b>152.5</b>	230.610
<b>153.0</b>	230.912
<b>153.5</b>	231.188
<b>154.0</b>	231.477
<b>154.5</b>	231.752
<b>155.0</b>	232.002
<b>155.5</b>	232.291
<b>156.0</b>	232.567
<b>156.5</b>	232.843
<b>157.0</b>	233.119
<b>157.5</b>	233.355
<b>158.0</b>	233.657
<b>158.5</b>	233.920
<b>159.0</b>	234.196
<b>159.5</b>	234.498
<b>160.0</b>	234.787
<b>160.5</b>	235.089
<b>161.0</b>	235.365
<b>161.5</b>	235.641
<b>162.0</b>	235.917
<b>162.5</b>	236.245
<b>163.0</b>	236.534
<b>163.5</b>	236.889
<b>164.0</b>	237.257
<b>164.5</b>	237.440
<b>165.0</b>	237.401
<b>165.5</b>	237.178
<b>166.0</b>	236.600
<b>166.5</b>	235.614

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	234.367
<b>167.5</b>	232.554
<b>168.0</b>	230.399
<b>168.5</b>	228.048
<b>169.0</b>	225.237
<b>169.5</b>	222.176
<b>170.0</b>	218.852
<b>170.5</b>	215.292
<b>171.0</b>	211.470
<b>171.5</b>	207.673
<b>172.0</b>	203.667
<b>172.5</b>	199.608
<b>173.0</b>	195.496
<b>173.5</b>	191.016
<b>174.0</b>	186.130
<b>174.5</b>	180.639
<b>175.0</b>	174.819
<b>175.5</b>	168.369
<b>176.0</b>	161.538
<b>176.5</b>	153.814
<b>177.0</b>	145.144
<b>177.5</b>	136.054
<b>178.0</b>	125.466
<b>178.5</b>	113.932
<b>179.0</b>	102.346
<b>179.5</b>	91.745
<b>180.0</b>	82.930



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	101.57	N.A.	5.70
0-30	215.89	N.A.	12.10
0-40	354.51	N.A.	19.90
0-60	638.66	N.A.	35.80
0-80	843.43	N.A.	47.30
0-90	902.27	N.A.	50.60
10-90	876.00	N.A.	49.20
20-40	252.94	N.A.	14.20
20-50	399.17	N.A.	22.40
40-70	400.87	N.A.	22.50
60-80	204.76	N.A.	11.50
70-80	88.05	N.A.	4.90
80-90	58.85	N.A.	3.30
90-110	123.18	N.A.	6.90
90-120	237.33	N.A.	13.30
90-130	386.56	N.A.	21.70
90-150	687.58	N.A.	38.60
90-180	879.23	N.A.	49.40
110-180	756.05	N.A.	42.40
0-180	1781.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	26.27
10-20	75.30
20-30	114.32
30-40	138.62
40-50	146.23
50-60	137.92
60-70	116.71
70-80	88.05
80-90	58.85
90-100	45.92
100-110	77.25
110-120	114.16
120-130	149.22
130-140	159.88
140-150	141.14
150-160	107.29
160-170	66.41
170-180	17.94

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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51	51
1	97	92	87	83	89	85	81	77	71	69	66	59	57	55	48	47	45	40	40
2	87	79	73	67	80	73	67	62	62	57	54	51	48	45	42	39	37	32	32
3	79	69	61	55	73	64	57	52	54	49	44	45	41	38	36	34	31	27	27
4	72	61	53	46	66	56	49	43	48	42	38	40	35	32	32	29	26	23	23
5	66	54	46	39	61	50	43	37	43	37	32	36	31	27	29	26	23	20	20
6	61	49	40	34	56	45	37	32	38	32	28	32	27	24	26	23	20	17	17
7	56	44	35	30	52	41	33	28	35	29	24	29	24	21	24	20	18	15	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	18	16	13	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12	12
10	45	33	26	21	42	31	24	20	27	21	17	23	18	15	19	15	13	11	11

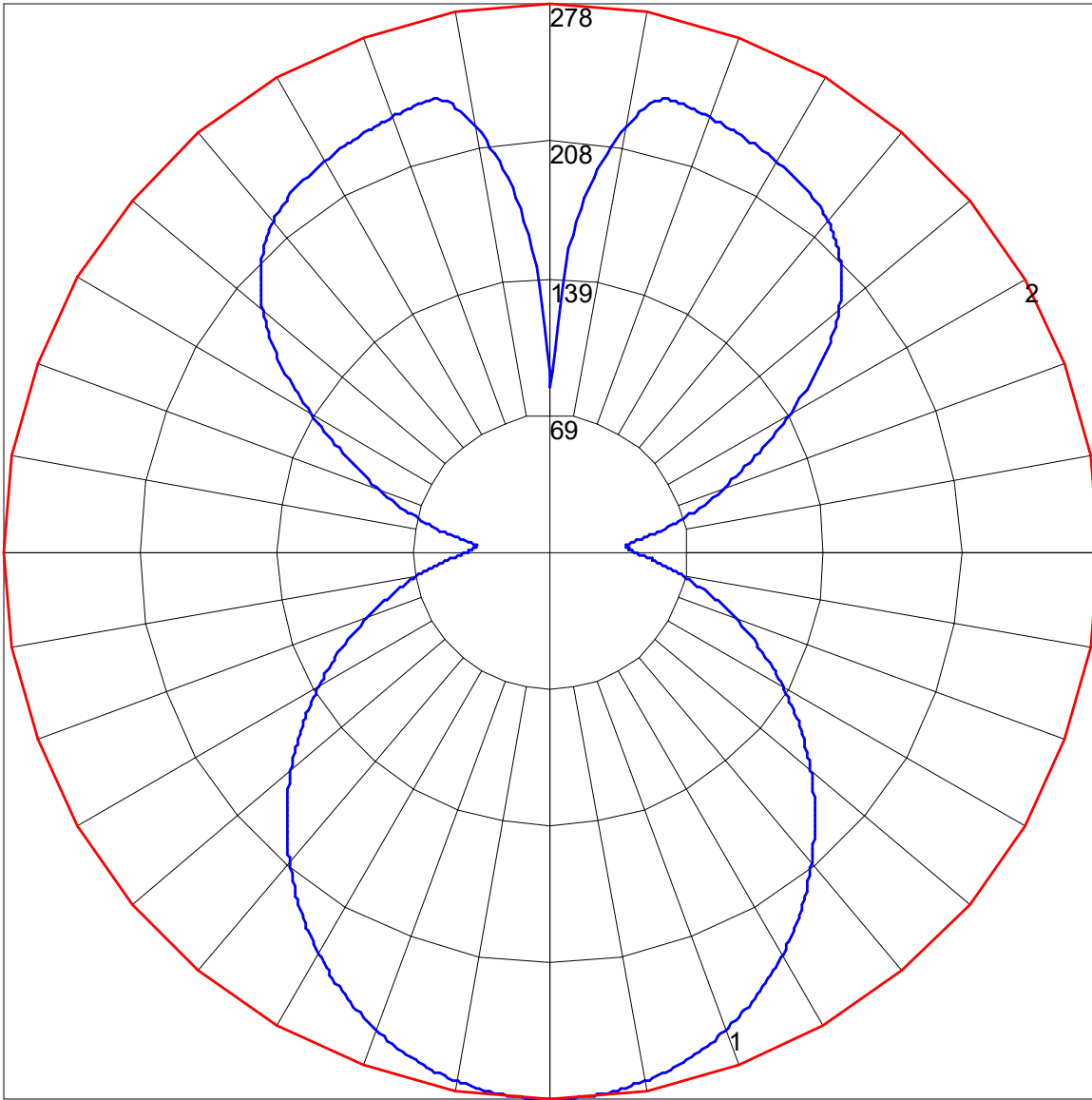
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**UGR TABLE - CORRECTED**

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	6.7	7.6	7.7	8.6	9.9	6.7	7.6	7.7	8.6	9.9
	3H	8.7	9.6	9.7	10.5	11.8	8.7	9.6	9.7	10.5	11.8
	4H	9.6	10.4	10.6	11.4	12.6	9.6	10.4	10.6	11.4	12.6
	6H	10.4	11.1	11.4	12.1	13.4	10.4	11.1	11.4	12.1	13.4
	8H	10.7	11.4	11.7	12.4	13.7	10.7	11.4	11.7	12.4	13.7
	12H	11.1	11.7	12.1	12.7	14.0	11.1	11.7	12.1	12.7	14.0
4H	2H	7.3	8.1	8.3	9.1	10.3	7.3	8.1	8.3	9.1	10.3
	3H	9.5	10.2	10.5	11.2	12.5	9.5	10.2	10.5	11.2	12.5
	4H	10.5	11.1	11.5	12.1	13.5	10.5	11.1	11.5	12.1	13.5
	6H	11.5	12.0	12.5	13.0	14.3	11.5	12.0	12.5	13.0	14.3
	8H	11.9	12.4	12.9	13.4	14.8	11.9	12.4	12.9	13.4	14.8
	12H	12.3	12.8	13.3	13.8	15.1	12.3	12.8	13.3	13.8	15.1
8H	4H	10.9	11.4	11.9	12.4	13.7	10.9	11.4	11.9	12.4	13.7
	6H	12.0	12.4	13.0	13.5	14.8	12.0	12.4	13.0	13.5	14.8
	8H	12.6	12.9	13.6	14.0	15.3	12.6	12.9	13.6	14.0	15.3
	12H	13.1	13.4	14.1	14.5	15.9	13.1	13.4	14.1	14.5	15.9
12H	4H	10.9	11.4	11.9	12.4	13.7	10.9	11.4	11.9	12.4	13.7
	6H	12.1	12.5	13.1	13.5	14.9	12.1	12.5	13.1	13.5	14.9
	8H	12.7	13.0	13.7	14.1	15.5	12.7	13.0	13.7	14.1	15.5

Maximum UGR = 15.9

POLAR GRAPH



Maximum Candela = 277.651 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)