

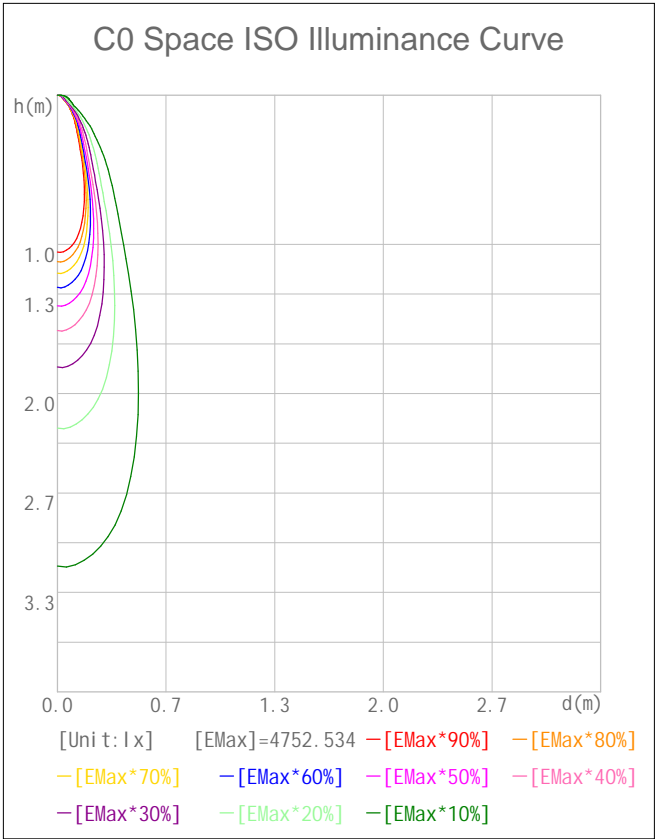
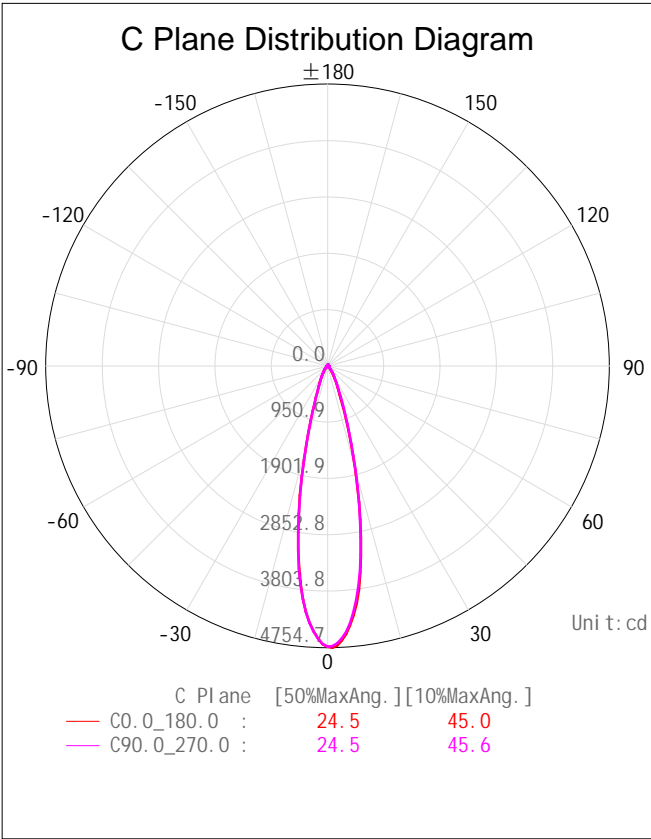
Indoor Luminaire Photometric Data

Description Information

Luminary Name: AT10021		Lum. Catalog:	Test ID:
Lamp Name: 1202		Lamp Catalog: C0B	Test Date: 2017/05/23
Manufacture:		Shld. Ang(°): 24	Test Machine: GON-2000
Test Lab:		Frequency(Hz): 50	Lamp CCT(K): 3000 Ra: 90
Lum. Size(W*L*H): 0.200m*0.200m*0.000m		Lum. Area(m2): 0.031	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=60.0 γ=1.0	Temp. (°C): 25	Humidity(%): 50.0

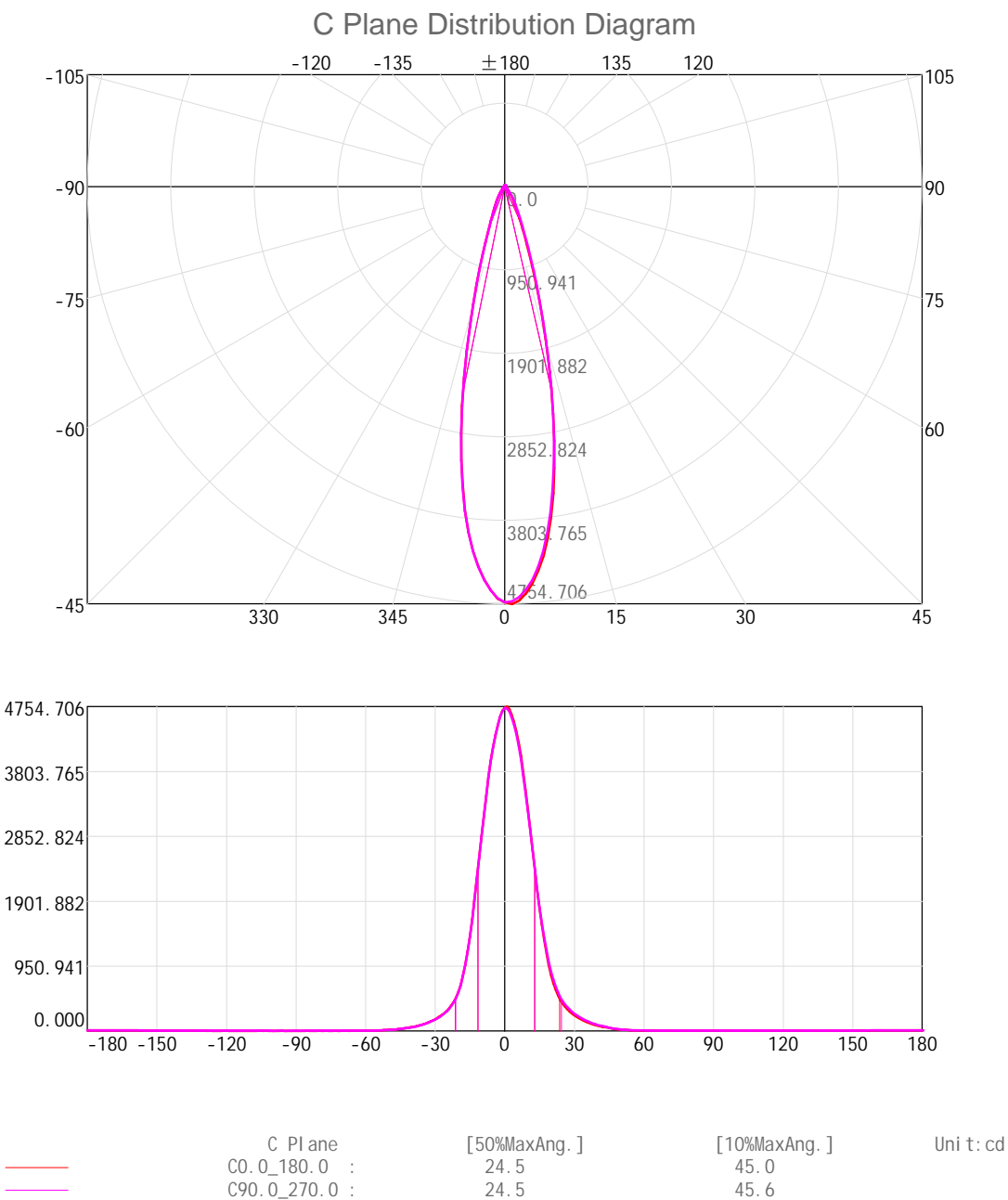
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm):	1450.000	Luminary Flux(lm):	1188.279
Rated Power(W):	15	Luminary Efficiency:	81.95%
Rated Voltage(V):	220	Luminary EER(lm/W):	79.219
Tested Power(W):	15.000	Max. Candela(cd):	4754.706
Lamps' Inside:	1	Max Cand@Ang. (°):	C=0.0 γ=1.0
Tested Electrics(V, A, pf):	220.0, 0.067, 0.936	Beam Angle(50%Imax):	24.5(°)
Lamp Size(W*L*H): 0.200m*0.200m*0.000m		Left=-11.5°, Right=12.9°	IRF(%): 838.401



2D Plane Light Intensity Distribution Curve

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



3D Light Intensity Distribution Modal

Lum. Name: AT10021	Lum. Catel og:	Test ID:
Lamp Name: 1202	Lamp Catel og: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

3D Light Intensity Distribution Modal



Curves:

View Angles:

3D Model

Orient:0

Fixture

Tilt:0

Vert. HUD

Roll:0

Hori. HUD

Spin:0

IES Indoor Report

Photometric Filename:AT10021 15W 1202 3090 HK50-24D KG350.IES

Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	4.52	4.52	0.31	0.31	44.0-45.0	3.50	1091.74	0.24	75.29
1.0-2.0	13.43	17.95	0.93	1.24	45.0-46.0	3.11	1094.85	0.21	75.51
2.0-3.0	21.99	39.94	1.52	2.75	46.0-47.0	2.76	1097.62	0.19	75.70
3.0-4.0	30.03	69.97	2.07	4.83	47.0-48.0	2.47	1100.09	0.17	75.87
4.0-5.0	37.37	107.35	2.58	7.40	48.0-49.0	2.22	1102.31	0.15	76.02
5.0-6.0	43.85	151.20	3.02	10.43	49.0-50.0	2.01	1104.32	0.14	76.16
6.0-7.0	49.27	200.47	3.40	13.83	50.0-51.0	1.83	1106.16	0.13	76.29
7.0-8.0	53.44	253.91	3.69	17.51	51.0-52.0	1.66	1107.82	0.11	76.40
8.0-9.0	56.26	310.16	3.88	21.39	52.0-53.0	1.48	1109.30	0.10	76.50
9.0-10.0	57.71	367.87	3.98	25.37	53.0-54.0	1.30	1110.59	0.09	76.59
10.0-11.0	57.83	425.70	3.99	29.36	54.0-55.0	1.16	1111.76	0.08	76.67
11.0-12.0	56.64	482.34	3.91	33.27	55.0-56.0	1.08	1112.84	0.07	76.75
12.0-13.0	54.32	536.66	3.75	37.01	56.0-57.0	1.03	1113.87	0.07	76.82
13.0-14.0	51.17	587.83	3.53	40.54	57.0-58.0	0.99	1114.86	0.07	76.89
14.0-15.0	47.49	635.32	3.28	43.82	58.0-59.0	0.96	1115.81	0.07	76.95
15.0-16.0	43.52	678.85	3.00	46.82	59.0-60.0	0.93	1116.75	0.06	77.02
16.0-17.0	39.46	718.31	2.72	49.54	60.0-61.0	0.91	1117.65	0.06	77.08
17.0-18.0	35.49	753.80	2.45	51.99	61.0-62.0	0.87	1118.52	0.06	77.14
18.0-19.0	31.77	785.57	2.19	54.18	62.0-63.0	0.85	1119.37	0.06	77.20
19.0-20.0	28.41	813.99	1.96	56.14	63.0-64.0	0.81	1120.19	0.06	77.25
20.0-21.0	25.46	839.45	1.76	57.89	64.0-65.0	0.78	1120.96	0.05	77.31
21.0-22.0	22.93	862.38	1.58	59.47	65.0-66.0	0.76	1121.72	0.05	77.36
22.0-23.0	20.78	883.17	1.43	60.91	66.0-67.0	0.75	1122.47	0.05	77.41
23.0-24.0	18.96	902.13	1.31	62.22	67.0-68.0	0.75	1123.22	0.05	77.46
24.0-25.0	17.41	919.54	1.20	63.42	68.0-69.0	0.75	1123.96	0.05	77.51
25.0-26.0	16.07	935.61	1.11	64.52	69.0-70.0	0.75	1124.71	0.05	77.57
26.0-27.0	14.90	950.51	1.03	65.55	70.0-71.0	0.76	1125.47	0.05	77.62
27.0-28.0	13.86	964.37	0.96	66.51	71.0-72.0	0.76	1126.23	0.05	77.67
28.0-29.0	12.91	977.28	0.89	67.40	72.0-73.0	0.76	1126.99	0.05	77.72
29.0-30.0	12.03	989.31	0.83	68.23	73.0-74.0	0.77	1127.76	0.05	77.78
30.0-31.0	11.21	1000.52	0.77	69.00	74.0-75.0	0.76	1128.51	0.05	77.83
31.0-32.0	10.43	1010.95	0.72	69.72	75.0-76.0	0.76	1129.27	0.05	77.88
32.0-33.0	9.70	1020.65	0.67	70.39	76.0-77.0	0.76	1130.03	0.05	77.93
33.0-34.0	8.99	1029.65	0.62	71.01	77.0-78.0	0.76	1130.80	0.05	77.99
34.0-35.0	8.30	1037.95	0.57	71.58	78.0-79.0	0.76	1131.56	0.05	78.04
35.0-36.0	7.66	1045.61	0.53	72.11	79.0-80.0	0.76	1132.32	0.05	78.09
36.0-37.0	7.05	1052.67	0.49	72.60	80.0-81.0	0.77	1133.09	0.05	78.14
37.0-38.0	6.44	1059.11	0.44	73.04	81.0-82.0	0.77	1133.86	0.05	78.20
38.0-39.0	5.88	1064.99	0.41	73.45	82.0-83.0	0.76	1134.62	0.05	78.25
39.0-40.0	5.40	1070.39	0.37	73.82	83.0-84.0	0.76	1135.38	0.05	78.30
40.0-41.0	5.00	1075.39	0.35	74.17	84.0-85.0	0.76	1136.13	0.05	78.35
41.0-42.0	4.64	1080.04	0.32	74.49	85.0-86.0	0.76	1136.90	0.05	78.41
42.0-43.0	4.29	1084.33	0.30	74.78	86.0-87.0	0.77	1137.66	0.05	78.46
43.0-44.0	3.91	1088.24	0.27	75.05	87.0-88.0	0.76	1138.42	0.05	78.51

Zonal Flux Tabulation - (Cont.)

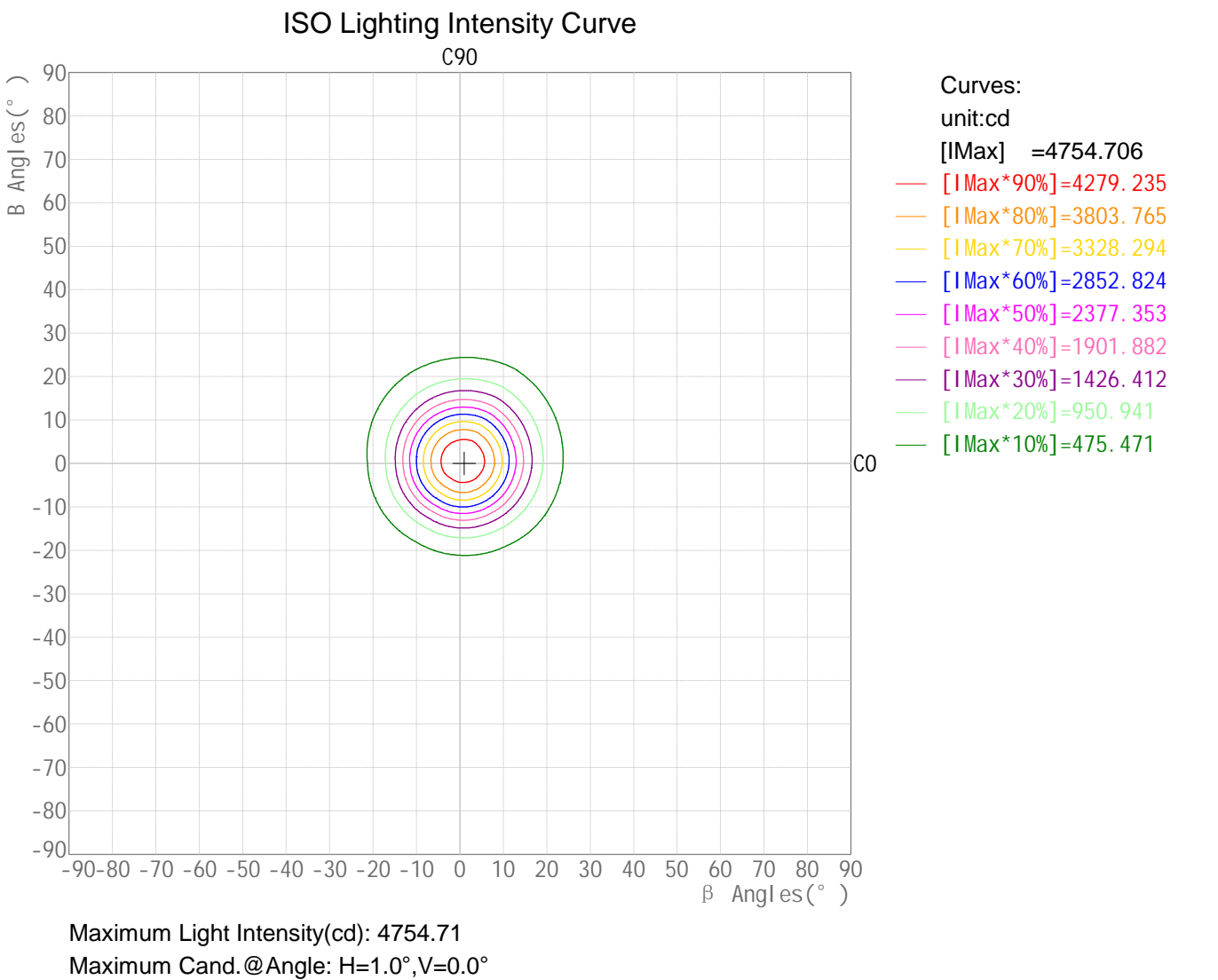
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
88.0-89.0	0.76	1139.19	0.05	78.56	132.0-133.0	0.57	1169.85	0.04	80.68
89.0-90.0	0.77	1139.96	0.05	78.62	133.0-134.0	0.57	1170.41	0.04	80.72
90.0-91.0	0.76	1140.72	0.05	78.67	134.0-135.0	0.56	1170.98	0.04	80.76
91.0-92.0	0.76	1141.48	0.05	78.72	135.0-136.0	0.56	1171.54	0.04	80.80
92.0-93.0	0.76	1142.24	0.05	78.78	136.0-137.0	0.56	1172.09	0.04	80.83
93.0-94.0	0.76	1143.00	0.05	78.83	137.0-138.0	0.55	1172.64	0.04	80.87
94.0-95.0	0.76	1143.76	0.05	78.88	138.0-139.0	0.54	1173.18	0.04	80.91
95.0-96.0	0.76	1144.52	0.05	78.93	139.0-140.0	0.53	1173.71	0.04	80.95
96.0-97.0	0.76	1145.28	0.05	78.98	140.0-141.0	0.53	1174.24	0.04	80.98
97.0-98.0	0.75	1146.03	0.05	79.04	141.0-142.0	0.52	1174.76	0.04	81.02
98.0-99.0	0.75	1146.78	0.05	79.09	142.0-143.0	0.52	1175.28	0.04	81.05
99.0-100.0	0.74	1147.53	0.05	79.14	143.0-144.0	0.52	1175.80	0.04	81.09
100.0-101.0	0.75	1148.27	0.05	79.19	144.0-145.0	0.52	1176.32	0.04	81.13
101.0-102.0	0.75	1149.02	0.05	79.24	145.0-146.0	0.52	1176.84	0.04	81.16
102.0-103.0	0.74	1149.76	0.05	79.29	146.0-147.0	0.51	1177.35	0.04	81.20
103.0-104.0	0.74	1150.51	0.05	79.35	147.0-148.0	0.51	1177.86	0.04	81.23
104.0-105.0	0.74	1151.24	0.05	79.40	148.0-149.0	0.51	1178.37	0.04	81.27
105.0-106.0	0.73	1151.98	0.05	79.45	149.0-150.0	0.51	1178.88	0.04	81.30
106.0-107.0	0.73	1152.70	0.05	79.50	150.0-151.0	0.51	1179.39	0.03	81.34
107.0-108.0	0.72	1153.42	0.05	79.55	151.0-152.0	0.50	1179.89	0.03	81.37
108.0-109.0	0.72	1154.15	0.05	79.60	152.0-153.0	0.50	1180.38	0.03	81.41
109.0-110.0	0.72	1154.86	0.05	79.65	153.0-154.0	0.49	1180.88	0.03	81.44
110.0-111.0	0.71	1155.57	0.05	79.69	154.0-155.0	0.49	1181.36	0.03	81.47
111.0-112.0	0.71	1156.28	0.05	79.74	155.0-156.0	0.48	1181.84	0.03	81.51
112.0-113.0	0.70	1156.99	0.05	79.79	156.0-157.0	0.47	1182.31	0.03	81.54
113.0-114.0	0.70	1157.69	0.05	79.84	157.0-158.0	0.46	1182.77	0.03	81.57
114.0-115.0	0.69	1158.38	0.05	79.89	158.0-159.0	0.45	1183.23	0.03	81.60
115.0-116.0	0.69	1159.07	0.05	79.94	159.0-160.0	0.44	1183.66	0.03	81.63
116.0-117.0	0.68	1159.74	0.05	79.98	160.0-161.0	0.42	1184.09	0.03	81.66
117.0-118.0	0.68	1160.42	0.05	80.03	161.0-162.0	0.41	1184.50	0.03	81.69
118.0-119.0	0.68	1161.10	0.05	80.08	162.0-163.0	0.39	1184.89	0.03	81.72
119.0-120.0	0.67	1161.77	0.05	80.12	163.0-164.0	0.38	1185.27	0.03	81.74
120.0-121.0	0.67	1162.44	0.05	80.17	164.0-165.0	0.36	1185.63	0.02	81.77
121.0-122.0	0.66	1163.10	0.05	80.21	165.0-166.0	0.34	1185.97	0.02	81.79
122.0-123.0	0.65	1163.75	0.04	80.26	166.0-167.0	0.32	1186.28	0.02	81.81
123.0-124.0	0.64	1164.39	0.04	80.30	167.0-168.0	0.30	1186.58	0.02	81.83
124.0-125.0	0.63	1165.03	0.04	80.35	168.0-169.0	0.27	1186.86	0.02	81.85
125.0-126.0	0.63	1165.66	0.04	80.39	169.0-170.0	0.25	1187.11	0.02	81.87
126.0-127.0	0.63	1166.28	0.04	80.43	170.0-171.0	0.23	1187.33	0.02	81.88
127.0-128.0	0.61	1166.90	0.04	80.48	171.0-172.0	0.20	1187.53	0.01	81.90
128.0-129.0	0.60	1167.50	0.04	80.52	172.0-173.0	0.18	1187.71	0.01	81.91
129.0-130.0	0.60	1168.09	0.04	80.56	173.0-174.0	0.15	1187.86	0.01	81.92
130.0-131.0	0.60	1168.69	0.04	80.60	174.0-175.0	0.13	1187.99	0.01	81.93
131.0-132.0	0.58	1169.27	0.04	80.64	175.0-176.0	0.10	1188.09	0.01	81.94

Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
176.0-177.0	0.08	1188.17	0.01	81.94
177.0-178.0	0.06	1188.23	0.00	81.95
178.0-179.0	0.03	1188.27	0.00	81.95
179.0-180.0	0.01	1188.28	0.00	81.95

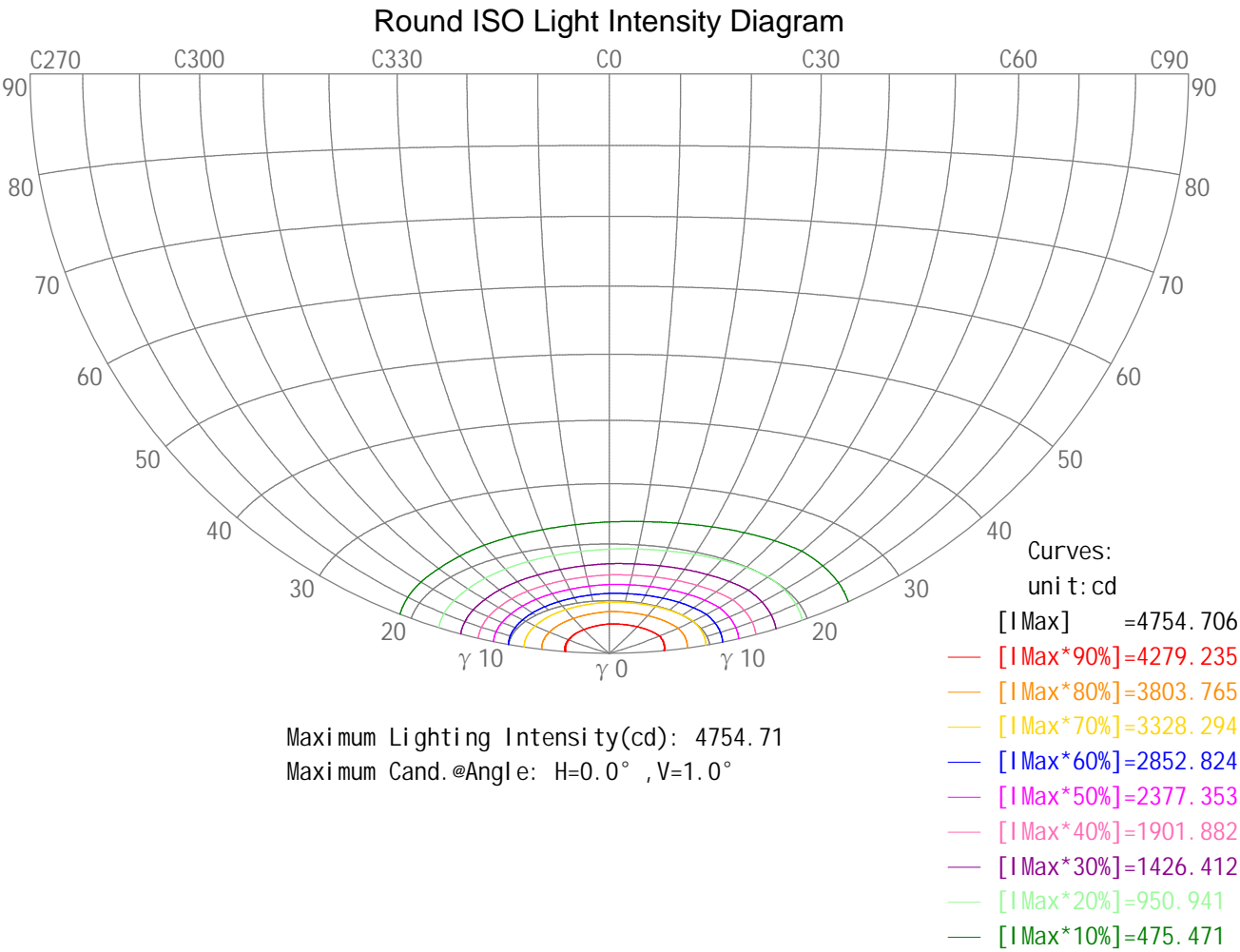
Rectangle ISO Lighting Intensity Diagram

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



Round ISO Lighting Intensity Diagram

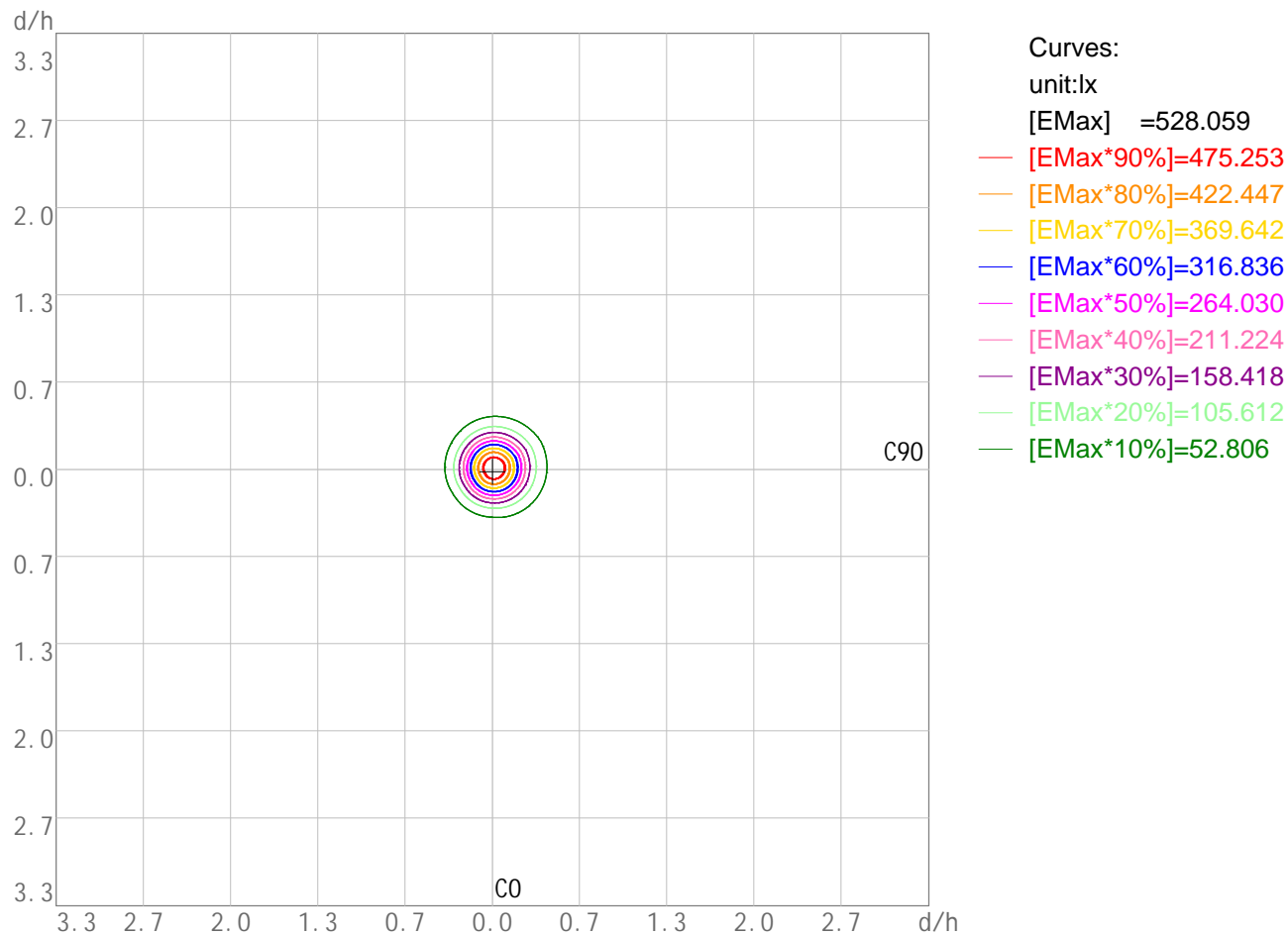
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Lamp Name: 1202	Lamp Catel og: C0B	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



Plane ISO-Illuminance Diagram

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 528.06
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

3D Plane Illuminance Model



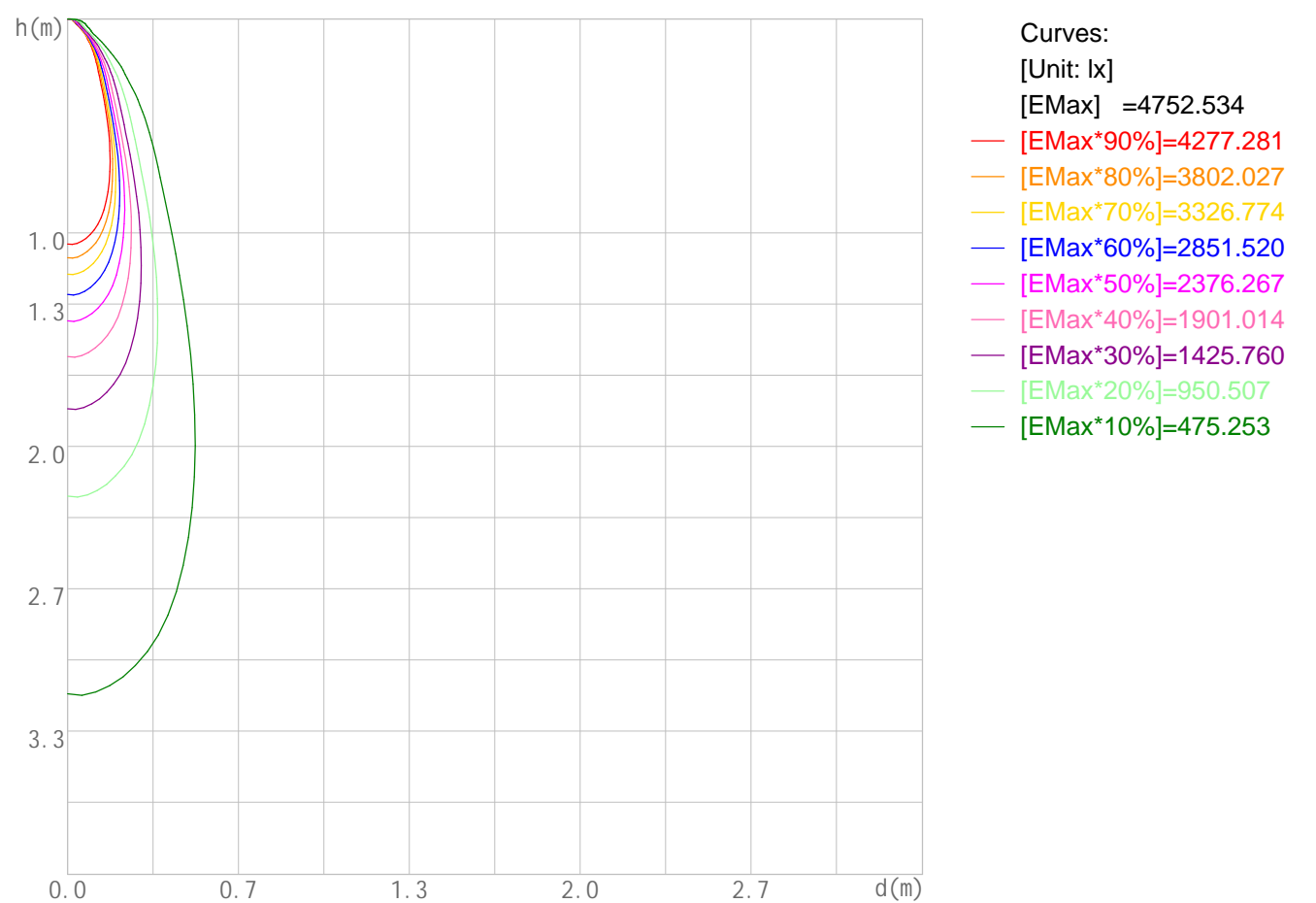
Curves: 3D Model— 90%— 80%— 70%— 60%— 50%— 40%— 30%— 20%— 10%—

View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

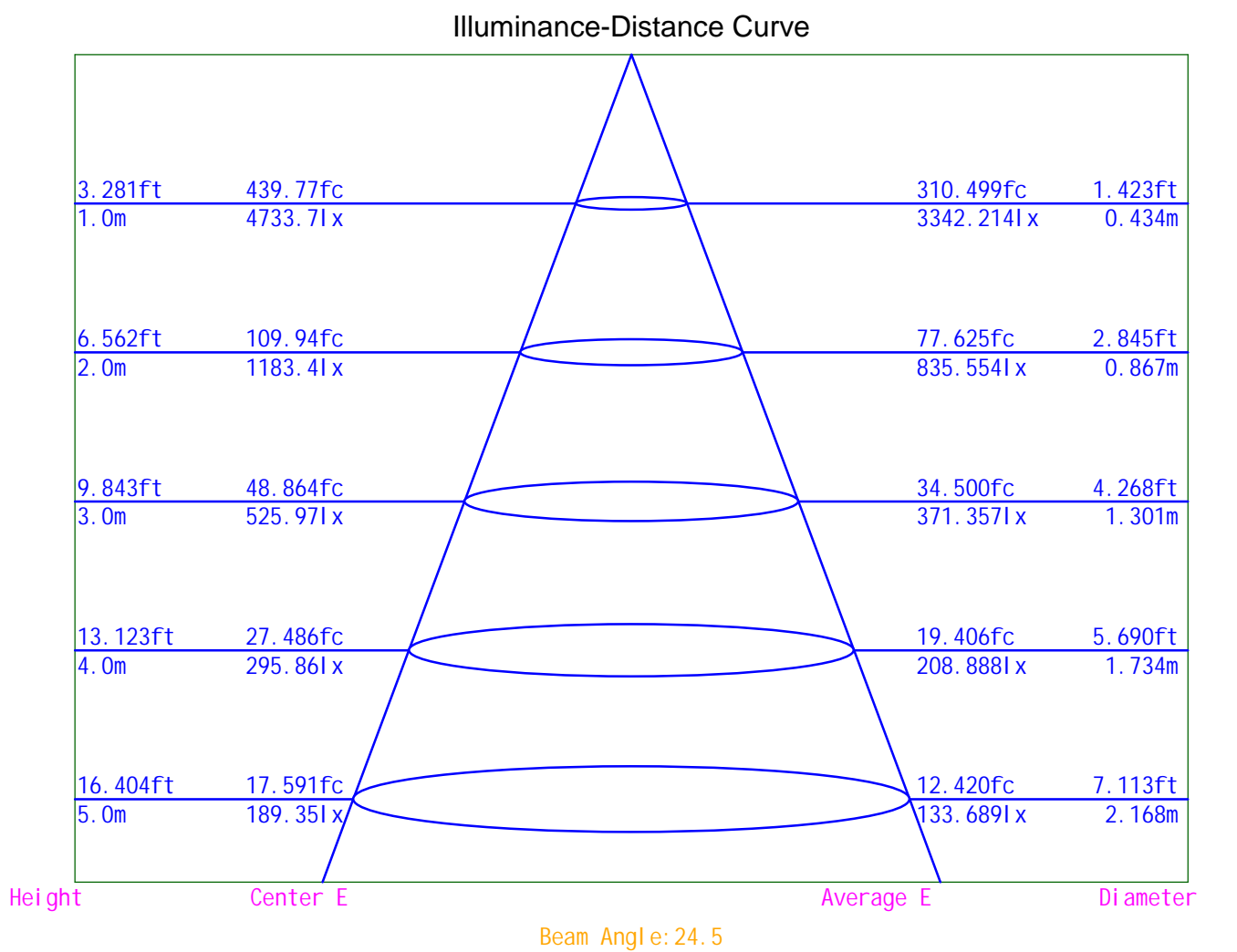
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:4752.53lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:4754.706cd,0deg

Illuminance-Distance Diagram

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



Indoor Luminance Limiting Curves

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

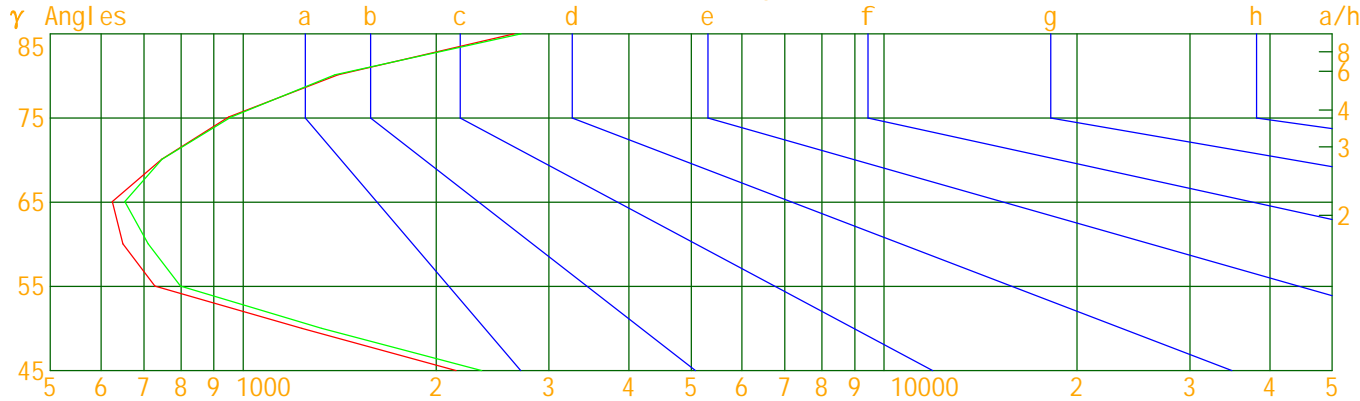
Glare Grade Table

GI	Quality	Using Illuminance							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama(deg)	45	50	55	60	65	70	75	80	85
C0	2148	1235	728	649	625	746	949	1406	2645
C90	2357	1325	798	711	654	747	958	1390	2713

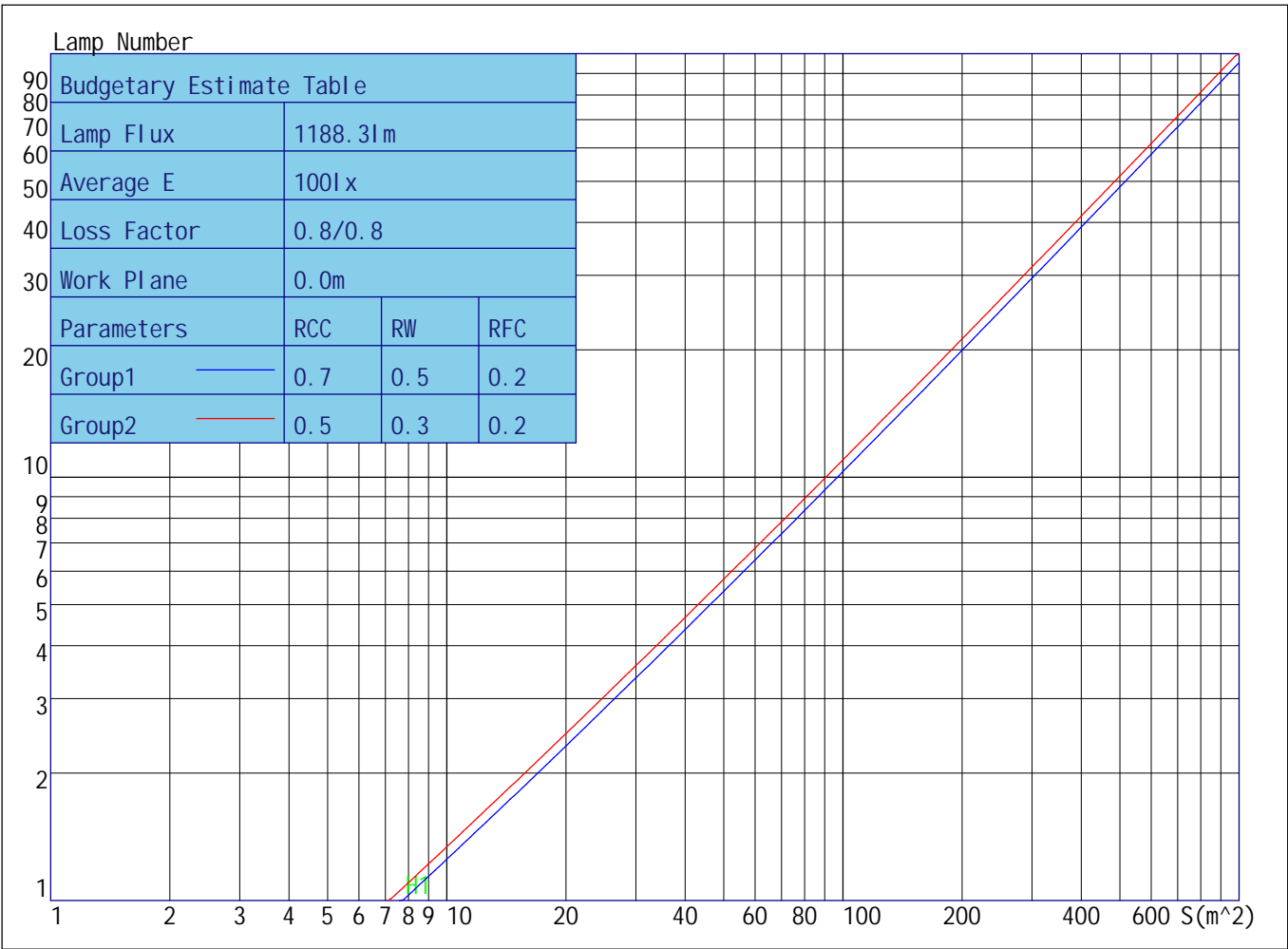
Luminance Limiting Curve



Luminous Size: Length(m)=-0.200 Width(m)=-0.200 Height(m)=0.000 Area(m^2)=0.031416
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8

Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8

Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

Indoor Coefficient of Utilization Table

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC(%)	80				70				50			30			10			0
RhoW(%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	97	97	97	97	94	94	94	94	89	89	89	85	85	85	81	81	81	79
1	93	91	89	87	90	89	87	85	85	83	82	81	80	79	78	77	76	75
2	89	86	83	80	87	84	81	79	81	79	77	78	76	75	75	74	73	71
3	86	81	78	75	84	80	77	74	77	75	73	75	73	71	73	71	70	68
4	82	77	74	71	81	76	73	70	74	71	69	72	70	68	70	68	67	66
5	80	74	70	67	78	73	69	67	71	68	66	70	67	65	68	66	64	63
6	77	71	67	64	76	70	67	64	69	66	63	67	65	63	66	64	62	61
7	74	68	64	62	73	68	64	61	66	63	61	65	62	60	64	62	60	59
8	72	66	62	59	71	65	62	59	64	61	59	63	60	58	62	60	58	57
9	70	64	60	57	69	63	60	57	62	59	57	61	58	56	60	58	56	55
10	68	62	58	55	67	61	58	55	60	57	55	60	57	55	59	56	54	54

IES Indoor Report

Photometric Filename:AT10021 15W 1202 3090 HK50-24D KG350.IES

Unified Glare Rating Table

Lum. Name: AT10021	Lum. Catalog:	Test ID:
Lamp Name: 1202	Lamp Catalog: COB	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2017/05/23

Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Room Size	Vewed crosswise					Vewed endwise					
X=2H Y=2H	8.7	9.3	9.2	9.7	10.1	9.5	10.0	9.9	10.4	10.8	
	Y=3H	9.0	9.4	9.5	9.9	10.3	9.7	10.1	10.2	10.5	11.0
	Y=4H	9.4	9.8	9.9	10.2	10.7	10.0	10.4	10.5	10.8	11.3
	Y=6H	10.1	10.4	10.6	10.9	11.4	10.6	10.9	11.1	11.4	11.9
	Y=8H	10.7	10.9	11.2	11.4	11.9	11.1	11.3	11.6	11.8	12.3
	Y=12H	11.4	11.5	11.9	12.0	12.5	11.7	11.9	12.3	12.4	12.9
X=4H Y=2H	8.6	9.0	9.1	9.4	9.9	9.3	9.7	9.8	10.1	10.6	
	Y=3H	9.2	9.4	9.7	9.9	10.4	9.8	10.0	10.3	10.5	11.0
	Y=4H	9.8	9.9	10.3	10.4	11.0	10.3	10.4	10.9	10.9	11.5
	Y=6H	10.8	10.9	11.4	11.4	12.0	11.3	11.3	11.8	11.8	12.4
	Y=8H	11.6	11.6	12.2	12.1	12.7	11.9	11.9	12.5	12.4	13.0
	Y=12H	12.5	12.4	13.1	13.0	13.6	12.8	12.7	13.4	13.3	13.9
X=8H Y=4H	10.0	10.0	10.6	10.5	11.1	10.5	10.5	11.1	11.1	11.6	
	Y=6H	11.4	11.3	12.1	11.9	12.4	11.8	11.7	12.4	12.3	12.8
	Y=8H	12.4	12.2	13.1	12.9	13.5	12.7	12.5	13.4	13.1	13.8
	Y=12H	13.7	13.4	14.3	14.0	14.7	13.9	13.7	14.6	14.3	15.0
X=12H Y=4H	10.1	10.0	10.7	10.6	11.2	10.6	10.5	11.2	11.1	11.7	
	Y=6H	11.6	11.4	12.3	12.0	12.7	12.0	11.8	12.6	12.4	13.0
	Y=8H	12.8	12.5	13.4	13.1	13.8	13.0	12.8	13.7	13.4	14.1
Variations with the observer position at spacings											
S=1.0H	0.1/-0.1					0.0/-0.0					
S=1.5H	0.1/-0.1					0.1/-0.1					
S=2.0H	0.2/-0.3					0.2/-0.3					
Reduced UGR Table:											
Nordic Standard Table:	BK0					BK0					
Correction Value	3.2					3.0					

ie CIE Pub.117,data has been corrected,refers to the lamp's lumens 8.2flm.

IES Indoor Report

Photometric Filename:AT10021 15W 1202 3090 HK50-24D KG350.IES

Candela Tabulation

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 0.0	4733.73	4733.73	4733.73	4733.73	4733.73	4733.73
γ 1.0	4754.71	4744.24	4707.04	4693.59	4669.39	4705.02
γ 2.0	4715.80	4714.91	4644.75	4599.86	4569.03	4635.65
γ 3.0	4639.25	4647.45	4552.40	4478.72	4438.07	4533.54
γ 4.0	4532.19	4551.49	4432.85	4334.67	4280.99	4401.23
γ 5.0	4391.86	4424.90	4281.76	4161.54	4093.91	4239.20
γ 6.0	4228.53	4265.09	4098.61	3956.79	3878.96	4045.29
γ 7.0	4034.55	4071.15	3885.02	3715.38	3632.45	3816.64
γ 8.0	3804.09	3846.11	3645.13	3439.57	3355.55	3556.52
γ 9.0	3537.65	3601.88	3382.36	3149.67	3057.27	3271.83
γ 10.0	3250.28	3342.11	3102.61	2851.15	2746.03	2969.28
γ 11.0	2953.94	3067.06	2811.99	2545.47	2428.96	2654.42
γ 12.0	2652.41	2780.39	2513.28	2233.79	2115.14	2333.61
γ 13.0	2354.90	2491.03	2219.31	1928.39	1814.07	2027.42
γ 14.0	2070.94	2210.53	1944.65	1643.09	1536.74	1744.95
γ 15.0	1804.61	1945.93	1690.47	1386.19	1290.53	1486.71
γ 16.0	1560.06	1704.20	1461.57	1161.59	1074.89	1254.35
γ 17.0	1337.57	1485.73	1257.34	967.67	891.23	1049.14
γ 18.0	1139.77	1289.24	1077.45	807.00	738.75	874.78
γ 19.0	968.15	1114.98	921.44	677.53	616.46	731.33
γ 20.0	822.69	960.92	789.18	574.25	520.77	616.41
γ 21.0	702.47	827.34	678.74	492.60	446.46	525.09
γ 22.0	603.48	714.01	588.23	428.34	387.91	452.64
γ 23.0	523.26	618.97	514.39	376.38	340.92	394.80
γ 24.0	457.97	540.41	453.39	332.96	302.60	347.71
γ 25.0	403.97	475.92	402.76	296.26	270.25	309.15
γ 26.0	359.46	422.11	360.42	265.25	242.60	276.32
γ 27.0	321.46	377.06	323.79	238.48	218.85	248.34
γ 28.0	288.87	338.43	292.55	215.37	197.67	223.76
γ 29.0	259.77	305.59	264.71	194.10	178.48	201.88
γ 30.0	234.65	276.77	239.76	174.97	160.85	182.04
γ 31.0	212.31	251.38	217.43	157.81	145.00	163.86
γ 32.0	192.07	228.07	196.78	141.98	130.71	147.98
γ 33.0	173.52	207.08	177.96	128.17	117.87	133.36
γ 34.0	156.73	187.09	160.66	114.94	105.65	119.91
γ 35.0	140.88	169.07	145.34	102.65	94.03	107.42
γ 36.0	127.52	153.06	130.82	92.14	84.28	96.74
γ 37.0	114.64	137.36	117.24	82.14	75.10	86.49
γ 38.0	100.83	122.96	104.96	73.56	66.63	76.17
γ 39.0	89.89	110.18	94.43	66.27	60.03	67.28
γ 40.0	81.21	99.58	85.74	60.07	54.40	60.55
γ 41.0	73.84	90.35	77.94	54.67	49.68	55.13
γ 42.0	66.97	81.98	70.71	49.66	45.31	50.26
γ 43.0	61.15	73.75	63.52	44.87	41.11	45.73

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IES Indoor Report

Photometric Filename:AT10021 15W 1202 3090 HK50-24D KG350.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 44.0	54.54	64.96	55.57	39.33	36.54	40.98
γ 45.0	47.72	56.41	48.31	34.27	32.09	36.13
γ 46.0	41.70	48.56	41.89	30.00	28.38	31.53
γ 47.0	36.22	42.07	36.74	26.75	25.18	27.93
γ 48.0	31.73	36.24	32.43	23.82	22.76	24.92
γ 49.0	28.17	31.55	28.75	21.50	20.65	22.22
γ 50.0	24.93	27.76	25.76	19.67	18.77	20.04
γ 51.0	22.21	24.66	23.10	17.86	17.04	18.15
γ 52.0	19.75	22.11	20.35	15.44	15.35	16.31
γ 53.0	17.16	19.01	17.55	13.44	13.26	14.16
γ 54.0	14.68	16.71	15.12	11.91	11.47	12.21
γ 55.0	13.13	14.99	13.77	10.64	10.55	10.99
γ 56.0	12.03	13.79	13.13	9.96	10.14	10.23
γ 57.0	11.48	13.01	12.39	9.58	9.79	9.62
γ 58.0	10.63	12.21	11.73	9.56	9.33	9.28
γ 59.0	10.56	11.88	11.14	8.87	9.02	8.73
γ 60.0	10.20	11.54	10.79	8.68	8.74	8.49
γ 61.0	9.73	10.96	10.30	8.08	8.20	8.12
γ 62.0	9.31	10.45	9.92	7.78	7.84	7.77
γ 63.0	9.19	9.96	9.53	7.47	7.67	7.49
γ 64.0	8.69	9.28	8.78	7.05	7.47	7.01
γ 65.0	8.30	8.96	8.40	6.60	7.04	6.78
γ 66.0	8.14	8.58	8.34	6.55	6.86	6.66
γ 67.0	7.98	8.15	8.19	6.37	6.95	6.59
γ 68.0	7.84	8.16	8.17	6.64	6.66	6.61
γ 69.0	7.75	8.11	8.02	6.55	6.64	6.59
γ 70.0	8.01	8.04	8.02	6.60	6.73	6.48
γ 71.0	7.97	8.10	7.91	6.51	6.75	6.56
γ 72.0	7.97	8.00	7.82	6.48	6.75	6.59
γ 73.0	8.05	8.10	8.00	6.63	6.81	6.56
γ 74.0	7.80	7.90	7.89	6.24	6.84	6.57
γ 75.0	7.72	7.86	7.72	6.36	6.77	6.44
γ 76.0	7.49	7.96	7.68	6.52	6.68	6.51
γ 77.0	7.60	7.90	7.68	6.59	6.65	6.53
γ 78.0	7.60	7.76	7.47	6.49	6.77	6.55
γ 79.0	7.52	7.75	7.45	6.17	6.66	6.62
γ 80.0	7.67	7.74	7.43	6.60	6.66	6.74
γ 81.0	7.77	7.67	7.51	6.19	6.75	6.80
γ 82.0	7.64	7.52	7.68	6.13	6.57	6.64
γ 83.0	7.44	7.57	7.36	6.17	6.43	6.79
γ 84.0	7.18	7.57	7.39	6.32	6.43	6.68
γ 85.0	7.24	7.45	7.40	6.55	6.49	6.64
γ 86.0	7.52	7.48	7.59	6.30	6.48	6.71
γ 87.0	7.29	7.55	7.50	6.45	6.70	6.45

IES Indoor Report

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Candela Tabulation - (Cont.)

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 88.0	7.02	7.57	7.40	6.37	6.58	6.44
γ 89.0	7.38	7.64	7.55	6.50	6.65	6.63
γ 90.0	7.21	7.63	7.37	6.38	6.62	6.72
γ 91.0	7.19	7.77	7.23	6.27	6.55	6.50
γ 92.0	7.40	7.60	7.32	6.37	6.59	6.45
γ 93.0	7.36	7.50	7.31	6.40	6.54	6.61
γ 94.0	6.98	7.65	7.31	6.43	6.45	6.60
γ 95.0	7.48	7.45	7.38	6.35	6.40	6.64
γ 96.0	7.38	7.39	7.29	6.68	6.51	6.57
γ 97.0	7.32	7.44	7.18	6.39	6.61	6.65
γ 98.0	7.32	7.64	7.16	6.44	6.56	6.53
γ 99.0	7.41	7.57	7.36	6.39	6.41	6.31
γ 100.0	7.32	7.44	7.17	6.24	6.51	6.49
γ 101.0	7.68	7.55	7.19	6.21	6.55	6.59
γ 102.0	7.34	7.61	7.11	6.46	6.44	6.74
γ 103.0	7.30	7.43	7.19	6.59	6.57	6.66
γ 104.0	7.26	7.43	7.20	6.49	6.78	6.62
γ 105.0	7.12	7.41	7.02	6.59	6.77	6.66
γ 106.0	7.23	7.31	7.03	6.56	6.59	6.68
γ 107.0	7.17	7.28	7.27	6.47	6.55	6.63
γ 108.0	7.33	7.25	7.34	6.40	6.71	6.69
γ 109.0	7.05	7.32	7.45	6.28	6.78	6.77
γ 110.0	7.17	7.47	7.33	6.16	6.66	6.68
γ 111.0	7.23	7.57	7.31	6.28	6.61	6.70
γ 112.0	7.10	7.36	7.32	6.44	6.58	6.94
γ 113.0	6.98	7.17	7.28	6.51	6.56	7.01
γ 114.0	7.07	7.70	7.10	6.49	6.75	6.78
γ 115.0	7.11	7.62	7.03	6.42	6.65	6.84
γ 116.0	7.35	7.54	6.96	6.19	6.70	6.74
γ 117.0	6.99	7.67	7.10	6.07	6.66	6.79
γ 118.0	7.21	7.71	7.14	6.29	6.78	6.99
γ 119.0	7.21	7.69	7.08	6.40	7.10	6.83
γ 120.0	7.23	7.62	7.14	6.59	7.14	6.78
γ 121.0	7.24	7.61	7.05	6.58	7.17	6.96
γ 122.0	7.25	7.61	6.97	6.31	7.22	6.91
γ 123.0	7.07	7.50	7.08	6.49	7.19	6.82
γ 124.0	6.94	7.49	6.89	6.26	7.16	6.93
γ 125.0	7.26	7.45	7.10	6.34	7.15	7.05
γ 126.0	7.03	7.46	7.25	6.38	7.35	7.11
γ 127.0	7.21	7.42	7.21	6.59	7.30	7.06
γ 128.0	6.97	7.34	7.03	6.32	7.18	6.94
γ 129.0	6.78	7.29	7.17	6.63	7.01	7.02
γ 130.0	7.03	7.45	7.29	6.82	7.19	7.16
γ 131.0	7.00	7.58	7.16	6.71	7.07	7.19

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IES Indoor Report

Photometric Filename:AT10021 15W 1202 3090 HK50-24D KG350.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 132.0	6.92	7.56	7.22	6.61	7.05	7.04
γ 133.0	7.07	7.63	7.11	6.78	7.05	6.99
γ 134.0	7.05	7.58	7.06	7.14	7.15	6.98
γ 135.0	7.11	7.71	7.17	6.81	7.50	7.14
γ 136.0	7.03	7.65	7.28	7.23	7.60	7.28
γ 137.0	7.20	7.77	7.34	7.17	7.45	7.36
γ 138.0	7.30	7.61	7.23	7.25	7.52	7.49
γ 139.0	7.33	7.69	7.29	7.17	7.66	7.42
γ 140.0	7.38	7.69	7.47	7.29	7.58	7.57
γ 141.0	7.61	7.65	7.65	7.32	7.67	7.78
γ 142.0	7.54	7.87	7.77	7.46	7.87	7.94
γ 143.0	7.89	7.99	7.89	7.68	8.13	8.03
γ 144.0	7.79	8.18	7.80	7.72	8.39	8.11
γ 145.0	8.14	8.27	7.82	8.20	8.55	8.33
γ 146.0	8.28	8.53	8.02	8.27	8.70	8.55
γ 147.0	8.58	8.80	8.49	8.27	8.85	8.72
γ 148.0	8.55	8.98	8.82	8.67	8.85	8.66
γ 149.0	9.18	8.99	8.86	8.98	9.18	8.89
γ 150.0	9.38	9.15	9.20	9.31	9.60	9.25
γ 151.0	9.44	9.46	9.48	9.11	9.69	9.53
γ 152.0	9.52	9.55	9.79	9.71	9.89	9.61
γ 153.0	9.88	9.91	9.92	9.90	10.03	9.89
γ 154.0	9.89	10.06	10.26	10.12	10.44	10.18
γ 155.0	10.16	10.35	10.42	10.65	10.76	10.66
γ 156.0	10.41	10.59	10.66	10.55	10.98	10.59
γ 157.0	10.66	10.93	10.99	10.55	11.17	10.84
γ 158.0	10.99	11.20	11.04	11.00	11.09	11.20
γ 159.0	11.49	11.24	11.14	11.39	11.39	11.51
γ 160.0	11.62	11.30	11.29	11.47	11.65	11.50
γ 161.0	11.79	11.76	11.52	11.76	11.63	11.71
γ 162.0	11.92	12.09	11.76	11.70	11.97	11.94
γ 163.0	12.21	12.23	11.86	12.02	11.88	11.95
γ 164.0	12.31	12.10	12.07	12.23	12.24	12.13
γ 165.0	12.48	12.30	12.22	12.06	12.40	12.18
γ 166.0	12.52	12.42	12.24	12.19	12.51	12.43
γ 167.0	12.47	12.34	12.39	12.64	12.42	12.52
γ 168.0	12.73	12.46	12.55	12.67	12.35	12.69
γ 169.0	12.66	12.53	12.40	12.47	12.21	12.66
γ 170.0	12.79	12.55	12.42	12.47	12.21	12.53
γ 171.0	12.62	12.58	12.22	12.44	12.28	12.37
γ 172.0	12.80	12.40	12.27	12.35	12.19	12.24
γ 173.0	12.62	12.35	12.25	12.51	12.22	12.10
γ 174.0	12.44	12.23	12.12	12.15	12.11	12.10
γ 175.0	12.47	12.24	12.26	12.26	12.01	11.95

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Candela Tabulation - (Cont.)

V/H	C0.0	C60.0	C120.0	C180.0	C240.0	C300.0
γ 176.0	12.35	12.20	12.33	11.76	12.01	12.01
γ 177.0	12.30	12.40	12.08	12.16	12.20	11.88
γ 178.0	12.23	12.21	12.03	12.31	12.12	12.01
γ 179.0	12.06	12.07	12.12	12.21	12.16	11.90
γ 180.0	12.11	12.11	12.11	12.11	12.11	12.11