



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDPLUSSE-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] TALEDPLUSSE-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	961
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	9.25
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	5656	5009	4683
55	5581	4671	4101
65	5558	4276	3417
75	5626	3915	2549
85	6655	3991	1605

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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	305.105	305.105	305.105	305.105	305.105	305.105	305.105	305.105	305.105	305.105
2.5	305.537	310.871	309.775	307.894	305.676	303.668	302.140	301.178	293.504	301.178
5.0	311.018	313.744	312.190	308.826	304.471	300.447	297.368	295.529	287.221	295.529
7.5	315.764	314.626	313.173	308.956	302.417	296.482	292.043	289.556	280.627	289.556
10.0	317.822	313.085	312.606	308.162	299.599	291.833	286.310	282.899	272.488	282.899
12.5	316.407	309.477	309.947	306.247	295.856	286.394	279.905	275.386	263.382	275.386
15.0	311.896	304.668	305.374	303.194	291.341	280.316	272.685	267.527	254.881	267.527
17.5	305.722	299.015	299.628	299.006	285.877	273.475	264.709	258.993	245.377	258.993
20.0	300.422	293.614	293.093	293.685	279.657	266.137	256.301	249.875	236.641	249.875
22.5	295.726	288.473	286.175	287.230	272.773	258.044	247.342	241.416	229.862	241.416
25.0	291.493	283.420	279.283	279.749	265.091	249.304	237.917	233.495	224.839	233.495
27.5	287.200	278.342	272.404	271.219	256.738	240.001	228.795	226.380	220.970	226.380
30.0	282.719	272.903	265.327	261.807	247.582	230.173	219.975	220.685	218.434	220.685
32.5	278.036	267.116	258.136	251.828	237.720	220.034	211.571	216.082	216.031	216.082
35.0	273.050	260.996	250.522	241.403	227.132	209.752	203.679	211.978	212.419	211.978
37.5	267.511	254.419	242.491	230.635	216.212	199.122	196.648	207.866	207.803	207.866
40.0	261.471	247.162	234.028	219.836	205.019	188.202	190.205	203.612	202.285	203.612
42.5	254.671	239.236	225.208	208.715	193.137	177.437	183.905	198.429	195.938	198.429
45.0	246.838	230.866	215.981	197.429	181.016	166.858	177.416	192.440	188.895	192.440
47.5	238.699	221.907	206.170	186.043	168.722	156.257	170.684	185.636	181.511	185.636
50.0	230.000	212.348	195.972	174.455	156.584	145.950	163.355	178.168	173.565	178.168
52.5	220.899	202.742	185.182	162.523	144.169	135.891	155.224	170.289	165.320	170.289
55.0	211.609	192.860	174.321	150.587	131.800	126.248	146.643	162.044	156.509	162.044
57.5	201.957	182.818	163.460	138.474	119.641	116.819	137.697	153.262	147.227	153.262
60.0	192.087	172.570	152.275	126.605	107.768	107.339	128.470	144.094	137.991	144.094
62.5	182.431	161.973	140.973	114.652	95.861	97.696	118.831	134.690	128.642	134.690
65.0	172.553	151.326	129.893	102.648	84.235	88.246	109.129	125.324	119.318	125.324
67.5	161.830	140.746	119.070	91.102	72.975	78.649	99.599	115.794	109.964	115.794
70.0	150.654	130.595	108.095	79.544	62.013	69.237	89.956	106.625	101.287	106.625
72.5	140.146	120.851	97.772	68.964	51.832	59.850	80.648	97.877	93.404	97.877
75.0	130.691	111.762	88.171	58.846	41.849	50.824	71.862	88.952	84.273	88.952
77.5	122.119	103.316	79.246	49.581	32.693	42.399	63.596	80.254	75.751	80.254
80.0	114.114	95.193	70.934	41.462	24.419	34.990	55.289	72.593	68.200	72.593
82.5	106.155	87.116	63.428	34.570	17.388	28.001	48.350	64.554	61.047	64.554
85.0	97.898	78.456	55.776	27.859	12.327	22.058	41.399	57.078	54.025	57.078
87.5	89.477	69.846	48.800	22.499	8.744	17.186	35.015	50.102	47.082	50.102
90.0	79.720	61.475	42.038	18.106	6.359	13.045	29.316	43.478	40.610	43.478
92.5	69.548	52.643	34.721	14.116	5.258	9.883	24.142	37.313	34.499	37.313
95.0	60.459	44.444	28.715	10.752	5.027	7.526	19.454	31.588	29.077	31.588
97.5	52.567	37.414	23.407	7.913	4.885	5.767	15.473	26.200	24.079	26.200
100.0	43.995	30.660	18.505	5.817	4.528	4.456	12.277	21.563	19.631	21.563
102.5	35.746	24.881	14.448	4.402	4.053	3.570	9.572	17.678	15.876	17.678
105.0	29.219	20.051	11.004	3.196	3.532	2.848	7.455	14.297	13.054	14.297
107.5	23.776	16.019	8.056	2.188	3.007	2.222	5.771	11.554	10.823	11.554
110.0	19.274	12.550	5.565	1.613	2.486	1.747	4.368	9.370	8.975	9.370
112.5	15.473	9.610	3.511	1.268	2.003	1.399	3.133	7.568	7.258	7.568
115.0	12.285	7.022	2.205	0.966	1.546	1.092	1.982	5.960	5.674	5.960
117.5	9.534	4.683	1.117	0.706	1.147	0.811	1.126	4.498	4.225	4.498
120.0	6.951	2.730	0.294	0.479	0.798	0.571	0.559	3.121	2.869	3.121
122.5	4.645	1.604	0.092	0.298	0.517	0.370	0.151	1.903	1.592	1.903
125.0	2.629	0.659	0.055	0.181	0.307	0.223	0.088	1.042	0.441	1.042
127.5	0.840	0.080	0.034	0.097	0.172	0.134	0.059	0.466	0.063	0.466
130.0	0.059	0.038	0.038	0.050	0.084	0.076	0.050	0.080	0.059	0.080
132.5	0.034	0.042	0.038	0.042	0.046	0.055	0.059	0.050	0.067	0.050

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CANDELA TABULATION - (Cont.)

135.0	0.034	0.042	0.042	0.046	0.046	0.055	0.063	0.059	0.071	0.059
137.5	0.038	0.046	0.046	0.050	0.055	0.063	0.067	0.067	0.080	0.067
140.0	0.046	0.050	0.050	0.059	0.059	0.071	0.071	0.071	0.080	0.071
142.5	0.050	0.055	0.059	0.059	0.063	0.071	0.076	0.076	0.084	0.076
145.0	0.059	0.063	0.063	0.071	0.071	0.080	0.080	0.084	0.084	0.084
147.5	0.063	0.063	0.067	0.071	0.076	0.080	0.084	0.084	0.088	0.084
150.0	0.067	0.067	0.071	0.076	0.080	0.084	0.088	0.088	0.092	0.088
152.5	0.071	0.071	0.076	0.080	0.080	0.088	0.092	0.092	0.097	0.092
155.0	0.076	0.076	0.080	0.084	0.088	0.092	0.097	0.097	0.105	0.097
157.5	0.084	0.088	0.088	0.097	0.097	0.101	0.105	0.109	0.113	0.109
160.0	0.092	0.097	0.097	0.101	0.101	0.105	0.118	0.118	0.126	0.118
162.5	0.092	0.101	0.097	0.092	0.092	0.101	0.113	0.122	0.130	0.122
165.0	0.101	0.113	0.105	0.097	0.092	0.097	0.118	0.126	0.139	0.126
167.5	0.113	0.126	0.113	0.097	0.092	0.092	0.122	0.134	0.151	0.134
170.0	0.122	0.130	0.105	0.092	0.092	0.092	0.113	0.130	0.143	0.130
172.5	0.130	0.118	0.101	0.092	0.088	0.088	0.097	0.113	0.109	0.113
175.0	0.126	0.109	0.097	0.092	0.088	0.088	0.097	0.105	0.105	0.105
177.5	0.109	0.105	0.097	0.088	0.088	0.088	0.088	0.101	0.109	0.101
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	305.105	305.105	305.105	305.105	305.105	305.105	305.105
2.5	302.140	303.668	305.676	307.894	309.775	310.871	305.537
5.0	297.368	300.447	304.471	308.826	312.190	313.744	311.018
7.5	292.043	296.482	302.417	308.956	313.173	314.626	315.764
10.0	286.310	291.833	299.599	308.162	312.606	313.085	317.822
12.5	279.905	286.394	295.856	306.247	309.947	309.477	316.407
15.0	272.685	280.316	291.341	303.194	305.374	304.668	311.896
17.5	264.709	273.475	285.877	299.006	299.628	299.015	305.722
20.0	256.301	266.137	279.657	293.685	293.093	293.614	300.422
22.5	247.342	258.044	272.773	287.230	286.175	288.473	295.726
25.0	237.917	249.304	265.091	279.749	279.283	283.420	291.493
27.5	228.795	240.001	256.738	271.219	272.404	278.342	287.200
30.0	219.975	230.173	247.582	261.807	265.327	272.903	282.719
32.5	211.571	220.034	237.720	251.828	258.136	267.116	278.036
35.0	203.679	209.752	227.132	241.403	250.522	260.996	273.050
37.5	196.648	199.122	216.212	230.635	242.491	254.419	267.511
40.0	190.205	188.202	205.019	219.836	234.028	247.162	261.471
42.5	183.905	177.437	193.137	208.715	225.208	239.236	254.671
45.0	177.416	166.858	181.016	197.429	215.981	230.866	246.838
47.5	170.684	156.257	168.722	186.043	206.170	221.907	238.699
50.0	163.355	145.950	156.584	174.455	195.972	212.348	230.000
52.5	155.224	135.891	144.169	162.523	185.182	202.742	220.899
55.0	146.643	126.248	131.800	150.587	174.321	192.860	211.609
57.5	137.697	116.819	119.641	138.474	163.460	182.818	201.957
60.0	128.470	107.339	107.768	126.605	152.275	172.570	192.087
62.5	118.831	97.696	95.861	114.652	140.973	161.973	182.431
65.0	109.129	88.246	84.235	102.648	129.893	151.326	172.553
67.5	99.599	78.649	72.975	91.102	119.070	140.746	161.830
70.0	89.956	69.237	62.013	79.544	108.095	130.595	150.654
72.5	80.648	59.850	51.832	68.964	97.772	120.851	140.146
75.0	71.862	50.824	41.849	58.846	88.171	111.762	130.691
77.5	63.596	42.399	32.693	49.581	79.246	103.316	122.119
80.0	55.289	34.990	24.419	41.462	70.934	95.193	114.114

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CANDELA TABULATION - (Cont.)

82.5	48.350	28.001	17.388	34.570	63.428	87.116	106.155
85.0	41.399	22.058	12.327	27.859	55.776	78.456	97.898
87.5	35.015	17.186	8.744	22.499	48.800	69.846	89.477
90.0	29.316	13.045	6.359	18.106	42.038	61.475	79.720
92.5	24.142	9.883	5.258	14.116	34.721	52.643	69.548
95.0	19.454	7.526	5.027	10.752	28.715	44.444	60.459
97.5	15.473	5.767	4.885	7.913	23.407	37.414	52.567
100.0	12.277	4.456	4.528	5.817	18.505	30.660	43.995
102.5	9.572	3.570	4.053	4.402	14.448	24.881	35.746
105.0	7.455	2.848	3.532	3.196	11.004	20.051	29.219
107.5	5.771	2.222	3.007	2.188	8.056	16.019	23.776
110.0	4.368	1.747	2.486	1.613	5.565	12.550	19.274
112.5	3.133	1.399	2.003	1.268	3.511	9.610	15.473
115.0	1.982	1.092	1.546	0.966	2.205	7.022	12.285
117.5	1.126	0.811	1.147	0.706	1.117	4.683	9.534
120.0	0.559	0.571	0.798	0.479	0.294	2.730	6.951
122.5	0.151	0.370	0.517	0.298	0.092	1.604	4.645
125.0	0.088	0.223	0.307	0.181	0.055	0.659	2.629
127.5	0.059	0.134	0.172	0.097	0.034	0.080	0.840
130.0	0.050	0.076	0.084	0.050	0.038	0.038	0.059
132.5	0.059	0.055	0.046	0.042	0.038	0.042	0.034
135.0	0.063	0.055	0.046	0.046	0.042	0.042	0.034
137.5	0.067	0.063	0.055	0.050	0.046	0.046	0.038
140.0	0.071	0.071	0.059	0.059	0.050	0.050	0.046
142.5	0.076	0.071	0.063	0.059	0.059	0.055	0.050
145.0	0.080	0.080	0.071	0.071	0.063	0.063	0.059
147.5	0.084	0.080	0.076	0.071	0.067	0.063	0.063
150.0	0.088	0.084	0.080	0.076	0.071	0.067	0.067
152.5	0.092	0.088	0.080	0.080	0.076	0.071	0.071
155.0	0.097	0.092	0.088	0.084	0.080	0.076	0.076
157.5	0.105	0.101	0.097	0.097	0.088	0.088	0.084
160.0	0.118	0.105	0.101	0.101	0.097	0.097	0.092
162.5	0.113	0.101	0.092	0.092	0.097	0.101	0.092
165.0	0.118	0.097	0.092	0.097	0.105	0.113	0.101
167.5	0.122	0.092	0.092	0.097	0.113	0.126	0.113
170.0	0.113	0.092	0.092	0.092	0.105	0.130	0.122
172.5	0.097	0.088	0.088	0.092	0.101	0.118	0.130
175.0	0.097	0.088	0.088	0.092	0.097	0.109	0.126
177.5	0.088	0.088	0.088	0.088	0.097	0.105	0.109
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	110.12	N.A.	11.50
0-30	230.41	N.A.	24.00
0-40	375.05	N.A.	39.00
0-60	669.22	N.A.	69.60
0-80	867.54	N.A.	90.20
0-90	918.59	N.A.	95.50
10-90	889.74	N.A.	92.50
20-40	264.93	N.A.	27.60
20-50	417.28	N.A.	43.40
40-70	410.20	N.A.	42.70
60-80	198.32	N.A.	20.60
70-80	82.29	N.A.	8.60
80-90	51.05	N.A.	5.30
90-110	38.17	N.A.	4.00
90-120	42.03	N.A.	4.40
90-130	42.62	N.A.	4.40
90-150	42.70	N.A.	4.40
90-180	42.79	N.A.	4.50
110-180	4.61	N.A.	0.50
0-180	961.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.85
10-20	81.27
20-30	120.29
30-40	144.64
40-50	152.35
50-60	141.82
60-70	116.03
70-80	82.29
80-90	51.05
90-100	26.74
100-110	11.44
110-120	3.85
120-130	0.59
130-140	0.04
140-150	0.04
150-160	0.04
160-170	0.03
170-180	0.01

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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	70	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	63	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	29	24	34	28	23	33	27	23	21

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UGR TABLE - CORRECTED

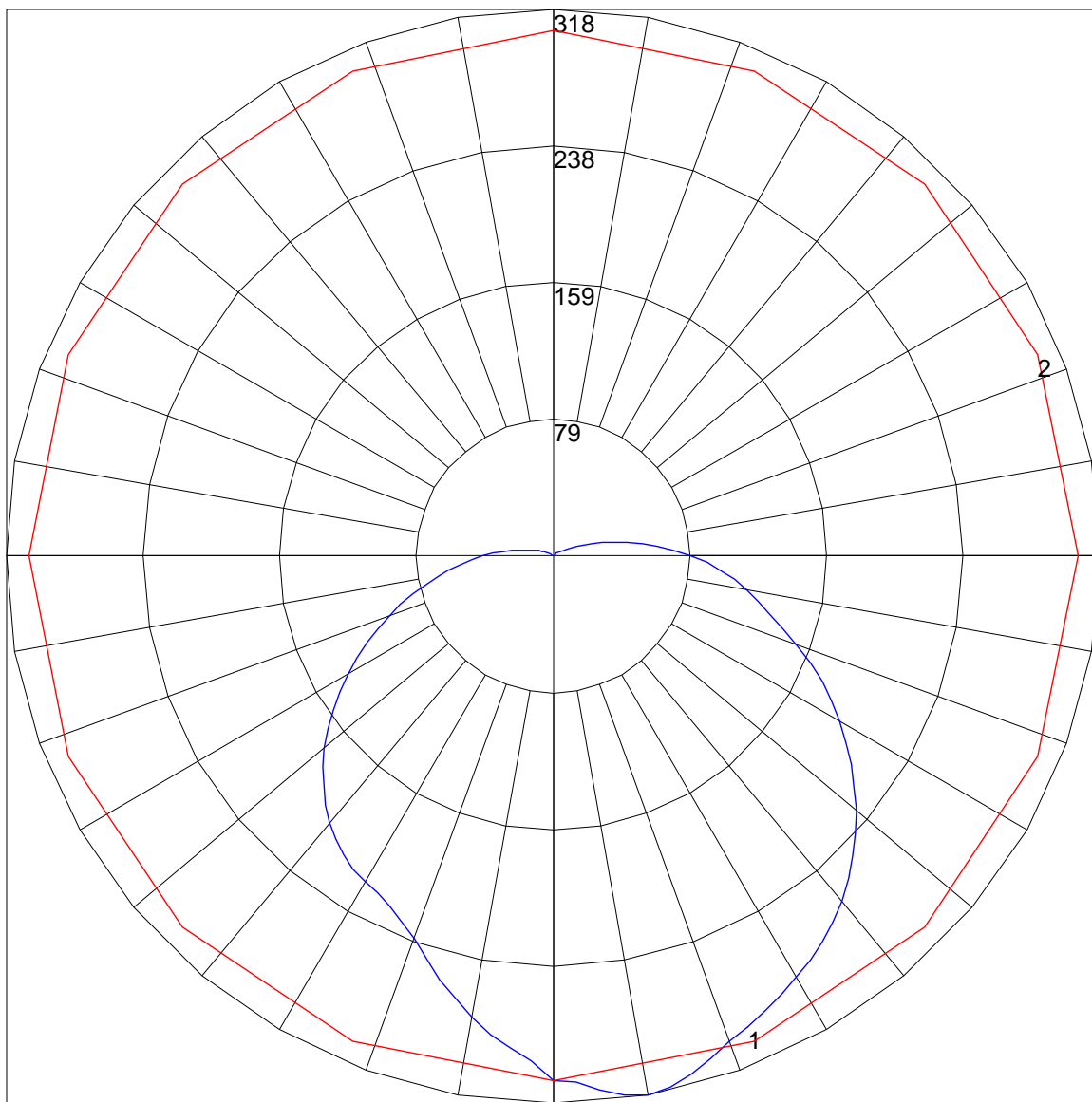
Reflectances

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	18.2	19.7	18.6	20.2	20.6	15.5	17.0	15.9	17.5	17.9
	3H	20.5	22.0	21.0	22.4	22.9	16.9	18.4	17.4	18.8	19.3
	4H	21.6	23.0	22.1	23.4	23.9	17.4	18.8	17.9	19.2	19.7
	6H	22.7	24.0	23.2	24.4	24.9	17.7	19.0	18.2	19.4	19.9
	8H	23.2	24.4	23.7	24.9	25.4	17.8	19.0	18.3	19.5	20.0
	12H	23.8	24.9	24.3	25.4	25.9	17.8	19.0	18.3	19.5	20.0
4H	2H	18.7	20.0	19.1	20.5	21.0	16.5	17.8	16.9	18.3	18.8
	3H	21.2	22.4	21.7	22.9	23.4	18.2	19.3	18.7	19.8	20.3
	4H	22.5	23.5	23.0	24.0	24.6	18.7	19.8	19.2	20.3	20.9
	6H	23.8	24.7	24.3	25.2	25.8	19.2	20.1	19.7	20.6	21.2
	8H	24.4	25.3	25.0	25.8	26.4	19.3	20.2	19.8	20.7	21.3
	12H	25.1	25.9	25.6	26.4	27.0	19.4	20.2	19.9	20.7	21.3
8H	4H	22.8	23.6	23.3	24.2	24.7	19.5	20.4	20.0	20.9	21.5
	6H	24.2	25.0	24.8	25.5	26.1	20.1	20.8	20.6	21.4	22.0
	8H	25.0	25.7	25.6	26.3	26.9	20.3	21.0	20.9	21.6	22.2
	12H	25.9	26.5	26.4	27.0	27.7	20.5	21.1	21.0	21.6	22.3
12H	4H	22.8	23.6	23.3	24.1	24.7	19.7	20.5	20.3	21.1	21.6
	6H	24.3	25.0	24.9	25.5	26.2	20.4	21.1	21.0	21.6	22.3
	8H	25.2	25.8	25.7	26.3	27.0	20.7	21.3	21.3	21.9	22.6

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 317.822 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)