



IES INDOOR REPORT

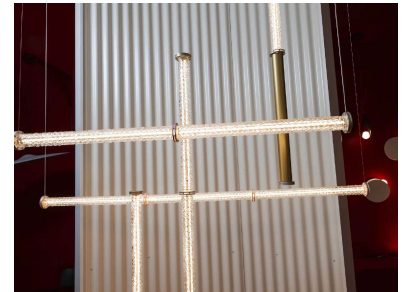
PHOTOMETRIC FILENAME : FABBIAN F74 SANTO - 18 INCH GLASS MODULE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] 02606151FN-00
[DATE] 27 Jan 2000
[MANUFAC] FABBIAN SRL
[LUMCAT] SUSPENDED
[LUMINAIRE] MODULO SANTO
[FLASHAREA] 0.007318
[LAMPCAT] LED STRIP
[LAMP] LED STRIP
[OTHER] Absolute Photometry

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	18.28
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	Rectangular
Luminous Length (0-180)	0.55 m
Luminous Width (90-270)	0.06 m
Luminous Height	0.00 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8287	6624	5427
55	10331	8200	5071
65	12231	10160	4637
75	22426	13682	4176
85	69321	41590	4479

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97
2	172.85	169.14	168.79	167.94	167.19	166.75	166.55	166.34	166.14	171.61
4	178.36	174.73	173.91	172.13	169.29	168.21	167.34	166.57	166.15	171.45
6	182.35	180.30	179.21	177.22	172.93	170.30	168.57	166.92	165.96	171.10
8	184.92	185.02	184.15	181.58	177.22	173.28	170.11	167.47	165.67	170.72
10	184.07	186.82	186.65	185.11	180.81	176.50	172.05	168.05	165.33	170.10
12	182.66	186.08	186.10	186.01	183.96	179.11	173.94	168.39	164.90	169.09
14	181.45	184.62	184.96	184.96	185.31	181.13	175.32	168.86	164.26	167.66
16	180.80	182.90	183.10	183.34	184.88	182.02	176.22	169.09	163.38	166.07
18	179.80	181.61	181.68	181.35	183.29	181.54	176.35	169.10	162.45	164.54
20	177.55	180.06	180.27	179.68	181.24	179.67	175.72	168.71	161.39	162.90
22	174.47	177.32	177.98	177.67	179.36	177.14	174.40	167.85	160.02	161.07
24	170.06	173.65	174.71	175.49	177.21	174.96	172.17	166.32	158.34	158.94
26	166.26	168.78	170.73	172.17	174.81	172.77	169.60	164.25	156.32	156.39
28	164.47	164.42	165.94	168.21	171.72	170.33	166.51	161.75	153.68	153.54
30	166.88	162.89	161.71	163.47	167.98	167.15	163.45	158.86	150.74	150.33
32	172.33	164.97	160.82	158.78	163.38	163.25	160.30	155.58	147.39	146.64
34	178.03	169.52	163.13	156.48	158.43	159.48	156.89	151.97	143.92	142.83
36	184.17	175.14	168.15	158.14	152.10	155.22	152.81	147.97	140.08	138.53
38	186.92	181.61	173.72	161.99	146.85	150.38	148.21	143.76	135.88	133.92
40	185.56	184.97	178.55	167.30	145.70	144.75	143.21	138.98	131.16	129.19
42	181.88	184.38	180.61	170.97	147.23	138.12	138.40	133.76	126.61	124.24
44	178.27	181.26	179.16	172.93	150.12	132.93	133.11	128.19	121.40	118.89
46	176.39	176.80	175.48	171.66	153.13	130.78	126.84	122.36	116.05	113.37
48	175.85	174.67	172.11	168.37	155.41	130.79	120.66	116.49	110.56	107.75
50	177.35	173.85	170.22	165.61	156.19	131.93	114.81	110.96	105.18	102.31
52	178.89	174.73	169.34	163.27	154.62	132.96	110.01	104.76	99.12	96.74
54	179.64	175.89	169.42	161.13	152.84	133.04	106.66	98.66	92.86	90.87
56	179.00	176.69	169.39	160.07	150.96	132.47	104.33	92.42	86.65	85.18
58	176.31	176.49	168.97	159.03	148.28	131.72	103.16	86.66	80.59	79.60
60	170.66	174.15	167.44	157.14	145.29	130.14	102.56	81.27	74.10	73.96
62	163.56	169.43	163.95	154.50	142.86	127.48	101.62	76.63	67.80	68.07
64	157.89	162.44	158.81	150.55	140.43	123.38	100.28	72.80	61.84	62.18
66	154.96	156.26	153.11	145.61	136.89	119.08	98.14	69.91	56.28	56.43
68	155.40	152.55	147.91	139.99	131.96	114.58	94.33	67.25	50.94	50.96
70	159.50	152.37	145.47	135.38	127.17	110.10	89.76	64.68	45.93	45.52
72	165.51	156.49	146.57	133.05	122.40	105.27	84.84	61.53	41.37	40.19
74	172.46	163.25	151.75	134.42	117.69	100.36	79.80	57.99	37.15	35.00
76	178.85	171.38	158.75	138.84	114.70	95.91	74.96	53.93	33.24	30.42
78	183.60	178.16	166.19	145.46	114.60	92.34	70.50	49.62	29.33	25.67
80	185.64	183.07	171.90	151.40	117.56	90.84	67.12	45.61	25.45	21.32
82	185.30	185.52	175.62	155.46	121.80	90.66	64.53	42.27	21.90	17.19
84	183.93	184.57	176.95	158.23	125.54	91.74	63.13	39.80	18.99	13.51
86	181.75	182.02	175.18	158.35	128.05	93.46	62.87	38.31	16.65	10.12
88	181.06	179.57	172.20	156.81	130.05	95.40	63.75	37.19	14.95	7.09
90	187.15	182.81	172.28	155.10	131.72	102.68	71.69	40.31	15.05	3.05
92	193.81	188.74	177.54	159.57	135.32	104.34	72.11	40.13	15.48	5.70
94	197.46	193.26	181.98	163.95	137.66	105.44	71.60	39.76	16.65	8.61
96	199.68	196.22	184.90	166.57	138.10	104.74	70.32	39.91	18.69	11.92
98	198.64	196.07	185.25	165.51	136.62	102.90	68.83	41.04	21.30	15.52
100	196.22	193.29	182.67	162.40	133.51	100.36	67.67	43.41	24.76	19.59
102	191.61	188.66	177.75	157.73	130.33	97.73	67.93	46.92	28.58	23.81
104	187.46	183.58	172.36	153.22	127.48	96.47	70.07	51.33	32.42	28.24
106	184.17	179.68	168.32	150.12	125.58	97.56	73.63	56.18	36.00	32.62

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CANDELA TABULATION - (Cont.)

108	180.81	176.57	166.26	149.21	125.71	100.52	78.44	60.37	39.58	37.44
110	179.07	175.42	165.65	149.36	127.76	104.29	83.44	64.40	43.21	42.58
112	178.71	175.31	165.40	150.01	130.92	108.51	87.93	67.89	46.85	47.67
114	179.77	175.80	165.57	152.13	134.35	112.24	92.15	71.34	50.65	52.64
116	180.70	176.35	166.91	154.86	137.28	115.59	95.87	74.55	54.81	57.97
118	181.33	177.36	169.43	157.85	140.22	118.81	99.22	77.45	59.28	63.41
120	183.21	179.76	172.49	160.98	142.71	121.52	102.44	80.22	64.27	68.92
122	185.16	182.86	176.22	163.16	142.95	123.68	105.89	82.88	69.64	74.49
124	187.50	185.37	177.54	162.44	142.18	126.26	108.70	85.44	75.06	79.69
126	187.77	184.51	176.15	159.04	142.26	128.57	110.80	88.58	80.98	85.11
128	184.62	180.57	170.86	156.36	143.25	130.98	112.38	92.25	87.02	90.37
130	179.73	174.99	166.33	154.31	144.94	132.82	113.50	96.79	92.79	95.28
132	174.81	170.42	163.13	154.70	146.75	134.22	114.46	101.45	98.00	99.71
134	170.50	166.79	161.75	156.18	148.26	135.09	116.04	106.35	103.30	104.39
136	167.89	165.60	162.36	157.90	149.86	135.23	118.40	111.32	108.42	109.14
138	167.51	166.25	163.67	159.16	150.73	135.27	121.21	116.49	113.32	113.79
140	168.14	167.32	164.88	159.95	150.28	135.03	124.26	121.62	117.76	118.08
142	168.78	168.11	165.52	159.79	149.16	135.41	127.74	126.67	122.12	122.54
144	169.06	168.27	165.40	158.26	147.61	136.40	131.66	131.75	126.31	126.76
146	168.33	167.28	163.58	156.13	146.17	137.96	136.18	136.47	130.32	130.64
148	166.51	164.99	161.04	153.78	145.60	140.20	140.57	140.35	133.95	134.06
150	163.66	161.95	158.26	151.86	145.88	143.08	145.12	143.88	137.49	137.37
152	160.76	159.05	155.53	150.91	147.15	146.93	149.55	146.87	142.71	140.43
154	158.07	156.69	153.96	150.98	149.36	151.33	153.29	149.41	145.89	143.36
156	156.05	155.09	153.43	152.43	152.65	155.80	155.97	151.61	148.64	145.98
158	155.17	155.08	154.70	155.00	156.90	159.67	157.98	153.47	151.28	148.53
160	156.46	156.91	157.22	158.93	161.23	162.62	159.53	155.01	153.78	150.96
162	159.14	159.94	161.13	163.33	164.87	164.22	160.64	156.41	156.31	153.35
164	162.84	164.13	165.10	167.00	167.02	164.78	161.38	157.71	158.64	155.36
166	166.78	167.70	168.62	169.05	167.53	164.70	161.74	158.81	160.72	157.33
168	169.87	170.29	170.28	168.97	167.00	164.34	161.97	159.79	162.66	158.89
170	170.69	170.22	169.34	167.69	165.90	164.03	162.09	160.72	164.42	160.38
172	169.06	168.15	167.57	166.28	165.12	163.71	162.40	161.79	165.83	161.66
174	167.05	166.47	166.02	165.22	164.48	163.53	162.88	162.95	167.25	162.80
176	165.58	165.08	164.79	164.28	163.90	163.76	163.80	164.12	168.64	163.57
178	164.22	164.20	164.25	164.38	164.45	164.70	164.72	164.90	169.88	164.03
180	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13

Vert. Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97
2	171.23	170.66	170.27	169.36	169.32	168.95	168.95	168.55	166.19	165.64
4	170.56	169.56	168.74	167.92	167.74	167.43	167.41	167.28	166.60	166.05
6	169.77	168.43	167.44	167.11	167.15	167.26	167.43	167.69	167.16	167.11
8	168.87	167.20	166.58	167.07	167.57	168.27	168.46	168.78	168.33	168.57
10	167.74	166.10	166.20	167.56	168.35	168.89	169.21	169.59	169.80	170.25
12	166.44	165.13	166.15	167.68	168.50	169.34	169.80	170.34	171.11	171.06
14	164.96	164.19	165.92	167.20	168.35	169.07	169.55	170.02	170.01	168.70
16	163.45	163.16	165.13	166.40	167.46	168.05	168.46	168.61	167.26	164.88
18	161.81	162.07	163.78	164.81	166.08	166.14	166.44	166.51	163.21	160.68
20	160.18	160.54	161.98	162.94	163.98	163.72	163.65	163.39	159.61	157.42
22	158.31	158.41	159.58	160.91	161.26	160.57	160.52	160.64	157.21	155.56
24	155.97	155.97	156.95	158.10	158.00	157.69	158.23	158.64	156.36	155.78
26	153.28	153.29	154.50	154.76	155.06	155.49	156.58	157.69	157.23	157.37
28	150.14	149.84	151.46	151.22	152.29	153.51	155.83	157.89	159.64	160.08

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CANDELA TABULATION - (Cont.)

30	146.83	146.26	147.91	147.96	149.60	152.50	156.32	159.25	162.77	163.20
32	143.09	142.47	144.03	144.71	147.76	152.64	157.66	161.61	165.90	166.11
34	139.25	138.73	140.07	141.98	146.62	153.41	159.62	163.94	168.25	168.19
36	134.99	134.54	135.96	139.23	146.24	154.65	161.59	165.81	169.20	168.89
38	130.37	130.06	131.84	136.92	146.29	155.89	162.86	166.80	169.16	168.46
40	125.28	125.33	128.08	135.40	146.65	156.57	163.49	167.23	168.39	167.29
42	120.26	120.62	124.77	134.58	146.94	156.77	163.92	167.46	167.47	165.83
44	114.81	115.54	121.50	133.56	146.61	157.35	164.40	167.55	166.80	164.60
46	109.32	110.36	118.42	132.74	146.69	158.32	164.66	167.76	168.16	165.43
48	104.07	105.67	115.70	131.82	147.33	158.67	165.44	170.09	171.87	168.64
50	98.96	101.31	113.36	130.97	148.00	159.32	167.82	172.78	176.12	172.74
52	93.82	96.87	110.64	130.29	147.60	160.85	169.86	176.63	180.49	178.00
54	88.48	92.28	108.39	129.24	147.65	162.00	172.68	180.27	184.29	182.03
56	83.17	87.80	106.17	128.47	147.93	163.45	175.55	183.31	184.96	182.93
58	77.94	83.59	104.13	127.66	148.62	165.64	177.45	184.56	182.29	180.25
60	72.60	79.39	101.68	126.94	149.16	166.93	178.43	183.80	179.84	177.21
62	67.19	75.11	99.55	126.20	149.56	166.48	176.98	182.70	178.26	174.76
64	62.08	71.46	97.69	124.89	148.11	163.84	174.99	181.48	177.73	173.86
66	57.26	67.96	96.10	123.29	145.44	159.93	172.85	179.25	177.78	174.38
68	52.23	64.89	94.28	120.86	140.82	156.91	169.70	177.71	177.46	174.77
70	47.58	62.21	92.04	116.41	136.23	154.02	167.79	176.53	178.44	176.09
72	43.04	59.68	89.15	111.12	132.84	152.45	167.53	177.45	182.08	178.70
74	38.91	57.42	85.45	107.10	130.62	152.42	169.69	180.27	187.11	183.19
76	34.75	55.37	81.54	104.57	129.78	153.91	171.84	183.22	192.87	188.65
78	30.94	53.09	77.92	102.80	130.06	155.27	173.45	186.35	199.84	195.40
80	27.52	50.64	74.56	102.32	131.54	156.54	176.05	190.82	204.28	200.67
82	24.48	47.98	72.19	102.88	132.99	158.80	179.25	195.35	205.05	202.52
84	21.78	45.30	71.55	103.98	135.47	162.47	183.72	197.49	203.30	201.02
86	19.33	42.94	71.71	106.19	138.66	166.61	186.37	197.96	198.55	196.81
88	17.34	41.45	72.07	108.83	141.44	168.55	186.07	195.22	191.54	190.43
90	14.65	36.90	62.70	92.50	121.71	147.10	164.15	176.03	182.24	181.94
92	16.02	37.70	61.86	90.97	120.19	145.17	163.42	176.51	183.31	183.89
94	18.19	39.77	61.99	89.66	117.50	142.30	161.65	176.18	184.12	185.38
96	20.82	42.85	63.53	88.12	114.78	139.19	159.25	174.74	183.58	184.40
98	23.96	46.29	67.21	87.29	112.16	136.46	156.60	172.45	180.81	180.49
100	27.33	49.97	72.46	88.89	110.11	133.68	153.86	168.71	175.99	174.69
102	31.11	53.43	78.65	93.79	110.53	131.34	149.59	163.31	169.54	167.70
104	35.09	56.28	84.61	100.82	114.70	130.68	146.29	157.75	162.58	159.95
106	39.53	58.56	89.20	107.85	121.41	133.34	145.48	154.26	157.18	154.77
108	44.35	61.09	92.59	114.63	128.75	139.45	148.26	153.88	155.46	153.05
110	49.62	63.97	94.81	119.85	136.14	146.65	153.87	156.73	157.14	155.27
112	55.18	67.10	96.10	122.84	141.62	153.43	159.72	162.43	162.33	160.26
114	60.82	70.33	97.58	124.80	145.08	158.75	165.89	167.92	168.39	166.47
116	66.35	73.91	99.37	126.65	147.01	161.63	170.43	173.96	174.49	172.49
118	72.27	77.41	101.32	128.67	147.03	163.11	173.02	178.00	179.02	176.50
120	78.24	81.50	103.20	129.84	147.52	162.34	173.56	179.23	180.62	177.89
122	84.39	86.67	104.99	131.77	149.45	160.80	172.17	178.57	179.88	177.45
124	89.91	91.80	106.62	133.42	151.72	160.72	169.98	176.60	178.17	176.22
126	95.85	97.53	108.01	133.64	153.88	162.98	168.86	174.58	176.64	175.30
128	101.48	104.39	109.75	133.17	155.74	166.74	170.70	173.85	175.45	174.76
130	107.28	111.52	112.29	132.61	156.01	169.56	175.21	176.39	177.17	176.67
132	112.45	118.21	115.42	131.74	154.49	170.63	178.54	180.72	181.39	180.43
134	117.68	124.62	120.87	131.37	151.93	169.71	180.16	183.78	185.26	184.19
136	122.89	130.60	127.23	131.91	149.45	166.76	179.21	185.01	187.26	186.17
138	127.62	136.30	134.17	133.79	146.98	163.04	175.18	183.13	186.23	185.44
140	131.74	141.41	140.91	137.42	145.52	159.40	170.84	178.53	182.35	181.44

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CANDELA TABULATION - (Cont.)

142	135.58	146.21	147.56	142.99	146.02	156.09	165.66	172.60	176.26	175.98
144	138.96	150.66	152.91	149.60	148.94	154.36	161.91	167.39	170.51	170.05
146	141.99	154.41	157.37	155.87	153.77	155.06	160.03	164.16	166.49	166.16
148	144.51	157.62	161.22	160.94	159.09	158.21	160.11	162.58	164.72	164.57
150	146.82	160.41	164.92	165.81	164.87	163.38	163.40	163.57	164.67	165.16
152	148.89	162.61	168.47	169.23	169.59	168.80	168.34	168.05	167.83	168.39
154	150.56	164.20	171.51	171.86	173.83	173.32	173.37	172.96	172.68	172.91
156	152.09	165.38	173.85	175.00	176.08	177.07	177.14	177.09	176.68	176.45
158	153.56	165.66	175.04	178.00	178.43	179.30	180.14	180.31	179.66	179.13
160	154.94	165.81	175.74	180.32	181.41	181.16	181.94	182.44	181.80	181.25
162	156.48	165.79	175.54	181.39	183.22	183.63	183.71	183.92	183.29	182.54
164	157.86	165.42	173.83	181.27	184.35	185.12	185.79	185.74	184.98	184.24
166	158.98	164.70	172.25	179.35	183.96	185.87	186.64	187.37	186.93	186.38
168	159.91	163.89	170.43	176.14	181.08	184.99	186.70	187.57	187.61	187.20
170	160.97	163.47	167.91	173.29	177.03	180.95	183.42	185.69	186.69	186.76
172	162.18	163.45	165.96	169.98	173.14	176.45	177.94	180.06	181.92	183.12
174	163.15	163.78	164.93	166.92	168.87	171.49	172.96	174.65	176.15	177.18
176	163.81	164.15	164.58	165.28	165.90	167.11	167.74	168.77	170.22	171.31
178	164.15	164.26	164.42	164.62	164.78	165.07	165.17	165.43	165.89	166.56
180	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13

Vert. Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97	168.97
2	165.48	165.38	165.90	165.83	165.73	165.66	165.62	171.09	171.87	172.63
4	165.83	165.65	166.33	166.05	165.71	165.39	165.19	170.36	171.84	173.53
6	166.74	166.39	166.73	166.17	165.61	165.08	164.58	169.45	171.77	174.19
8	167.96	167.42	167.11	166.23	165.35	164.45	163.83	168.42	171.47	174.40
10	169.47	168.47	167.71	166.24	164.94	163.79	162.86	167.17	171.07	174.67
12	170.57	169.57	168.28	166.30	164.40	162.84	161.67	165.81	170.38	174.78
14	169.23	168.93	167.71	166.17	163.80	161.81	160.25	164.10	169.34	174.41
16	166.02	166.38	165.98	165.39	163.25	160.76	158.67	162.13	168.10	173.45
18	161.88	162.88	163.17	163.53	162.40	159.43	156.83	159.87	166.74	171.84
20	157.96	158.66	159.36	160.89	160.85	157.76	154.73	157.55	165.11	169.39
22	155.50	154.97	155.50	157.32	158.69	155.72	152.34	155.19	163.16	167.05
24	154.35	152.78	152.28	153.29	155.67	153.47	149.77	152.70	160.68	164.66
26	154.92	151.82	150.16	149.68	152.29	151.23	147.24	149.87	158.04	161.63
28	156.57	152.47	148.71	146.39	148.28	148.43	144.36	146.73	155.04	158.13
30	159.44	154.00	148.39	143.84	144.36	145.13	141.11	143.34	151.78	153.97
32	162.25	156.54	148.83	141.84	140.34	141.27	137.58	139.63	148.12	149.69
34	164.78	158.76	150.15	140.44	136.71	137.33	133.96	135.78	144.42	145.43
36	166.47	160.70	151.52	139.55	133.46	132.86	130.05	131.57	139.94	140.46
38	166.47	161.76	152.69	139.34	130.39	128.03	125.79	127.21	134.78	135.03
40	165.58	161.29	153.41	139.77	127.33	123.21	121.20	122.62	129.21	129.07
42	164.13	160.12	153.42	139.77	124.94	118.39	116.65	117.87	123.92	122.85
44	162.13	158.64	151.97	139.31	122.71	113.68	111.68	112.70	118.08	116.46
46	160.50	156.23	150.12	138.54	120.72	108.89	106.33	107.26	111.77	110.70
48	161.20	153.99	148.19	137.00	119.07	104.29	100.89	101.79	105.35	105.43
50	163.76	153.29	145.66	134.99	117.58	100.09	95.52	96.58	99.63	101.21
52	167.70	154.76	143.04	132.57	116.05	96.18	89.89	91.07	93.68	97.33
54	172.52	157.53	141.29	129.71	114.17	93.09	84.12	85.27	87.71	93.81
56	175.27	160.72	140.22	126.60	111.69	90.24	78.73	79.21	82.00	90.71
58	174.27	161.75	140.25	123.38	108.70	87.72	73.63	73.39	76.50	87.67
60	170.91	159.17	140.54	120.55	104.89	85.00	68.55	67.24	70.98	84.22
62	167.94	156.13	139.75	117.94	101.44	82.11	63.84	61.16	65.42	80.85

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FABBIAN F74 SANTO - 18 INCH GLASS MODULE.IES

CANDELA TABULATION - (Cont.)

64	165.43	153.38	137.10	115.11	97.96	78.85	59.26	55.45	60.05	77.62
66	164.45	150.84	134.99	112.32	94.14	75.27	55.34	50.02	55.18	74.77
68	164.88	149.38	132.59	109.51	90.01	71.42	51.32	44.53	50.46	72.15
70	165.96	149.20	130.25	106.28	85.60	67.63	47.56	39.24	45.90	69.47
72	168.03	150.34	128.24	103.34	81.07	63.23	43.93	34.07	41.84	66.08
74	171.02	152.78	127.55	100.59	77.05	58.77	40.36	29.49	37.92	62.43
76	175.82	156.81	129.24	99.13	73.14	54.22	36.59	24.72	34.25	58.00
78	182.03	163.04	132.24	100.00	70.44	49.64	32.57	20.32	30.74	53.23
80	187.44	167.50	135.62	102.40	69.34	45.91	28.61	16.09	27.33	48.66
82	190.52	170.78	138.84	105.52	70.30	43.29	24.86	12.28	24.17	44.84
84	190.84	171.96	141.80	107.60	71.91	41.93	21.60	8.88	21.64	42.09
86	187.15	169.55	142.56	108.70	73.55	41.71	19.05	5.98	19.46	40.48
88	181.39	164.07	140.85	108.30	74.18	42.00	17.23	3.32	17.90	40.09
90	175.09	161.44	136.59	103.15	70.65	42.50	18.60	2.10	17.14	41.96
92	177.55	162.77	135.53	101.08	69.14	42.81	19.97	4.57	17.91	41.98
94	178.18	161.93	133.45	99.03	68.46	43.81	21.96	7.24	19.32	42.77
96	175.72	158.94	130.36	96.92	68.88	45.59	24.71	10.21	21.33	44.27
98	171.23	154.23	125.93	95.52	70.28	48.21	28.15	13.68	23.48	46.70
100	165.25	147.80	121.66	95.35	72.89	51.88	31.88	17.40	26.02	49.47
102	157.85	141.14	118.81	96.90	76.47	56.26	36.25	21.51	29.03	52.56
104	150.93	136.85	119.03	100.68	81.08	61.26	40.45	25.85	32.26	55.69
106	147.62	136.53	122.21	104.76	86.13	65.70	44.68	30.58	35.45	58.85
108	147.98	139.32	126.47	109.83	91.39	70.11	48.63	35.07	39.18	61.59
110	151.51	143.58	131.11	114.94	96.77	74.01	52.71	40.03	43.14	64.13
112	156.68	148.41	135.95	119.36	102.14	76.94	56.86	45.21	47.26	66.74
114	162.34	153.42	140.67	123.24	106.80	79.31	61.34	50.58	51.66	69.66
116	166.75	157.26	144.22	127.34	110.07	81.62	66.04	55.92	56.14	72.62
118	169.65	159.28	146.83	131.92	111.80	84.59	71.12	61.37	61.17	75.96
120	170.79	160.76	148.71	136.39	113.07	88.38	76.47	66.97	66.01	79.31
122	170.86	161.91	151.42	139.43	113.93	92.60	82.05	72.61	71.06	82.75
124	170.81	162.93	154.82	141.18	114.19	97.51	87.67	77.96	76.00	86.29
126	171.05	164.85	158.10	142.80	115.26	103.06	93.41	83.58	81.17	90.11
128	172.23	168.35	160.36	143.15	117.46	108.69	99.23	89.23	86.45	93.95
130	175.72	170.82	162.52	141.99	121.00	113.74	105.21	94.78	91.73	97.85
132	178.78	173.53	162.42	140.58	125.33	118.62	110.98	100.00	96.65	101.46
134	181.81	174.71	159.91	139.40	130.62	123.99	116.76	105.42	101.96	105.58
136	182.43	173.15	156.90	139.50	135.87	129.51	122.31	111.09	107.29	109.97
138	180.00	169.63	153.72	141.39	140.02	134.85	127.60	116.53	112.81	114.38
140	175.74	165.02	152.15	145.89	143.77	139.67	132.55	121.68	118.07	118.89
142	170.19	160.93	152.09	150.69	148.01	144.27	137.30	126.69	123.38	123.65
144	165.65	159.02	154.90	154.69	152.07	148.65	141.88	131.23	128.44	128.51
146	163.57	159.37	159.26	158.35	155.82	152.86	146.19	135.24	133.27	133.49
148	163.31	162.21	163.15	161.43	159.34	156.76	150.00	138.87	137.35	137.86
150	165.75	166.42	166.61	164.16	162.56	160.41	153.76	142.38	141.40	142.06
152	169.98	170.27	169.71	167.34	165.76	163.84	157.22	145.80	145.21	146.14
154	173.86	173.47	171.86	170.16	168.75	166.75	160.41	148.69	148.59	149.80
156	176.50	175.44	174.31	172.63	171.54	169.03	163.10	151.28	151.42	153.13
158	178.71	177.73	176.54	175.28	174.68	170.97	165.39	153.52	154.05	155.90
160	180.34	179.43	178.75	177.98	176.99	172.56	167.30	155.56	156.33	158.49
162	182.06	181.35	181.25	180.57	178.48	173.78	168.97	157.33	158.07	160.47
164	184.01	183.57	183.38	181.89	179.20	174.12	170.37	158.89	159.44	161.85
166	186.02	185.25	184.42	182.58	179.20	173.69	171.45	160.21	160.70	162.66
168	186.66	186.01	184.42	181.97	178.05	172.78	172.33	161.43	161.70	163.35
170	185.85	184.76	182.58	179.86	175.91	171.41	172.65	162.47	162.53	164.01
172	181.98	181.34	178.87	176.76	173.04	170.07	172.68	163.33	163.25	164.26
174	176.71	176.32	174.42	172.86	170.65	168.91	172.49	163.92	163.85	164.34

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FABBIAN F74 SANTO - 18 INCH GLASS MODULE.IES

CANDELA TABULATION - (Cont.)

176	171.10	171.19	170.25	169.69	168.39	167.52	172.11	164.28	164.13	164.33
178	166.62	167.03	166.78	166.82	166.56	166.44	171.59	164.35	164.30	164.24
180	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13	165.13

Vert. Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	168.97	168.97	168.97	168.97	168.97	168.97	168.97
2	173.26	173.44	174.36	174.65	175.12	174.94	172.85
4	174.97	175.81	177.09	177.71	178.35	178.37	178.36
6	176.15	177.58	179.29	180.20	180.93	181.04	182.35
8	177.36	178.90	180.65	181.59	182.13	182.16	184.92
10	178.13	179.59	180.86	181.31	181.20	181.16	184.07
12	178.18	179.57	179.68	179.90	179.91	179.94	182.66
14	177.44	178.23	178.35	178.82	179.40	179.84	181.45
16	175.50	176.57	176.96	178.02	178.87	179.59	180.80
18	173.42	174.62	175.71	177.17	177.87	178.61	179.80
20	171.01	172.64	173.99	175.12	176.14	176.95	177.55
22	168.24	170.29	171.51	172.76	172.95	173.68	174.47
24	164.98	167.69	168.20	169.24	168.80	169.52	170.06
26	162.18	164.07	164.43	165.28	164.85	165.67	166.26
28	158.72	159.61	160.32	161.45	162.57	164.80	164.47
30	154.69	154.83	156.42	159.58	163.66	167.79	166.88
32	149.70	150.69	153.90	160.17	168.06	173.10	172.33
34	144.42	146.92	153.27	163.62	173.00	178.19	178.03
36	138.86	144.10	154.97	167.62	177.90	183.61	184.17
38	133.86	142.44	157.58	171.99	181.68	186.65	186.92
40	129.69	142.80	160.30	174.68	182.48	185.29	185.56
42	126.72	143.68	162.84	175.48	180.34	181.85	181.88
44	124.22	144.65	163.57	173.82	176.13	177.91	178.27
46	122.43	145.04	162.83	169.68	173.04	175.35	176.39
48	121.11	144.95	160.17	166.48	170.93	174.71	175.85
50	120.30	143.99	156.68	164.20	171.16	176.12	177.35
52	118.80	142.07	154.09	163.22	173.06	178.25	178.89
54	116.40	139.08	152.20	164.42	174.81	179.84	179.64
56	114.49	136.78	151.46	165.44	175.17	179.88	179.00
58	113.01	134.99	151.37	165.43	173.81	177.90	176.31
60	110.91	132.43	150.46	163.84	170.22	173.11	170.66
62	108.11	130.29	148.33	159.96	164.31	166.52	163.56
64	105.18	127.79	143.68	154.02	157.28	159.96	157.89
66	102.43	124.16	137.41	146.69	152.02	155.65	154.96
68	99.32	118.41	129.80	140.00	148.34	153.41	155.40
70	95.14	111.39	122.62	135.42	147.24	155.12	159.50
72	89.41	103.90	117.37	134.17	149.77	159.32	165.51
74	82.71	97.65	115.14	135.33	153.00	164.38	172.46
76	76.45	93.01	115.26	137.68	157.57	170.24	178.85
78	70.79	91.42	116.77	140.44	160.97	175.08	183.60
80	67.10	92.55	118.69	143.00	163.43	178.03	185.64
82	65.76	94.01	121.20	145.72	165.07	179.03	185.30
84	65.61	95.43	123.97	148.05	166.23	179.17	183.93
86	66.07	97.08	126.37	150.06	167.07	178.64	181.75
88	67.45	98.60	127.85	151.79	167.76	178.28	181.06
90	75.00	110.10	141.86	164.98	178.72	185.82	187.15
92	74.13	109.78	142.03	167.19	183.17	191.45	193.81
94	73.14	108.15	140.16	166.82	185.05	194.65	197.46
96	72.77	105.38	137.21	164.26	184.15	195.71	199.68

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FABBIAN F74 SANTO - 18 INCH GLASS MODULE.IES****CANDELA TABULATION - (Cont.)**

98	72.64	103.52	134.35	160.14	181.08	194.01	198.64
100	73.22	102.79	132.37	157.18	176.90	190.69	196.22
102	75.01	102.47	131.30	155.64	173.56	186.47	191.61
104	78.18	103.32	130.41	154.83	171.82	183.22	187.46
106	81.80	105.18	130.32	154.24	171.11	180.91	184.17
108	85.97	107.52	131.16	152.84	169.63	178.90	180.81
110	90.35	111.12	133.18	153.22	167.69	176.99	179.07
112	94.20	116.26	136.09	154.53	167.73	176.41	178.71
114	97.47	121.46	139.64	157.21	169.25	177.51	179.77
116	100.00	124.53	143.76	159.73	171.68	178.80	180.70
118	102.39	126.69	147.87	162.57	173.78	180.49	181.33
120	104.61	128.19	149.98	165.90	175.99	182.06	183.21
122	107.02	129.55	150.32	167.50	177.49	183.20	185.16
124	108.93	130.45	149.56	166.60	178.40	184.55	187.50
126	110.93	131.81	149.61	164.70	177.05	184.35	187.77
128	113.00	133.18	149.24	162.75	174.31	181.52	184.62
130	115.04	134.72	148.94	161.36	171.06	177.81	179.73
132	117.08	135.60	149.56	160.07	168.50	173.63	174.81
134	118.96	136.08	150.23	158.78	166.11	169.97	170.50
136	121.00	136.80	150.48	159.13	164.28	167.52	167.89
138	122.94	137.76	150.51	159.52	164.61	166.98	167.51
140	124.88	138.46	150.66	159.59	165.02	167.52	168.14
142	127.53	139.18	150.68	159.67	165.29	168.00	168.78
144	130.54	139.63	150.29	159.32	165.17	168.28	169.06
146	133.79	140.02	149.66	158.32	164.35	167.61	168.33
148	137.30	141.25	149.19	156.74	162.72	166.02	166.51
150	141.22	143.00	148.41	155.15	160.44	163.56	163.66
152	145.24	145.42	148.38	153.51	158.25	160.79	160.76
154	149.24	148.41	149.52	152.32	156.13	158.27	158.07
156	152.96	151.97	151.42	152.65	154.62	156.13	156.05
158	156.54	155.54	154.15	154.15	154.82	155.40	155.17
160	159.59	159.20	157.59	156.58	156.44	156.42	156.46
162	162.17	162.58	161.23	160.05	159.13	158.96	159.14
164	163.92	165.47	164.38	163.86	162.59	162.39	162.84
166	165.16	167.00	167.26	166.83	166.26	166.17	166.78
168	165.51	167.56	168.83	169.36	169.06	169.09	169.87
170	165.44	167.12	168.75	169.60	170.19	170.36	170.69
172	165.49	166.38	167.50	168.16	169.06	169.02	169.06
174	165.13	165.92	166.44	166.73	167.20	167.16	167.05
176	164.65	165.03	165.55	165.71	165.96	165.85	165.58
178	164.31	164.38	164.53	164.56	164.67	164.54	164.22
180	165.13	165.13	165.13	165.13	165.13	165.13	165.13

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FABBIAN F74 SANTO - 18 INCH GLASS MODULE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	64.73	N.A.	3.90
0-30	139.01	N.A.	8.40
0-40	234.74	N.A.	14.30
0-60	466.87	N.A.	28.40
0-80	703.38	N.A.	42.70
0-90	823.23	N.A.	50.00
10-90	806.87	N.A.	49.00
20-40	170.01	N.A.	10.30
20-50	281.24	N.A.	17.10
40-70	352.07	N.A.	21.40
60-80	236.51	N.A.	14.40
70-80	116.57	N.A.	7.10
80-90	119.85	N.A.	7.30
90-110	234.34	N.A.	14.20
90-120	356.27	N.A.	21.60
90-130	477.75	N.A.	29.00
90-150	683.98	N.A.	41.60
90-180	822.61	N.A.	50.00
110-180	588.27	N.A.	35.70
0-180	1645.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	16.36
10-20	48.37
20-30	74.28
30-40	95.73
40-50	111.23
50-60	120.89
60-70	119.94
70-80	116.57
80-90	119.85
90-100	118.73
100-110	115.61
110-120	121.93
120-130	121.48
130-140	111.43
140-150	94.81
150-160	74.32
160-170	48.20
170-180	16.11

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FABBIAN F74 SANTO - 18 INCH GLASS MODULE.IES

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	83	83	83	69	69	69	56	56	56	50
1	94	89	83	79	86	81	77	73	68	65	61	56	53	51	44	42	41	35
2	85	76	68	62	77	70	63	57	58	53	49	47	43	40	37	34	32	27
3	77	66	57	50	70	60	53	47	50	44	39	41	36	33	32	29	26	22
4	70	57	49	42	63	53	45	39	44	38	33	36	31	27	28	25	22	18
5	64	51	42	35	58	47	39	33	39	33	28	32	27	23	25	21	18	15
6	59	45	37	30	53	42	34	28	35	29	24	29	24	20	23	19	16	13
7	54	41	32	26	49	38	30	24	32	25	21	26	21	17	21	17	14	11
8	50	37	29	23	46	34	27	21	29	23	18	24	19	15	19	15	12	10
9	46	34	26	20	43	31	24	19	26	20	16	22	17	14	17	14	11	9
10	43	31	23	18	40	28	21	17	24	18	14	20	15	12	16	12	10	8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FABBIAN F74 SANTO - 18 INCH GLASS MODULE.IES

UGR TABLE - CORRECTED

Reflectances

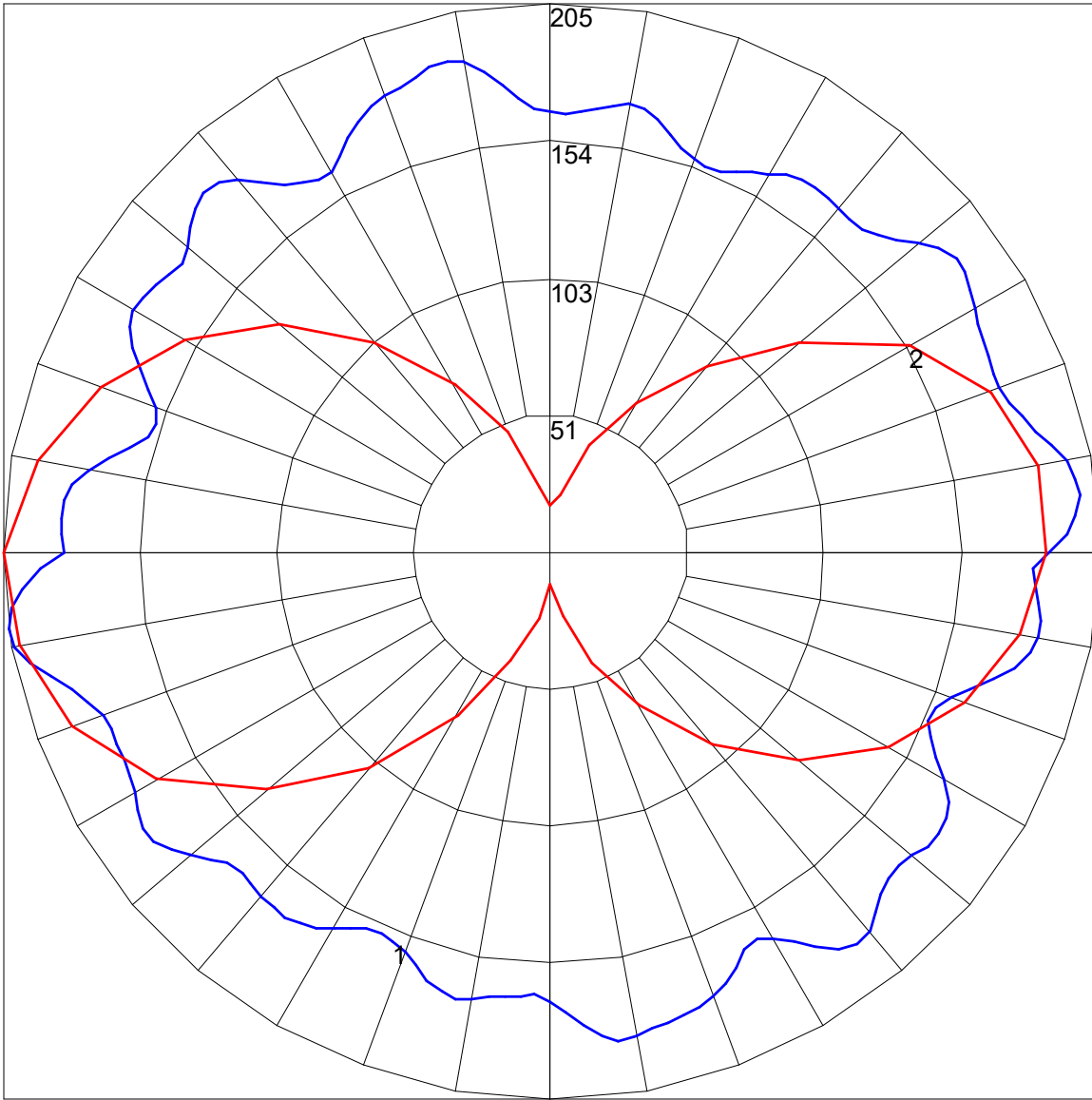
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.3	18.3	18.2	19.2	20.5	12.4	13.3	13.3	14.3	15.6
	3H	20.3	21.2	21.3	22.2	23.4	14.1	15.0	15.0	16.0	17.2
	4H	22.3	23.2	23.3	24.1	25.4	14.8	15.6	15.7	16.6	17.9
	6H	24.8	25.6	25.8	26.5	27.8	15.4	16.1	16.3	17.1	18.4
	8H	26.1	26.8	27.0	27.8	29.1	15.6	16.3	16.6	17.3	18.6
	12H	27.5	28.2	28.5	29.2	30.5	15.8	16.5	16.8	17.5	18.8
4H	2H	17.9	18.7	18.8	19.7	21.0	14.8	15.6	15.7	16.6	17.9
	3H	21.2	21.9	22.1	22.9	24.2	16.9	17.6	17.9	18.7	20.0
	4H	23.4	24.1	24.4	25.1	26.4	17.8	18.5	18.8	19.5	20.8
	6H	26.1	26.7	27.1	27.8	29.1	18.5	19.1	19.5	20.1	21.4
	8H	27.6	28.2	28.6	29.2	30.5	18.7	19.3	19.7	20.3	21.7
	12H	29.2	29.7	30.2	30.7	32.1	18.9	19.4	19.9	20.5	21.8
8H	4H	23.8	24.3	24.8	25.4	26.7	19.8	20.3	20.8	21.4	22.7
	6H	26.8	27.3	27.9	28.4	29.7	21.0	21.4	22.0	22.5	23.8
	8H	28.6	29.0	29.6	30.0	31.4	21.5	21.9	22.5	22.9	24.3
	12H	30.5	30.9	31.5	31.9	33.3	21.8	22.2	22.9	23.3	24.7
12H	4H	23.8	24.3	24.8	25.3	26.7	20.6	21.1	21.6	22.2	23.5
	6H	26.9	27.4	28.0	28.4	29.8	22.1	22.6	23.1	23.6	25.0
	8H	28.8	29.2	29.8	30.2	31.6	22.9	23.2	23.9	24.3	25.7

Maximum UGR = 33.3

POLAR GRAPH



Maximum Candela = 205.05 Located At Horizontal Angle = 180, Vertical Angle = 82
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (82) (Through Max. Cd.)