



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDPLUSHT-WALL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3694
[TESTLAB] TUV SUD America
[ISSUEDATE] 8/23/2019 2:56:00 PM
[MANUFAC] BEGHELLI NORTH AMERICA
[LUMCAT] TALEDPLUSHT-WALL
[LUMINAIRE] 3868-1
[_AMBIENT] 24.6 deg C
[_POWERFACTOR] 0.9966
[_ATHD] 7.10%
[_CURRENT] 0.18
[_VOLTAGE] 120.00
[_STABILIZATION] 61:10.0 Stable
[_POWER VARIATION] 0.46 %
[_LIGHT VARIATION] 0.25 %
[_Lumens] 2216.4

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2216
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	21.68
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	3.24
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.90
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.42 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17729	16010	13988
55	17139	14794	10782
65	16105	13406	7734
75	15168	12152	4986
85	14603	10970	4055

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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	241.38	241.38	241.38	241.38	241.38	241.38	241.38	241.38	241.38	241.38
2.5	239.56	280.82	274.18	263.38	250.51	236.56	224.52	217.32	171.83	217.32
5.0	274.15	316.56	297.88	275.28	249.23	221.80	200.93	188.35	146.58	188.35
7.5	308.73	347.35	324.64	286.34	247.11	206.80	177.78	160.45	120.16	160.45
10.0	346.41	381.99	345.78	296.22	244.17	191.80	157.00	134.62	96.14	134.62
12.5	384.94	415.36	371.02	305.80	240.47	177.79	136.60	113.19	77.66	113.19
15.0	425.40	449.94	394.94	317.45	235.91	163.97	118.09	92.48	62.57	92.48
17.5	458.61	481.09	413.83	322.87	230.48	150.64	100.38	75.33	49.84	75.33
20.0	498.97	511.12	438.35	328.01	224.21	137.84	84.44	61.12	39.26	61.12
22.5	533.20	542.84	454.44	335.14	217.50	125.00	70.85	49.23	30.14	49.23
25.0	565.15	568.17	471.72	342.44	210.12	111.83	59.26	38.90	21.77	38.90
27.5	597.82	594.54	489.50	340.43	201.88	98.52	49.07	29.97	14.39	29.97
30.0	627.99	618.69	502.49	341.12	192.97	86.36	40.15	21.95	7.86	21.95
32.5	655.50	641.23	514.30	343.45	183.89	75.45	32.08	14.82	2.45	14.82
35.0	682.47	661.91	525.47	342.85	174.19	65.75	24.86	8.73	0.20	8.73
37.5	707.72	681.27	534.93	337.52	164.46	57.04	18.21	4.54	0.16	4.54
40.0	732.09	698.90	542.57	333.52	154.36	48.97	12.17	1.73	0.15	1.73
42.5	753.44	714.44	548.92	329.22	144.04	41.65	6.88	0.18	0.15	0.18
45.0	773.68	727.64	553.75	324.64	133.29	35.01	3.18	0.11	0.14	0.11
47.5	790.94	738.48	557.11	317.44	122.60	28.89	0.87	0.11	0.14	0.11
50.0	805.01	746.54	558.74	309.98	112.42	23.19	0.16	0.10	0.12	0.10
52.5	815.81	751.28	558.25	302.32	102.17	18.08	0.11	0.10	0.12	0.10
55.0	823.23	753.11	555.49	293.51	91.84	13.48	0.09	0.10	0.12	0.10
57.5	827.38	752.07	550.94	284.18	82.32	9.57	0.08	0.10	0.14	0.10
60.0	828.02	748.67	544.64	274.49	73.04	6.94	0.09	0.10	0.14	0.10
62.5	825.56	743.26	536.92	264.87	64.30	5.80	0.09	0.11	0.16	0.11
65.0	820.82	736.59	527.77	255.16	56.06	5.80	0.09	0.12	0.17	0.12
67.5	814.73	729.15	518.05	244.77	48.30	5.87	0.10	0.13	0.17	0.13
70.0	807.62	721.14	507.73	234.81	41.15	5.90	0.11	0.15	0.19	0.15
72.5	800.61	713.41	497.47	225.76	34.57	5.92	0.12	0.16	0.21	0.16
75.0	794.09	705.12	485.96	216.05	28.71	5.95	0.13	0.17	0.22	0.17
77.5	787.67	696.01	473.89	206.47	23.92	5.98	0.14	0.18	0.23	0.18
80.0	782.09	683.32	461.57	196.68	20.26	5.92	0.15	0.20	0.24	0.20
82.5	774.99	666.17	446.69	187.64	17.83	5.83	0.16	0.21	0.25	0.21
85.0	761.52	647.25	432.21	178.43	16.60	5.75	0.17	0.22	0.26	0.22
87.5	738.79	625.01	417.65	169.41	16.01	5.61	0.17	0.23	0.26	0.23
90.0	711.51	601.60	401.55	161.16	15.67	5.49	0.17	0.23	0.26	0.23
92.5	683.38	579.15	385.29	152.97	15.29	5.31	0.17	0.23	0.26	0.23
95.0	657.61	556.61	369.12	145.97	15.06	5.09	0.18	0.23	0.26	0.23
97.5	633.26	534.89	352.40	138.53	14.99	4.86	0.17	0.23	0.24	0.23
100.0	609.57	512.31	338.00	132.17	14.89	4.60	0.17	0.22	0.22	0.22
102.5	585.00	489.63	324.06	125.64	14.85	4.34	0.16	0.21	0.20	0.21
105.0	560.09	469.20	309.90	119.37	14.86	4.10	0.15	0.20	0.19	0.20
107.5	535.58	448.16	296.70	113.30	14.95	3.86	0.15	0.19	0.17	0.19
110.0	510.71	427.66	282.24	107.47	15.13	3.63	0.14	0.17	0.16	0.17
112.5	489.90	407.36	267.35	101.76	15.38	3.42	0.13	0.17	0.16	0.17
115.0	467.31	385.76	252.58	96.22	15.65	3.25	0.13	0.17	0.15	0.17
117.5	443.19	363.69	237.55	90.73	15.95	3.16	0.14	0.17	0.16	0.17
120.0	418.61	341.78	222.57	85.57	16.33	3.14	0.13	0.16	0.17	0.16
122.5	394.13	320.14	208.02	80.79	16.75	3.17	0.14	0.16	0.17	0.16
125.0	369.25	298.19	193.74	76.35	17.17	3.30	0.15	0.17	0.17	0.17
127.5	344.61	276.84	179.47	72.28	17.57	3.54	0.16	0.17	0.18	0.17
130.0	319.82	255.44	165.63	68.60	17.93	3.84	0.18	0.18	0.19	0.18
132.5	295.67	235.01	152.18	65.15	18.13	4.17	0.25	0.18	0.20	0.18

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PHOTOMETRIC FILENAME : TALEDPLUSHT-WALL.IES

CANDELA TABULATION - (Cont.)

135.0	272.10	214.70	139.04	61.84	18.13	4.56	0.44	0.19	0.21	0.19
137.5	249.00	195.10	126.72	58.62	17.93	4.96	0.67	0.18	0.20	0.18
140.0	226.55	176.04	115.12	54.90	17.56	5.35	0.99	0.21	0.19	0.21
142.5	204.60	158.12	104.62	50.10	17.08	5.71	1.38	0.32	0.27	0.32
145.0	183.34	140.99	95.22	44.16	16.45	6.00	1.81	0.47	0.46	0.47
147.5	163.22	125.04	86.54	37.52	15.71	6.21	2.22	0.70	0.56	0.70
150.0	143.86	110.84	78.32	31.74	14.94	6.36	2.58	0.97	0.56	0.97
152.5	126.66	98.23	69.52	27.07	14.13	6.48	2.90	1.24	0.70	1.24
155.0	111.44	86.92	59.77	23.33	13.25	6.57	3.17	1.46	0.81	1.46
157.5	97.80	75.98	47.61	20.38	12.38	6.58	3.40	1.52	0.94	1.52
160.0	85.54	64.66	35.61	17.90	11.44	6.53	3.50	1.63	0.97	1.63
162.5	74.40	48.59	25.40	15.28	10.49	6.44	3.45	1.61	0.96	1.61
165.0	62.49	34.72	17.85	12.95	9.52	6.27	3.28	1.74	1.10	1.74
167.5	47.83	23.30	12.68	11.03	8.51	5.99	3.02	1.96	1.30	1.96
170.0	25.31	12.58	10.22	9.24	7.49	5.57	2.81	2.20	1.51	2.20
172.5	12.21	8.95	8.23	7.75	6.59	5.15	2.79	2.40	1.72	2.40
175.0	6.10	6.35	6.60	6.33	5.66	4.67	3.14	2.57	1.97	2.57
177.5	2.96	4.36	5.58	5.37	5.11	4.44	3.65	3.29	2.26	3.29
180.0	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

**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	241.38	241.38	241.38	241.38	241.38	241.38	241.38
2.5	224.52	236.56	250.51	263.38	274.18	280.82	239.56
5.0	200.93	221.80	249.23	275.28	297.88	316.56	274.15
7.5	177.78	206.80	247.11	286.34	324.64	347.35	308.73
10.0	157.00	191.80	244.17	296.22	345.78	381.99	346.41
12.5	136.60	177.79	240.47	305.80	371.02	415.36	384.94
15.0	118.09	163.97	235.91	317.45	394.94	449.94	425.40
17.5	100.38	150.64	230.48	322.87	413.83	481.09	458.61
20.0	84.44	137.84	224.21	328.01	438.35	511.12	498.97
22.5	70.85	125.00	217.50	335.14	454.44	542.84	533.20
25.0	59.26	111.83	210.12	342.44	471.72	568.17	565.15
27.5	49.07	98.52	201.88	340.43	489.50	594.54	597.82
30.0	40.15	86.36	192.97	341.12	502.49	618.69	627.99
32.5	32.08	75.45	183.89	343.45	514.30	641.23	655.50
35.0	24.86	65.75	174.19	342.85	525.47	661.91	682.47
37.5	18.21	57.04	164.46	337.52	534.93	681.27	707.72
40.0	12.17	48.97	154.36	333.52	542.57	698.90	732.09
42.5	6.88	41.65	144.04	329.22	548.92	714.44	753.44
45.0	3.18	35.01	133.29	324.64	553.75	727.64	773.68
47.5	0.87	28.89	122.60	317.44	557.11	738.48	790.94
50.0	0.16	23.19	112.42	309.98	558.74	746.54	805.01
52.5	0.11	18.08	102.17	302.32	558.25	751.28	815.81
55.0	0.09	13.48	91.84	293.51	555.49	753.11	823.23
57.5	0.08	9.57	82.32	284.18	550.94	752.07	827.38
60.0	0.09	6.94	73.04	274.49	544.64	748.67	828.02
62.5	0.09	5.80	64.30	264.87	536.92	743.26	825.56
65.0	0.09	5.80	56.06	255.16	527.77	736.59	820.82
67.5	0.10	5.87	48.30	244.77	518.05	729.15	814.73
70.0	0.11	5.90	41.15	234.81	507.73	721.14	807.62
72.5	0.12	5.92	34.57	225.76	497.47	713.41	800.61
75.0	0.13	5.95	28.71	216.05	485.96	705.12	794.09
77.5	0.14	5.98	23.92	206.47	473.89	696.01	787.67
80.0	0.15	5.92	20.26	196.68	461.57	683.32	782.09

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TALEDPLUSHT-WALL.IES

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82.5	0.16	5.83	17.83	187.64	446.69	666.17	774.99
85.0	0.17	5.75	16.60	178.43	432.21	647.25	761.52
87.5	0.17	5.61	16.01	169.41	417.65	625.01	738.79
90.0	0.17	5.49	15.67	161.16	401.55	601.60	711.51
92.5	0.17	5.31	15.29	152.97	385.29	579.15	683.38
95.0	0.18	5.09	15.06	145.97	369.12	556.61	657.61
97.5	0.17	4.86	14.99	138.53	352.40	534.89	633.26
100.0	0.17	4.60	14.89	132.17	338.00	512.31	609.57
102.5	0.16	4.34	14.85	125.64	324.06	489.63	585.00
105.0	0.15	4.10	14.86	119.37	309.90	469.20	560.09
107.5	0.15	3.86	14.95	113.30	296.70	448.16	535.58
110.0	0.14	3.63	15.13	107.47	282.24	427.66	510.71
112.5	0.13	3.42	15.38	101.76	267.35	407.36	489.90
115.0	0.13	3.25	15.65	96.22	252.58	385.76	467.31
117.5	0.14	3.16	15.95	90.73	237.55	363.69	443.19
120.0	0.13	3.14	16.33	85.57	222.57	341.78	418.61
122.5	0.14	3.17	16.75	80.79	208.02	320.14	394.13
125.0	0.15	3.30	17.17	76.35	193.74	298.19	369.25
127.5	0.16	3.54	17.57	72.28	179.47	276.84	344.61
130.0	0.18	3.84	17.93	68.60	165.63	255.44	319.82
132.5	0.25	4.17	18.13	65.15	152.18	235.01	295.67
135.0	0.44	4.56	18.13	61.84	139.04	214.70	272.10
137.5	0.67	4.96	17.93	58.62	126.72	195.10	249.00
140.0	0.99	5.35	17.56	54.90	115.12	176.04	226.55
142.5	1.38	5.71	17.08	50.10	104.62	158.12	204.60
145.0	1.81	6.00	16.45	44.16	95.22	140.99	183.34
147.5	2.22	6.21	15.71	37.52	86.54	125.04	163.22
150.0	2.58	6.36	14.94	31.74	78.32	110.84	143.86
152.5	2.90	6.48	14.13	27.07	69.52	98.23	126.66
155.0	3.17	6.57	13.25	23.33	59.77	86.92	111.44
157.5	3.40	6.58	12.38	20.38	47.61	75.98	97.80
160.0	3.50	6.53	11.44	17.90	35.61	64.66	85.54
162.5	3.45	6.44	10.49	15.28	25.40	48.59	74.40
165.0	3.28	6.27	9.52	12.95	17.85	34.72	62.49
167.5	3.02	5.99	8.51	11.03	12.68	23.30	47.83
170.0	2.81	5.57	7.49	9.24	10.22	12.58	25.31
172.5	2.79	5.15	6.59	7.75	8.23	8.95	12.21
175.0	3.14	4.67	5.66	6.33	6.60	6.35	6.10
177.5	3.65	4.44	5.11	5.37	5.58	4.36	2.96
180.0	4.00	4.00	4.00	4.00	4.00	4.00	4.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	94.88	N.A.	4.30
0-30	216.07	N.A.	9.70
0-40	384.39	N.A.	17.30
0-60	830.67	N.A.	37.50
0-80	1320.62	N.A.	59.60
0-90	1546.56	N.A.	69.80
10-90	1523.14	N.A.	68.70
20-40	289.51	N.A.	13.10
20-50	498.69	N.A.	22.50
40-70	693.16	N.A.	31.30
60-80	489.95	N.A.	22.10
70-80	243.07	N.A.	11.00
80-90	225.94	N.A.	10.20
90-110	352.60	N.A.	15.90
90-120	475.19	N.A.	21.40
90-130	562.27	N.A.	25.40
90-150	649.82	N.A.	29.30
90-180	669.59	N.A.	30.20
110-180	317.00	N.A.	14.30
0-180	2216.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.42
10-20	71.46
20-30	121.19
30-40	168.32
40-50	209.19
50-60	237.10
60-70	246.88
70-80	243.07
80-90	225.94
90-100	194.00
100-110	158.60
110-120	122.59
120-130	87.08
130-140	56.02
140-150	31.53
150-160	14.72
160-170	4.49
170-180	0.56

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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	97	91	85	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48
2	86	76	68	61	81	72	64	58	63	57	52	55	50	46	48	44	41	37
3	78	65	56	48	72	62	53	46	54	47	41	47	42	37	41	36	32	29
4	70	57	47	40	66	54	45	38	47	40	34	41	35	30	36	31	27	23
5	64	50	40	33	60	47	38	31	42	34	28	36	30	25	32	26	22	19
6	59	45	35	28	55	42	33	27	37	30	24	33	26	22	28	23	19	16
7	54	40	31	24	51	38	29	23	33	26	21	29	23	19	26	20	17	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	15	12
9	47	33	24	19	44	31	23	18	28	21	16	24	19	14	21	16	13	11
10	44	30	22	17	41	29	21	16	25	19	14	23	17	13	20	15	12	9

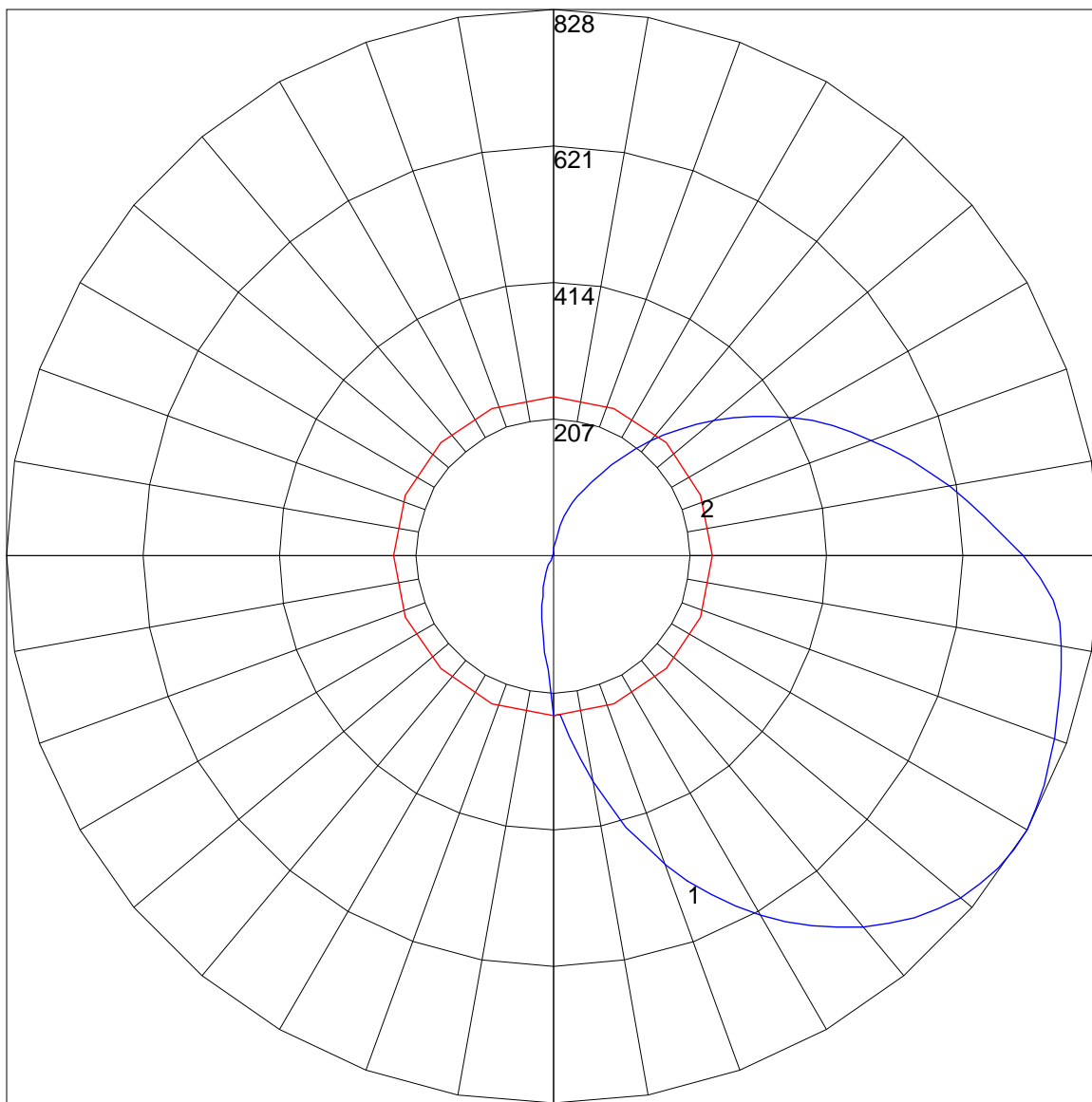
IES INDOOR REPORT
PHOTOMETRIC FILENAME : TALEDPLUSHT-WALL.IES

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	23.3	24.6	24.1	25.4	26.3	13.1	14.4	13.8	15.1	16.1
	3H	26.0	27.1	26.7	27.9	28.9	14.1	15.3	14.9	16.1	17.1
	4H	27.2	28.3	28.0	29.1	30.1	14.5	15.6	15.2	16.4	17.3
	6H	28.4	29.5	29.2	30.3	31.3	14.6	15.7	15.4	16.5	17.5
	8H	29.0	30.0	29.8	30.8	31.8	14.7	15.7	15.5	16.5	17.5
	12H	29.6	30.5	30.4	31.4	32.4	14.7	15.7	15.5	16.5	17.5
4H	2H	23.8	24.9	24.5	25.7	26.6	16.7	17.8	17.5	18.6	19.6
	3H	26.7	27.6	27.4	28.5	29.5	18.1	19.1	18.9	19.9	20.9
	4H	28.1	29.0	28.9	29.9	30.9	18.6	19.5	19.4	20.3	21.3
	6H	29.6	30.4	30.4	31.2	32.3	18.8	19.7	19.7	20.5	21.5
	8H	30.3	31.0	31.1	31.9	32.9	18.9	19.7	19.7	20.5	21.6
	12H	31.0	31.7	31.8	32.5	33.6	19.0	19.7	19.8	20.5	21.6
8H	4H	28.4	29.2	29.2	30.0	31.1	21.0	21.8	21.9	22.7	23.7
	6H	30.1	30.8	30.9	31.6	32.7	21.6	22.3	22.5	23.2	24.2
	8H	31.0	31.6	31.8	32.4	33.5	21.8	22.4	22.7	23.3	24.4
	12H	31.8	32.4	32.7	33.3	34.4	21.9	22.5	22.8	23.4	24.5
12H	4H	28.4	29.1	29.3	30.0	31.0	21.8	22.5	22.6	23.4	24.4
	6H	30.2	30.8	31.0	31.6	32.7	22.6	23.2	23.5	24.1	25.2
	8H	31.1	31.7	32.0	32.5	33.6	23.0	23.5	23.8	24.4	25.5

Maximum UGR = 34.4

POLAR GRAPH



Maximum Candela = 828.02 Located At Horizontal Angle = 0, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)