



IES INDOOR REPORT
PHOTOMETRIC FILENAME : TALEDPLUSHT-CEILING.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3693
 [TESTLAB] TUV SUD America
 [ISSUEDATE] 8/23/2019 1:21:49 PM
 [MANUFAC] BEGHELLI NORTH AMERICA
 [LUMCAT] TALEDPLUSHT-CEILING
 [LUMINAIRE] 3868-2
 [_AMBIENT] 24.5 deg C
 [_POWERFACTOR] 0.9966
 [_ATHD] 7.15%
 [_CURRENT] 0.18
 [_VOLTAGE] 119.81
 [_STABILIZATION] 64:00.0 Stable
 [_POWER VARIATION] 0.46 %
 [_LIGHT VARIATION] 0.46 %
 [_Lumens] 2288.5

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2289
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	21.65
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.42 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.08 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13468	11926	11151
55	13287	11123	9764
65	13233	10180	8135
75	13394	9322	6069
85	15845	9501	3820

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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	726.44	726.44	726.44	726.44	726.44	726.44	726.44	726.44	726.44	726.44
2.5	727.47	740.17	737.56	733.08	727.80	723.02	719.38	717.09	698.82	717.09
5.0	740.52	747.01	743.31	735.30	724.93	715.35	708.02	703.64	683.86	703.64
7.5	751.82	749.11	745.65	735.61	720.04	705.91	695.34	689.42	668.16	689.42
10.0	756.72	745.44	744.30	733.72	713.33	694.84	681.69	673.57	648.78	673.57
12.5	753.35	736.85	737.97	729.16	704.42	681.89	666.44	655.68	627.10	655.68
15.0	742.61	725.40	727.08	721.89	693.67	667.42	649.25	636.97	606.86	636.97
17.5	727.91	711.94	713.40	711.92	680.66	651.13	630.26	616.65	584.23	616.65
20.0	715.29	699.08	697.84	699.25	665.85	633.66	610.24	594.94	563.43	594.94
22.5	704.11	686.84	681.37	683.88	649.46	614.39	588.91	574.80	547.29	574.80
25.0	694.03	674.81	664.96	666.07	631.17	593.58	566.47	555.94	535.33	555.94
27.5	683.81	662.72	648.58	645.76	611.28	571.43	544.75	539.00	526.12	539.00
30.0	673.14	649.77	631.73	623.35	589.48	548.03	523.75	525.44	520.08	525.44
32.5	661.99	635.99	614.61	599.59	566.00	523.89	503.74	514.48	514.36	514.48
35.0	650.12	621.42	596.48	574.77	540.79	499.41	484.95	504.71	505.76	504.71
37.5	636.93	605.76	577.36	549.13	514.79	474.10	468.21	494.92	494.77	494.92
40.0	622.55	588.48	557.21	523.42	488.14	448.10	452.87	484.79	481.63	484.79
42.5	606.36	569.61	536.21	496.94	459.85	422.47	437.87	472.45	466.52	472.45
45.0	587.71	549.68	514.24	470.07	430.99	397.28	422.42	458.19	449.75	458.19
47.5	568.33	528.35	490.88	442.96	401.72	372.04	406.39	441.99	432.17	441.99
50.0	547.62	505.59	466.60	415.37	372.82	347.50	388.94	424.21	413.25	424.21
52.5	525.95	482.72	440.91	386.96	343.26	323.55	369.58	405.45	393.62	405.45
55.0	503.83	459.19	415.05	358.54	313.81	300.59	349.15	385.82	372.64	385.82
57.5	480.85	435.28	389.19	329.70	284.86	278.14	327.85	364.91	350.54	364.91
60.0	457.35	410.88	362.56	301.44	256.59	255.57	305.88	343.08	328.55	343.08
62.5	434.36	385.65	335.65	272.98	228.24	232.61	282.93	320.69	306.29	320.69
65.0	410.84	360.30	309.27	244.40	200.56	210.11	259.83	298.39	284.09	298.39
67.5	385.31	335.11	283.50	216.91	173.75	187.26	237.14	275.70	261.82	275.70
70.0	358.70	310.94	257.37	189.39	147.65	164.85	214.18	253.87	241.16	253.87
72.5	333.68	287.74	232.79	164.20	123.41	142.50	192.02	233.04	222.39	233.04
75.0	311.17	266.10	209.93	140.11	99.64	121.01	171.10	211.79	200.65	211.79
77.5	290.76	245.99	188.68	118.05	77.84	100.95	151.42	191.08	180.36	191.08
80.0	271.70	226.65	168.89	98.72	58.14	83.31	131.64	172.84	162.38	172.84
82.5	252.75	207.42	151.02	82.31	41.40	66.67	115.12	153.70	145.35	153.70
85.0	233.09	186.80	132.80	66.33	29.35	52.52	98.57	135.90	128.63	135.90
87.5	213.04	166.30	116.19	53.57	20.82	40.92	83.37	119.29	112.10	119.29
90.0	189.81	146.37	100.09	43.11	15.14	31.06	69.80	103.52	96.69	103.52
92.5	165.59	125.34	82.67	33.61	12.52	23.53	57.48	88.84	82.14	88.84
95.0	143.95	105.82	68.37	25.60	11.97	17.92	46.32	75.21	69.23	75.21
97.5	125.16	89.08	55.73	18.84	11.63	13.73	36.84	62.38	57.33	62.38
100.0	104.75	73.00	44.06	13.85	10.78	10.61	29.23	51.34	46.74	51.34
102.5	85.11	59.24	34.40	10.48	9.65	8.50	22.79	42.09	37.80	42.09
105.0	69.57	47.74	26.20	7.61	8.41	6.78	17.75	34.04	31.08	34.04
107.5	56.61	38.14	19.18	5.21	7.16	5.29	13.74	27.51	25.77	27.51
110.0	45.89	29.88	13.25	3.84	5.92	4.16	10.40	22.31	21.37	22.31
112.5	36.84	22.88	8.36	3.02	4.77	3.33	7.46	18.02	17.28	18.02
115.0	29.25	16.72	5.25	2.30	3.68	2.60	4.72	14.19	13.51	14.19
117.5	22.70	11.15	2.66	1.68	2.73	1.93	2.68	10.71	10.06	10.71
120.0	16.55	6.50	0.70	1.14	1.90	1.36	1.33	7.43	6.83	7.43
122.5	11.06	3.82	0.22	0.71	1.23	0.88	0.36	4.53	3.79	4.53
125.0	6.26	1.57	0.13	0.43	0.73	0.53	0.21	2.48	1.05	2.48
127.5	2.00	0.19	0.08	0.23	0.41	0.32	0.14	1.11	0.15	1.11
130.0	0.14	0.09	0.09	0.12	0.20	0.18	0.12	0.19	0.14	0.19
132.5	0.08	0.10	0.09	0.10	0.11	0.13	0.14	0.12	0.16	0.12

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CANDELA TABULATION - (Cont.)

135.0	0.08	0.10	0.10	0.11	0.11	0.13	0.15	0.14	0.17	0.14
137.5	0.09	0.11	0.11	0.12	0.13	0.15	0.16	0.16	0.19	0.16
140.0	0.11	0.12	0.12	0.14	0.14	0.17	0.17	0.17	0.19	0.17
142.5	0.12	0.13	0.14	0.14	0.15	0.17	0.18	0.18	0.20	0.18
145.0	0.14	0.15	0.15	0.17	0.17	0.19	0.19	0.20	0.20	0.20
147.5	0.15	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.20
150.0	0.16	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.21
152.5	0.17	0.17	0.18	0.19	0.19	0.21	0.22	0.22	0.23	0.22
155.0	0.18	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.25	0.23
157.5	0.20	0.21	0.21	0.23	0.23	0.24	0.25	0.26	0.27	0.26
160.0	0.22	0.23	0.23	0.24	0.24	0.25	0.28	0.28	0.30	0.28
162.5	0.22	0.24	0.23	0.22	0.22	0.24	0.27	0.29	0.31	0.29
165.0	0.24	0.27	0.25	0.23	0.22	0.23	0.28	0.30	0.33	0.30
167.5	0.27	0.30	0.27	0.23	0.22	0.22	0.29	0.32	0.36	0.32
170.0	0.29	0.31	0.25	0.22	0.22	0.22	0.27	0.31	0.34	0.31
172.5	0.31	0.28	0.24	0.22	0.21	0.21	0.23	0.27	0.26	0.27
175.0	0.30	0.26	0.23	0.22	0.21	0.21	0.23	0.25	0.25	0.25
177.5	0.26	0.25	0.23	0.21	0.21	0.21	0.21	0.24	0.26	0.24
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	726.44	726.44	726.44	726.44	726.44	726.44	726.44
2.5	719.38	723.02	727.80	733.08	737.56	740.17	727.47
5.0	708.02	715.35	724.93	735.30	743.31	747.01	740.52
7.5	695.34	705.91	720.04	735.61	745.65	749.11	751.82
10.0	681.69	694.84	713.33	733.72	744.30	745.44	756.72
12.5	666.44	681.89	704.42	729.16	737.97	736.85	753.35
15.0	649.25	667.42	693.67	721.89	727.08	725.40	742.61
17.5	630.26	651.13	680.66	711.92	713.40	711.94	727.91
20.0	610.24	633.66	665.85	699.25	697.84	699.08	715.29
22.5	588.91	614.39	649.46	683.88	681.37	686.84	704.11
25.0	566.47	593.58	631.17	666.07	664.96	674.81	694.03
27.5	544.75	571.43	611.28	645.76	648.58	662.72	683.81
30.0	523.75	548.03	589.48	623.35	631.73	649.77	673.14
32.5	503.74	523.89	566.00	599.59	614.61	635.99	661.99
35.0	484.95	499.41	540.79	574.77	596.48	621.42	650.12
37.5	468.21	474.10	514.79	549.13	577.36	605.76	636.93
40.0	452.87	448.10	488.14	523.42	557.21	588.48	622.55
42.5	437.87	422.47	459.85	496.94	536.21	569.61	606.36
45.0	422.42	397.28	430.99	470.07	514.24	549.68	587.71
47.5	406.39	372.04	401.72	442.96	490.88	528.35	568.33
50.0	388.94	347.50	372.82	415.37	466.60	505.59	547.62
52.5	369.58	323.55	343.26	386.96	440.91	482.72	525.95
55.0	349.15	300.59	313.81	358.54	415.05	459.19	503.83
57.5	327.85	278.14	284.86	329.70	389.19	435.28	480.85
60.0	305.88	255.57	256.59	301.44	362.56	410.88	457.35
62.5	282.93	232.61	228.24	272.98	335.65	385.65	434.36
65.0	259.83	210.11	200.56	244.40	309.27	360.30	410.84
67.5	237.14	187.26	173.75	216.91	283.50	335.11	385.31
70.0	214.18	164.85	147.65	189.39	257.37	310.94	358.70
72.5	192.02	142.50	123.41	164.20	232.79	287.74	333.68
75.0	171.10	121.01	99.64	140.11	209.93	266.10	311.17
77.5	151.42	100.95	77.84	118.05	188.68	245.99	290.76
80.0	131.64	83.31	58.14	98.72	168.89	226.65	271.70

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CANDELA TABULATION - (Cont.)

82.5	115.12	66.67	41.40	82.31	151.02	207.42	252.75
85.0	98.57	52.52	29.35	66.33	132.80	186.80	233.09
87.5	83.37	40.92	20.82	53.57	116.19	166.30	213.04
90.0	69.80	31.06	15.14	43.11	100.09	146.37	189.81
92.5	57.48	23.53	12.52	33.61	82.67	125.34	165.59
95.0	46.32	17.92	11.97	25.60	68.37	105.82	143.95
97.5	36.84	13.73	11.63	18.84	55.73	89.08	125.16
100.0	29.23	10.61	10.78	13.85	44.06	73.00	104.75
102.5	22.79	8.50	9.65	10.48	34.40	59.24	85.11
105.0	17.75	6.78	8.41	7.61	26.20	47.74	69.57
107.5	13.74	5.29	7.16	5.21	19.18	38.14	56.61
110.0	10.40	4.16	5.92	3.84	13.25	29.88	45.89
112.5	7.46	3.33	4.77	3.02	8.36	22.88	36.84
115.0	4.72	2.60	3.68	2.30	5.25	16.72	29.25
117.5	2.68	1.93	2.73	1.68	2.66	11.15	22.70
120.0	1.33	1.36	1.90	1.14	0.70	6.50	16.55
122.5	0.36	0.88	1.23	0.71	0.22	3.82	11.06
125.0	0.21	0.53	0.73	0.43	0.13	1.57	6.26
127.5	0.14	0.32	0.41	0.23	0.08	0.19	2.00
130.0	0.12	0.18	0.20	0.12	0.09	0.09	0.14
132.5	0.14	0.13	0.11	0.10	0.09	0.10	0.08
135.0	0.15	0.13	0.11	0.11	0.10	0.10	0.08
137.5	0.16	0.15	0.13	0.12	0.11	0.11	0.09
140.0	0.17	0.17	0.14	0.14	0.12	0.12	0.11
142.5	0.18	0.17	0.15	0.14	0.14	0.13	0.12
145.0	0.19	0.19	0.17	0.17	0.15	0.15	0.14
147.5	0.20	0.19	0.18	0.17	0.16	0.15	0.15
150.0	0.21	0.20	0.19	0.18	0.17	0.16	0.16
152.5	0.22	0.21	0.19	0.19	0.18	0.17	0.17
155.0	0.23	0.22	0.21	0.20	0.19	0.18	0.18
157.5	0.25	0.24	0.23	0.23	0.21	0.21	0.20
160.0	0.28	0.25	0.24	0.24	0.23	0.23	0.22
162.5	0.27	0.24	0.22	0.22	0.23	0.24	0.22
165.0	0.28	0.23	0.22	0.23	0.25	0.27	0.24
167.5	0.29	0.22	0.22	0.23	0.27	0.30	0.27
170.0	0.27	0.22	0.22	0.22	0.25	0.31	0.29
172.5	0.23	0.21	0.21	0.22	0.24	0.28	0.31
175.0	0.23	0.21	0.21	0.22	0.23	0.26	0.30
177.5	0.21	0.21	0.21	0.21	0.23	0.25	0.26
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	262.19	N.A.	11.50
0-30	548.60	N.A.	24.00
0-40	892.98	N.A.	39.00
0-60	1593.39	N.A.	69.60
0-80	2065.57	N.A.	90.20
0-90	2187.13	N.A.	95.50
10-90	2118.44	N.A.	92.50
20-40	630.79	N.A.	27.60
20-50	993.53	N.A.	43.40
40-70	976.66	N.A.	42.70
60-80	472.18	N.A.	20.60
70-80	195.93	N.A.	8.60
80-90	121.56	N.A.	5.30
90-110	90.89	N.A.	4.00
90-120	100.06	N.A.	4.40
90-130	101.47	N.A.	4.40
90-150	101.68	N.A.	4.40
90-180	101.87	N.A.	4.50
110-180	10.98	N.A.	0.50
0-180	2289.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.69
10-20	193.50
20-30	286.41
30-40	344.38
40-50	362.74
50-60	337.67
60-70	276.25
70-80	195.93
80-90	121.56
90-100	63.66
100-110	27.23
110-120	9.17
120-130	1.41
130-140	0.10
140-150	0.11
150-160	0.10
160-170	0.07
170-180	0.02

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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	91	103	98	93	89	93	89	86	88	85	82	84	81	79	76
2	96	87	79	73	93	85	78	72	80	74	69	76	71	67	72	69	65	63
3	87	76	67	60	84	74	66	59	70	63	58	67	61	56	64	59	55	52
4	80	67	58	51	77	65	57	50	62	55	49	59	53	48	57	51	47	44
5	73	60	50	43	71	58	50	43	56	48	42	53	46	41	51	45	40	38
6	67	54	44	38	65	52	44	37	50	43	37	48	41	36	46	40	35	33
7	62	49	40	33	60	48	39	33	46	38	32	44	37	32	42	36	31	29
8	58	44	36	30	56	43	35	29	42	34	29	40	33	29	39	33	28	26
9	54	41	32	27	53	40	32	26	38	31	26	37	30	26	36	30	25	23
10	51	38	29	24	49	37	29	24	36	28	24	34	28	23	33	27	23	21

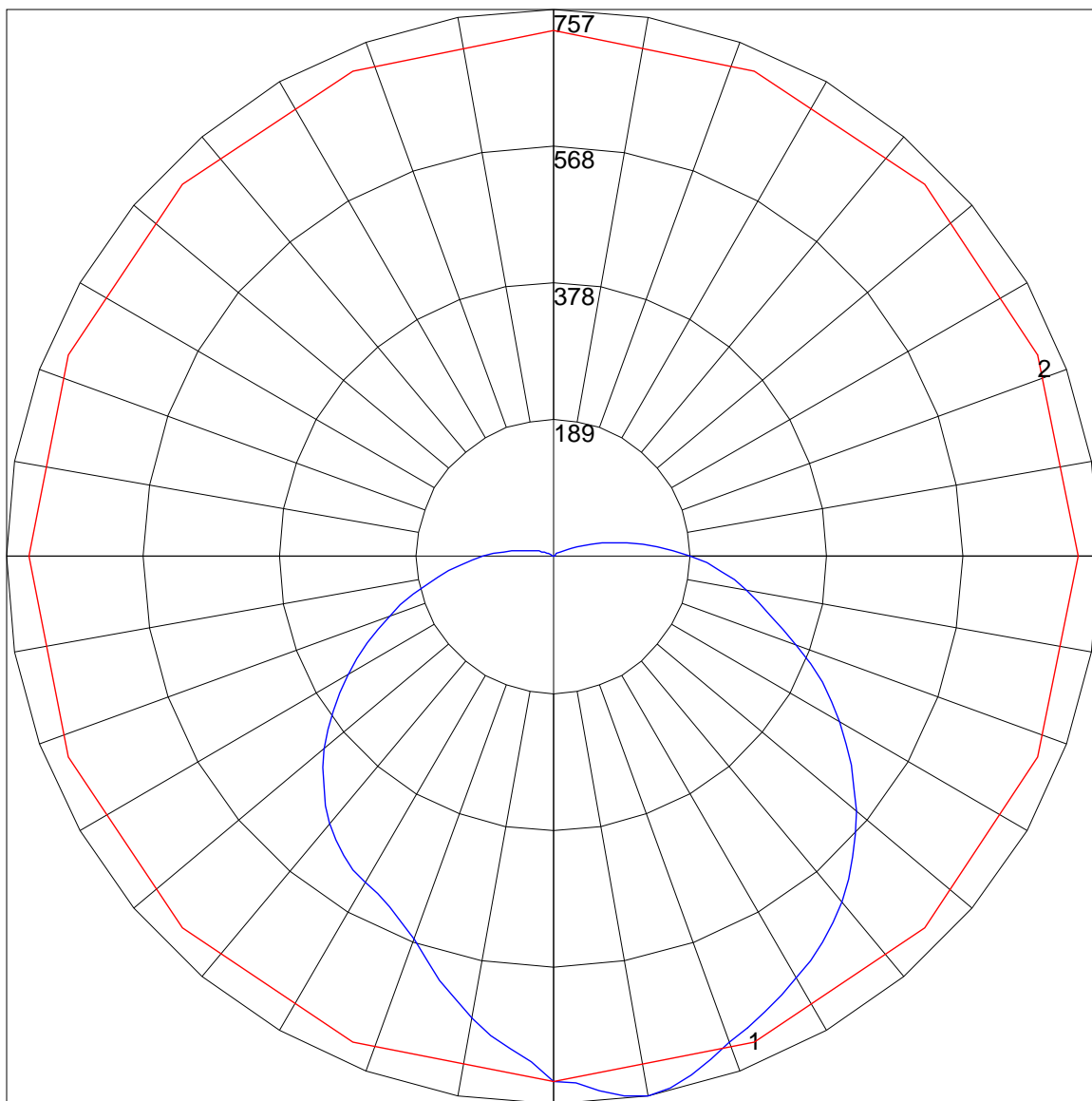
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UGR TABLE - CORRECTED

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	21.2	22.7	21.6	23.2	23.6	18.5	20.0	18.9	20.5	20.9
	3H	23.5	24.9	24.0	25.4	25.9	19.9	21.4	20.4	21.8	22.3
	4H	24.6	26.0	25.1	26.4	26.9	20.4	21.8	20.9	22.2	22.7
	6H	25.7	27.0	26.2	27.4	27.9	20.7	22.0	21.2	22.4	22.9
	8H	26.2	27.4	26.7	27.9	28.4	20.8	22.0	21.3	22.5	23.0
	12H	26.8	27.9	27.3	28.4	28.9	20.8	22.0	21.3	22.5	23.0
4H	2H	21.7	23.0	22.1	23.5	24.0	19.5	20.8	19.9	21.3	21.8
	3H	24.2	25.4	24.7	25.9	26.4	21.1	22.3	21.6	22.8	23.3
	4H	25.5	26.5	26.0	27.0	27.6	21.7	22.8	22.2	23.3	23.9
	6H	26.8	27.7	27.3	28.2	28.8	22.1	23.1	22.7	23.6	24.2
	8H	27.4	28.3	28.0	28.8	29.4	22.3	23.2	22.8	23.7	24.3
	12H	28.1	28.9	28.6	29.4	30.0	22.4	23.2	22.9	23.7	24.3
8H	4H	25.8	26.6	26.3	27.2	27.7	22.5	23.4	23.0	23.9	24.5
	6H	27.2	28.0	27.8	28.5	29.1	23.1	23.8	23.6	24.4	25.0
	8H	28.0	28.7	28.6	29.3	29.9	23.3	24.0	23.9	24.6	25.1
	12H	28.9	29.4	29.4	30.0	30.7	23.5	24.1	24.0	24.6	25.3
12H	4H	25.8	26.6	26.3	27.1	27.7	22.7	23.5	23.3	24.1	24.6
	6H	27.3	28.0	27.9	28.5	29.2	23.4	24.1	24.0	24.6	25.3
	8H	28.2	28.7	28.7	29.3	30.0	23.7	24.3	24.3	24.9	25.6

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 756.72 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)