



IES INDOOR REPORT
PHOTOMETRIC FILENAME : TALEDPLUSSE-CEILING.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3767
 [TESTLAB] TUV SUD America
 [ISSUEDATE] 10/15/2019 8:54:06 AM
 [MANUFAC] BEGHELLI NORTH AMERICA
 [LUMCAT] TALEDPLUSSE
 [LUMINAIRE] 3929-1
 [_AMBIENT] 24.5deg C
 [_WARMUP] 0:30.0
 [_Lumens] 1490.8

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	276
Total Luminaire Watts	5.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.42 ft
Luminous Width (90-270)	1.25 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7464	6764	6841
55	7217	6283	5982
65	7083	5695	4943
75	7113	5195	3632
85	7703	5005	1707

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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	439.79	439.79	439.79	439.79	439.79	439.79	439.79	439.79	439.79	439.79
2.5	439.80	439.60	439.66	439.60	438.37	439.60	439.66	439.60	439.80	439.60
5.0	438.30	437.94	438.33	437.63	436.39	437.63	438.33	437.94	438.30	437.94
7.5	435.90	434.83	435.15	434.74	433.31	434.74	435.15	434.83	435.90	434.83
10.0	430.32	429.56	430.72	430.70	428.89	430.70	430.72	429.56	430.32	429.56
12.5	422.55	421.83	424.62	425.30	423.18	425.30	424.62	421.83	422.55	421.83
15.0	414.78	413.95	416.25	418.84	416.18	418.84	416.25	413.95	414.78	413.95
17.5	407.47	406.06	407.45	410.77	408.42	410.77	407.45	406.06	407.47	406.06
20.0	400.04	398.74	398.15	401.85	398.95	401.85	398.15	398.74	400.04	398.74
22.5	394.07	391.00	388.76	391.54	388.51	391.54	388.76	391.00	394.07	391.00
25.0	389.46	384.34	379.29	380.30	377.22	380.30	379.29	384.34	389.46	384.34
27.5	384.95	378.66	369.31	367.93	364.80	367.93	369.31	378.66	384.95	378.66
30.0	379.68	372.94	359.28	354.72	351.54	354.72	359.28	372.94	379.68	372.94
32.5	373.53	366.37	350.03	341.45	337.24	341.45	350.03	366.37	373.53	366.37
35.0	366.49	358.97	340.77	327.46	322.35	327.46	340.77	358.97	366.49	358.97
37.5	359.24	351.28	330.93	313.06	306.88	313.06	330.93	351.28	359.24	351.28
40.0	351.14	342.33	320.55	298.53	290.80	298.53	320.55	342.33	351.14	342.33
42.5	342.11	332.93	309.24	283.40	274.23	283.40	309.24	332.93	342.11	332.93
45.0	332.33	322.49	297.20	268.18	257.73	268.18	297.20	322.49	332.33	322.49
47.5	321.33	311.40	284.71	253.04	241.03	253.04	284.71	311.40	321.33	311.40
50.0	309.68	299.24	272.14	238.17	224.23	238.17	272.14	299.24	309.68	299.24
52.5	297.89	287.14	258.86	223.03	207.20	223.03	258.86	287.14	297.89	287.14
55.0	286.38	274.66	245.06	207.55	189.93	207.55	245.06	274.66	286.38	274.66
57.5	274.45	261.87	230.57	191.87	172.61	191.87	230.57	261.87	274.45	261.87
60.0	262.69	249.37	215.83	176.16	155.35	176.16	215.83	249.37	262.69	249.37
62.5	250.35	236.46	201.26	160.40	139.20	160.40	201.26	236.46	250.35	236.46
65.0	238.26	223.87	187.29	144.64	122.87	144.64	187.29	223.87	238.26	223.87
67.5	226.49	211.00	173.08	129.59	107.06	129.59	173.08	211.00	226.49	211.00
70.0	214.60	199.21	159.11	114.34	91.43	114.34	159.11	199.21	214.60	199.21
72.5	201.85	186.60	146.15	99.47	76.85	99.47	146.15	186.60	201.85	186.60
75.0	189.00	173.71	133.87	85.76	62.53	85.76	133.87	173.71	189.00	173.71
77.5	177.27	161.34	121.37	73.37	48.75	73.37	121.37	161.34	177.27	161.34
80.0	166.30	150.16	109.21	61.87	36.39	61.87	109.21	150.16	166.30	150.16
82.5	155.35	139.73	98.86	51.75	24.86	51.75	98.86	139.73	155.35	139.73
85.0	144.02	128.65	89.44	42.59	15.44	42.59	89.44	128.65	144.02	128.65
87.5	132.02	117.34	79.60	35.03	8.35	35.03	79.60	117.34	132.02	117.34
90.0	118.24	104.22	68.68	27.64	5.57	27.64	68.68	104.22	118.24	104.22
92.5	103.68	90.47	57.97	21.05	5.20	21.05	57.97	90.47	103.68	90.47
95.0	89.71	77.59	48.74	15.68	4.76	15.68	48.74	77.59	89.71	77.59
97.5	77.30	66.40	39.59	11.60	4.68	11.60	39.59	66.40	77.30	66.40
100.0	65.19	55.18	31.24	8.80	4.36	8.80	31.24	55.18	65.19	55.18
102.5	54.11	44.81	24.93	5.90	3.77	5.90	24.93	44.81	54.11	44.81
105.0	43.99	36.21	19.64	3.53	3.23	3.53	19.64	36.21	43.99	36.21
107.5	35.88	29.63	15.25	1.98	2.84	1.98	15.25	29.63	35.88	29.63
110.0	29.32	23.99	11.25	1.28	2.02	1.28	11.25	23.99	29.32	23.99
112.5	23.93	19.04	7.69	0.88	1.61	0.88	7.69	19.04	23.93	19.04
115.0	19.02	14.76	4.40	0.53	1.17	0.53	4.40	14.76	19.02	14.76
117.5	14.56	10.77	1.63	0.17	0.57	0.17	1.63	10.77	14.56	10.77
120.0	10.46	7.20	0.28	0.00	0.10	0.00	0.28	7.20	10.46	7.20
122.5	7.15	3.72	0.00	0.00	0.00	0.00	0.00	3.72	7.15	3.72
125.0	3.71	1.26	0.00	0.00	0.00	0.00	0.00	1.26	3.71	1.26
127.5	1.54	0.09	0.00	0.00	0.00	0.00	0.00	0.09	1.54	0.09
130.0	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00
152.5	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
157.5	0.01	0.05	0.03	0.00	0.10	0.00	0.03	0.05	0.01	0.05
160.0	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00
162.5	0.00	0.01	0.00	0.01	0.07	0.01	0.00	0.01	0.00	0.01
165.0	0.04	0.09	0.06	0.09	0.03	0.09	0.06	0.09	0.04	0.09
167.5	0.09	0.05	0.09	0.03	0.28	0.03	0.09	0.05	0.09	0.05
170.0	0.10	0.06	0.11	0.03	0.17	0.03	0.11	0.06	0.10	0.06
172.5	0.01	0.07	0.06	0.08	0.03	0.08	0.06	0.07	0.01	0.07
175.0	0.10	0.09	0.25	0.16	0.14	0.16	0.25	0.09	0.10	0.09
177.5	0.14	0.18	0.21	0.19	0.23	0.19	0.21	0.18	0.14	0.18
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	439.79	439.79	439.79	439.79	439.79	439.79	439.79
2.5	439.66	439.60	438.37	439.60	439.66	439.60	439.80
5.0	438.33	437.63	436.39	437.63	438.33	437.94	438.30
7.5	435.15	434.74	433.31	434.74	435.15	434.83	435.90
10.0	430.72	430.70	428.89	430.70	430.72	429.56	430.32
12.5	424.62	425.30	423.18	425.30	424.62	421.83	422.55
15.0	416.25	418.84	416.18	418.84	416.25	413.95	414.78
17.5	407.45	410.77	408.42	410.77	407.45	406.06	407.47
20.0	398.15	401.85	398.95	401.85	398.15	398.74	400.04
22.5	388.76	391.54	388.51	391.54	388.76	391.00	394.07
25.0	379.29	380.30	377.22	380.30	379.29	384.34	389.46
27.5	369.31	367.93	364.80	367.93	369.31	378.66	384.95
30.0	359.28	354.72	351.54	354.72	359.28	372.94	379.68
32.5	350.03	341.45	337.24	341.45	350.03	366.37	373.53
35.0	340.77	327.46	322.35	327.46	340.77	358.97	366.49
37.5	330.93	313.06	306.88	313.06	330.93	351.28	359.24
40.0	320.55	298.53	290.80	298.53	320.55	342.33	351.14
42.5	309.24	283.40	274.23	283.40	309.24	332.93	342.11
45.0	297.20	268.18	257.73	268.18	297.20	322.49	332.33
47.5	284.71	253.04	241.03	253.04	284.71	311.40	321.33
50.0	272.14	238.17	224.23	238.17	272.14	299.24	309.68
52.5	258.86	223.03	207.20	223.03	258.86	287.14	297.89
55.0	245.06	207.55	189.93	207.55	245.06	274.66	286.38
57.5	230.57	191.87	172.61	191.87	230.57	261.87	274.45
60.0	215.83	176.16	155.35	176.16	215.83	249.37	262.69
62.5	201.26	160.40	139.20	160.40	201.26	236.46	250.35
65.0	187.29	144.64	122.87	144.64	187.29	223.87	238.26
67.5	173.08	129.59	107.06	129.59	173.08	211.00	226.49
70.0	159.11	114.34	91.43	114.34	159.11	199.21	214.60
72.5	146.15	99.47	76.85	99.47	146.15	186.60	201.85
75.0	133.87	85.76	62.53	85.76	133.87	173.71	189.00
77.5	121.37	73.37	48.75	73.37	121.37	161.34	177.27
80.0	109.21	61.87	36.39	61.87	109.21	150.16	166.30

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CANDELA TABULATION - (Cont.)

82.5	98.86	51.75	24.86	51.75	98.86	139.73	155.35
85.0	89.44	42.59	15.44	42.59	89.44	128.65	144.02
87.5	79.60	35.03	8.35	35.03	79.60	117.34	132.02
90.0	68.68	27.64	5.57	27.64	68.68	104.22	118.24
92.5	57.97	21.05	5.20	21.05	57.97	90.47	103.68
95.0	48.74	15.68	4.76	15.68	48.74	77.59	89.71
97.5	39.59	11.60	4.68	11.60	39.59	66.40	77.30
100.0	31.24	8.80	4.36	8.80	31.24	55.18	65.19
102.5	24.93	5.90	3.77	5.90	24.93	44.81	54.11
105.0	19.64	3.53	3.23	3.53	19.64	36.21	43.99
107.5	15.25	1.98	2.84	1.98	15.25	29.63	35.88
110.0	11.25	1.28	2.02	1.28	11.25	23.99	29.32
112.5	7.69	0.88	1.61	0.88	7.69	19.04	23.93
115.0	4.40	0.53	1.17	0.53	4.40	14.76	19.02
117.5	1.63	0.17	0.57	0.17	1.63	10.77	14.56
120.0	0.28	0.00	0.10	0.00	0.28	7.20	10.46
122.5	0.00	0.00	0.00	0.00	0.00	3.72	7.15
125.0	0.00	0.00	0.00	0.00	0.00	1.26	3.71
127.5	0.00	0.00	0.00	0.00	0.00	0.09	1.54
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.27
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.01	0.00	0.00	0.00	0.01	0.00	0.00
152.5	0.01	0.00	0.00	0.00	0.01	0.00	0.00
155.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00
157.5	0.03	0.00	0.10	0.00	0.03	0.05	0.01
160.0	0.03	0.00	0.00	0.00	0.03	0.00	0.00
162.5	0.00	0.01	0.07	0.01	0.00	0.01	0.00
165.0	0.06	0.09	0.03	0.09	0.06	0.09	0.04
167.5	0.09	0.03	0.28	0.03	0.09	0.05	0.09
170.0	0.11	0.03	0.17	0.03	0.11	0.06	0.10
172.5	0.06	0.08	0.03	0.08	0.06	0.07	0.01
175.0	0.25	0.16	0.14	0.16	0.25	0.09	0.10
177.5	0.21	0.19	0.23	0.19	0.21	0.18	0.14
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	158.94	N.A.	10.70
0-30	335.09	N.A.	22.50
0-40	549.75	N.A.	36.90
0-60	993.84	N.A.	66.70
0-80	1313.94	N.A.	88.10
0-90	1407.01	N.A.	94.40
10-90	1365.46	N.A.	91.60
20-40	390.81	N.A.	26.20
20-50	619.04	N.A.	41.50
40-70	626.60	N.A.	42.00
60-80	320.11	N.A.	21.50
70-80	137.59	N.A.	9.20
80-90	93.07	N.A.	6.20
90-110	75.29	N.A.	5.00
90-120	82.97	N.A.	5.60
90-130	83.99	N.A.	5.60
90-150	83.99	N.A.	5.60
90-180	84.02	N.A.	5.60
110-180	8.73	N.A.	0.60
0-180	1491.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	41.55
10-20	117.38
20-30	176.15
30-40	214.66
40-50	228.23
50-60	215.86
60-70	182.52
70-80	137.59
80-90	93.07
90-100	52.41
100-110	22.88
110-120	7.68
120-130	1.02
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.01
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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	105	99	94	90	102	97	92	88	91	87	84	86	83	80	82	79	77	74
2	95	86	78	72	92	83	76	70	79	73	68	74	70	65	71	67	63	60
3	86	75	66	59	83	73	64	58	69	62	56	65	59	54	62	57	53	50
4	79	66	56	49	76	64	55	49	61	53	47	58	51	46	55	49	45	42
5	72	59	49	42	70	57	48	42	54	47	41	52	45	40	49	43	39	36
6	66	53	43	37	64	51	43	36	49	41	35	47	40	35	45	39	34	32
7	62	48	38	32	59	46	38	32	44	37	31	42	36	31	41	35	30	28
8	57	43	35	29	55	42	34	28	41	33	28	39	32	27	37	31	27	25
9	53	40	31	26	52	39	31	25	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	34	27	23	33	27	22	32	26	22	20

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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

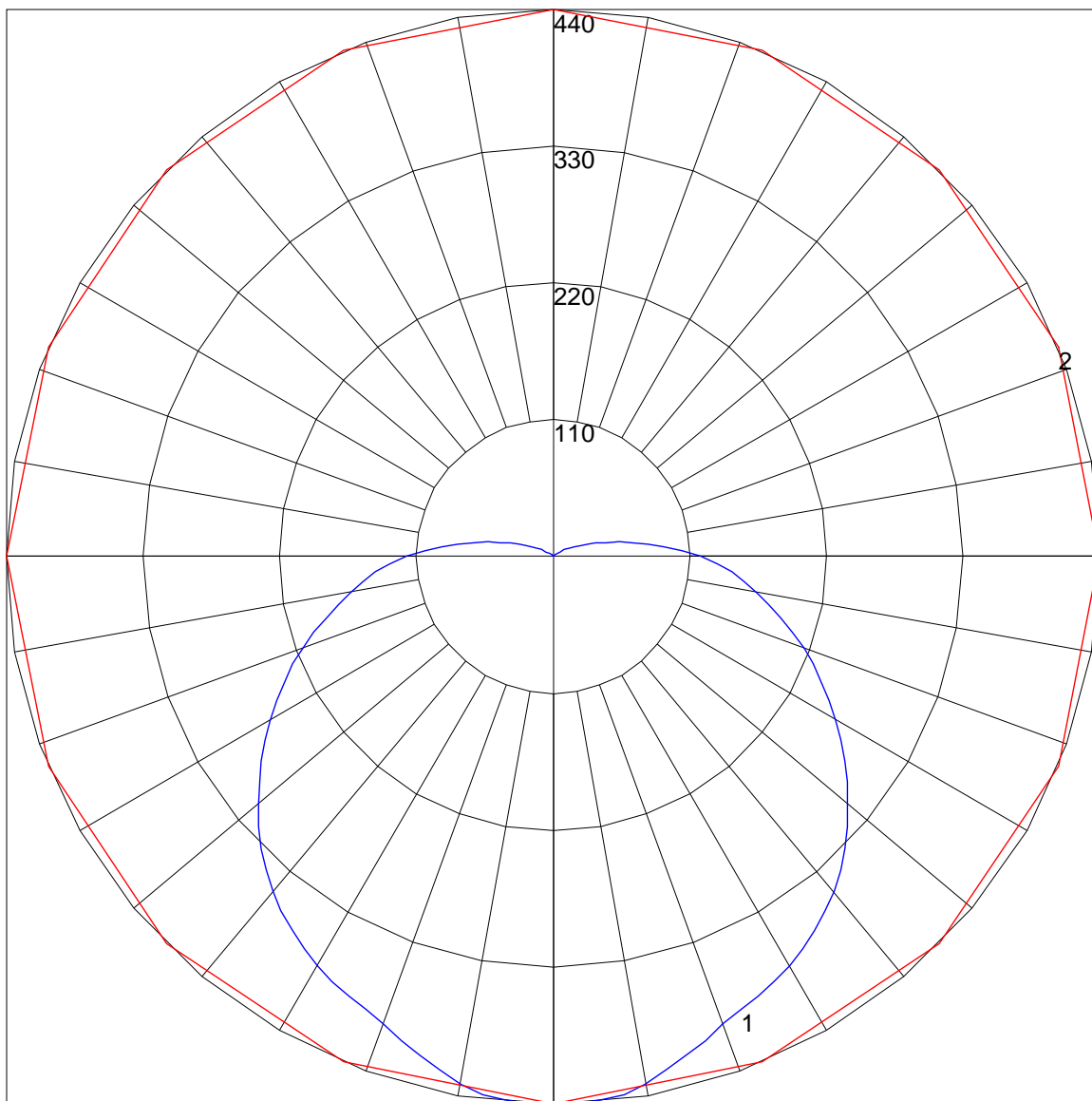
X=2H	Y=2H	18.8	20.4	19.2	20.8	21.3	16.4	18.0	16.9	18.4	18.9
	3H	21.1	22.6	21.6	23.0	23.5	17.8	19.3	18.3	19.7	20.2
	4H	22.2	23.6	22.7	24.1	24.6	18.3	19.7	18.8	20.1	20.6
	6H	23.3	24.6	23.8	25.1	25.6	18.6	19.9	19.1	20.3	20.9
	8H	23.8	25.0	24.3	25.5	26.1	18.6	19.9	19.2	20.4	20.9
	12H	24.3	25.5	24.8	26.0	26.5	18.7	19.9	19.2	20.4	20.9

UGR Viewed Endwise

4H	2H	19.3	20.6	19.8	21.1	21.6	17.5	18.9	18.0	19.3	19.8
	3H	21.9	23.1	22.4	23.6	24.1	19.1	20.3	19.6	20.8	21.4
	4H	23.2	24.2	23.7	24.8	25.3	19.7	20.8	20.2	21.3	21.9
	6H	24.4	25.4	25.0	25.9	26.5	20.1	21.1	20.7	21.6	22.2
	8H	25.1	26.0	25.6	26.5	27.1	20.2	21.1	20.8	21.7	22.3
	12H	25.7	26.5	26.3	27.1	27.7	20.3	21.1	20.9	21.7	22.3
8H	4H	23.4	24.3	24.0	24.9	25.5	20.6	21.5	21.1	22.0	22.6
	6H	24.9	25.7	25.5	26.3	26.9	21.2	21.9	21.8	22.5	23.1
	8H	25.7	26.4	26.3	27.0	27.6	21.4	22.1	22.0	22.7	23.3
	12H	26.5	27.1	27.1	27.7	28.4	21.5	22.1	22.1	22.7	23.4
12H	4H	23.5	24.3	24.0	24.9	25.5	20.9	21.7	21.4	22.2	22.8
	6H	25.0	25.7	25.6	26.2	26.9	21.6	22.3	22.2	22.8	23.5
	8H	25.8	26.5	26.4	27.0	27.7	21.9	22.5	22.5	23.1	23.8

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 439.8 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)