

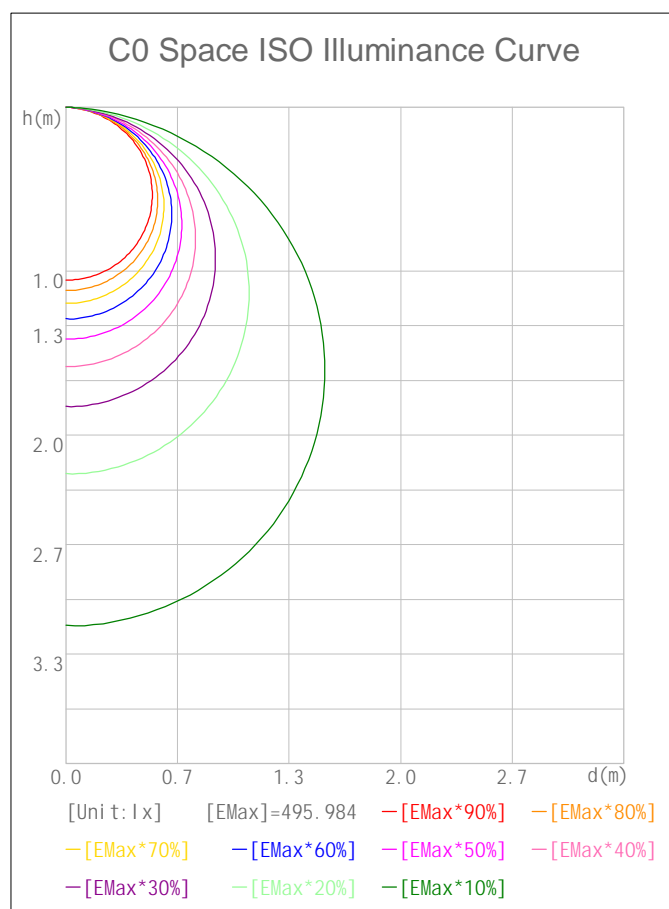
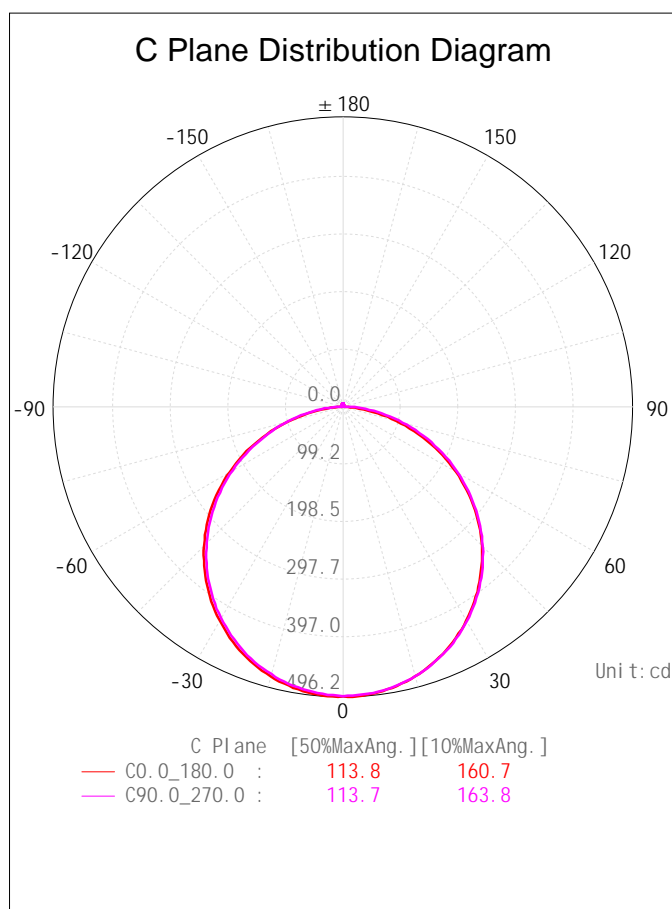
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 18W		Lum. Catalog:	Test ID:
Lamp Name: SMD		Lamp Catalog: SMD	Test Date: 2020/07/07
Manufacture:		Shld. Ang(°):	Test Machine: GON-2000
Test Lab:		Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H): 0.178m*0.178m*0.000m		Lum. Area(m2): 0.025	Lum. W(kg): 1.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp.(°C): 25	Humidity(%): 50.0

Character Parameter

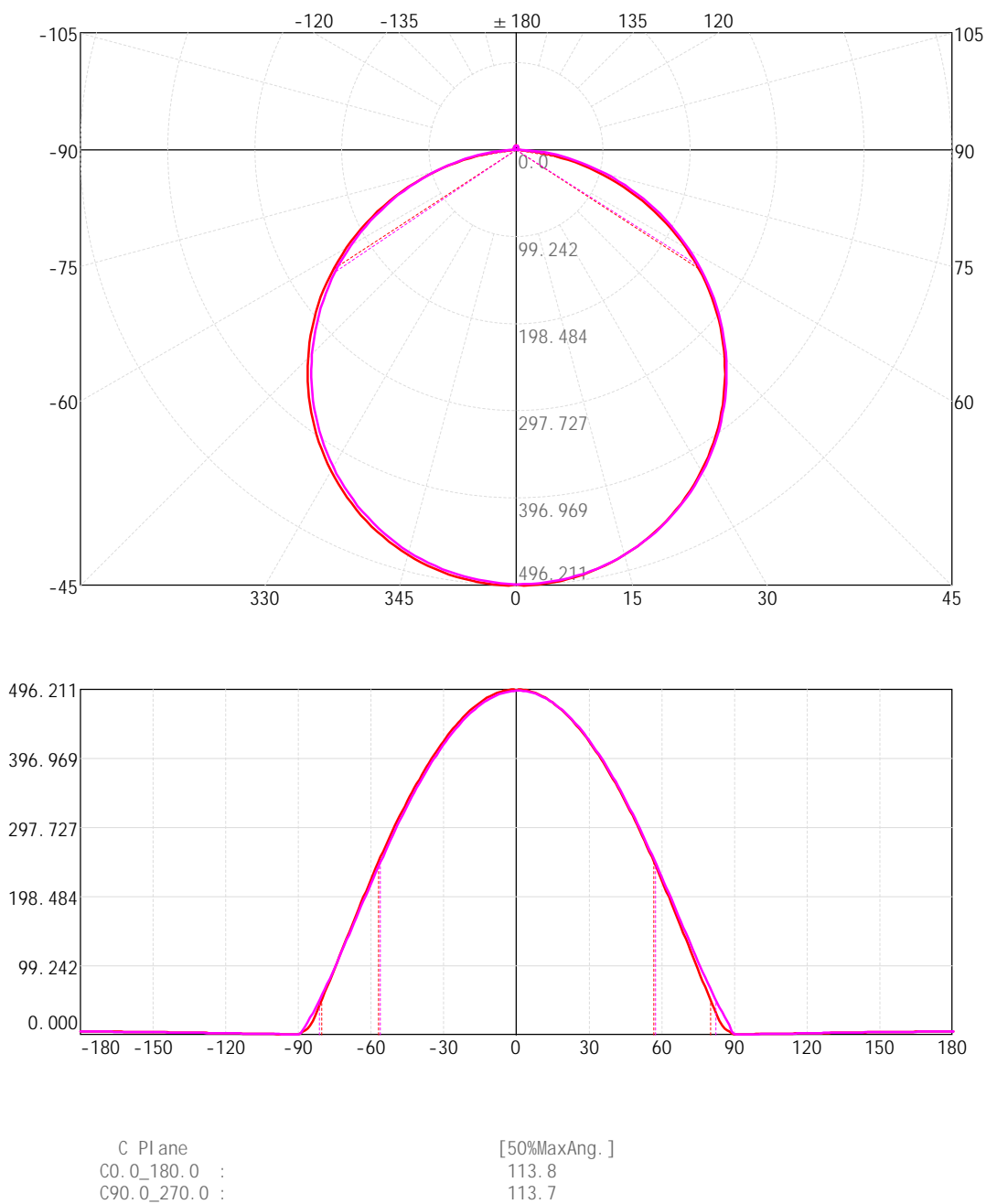
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1453.870	Luminary Flux(lm): 1453.873	Field Angle(10%Imax): 160.7(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1437.661lm 98.88%
Rated Voltage(V):	Luminary EER(lm/W): 86.079	Up Lumens&Percent: 16.212lm 1.12%
Tested Power(W): 16.890	Max. Candela(cd): 496.211	S/MH: C0_a180=1.266 C90_270=1.262
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf): 220.6, 0.137, 0.556	Beam Angle(50%Imax): 113.8(°)	ErP φuse(120°): 1124.199lm
Lamp Size(W*L*H): 0.178m*0.178m*0.000m	Left=-56.9°, Right=56.9°	IRF(%): 107.717



2D Plane Light Intensity Distribution Curve

Lum. Name: 18W	Lum. Catalog: SMD	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

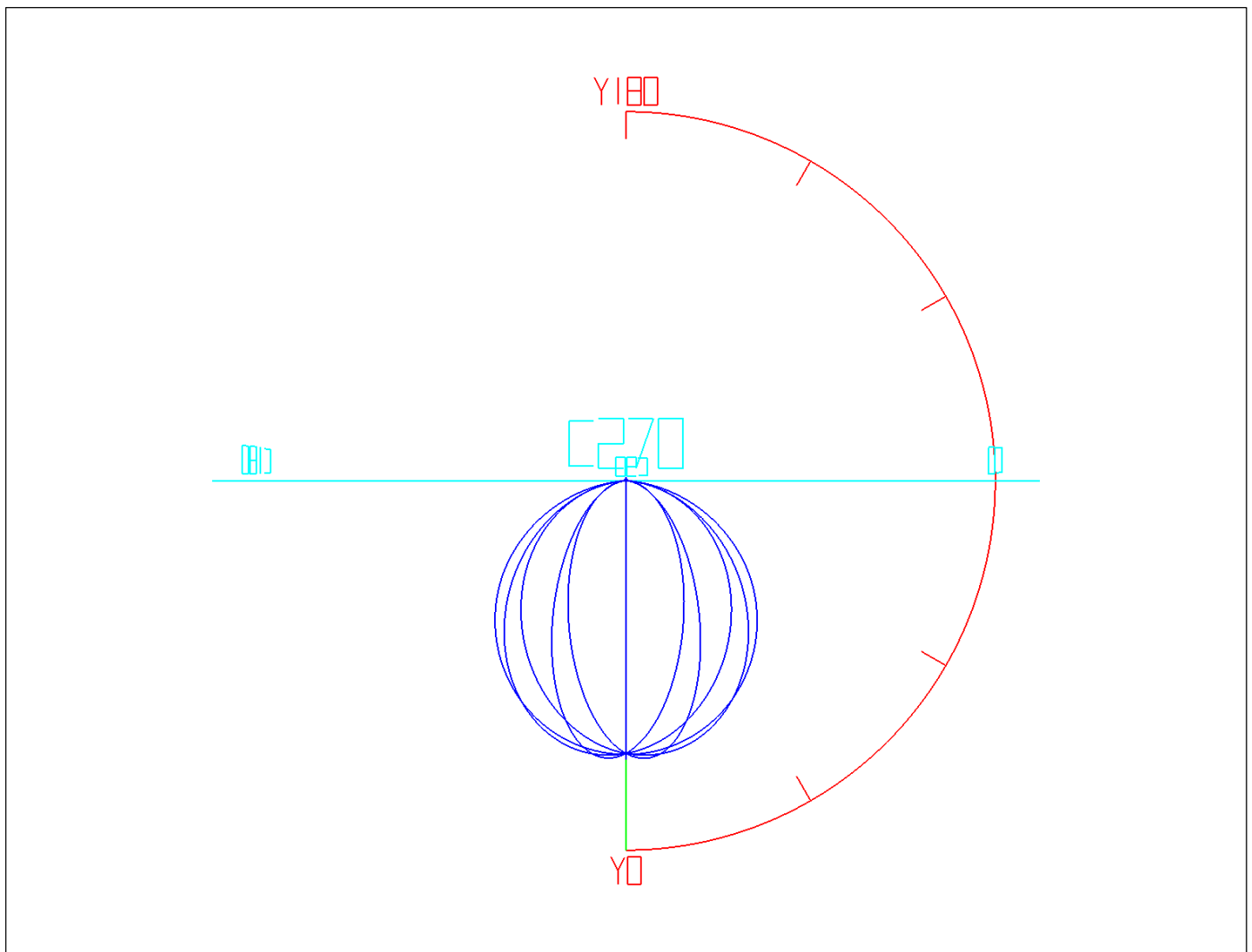
C Plane Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: 18W	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

3D Light Intensity Distribution Modal



Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

IES Indoor Report
Photometric Filename:18W.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	0.47	0.47	0.03	0.03	45.0-46.0	25.87	787.77	1.78	54.18
1.0-2.0	1.42	1.89	0.10	0.13	46.0-47.0	25.77	813.54	1.77	55.96
2.0-3.0	2.36	4.26	0.16	0.29	47.0-48.0	25.64	839.18	1.76	57.72
3.0-4.0	3.30	7.56	0.23	0.52	48.0-49.0	25.47	864.66	1.75	59.47
4.0-5.0	4.24	11.80	0.29	0.81	49.0-50.0	25.27	889.93	1.74	61.21
5.0-6.0	5.17	16.97	0.36	1.17	50.0-51.0	25.04	914.97	1.72	62.93
6.0-7.0	6.10	23.07	0.42	1.59	51.0-52.0	24.77	939.73	1.70	64.64
7.0-8.0	7.01	30.08	0.48	2.07	52.0-53.0	24.47	964.20	1.68	66.32
8.0-9.0	7.92	38.00	0.54	2.61	53.0-54.0	24.13	988.33	1.66	67.98
9.0-10.0	8.82	46.82	0.61	3.22	54.0-55.0	23.76	1012.09	1.63	69.61
10.0-11.0	9.70	56.52	0.67	3.89	55.0-56.0	23.36	1035.45	1.61	71.22
11.0-12.0	10.57	67.09	0.73	4.61	56.0-57.0	22.93	1058.38	1.58	72.80
12.0-13.0	11.43	78.51	0.79	5.40	57.0-58.0	22.47	1080.85	1.55	74.34
13.0-14.0	12.27	90.78	0.84	6.24	58.0-59.0	21.98	1102.83	1.51	75.85
14.0-15.0	13.10	103.88	0.90	7.15	59.0-60.0	21.46	1124.29	1.48	77.33
15.0-16.0	13.90	117.78	0.96	8.10	60.0-61.0	20.91	1145.19	1.44	78.77
16.0-17.0	14.69	132.48	1.01	9.11	61.0-62.0	20.33	1165.53	1.40	80.17
17.0-18.0	15.46	147.94	1.06	10.18	62.0-63.0	19.73	1185.25	1.36	81.52
18.0-19.0	16.21	164.15	1.12	11.29	63.0-64.0	19.10	1204.35	1.31	82.84
19.0-20.0	16.94	181.10	1.17	12.46	64.0-65.0	18.45	1222.80	1.27	84.11
20.0-21.0	17.65	198.74	1.21	13.67	65.0-66.0	17.77	1240.57	1.22	85.33
21.0-22.0	18.33	217.07	1.26	14.93	66.0-67.0	17.07	1257.65	1.17	86.50
22.0-23.0	18.99	236.06	1.31	16.24	67.0-68.0	16.36	1274.00	1.13	87.63
23.0-24.0	19.62	255.68	1.35	17.59	68.0-69.0	15.63	1289.63	1.07	88.70
24.0-25.0	20.23	275.91	1.39	18.98	69.0-70.0	14.87	1304.50	1.02	89.73
25.0-26.0	20.81	296.71	1.43	20.41	70.0-71.0	14.10	1318.60	0.97	90.70
26.0-27.0	21.36	318.07	1.47	21.88	71.0-72.0	13.32	1331.92	0.92	91.61
27.0-28.0	21.88	339.95	1.51	23.38	72.0-73.0	12.53	1344.45	0.86	92.47
28.0-29.0	22.38	362.33	1.54	24.92	73.0-74.0	11.72	1356.17	0.81	93.28
29.0-30.0	22.84	385.17	1.57	26.49	74.0-75.0	10.91	1367.08	0.75	94.03
30.0-31.0	23.27	408.45	1.60	28.09	75.0-76.0	10.09	1377.18	0.69	94.72
31.0-32.0	23.68	432.13	1.63	29.72	76.0-77.0	9.27	1386.45	0.64	95.36
32.0-33.0	24.05	456.18	1.65	31.38	77.0-78.0	8.44	1394.89	0.58	95.94
33.0-34.0	24.39	480.57	1.68	33.05	78.0-79.0	7.61	1402.50	0.52	96.47
34.0-35.0	24.70	505.28	1.70	34.75	79.0-80.0	6.80	1409.30	0.47	96.93
35.0-36.0	24.98	530.25	1.72	36.47	80.0-81.0	5.98	1415.28	0.41	97.35
36.0-37.0	25.22	555.48	1.73	38.21	81.0-82.0	5.18	1420.46	0.36	97.70
37.0-38.0	25.43	580.90	1.75	39.96	82.0-83.0	4.39	1424.85	0.30	98.00
38.0-39.0	25.60	606.51	1.76	41.72	83.0-84.0	3.64	1428.49	0.25	98.25
39.0-40.0	25.74	632.25	1.77	43.49	84.0-85.0	2.92	1431.40	0.20	98.45
40.0-41.0	25.85	658.10	1.78	45.27	85.0-86.0	2.27	1433.68	0.16	98.61
41.0-42.0	25.93	684.03	1.78	47.05	86.0-87.0	1.72	1435.40	0.12	98.73
42.0-43.0	25.96	709.99	1.79	48.83	87.0-88.0	1.22	1436.62	0.08	98.81
43.0-44.0	25.97	735.96	1.79	50.62	88.0-89.0	0.72	1437.34	0.05	98.86
44.0-45.0	25.94	761.90	1.78	52.40	89.0-90.0	0.32	1437.66	0.02	98.89

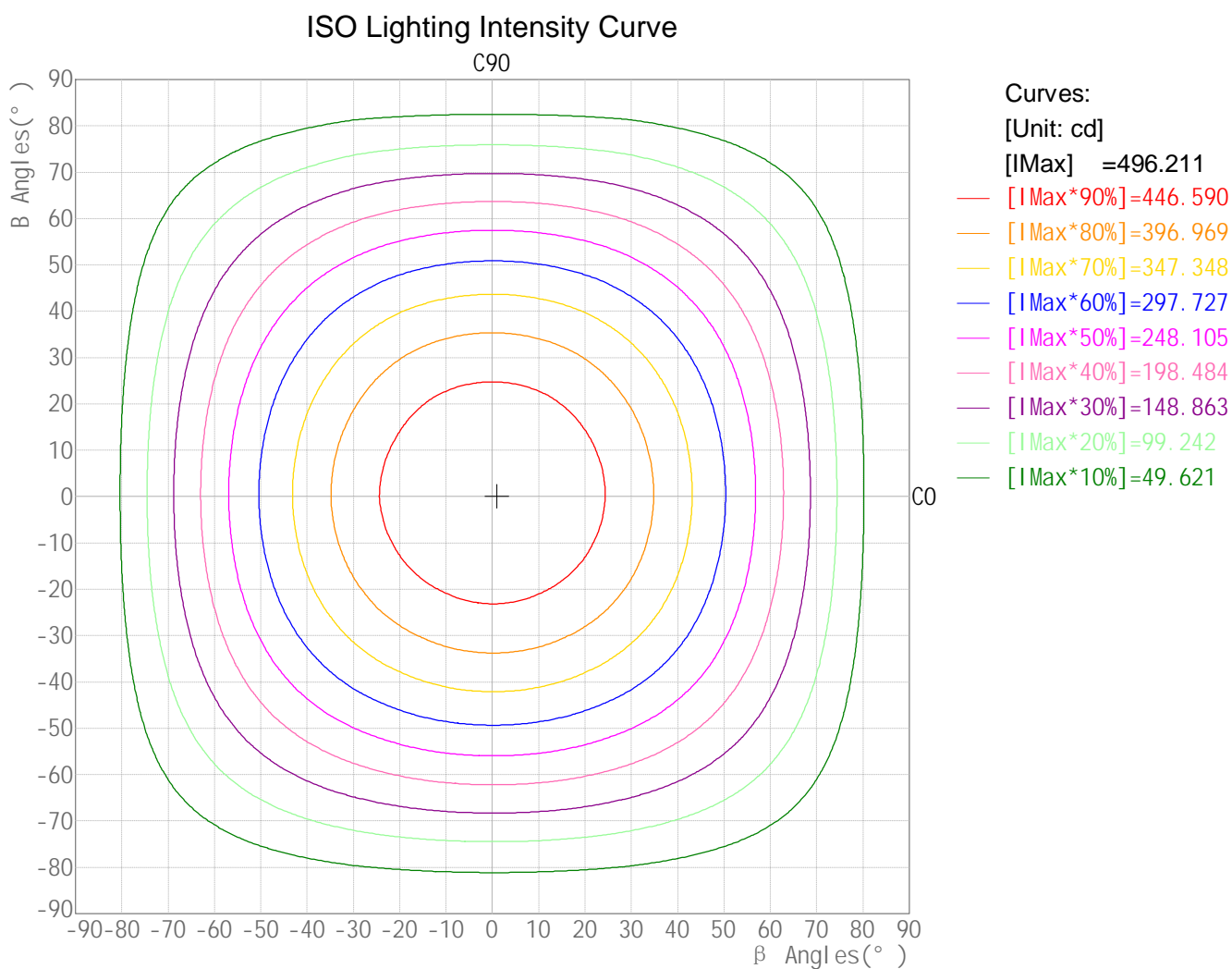
IES Indoor Report
Photometric Filename:18W.IES

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
90.0-91.0	0.14	1437.80	0.01	98.89	135.0-136.0	0.26	1446.75	0.02	99.51
91.0-92.0	0.11	1437.91	0.01	98.90	136.0-137.0	0.26	1447.01	0.02	99.53
92.0-93.0	0.11	1438.02	0.01	98.91	137.0-138.0	0.26	1447.27	0.02	99.55
93.0-94.0	0.11	1438.14	0.01	98.92	138.0-139.0	0.25	1447.52	0.02	99.56
94.0-95.0	0.12	1438.25	0.01	98.93	139.0-140.0	0.25	1447.77	0.02	99.58
95.0-96.0	0.12	1438.38	0.01	98.93	140.0-141.0	0.25	1448.02	0.02	99.60
96.0-97.0	0.13	1438.50	0.01	98.94	141.0-142.0	0.25	1448.27	0.02	99.61
97.0-98.0	0.13	1438.63	0.01	98.95	142.0-143.0	0.25	1448.52	0.02	99.63
98.0-99.0	0.14	1438.77	0.01	98.96	143.0-144.0	0.24	1448.76	0.02	99.65
99.0-100.0	0.14	1438.91	0.01	98.97	144.0-145.0	0.24	1449.00	0.02	99.67
100.0-101.0	0.14	1439.05	0.01	98.98	145.0-146.0	0.24	1449.24	0.02	99.68
101.0-102.0	0.15	1439.20	0.01	98.99	146.0-147.0	0.23	1449.47	0.02	99.70
102.0-103.0	0.15	1439.36	0.01	99.00	147.0-148.0	0.23	1449.70	0.02	99.71
103.0-104.0	0.16	1439.52	0.01	99.01	148.0-149.0	0.23	1449.93	0.02	99.73
104.0-105.0	0.16	1439.68	0.01	99.02	149.0-150.0	0.22	1450.15	0.02	99.74
105.0-106.0	0.17	1439.85	0.01	99.04	150.0-151.0	0.22	1450.37	0.02	99.76
106.0-107.0	0.17	1440.03	0.01	99.05	151.0-152.0	0.21	1450.59	0.01	99.77
107.0-108.0	0.18	1440.20	0.01	99.06	152.0-153.0	0.21	1450.80	0.01	99.79
108.0-109.0	0.18	1440.39	0.01	99.07	153.0-154.0	0.20	1451.00	0.01	99.80
109.0-110.0	0.19	1440.58	0.01	99.09	154.0-155.0	0.20	1451.20	0.01	99.82
110.0-111.0	0.19	1440.77	0.01	99.10	155.0-156.0	0.19	1451.39	0.01	99.83
111.0-112.0	0.20	1440.97	0.01	99.11	156.0-157.0	0.19	1451.58	0.01	99.84
112.0-113.0	0.20	1441.18	0.01	99.13	157.0-158.0	0.18	1451.76	0.01	99.86
113.0-114.0	0.21	1441.38	0.01	99.14	158.0-159.0	0.18	1451.94	0.01	99.87
114.0-115.0	0.21	1441.60	0.01	99.16	159.0-160.0	0.17	1452.11	0.01	99.88
115.0-116.0	0.22	1441.81	0.01	99.17	160.0-161.0	0.16	1452.27	0.01	99.89
116.0-117.0	0.22	1442.04	0.02	99.19	161.0-162.0	0.16	1452.43	0.01	99.90
117.0-118.0	0.23	1442.26	0.02	99.20	162.0-163.0	0.15	1452.58	0.01	99.91
118.0-119.0	0.23	1442.49	0.02	99.22	163.0-164.0	0.14	1452.72	0.01	99.92
119.0-120.0	0.23	1442.72	0.02	99.23	164.0-165.0	0.13	1452.85	0.01	99.93
120.0-121.0	0.24	1442.96	0.02	99.25	165.0-166.0	0.13	1452.98	0.01	99.94
121.0-122.0	0.24	1443.20	0.02	99.27	166.0-167.0	0.12	1453.10	0.01	99.95
122.0-123.0	0.24	1443.44	0.02	99.28	167.0-168.0	0.11	1453.21	0.01	99.95
123.0-124.0	0.25	1443.69	0.02	99.30	168.0-169.0	0.10	1453.32	0.01	99.96
124.0-125.0	0.25	1443.94	0.02	99.32	169.0-170.0	0.09	1453.41	0.01	99.97
125.0-126.0	0.25	1444.19	0.02	99.33	170.0-171.0	0.09	1453.50	0.01	99.97
126.0-127.0	0.25	1444.44	0.02	99.35	171.0-172.0	0.08	1453.58	0.01	99.98
127.0-128.0	0.25	1444.69	0.02	99.37	172.0-173.0	0.07	1453.64	0.00	99.98
128.0-129.0	0.26	1444.95	0.02	99.39	173.0-174.0	0.06	1453.70	0.00	99.99
129.0-130.0	0.26	1445.20	0.02	99.40	174.0-175.0	0.05	1453.76	0.00	99.99
130.0-131.0	0.26	1445.46	0.02	99.42	175.0-176.0	0.04	1453.80	0.00	100.00
131.0-132.0	0.26	1445.72	0.02	99.44	176.0-177.0	0.03	1453.83	0.00	100.00
132.0-133.0	0.26	1445.98	0.02	99.46	177.0-178.0	0.02	1453.85	0.00	100.00
133.0-134.0	0.26	1446.24	0.02	99.48	178.0-179.0	0.01	1453.87	0.00	100.00
134.0-135.0	0.26	1446.50	0.02	99.49	179.0-180.0	0.00	1453.87	0.00	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: 18W	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

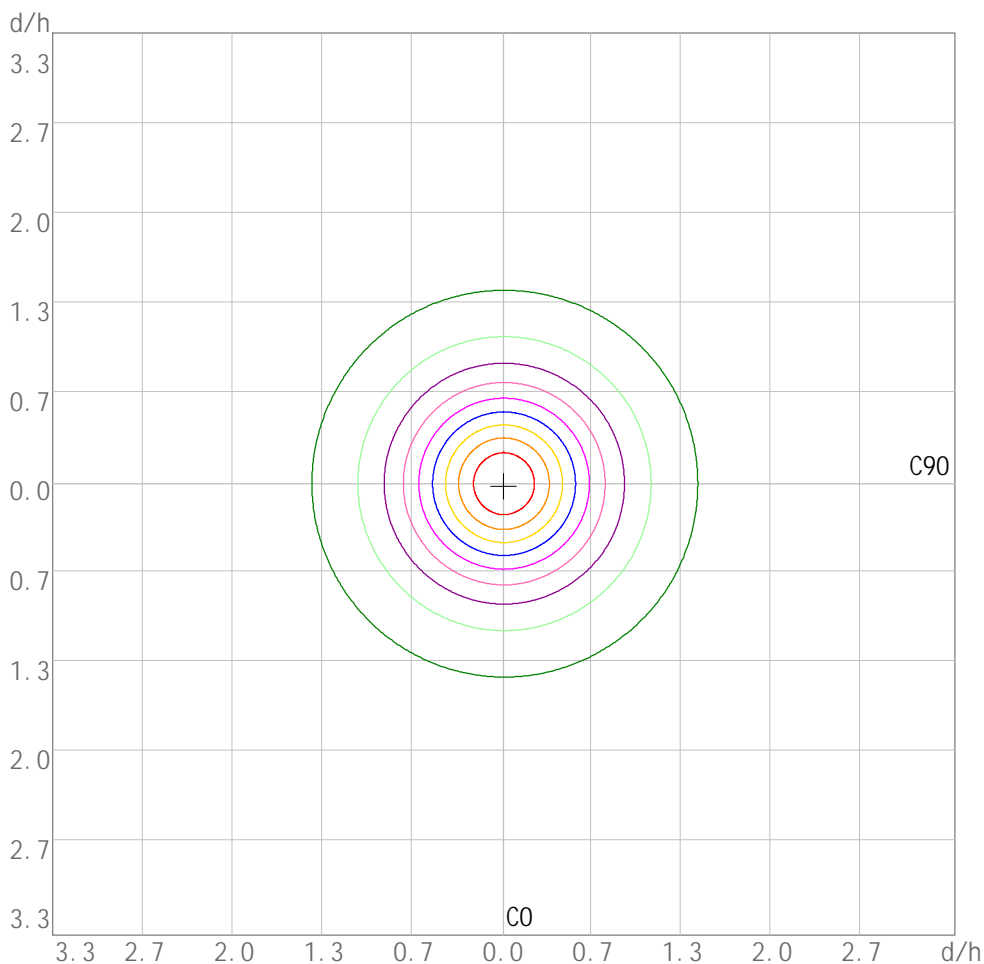


Maximum Light Intensity(cd): 496.21
Maximum Cand. @Angle: H=1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: 18W	Lum. Catalog: SMD	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

Plane ISO-Illuminance Curve



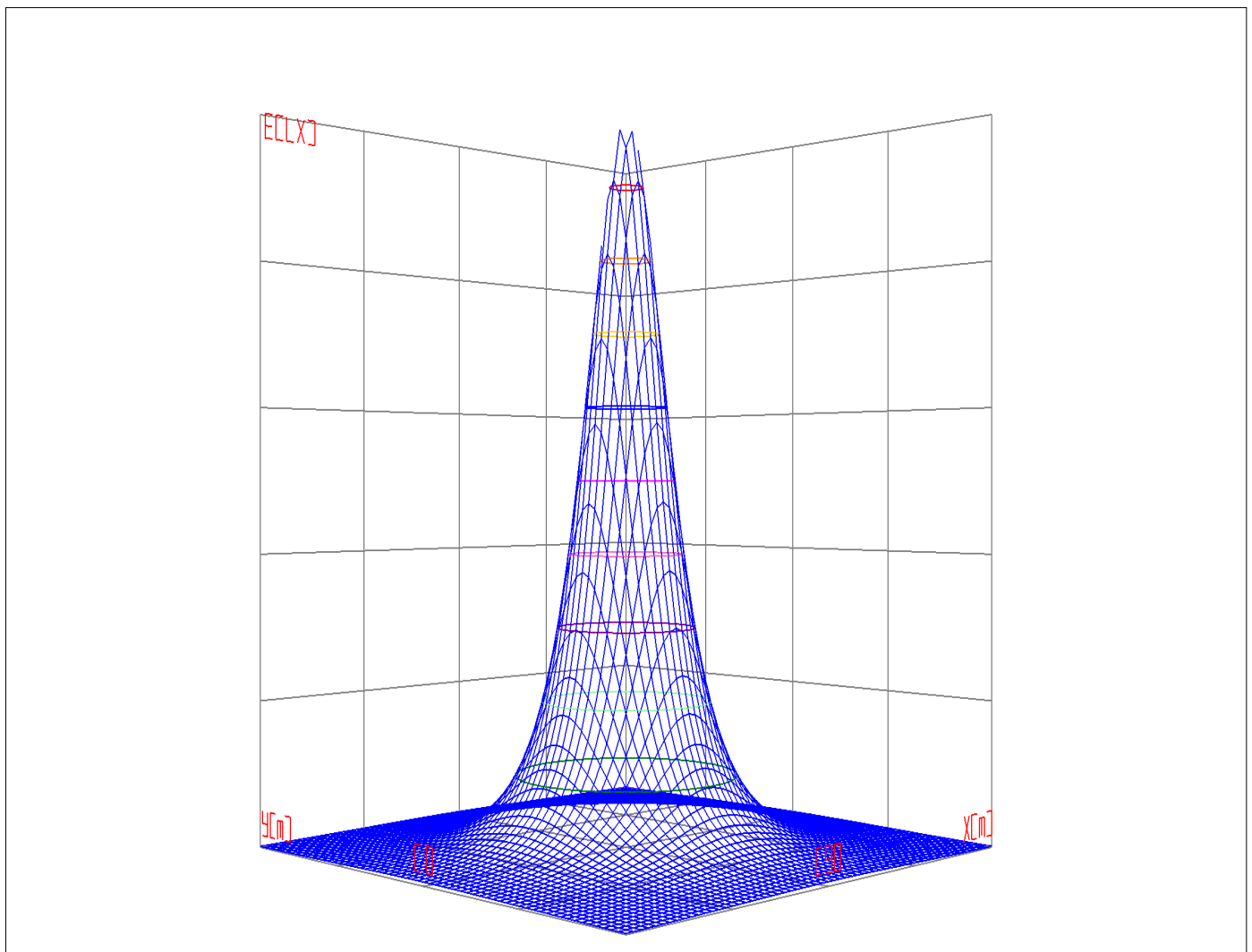
- Curves:
unit:lx
[EMax] =55.109
— [EMax*90%]=49.598
— [EMax*80%]=44.087
— [EMax*70%]=38.577
— [EMax*60%]=33.066
— [EMax*50%]=27.555
— [EMax*40%]=22.044
— [EMax*30%]=16.533
— [EMax*20%]=11.022
— [EMax*10%]=5.511

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 55.11
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: 18W	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

3D Plane Illuminance Modal

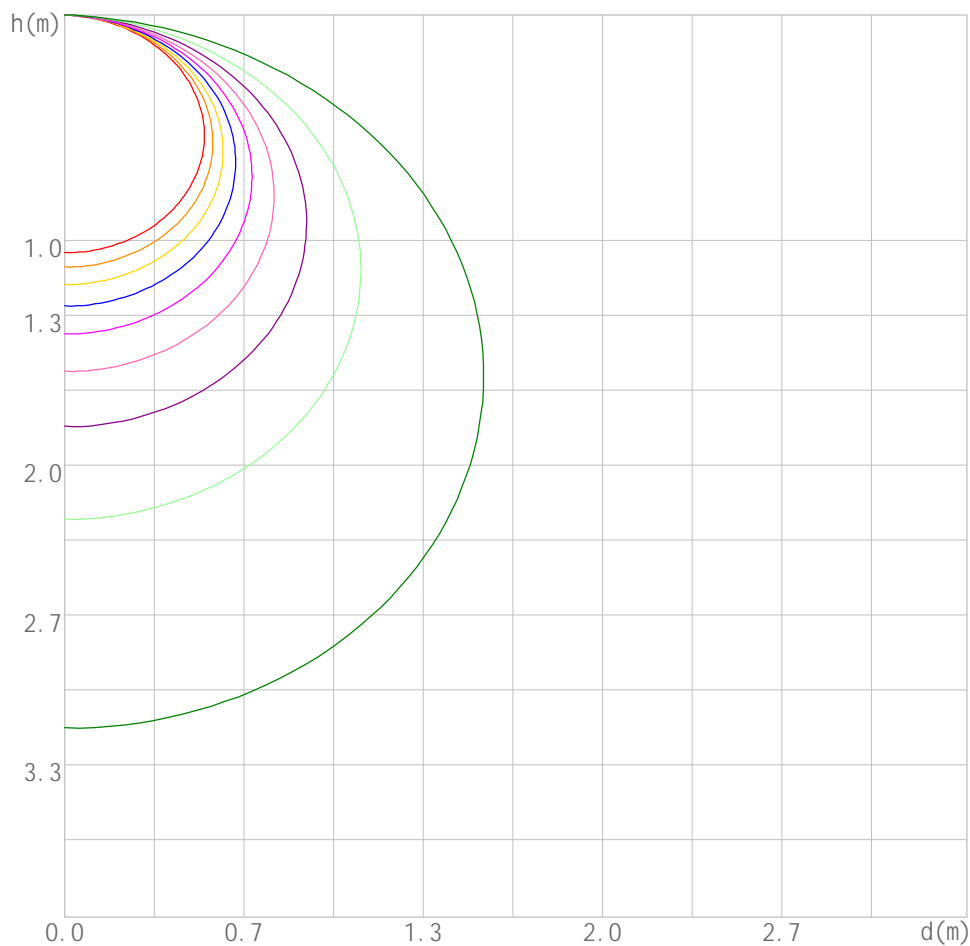


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: 18W	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

Space ISO Illuminance Curve



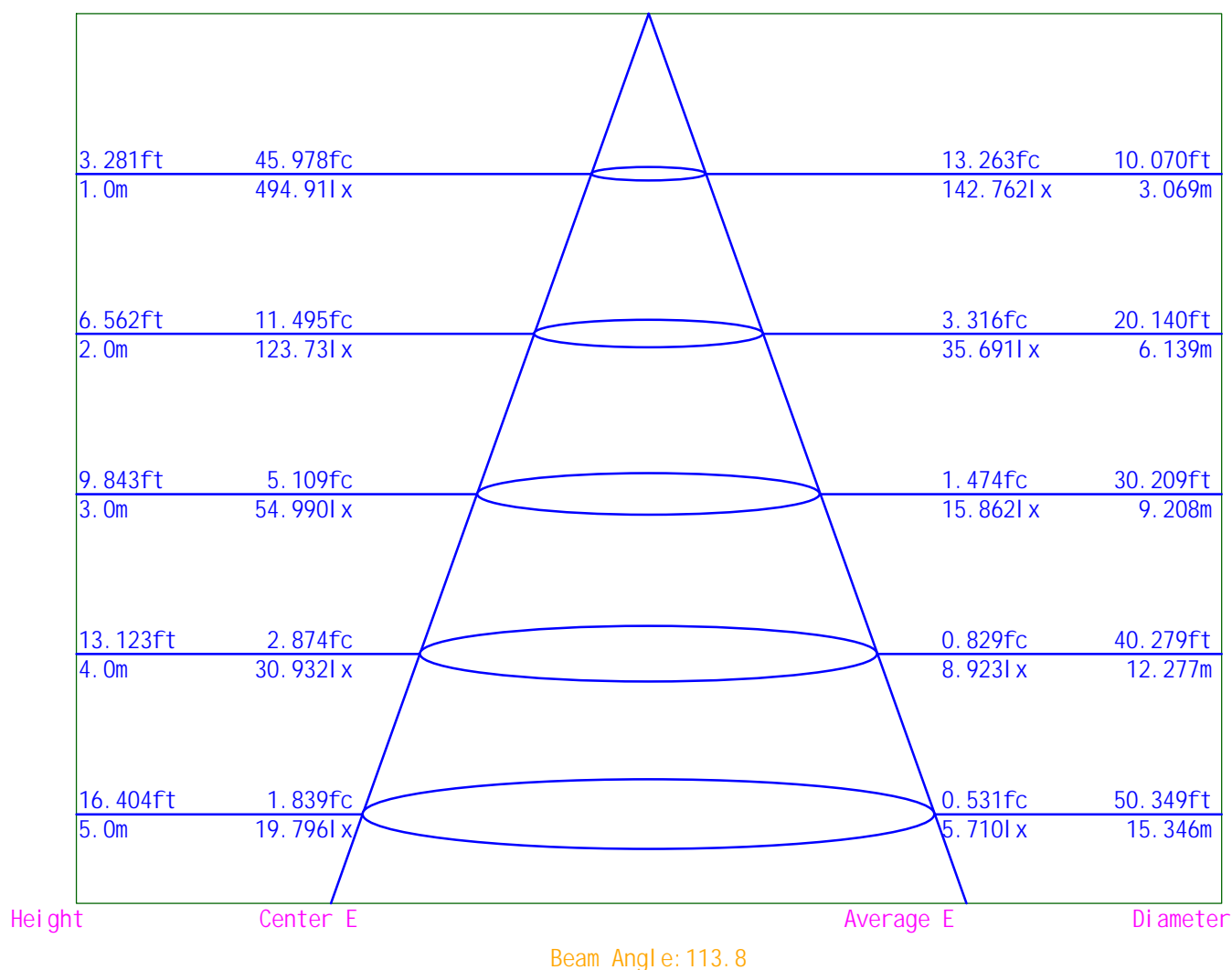
- Curves:
[Unit: lx]
[E_{Max}] =495.984
- [E_{Max}*90%]=446.386
 - [E_{Max}*80%]=396.787
 - [E_{Max}*70%]=347.189
 - [E_{Max}*60%]=297.591
 - [E_{Max}*50%]=247.992
 - [E_{Max}*40%]=198.394
 - [E_{Max}*30%]=148.795
 - [E_{Max}*20%]=99.197
 - [E_{Max}*10%]=49.598

Space Plane Maximum Illuminance and @Angle:495.98lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:496.211cd,0deg

Illuminance-Distance Diagram

Lum. Name: 18W	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: 18W	Lum. Catalog: SMD	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

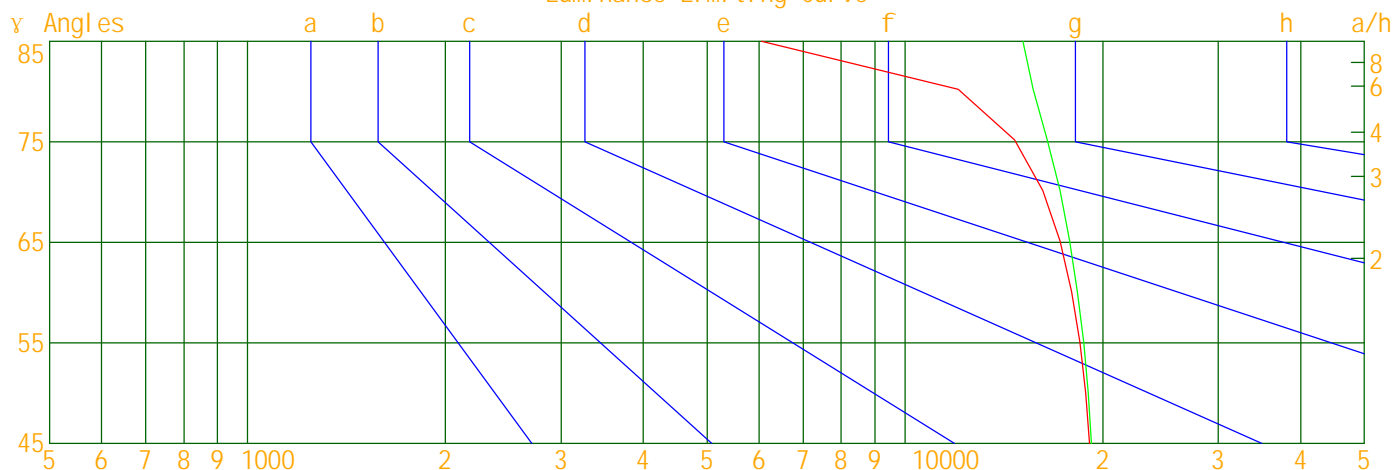
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
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

Gamma(deg)	45	50	55	60	65	70	75	80	85
C0	19083	18825	18457	17923	17211	16204	14701	12068	6055
C90	19230	18996	18700	18322	17820	17215	16485	15672	15112

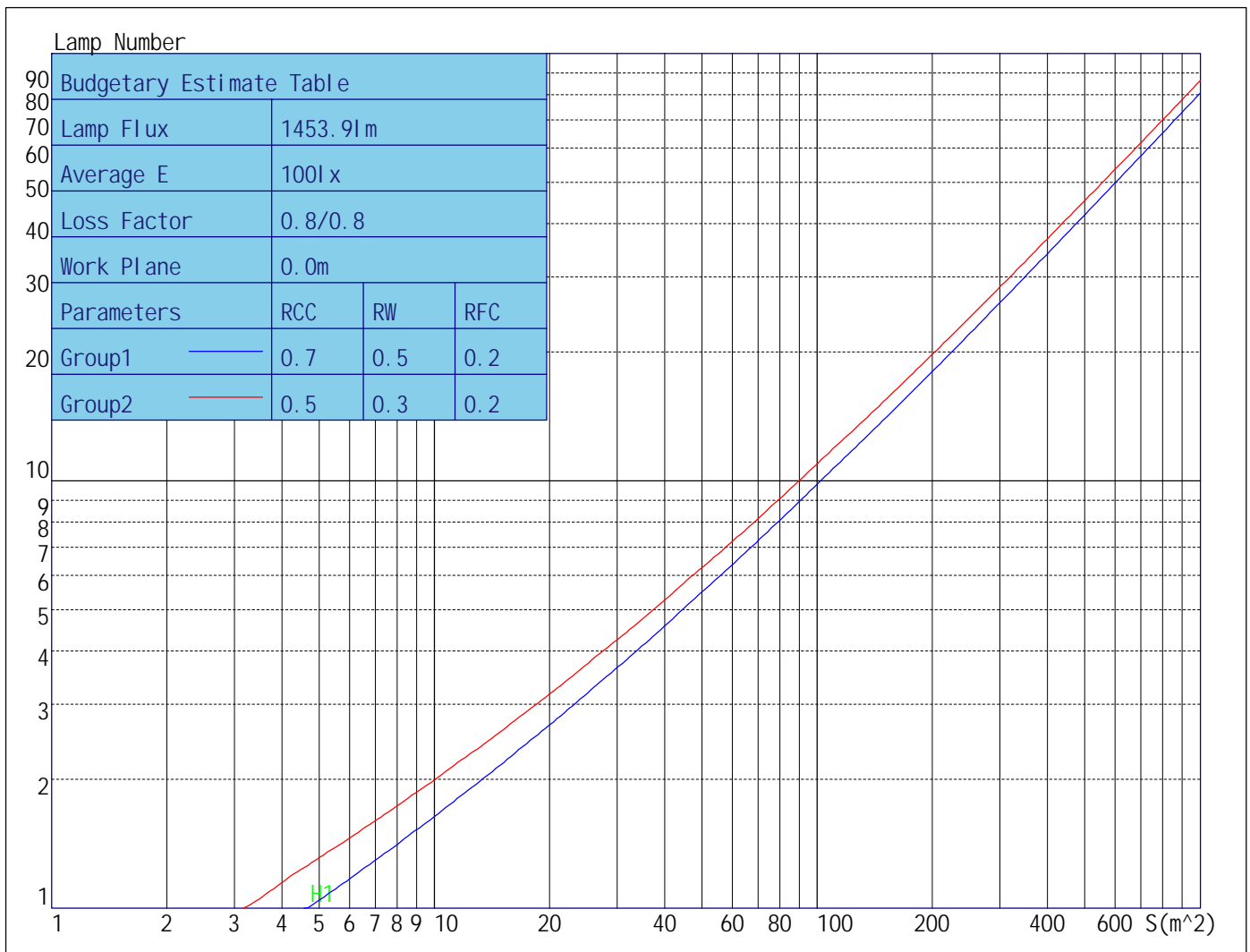
Luminance Limiting Curve



Luminous Size: Length(m)=-0.178 Width(m)=-0.178 Height(m)=0.000 Area(m²)=0.024885
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: 18W	Lum. Catalog: SMD	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07



Parameters1: Rhoc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
Parameters2: Rhoc = 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: 18W	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	108	103	99	95	105	101	97	94	97	93	90	93	90	87	89	87	85	82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68
3	90	79	71	64	87	77	70	63	74	67	62	71	66	61	68	64	60	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	30	25	23

IES Indoor Report
Photometric Filename:18W.IES

Unified Glare Rating Table

Lum. Name: 18W	Lum. Catalog:	Test ID:
Lamp Name: SMD	Lamp Catalog: SMD	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/07/07

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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	22.5	24.1	22.9	24.5	24.8	22.6	24.2	23.0	24.6	24.9
Y=3H	24.1	25.6	24.5	25.9	26.3	24.3	25.8	24.7	26.1	26.5
Y=4H	24.8	26.1	25.2	26.5	26.9	25.0	26.4	25.5	26.8	27.2
Y=6H	25.2	26.5	25.6	26.8	27.3	25.6	26.9	26.0	27.3	27.7
Y=8H	25.3	26.5	25.7	26.9	27.3	25.8	27.0	26.3	27.5	27.9
Y=12H	25.3	26.5	25.8	26.9	27.3	26.0	27.1	26.4	27.6	28.0
X=4H Y=2H	23.3	24.7	23.7	25.0	25.4	23.4	24.8	23.8	25.1	25.5
Y=3H	25.1	26.2	25.5	26.7	27.1	25.3	26.5	25.7	26.9	27.3
Y=4H	25.8	26.9	26.3	27.3	27.8	26.1	27.2	26.6	27.6	28.1
Y=6H	26.4	27.3	26.8	27.7	28.2	26.8	27.8	27.3	28.2	28.7
Y=8H	26.5	27.4	27.0	27.8	28.3	27.1	28.0	27.6	28.4	28.9
Y=12H	26.6	27.3	27.1	27.8	28.3	27.3	28.1	27.8	28.6	29.1
X=8H Y=4H	26.2	27.0	26.7	27.5	28.0	26.5	27.3	27.0	27.8	28.3
Y=6H	26.8	27.5	27.3	28.0	28.7	27.3	28.0	27.8	28.5	29.2
Y=8H	27.0	27.7	27.6	28.2	28.7	27.7	28.3	28.2	28.8	29.3
Y=12H	27.1	27.7	27.7	28.2	28.8	28.0	28.5	28.5	29.0	29.6
X=12H Y=4H	26.2	27.0	26.7	27.5	28.0	26.5	27.3	27.0	27.8	28.3
Y=6H	26.9	27.5	27.4	28.0	28.6	27.4	28.0	27.9	28.5	29.1
Y=8H	27.1	27.7	27.7	28.2	28.8	27.8	28.3	28.3	28.9	29.4
Variations with the observer position at spacings										
S=1.0H	0.6/-0.6					0.4/-0.5				
S=1.5H	1.0/-1.2					0.7/-0.8				
S=2.0H	1.1/-1.5					0.9/-1.1				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	2.7					3.1				

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

IES Indoor Report

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Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 0.0	494.91	494.91	494.91	494.91	494.91	494.91	494.91	494.91	494.91	494.91	494.91	494.91
Y 1.0	496.21	494.59	494.16	494.31	494.37	494.42	496.19	494.42	493.86	494.06	494.14	494.37
Y 2.0	495.97	494.41	494.06	494.21	494.24	494.21	495.95	494.09	493.48	493.68	493.78	494.08
Y 3.0	495.54	494.05	493.76	493.92	493.94	493.81	495.51	493.59	492.92	493.12	493.23	493.62
Y 4.0	494.96	493.53	493.32	493.45	493.47	493.27	494.92	492.91	492.17	492.39	492.51	493.01
Y 5.0	494.21	492.83	492.69	492.81	492.82	492.51	494.14	492.11	491.28	491.52	491.65	492.26
Y 6.0	493.26	491.96	491.90	492.01	492.01	491.62	493.17	491.08	490.20	490.47	490.58	491.26
Y 7.0	492.21	490.96	490.96	491.06	491.06	490.56	492.08	489.90	488.94	489.23	489.35	490.10
Y 8.0	490.92	489.73	489.83	489.92	489.89	489.31	490.79	488.57	487.57	487.86	487.99	488.82
Y 9.0	489.46	488.40	488.56	488.64	488.60	487.92	489.33	487.04	485.96	486.28	486.44	487.36
Y 10.0	487.86	486.84	487.08	487.14	487.09	486.33	487.76	485.39	484.26	484.60	484.77	485.77
Y 11.0	486.08	485.13	485.42	485.48	485.42	484.58	485.95	483.54	482.33	482.69	482.84	483.99
Y 12.0	484.13	483.30	483.66	483.70	483.65	482.70	484.04	481.50	480.24	480.62	480.76	482.03
Y 13.0	482.06	481.24	481.67	481.70	481.64	480.62	481.89	479.38	478.04	478.44	478.61	479.97
Y 14.0	479.77	479.01	479.52	479.56	479.48	478.35	479.58	477.02	475.63	476.03	476.22	477.66
Y 15.0	477.35	476.69	477.26	477.31	477.20	476.00	477.20	474.48	473.05	473.46	473.65	475.16
Y 16.0	474.74	474.13	474.78	474.81	474.68	473.40	474.56	471.89	470.37	470.82	471.02	472.59
Y 17.0	471.96	471.49	472.23	472.23	472.13	470.74	471.77	469.03	467.45	467.93	468.15	469.81
Y 18.0	469.11	468.63	469.42	469.40	469.30	467.84	468.90	466.01	464.47	464.87	465.19	466.83
Y 19.0	466.00	465.60	466.44	466.42	466.31	464.74	465.77	462.94	461.25	461.76	461.97	463.79
Y 20.0	462.75	462.50	463.41	463.38	463.27	461.62	462.61	459.64	457.89	458.39	458.64	460.52
Y 21.0	459.43	459.17	460.11	460.10	459.95	458.24	459.16	456.27	454.45	454.97	455.23	457.19
Y 22.0	455.85	455.64	456.67	456.61	456.48	454.68	455.56	452.61	450.73	451.30	451.55	453.58
Y 23.0	452.25	452.08	453.20	453.09	452.98	451.10	451.94	448.80	446.89	447.46	447.73	449.84
Y 24.0	448.35	448.25	449.44	449.31	449.20	447.23	448.03	444.98	443.01	443.60	443.87	446.04
Y 25.0	444.31	444.40	445.64	445.52	445.39	443.32	443.96	440.88	438.84	439.44	439.74	441.99
Y 26.0	440.24	440.28	441.56	441.43	441.31	439.17	439.89	436.62	434.70	435.16	435.59	437.80
Y 27.0	435.90	436.03	437.34	437.22	437.06	434.87	435.52	432.37	430.23	430.85	431.14	433.56
Y 28.0	431.40	431.73	433.09	432.97	432.81	430.56	431.16	427.83	425.62	426.26	426.57	429.08
Y 29.0	426.93	427.17	428.59	428.44	428.28	425.95	426.52	423.29	421.02	421.68	422.00	424.57
Y 30.0	422.14	422.44	423.94	423.77	423.60	421.20	421.71	418.47	416.13	416.81	417.13	419.78
Y 31.0	417.37	417.70	419.28	419.07	418.93	416.46	416.92	413.49	411.11	411.79	412.13	414.84
Y 32.0	412.31	412.70	414.31	414.10	413.98	411.43	411.86	408.55	406.20	406.86	407.21	409.93
Y 33.0	407.14	407.74	409.37	409.16	409.02	406.48	406.69	403.36	400.90	401.58	401.94	404.80
Y 34.0	401.98	402.51	404.19	403.98	403.83	401.17	401.52	397.97	395.60	396.15	396.68	399.47
Y 35.0	396.52	397.09	398.80	398.58	398.45	395.72	396.03	392.64	390.04	390.75	391.15	394.17
Y 36.0	390.93	391.71	393.48	393.24	393.12	390.31	390.58	386.97	384.32	385.06	385.46	388.57
Y 37.0	385.40	386.03	387.84	387.57	387.46	384.59	384.85	381.40	378.69	379.41	379.83	383.01
Y 38.0	379.54	380.23	382.09	381.78	381.67	378.78	379.01	375.50	372.75	373.43	373.90	377.14
Y 39.0	373.73	374.49	376.36	376.08	375.93	372.99	373.20	369.47	366.65	367.33	367.81	371.14
Y 40.0	367.63	368.44	370.32	370.02	369.86	366.91	367.05	363.54	360.64	361.31	361.79	365.21
Y 41.0	361.40	362.44	364.39	364.04	363.91	360.92	360.84	357.29	354.33	354.99	355.49	358.99
Y 42.0	355.28	356.13	358.12	357.75	357.64	354.62	354.71	350.92	348.10	348.56	349.27	352.68
Y 43.0	348.84	349.75	351.74	351.34	351.26	348.22	348.27	344.64	341.55	342.20	342.73	346.42
Y 44.0	342.28	343.44	345.45	345.02	344.95	341.90	341.90	338.05	334.89	335.50	336.09	339.84

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Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 45.0	335.79	336.83	338.79	338.38	338.30	335.23	335.22	331.55	328.32	328.91	329.53	333.36
Y 46.0	329.00	330.07	332.04	331.59	331.55	328.47	328.41	324.75	321.42	322.00	322.62	326.59
Y 47.0	322.32	323.43	325.44	324.93	324.92	321.83	321.76	317.85	314.45	314.98	315.65	319.69
Y 48.0	315.30	316.44	318.48	317.92	317.97	314.86	314.75	311.06	307.56	308.08	308.77	312.92
Y 49.0	308.14	309.57	311.64	311.04	311.10	308.02	307.66	303.95	300.37	300.86	301.59	305.82
Y 50.0	301.12	302.35	304.49	303.85	303.93	300.88	300.74	296.76	293.34	293.52	294.57	298.64
Y 51.0	293.70	295.03	297.22	296.55	296.66	293.63	293.42	289.69	285.97	286.34	287.19	291.57
Y 52.0	286.20	287.83	290.09	289.38	289.52	286.48	286.20	282.32	278.49	278.84	279.73	284.20
Y 53.0	278.82	280.28	282.70	281.89	282.07	278.99	278.62	275.05	271.23	271.49	272.42	276.94
Y 54.0	271.07	272.65	275.18	274.32	274.55	271.39	270.87	267.43	263.60	263.82	264.80	269.32
Y 55.0	263.44	265.17	267.80	266.90	267.16	263.92	263.30	259.71	255.91	256.07	257.11	261.60
Y 56.0	255.49	257.38	260.13	259.18	259.47	256.16	255.37	252.15	248.42	248.49	249.59	254.04
Y 57.0	247.42	249.76	252.60	251.61	251.91	248.57	247.35	244.28	240.59	240.59	241.75	246.14
Y 58.0	239.52	241.80	244.77	243.72	244.08	240.61	239.46	236.35	232.94	232.65	234.09	238.13
Y 59.0	231.32	233.75	236.91	235.76	236.20	232.59	231.26	228.58	225.02	224.92	226.14	230.29
Y 60.0	223.00	225.90	229.21	227.97	228.49	224.76	223.22	220.46	217.00	216.86	218.12	222.12
Y 61.0	214.87	217.73	221.16	219.90	220.47	216.60	214.86	212.53	209.22	208.99	210.30	214.12
Y 62.0	206.42	209.50	213.07	211.77	212.40	208.42	206.45	204.25	201.16	200.84	202.23	205.79
Y 63.0	198.15	201.46	205.15	203.85	204.53	200.39	198.21	195.91	193.01	192.66	194.08	197.40
Y 64.0	189.61	193.09	196.92	195.63	196.36	192.04	189.68	187.83	185.06	184.71	186.11	189.27
Y 65.0	181.00	184.65	188.99	187.40	188.45	183.63	181.11	179.40	176.85	176.49	177.88	180.79
Y 66.0	172.61	176.45	180.71	179.40	180.18	175.46	172.71	170.93	168.81	168.23	169.82	172.29
Y 67.0	163.91	167.94	172.40	171.11	171.88	166.99	164.03	162.72	160.53	160.26	161.51	164.03
Y 68.0	155.19	159.70	164.35	163.09	163.83	158.76	155.60	154.20	152.27	152.02	153.21	155.47
Y 69.0	146.67	151.15	155.99	154.81	155.49	150.25	146.86	145.94	144.24	144.05	145.16	147.15
Y 70.0	137.91	142.59	147.65	146.52	147.15	141.72	138.10	137.45	135.98	135.88	136.86	138.62
Y 71.0	129.43	134.31	139.64	138.52	139.15	133.46	129.65	128.94	127.75	127.74	128.62	130.05
Y 72.0	120.67	125.75	131.34	130.29	130.85	124.94	120.88	120.67	119.80	119.86	120.64	121.75
Y 73.0	111.89	117.20	123.32	122.09	122.85	116.43	112.43	112.11	111.67	111.77	112.47	113.14
Y 74.0	103.42	108.94	115.09	114.23	114.65	108.20	103.76	103.58	103.88	103.74	104.63	104.57
Y 75.0	94.69	100.44	106.88	106.17	106.45	99.74	95.06	95.36	95.84	96.05	96.57	96.31
Y 76.0	86.00	92.21	99.01	98.43	98.58	91.56	86.64	86.95	87.89	88.24	88.58	87.85
Y 77.0	77.59	83.75	91.00	90.50	90.58	83.13	77.97	78.80	80.30	80.78	80.94	79.68
Y 78.0	68.93	75.35	83.08	82.70	82.67	74.75	69.30	70.46	72.53	73.17	73.16	71.29
Y 79.0	60.61	67.30	75.49	75.26	75.10	66.72	61.01	62.22	64.90	65.72	65.51	63.06
Y 80.0	52.15	59.13	67.80	67.72	67.42	58.57	52.54	54.42	57.68	58.65	58.27	55.25
Y 81.0	43.76	51.07	60.47	60.32	60.09	50.57	44.44	46.56	50.39	51.49	50.96	47.37
Y 82.0	35.81	43.43	53.11	53.27	52.73	43.00	36.18	38.92	43.53	44.54	44.11	39.74
Y 83.0	27.76	35.81	46.03	46.18	45.64	35.49	28.11	31.86	36.80	38.00	37.36	32.71
Y 84.0	19.88	28.84	39.45	39.48	39.02	28.52	20.43	24.95	30.38	31.40	30.90	25.80
Y 85.0	13.13	22.39	32.89	32.78	32.46	21.97	13.32	19.00	24.35	25.15	24.84	19.81
Y 86.0	9.16	17.49	26.52	26.26	26.09	16.89	9.08	14.49	18.33	18.88	18.77	15.17
Y 87.0	7.01	13.46	20.51	20.20	20.07	12.85	6.94	10.56	12.45	12.84	12.87	11.19
Y 88.0	4.88	9.42	14.52	14.11	14.08	8.82	4.82	6.85	6.96	7.26	7.35	7.44
Y 89.0	2.64	5.39	8.91	8.36	8.52	4.82	2.67	3.03	2.02	2.18	2.18	3.52

IES Indoor Report
Photometric Filename:18W.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 90.0	0.93	1.58	3.42	1.91	3.10	1.27	0.90	1.03	0.99	1.01	0.99	1.04
Y 91.0	0.91	0.98	1.05	0.94	1.05	0.98	0.92	1.02	1.01	1.03	1.01	1.02
Y 92.0	0.94	0.99	1.04	0.95	1.06	1.00	0.95	1.04	1.05	1.06	1.03	1.05
Y 93.0	0.97	1.01	1.06	0.98	1.07	1.01	0.99	1.05	1.06	1.10	1.07	1.05
Y 94.0	1.03	1.01	1.07	1.00	1.09	1.05	1.03	1.07	1.09	1.13	1.10	1.08
Y 95.0	1.09	1.05	1.08	1.04	1.11	1.12	1.08	1.11	1.13	1.17	1.13	1.11
Y 96.0	1.14	1.09	1.11	1.09	1.14	1.17	1.12	1.14	1.17	1.21	1.16	1.15
Y 97.0	1.18	1.13	1.14	1.11	1.17	1.25	1.16	1.19	1.20	1.24	1.21	1.19
Y 98.0	1.24	1.18	1.19	1.16	1.21	1.28	1.21	1.22	1.24	1.29	1.25	1.24
Y 99.0	1.27	1.24	1.23	1.19	1.26	1.34	1.25	1.28	1.29	1.33	1.30	1.28
Y 100.0	1.33	1.28	1.28	1.23	1.30	1.41	1.30	1.32	1.33	1.38	1.34	1.32
Y 101.0	1.38	1.34	1.33	1.27	1.36	1.43	1.36	1.37	1.38	1.43	1.38	1.37
Y 102.0	1.44	1.40	1.38	1.32	1.40	1.47	1.41	1.41	1.43	1.47	1.43	1.42
Y 103.0	1.48	1.46	1.43	1.38	1.46	1.52	1.47	1.47	1.48	1.52	1.48	1.46
Y 104.0	1.54	1.51	1.49	1.41	1.53	1.57	1.53	1.51	1.52	1.57	1.53	1.52
Y 105.0	1.61	1.58	1.54	1.45	1.59	1.64	1.59	1.57	1.57	1.62	1.59	1.57
Y 106.0	1.65	1.65	1.61	1.51	1.64	1.70	1.65	1.62	1.63	1.68	1.63	1.63
Y 107.0	1.72	1.71	1.67	1.56	1.71	1.75	1.71	1.67	1.68	1.73	1.69	1.66
Y 108.0	1.78	1.79	1.74	1.61	1.77	1.78	1.76	1.74	1.73	1.79	1.75	1.73
Y 109.0	1.82	1.86	1.79	1.66	1.84	1.85	1.82	1.79	1.78	1.85	1.79	1.78
Y 110.0	1.89	1.92	1.86	1.72	1.91	1.91	1.88	1.84	1.84	1.90	1.84	1.84
Y 111.0	1.93	1.99	1.93	1.77	1.97	1.97	1.93	1.89	1.90	1.95	1.90	1.89
Y 112.0	1.99	2.05	2.00	1.83	2.04	2.01	2.00	1.96	1.95	2.01	1.96	1.95
Y 113.0	2.04	2.13	2.07	1.90	2.11	2.05	2.05	2.01	2.02	2.06	2.01	2.01
Y 114.0	2.09	2.19	2.13	2.02	2.17	2.11	2.12	2.07	2.07	2.12	2.08	2.07
Y 115.0	2.13	2.26	2.21	2.10	2.25	2.16	2.18	2.12	2.13	2.16	2.13	2.13
Y 116.0	2.20	2.33	2.28	2.18	2.30	2.20	2.24	2.18	2.18	2.24	2.19	2.19
Y 117.0	2.25	2.39	2.35	2.33	2.37	2.25	2.30	2.25	2.24	2.30	2.24	2.24
Y 118.0	2.31	2.45	2.42	2.39	2.43	2.31	2.36	2.31	2.30	2.35	2.31	2.29
Y 119.0	2.36	2.52	2.49	2.46	2.48	2.36	2.42	2.36	2.35	2.41	2.35	2.35
Y 120.0	2.42	2.58	2.56	2.53	2.55	2.41	2.48	2.42	2.41	2.47	2.42	2.41
Y 121.0	2.48	2.64	2.63	2.59	2.62	2.47	2.53	2.47	2.47	2.52	2.48	2.47
Y 122.0	2.54	2.70	2.70	2.65	2.68	2.53	2.61	2.54	2.53	2.57	2.54	2.54
Y 123.0	2.60	2.76	2.77	2.72	2.75	2.58	2.66	2.60	2.59	2.63	2.60	2.59
Y 124.0	2.66	2.82	2.84	2.79	2.82	2.64	2.72	2.66	2.66	2.69	2.66	2.65
Y 125.0	2.72	2.88	2.90	2.85	2.87	2.70	2.78	2.71	2.72	2.76	2.71	2.71
Y 126.0	2.77	2.93	2.97	2.91	2.93	2.76	2.84	2.78	2.77	2.81	2.77	2.77
Y 127.0	2.83	2.98	3.04	2.97	2.99	2.81	2.90	2.83	2.83	2.87	2.83	2.82
Y 128.0	2.88	3.03	3.10	3.04	3.05	2.88	2.95	2.89	2.89	2.93	2.88	2.88
Y 129.0	2.94	3.08	3.17	3.09	3.11	2.93	3.01	2.94	2.94	2.98	2.94	2.94
Y 130.0	3.01	3.13	3.23	3.16	3.16	2.99	3.07	2.99	3.01	3.04	2.99	2.99
Y 131.0	3.06	3.18	3.29	3.21	3.21	3.05	3.12	3.05	3.05	3.09	3.05	3.04
Y 132.0	3.12	3.23	3.34	3.27	3.26	3.10	3.18	3.10	3.12	3.15	3.10	3.10
Y 133.0	3.16	3.28	3.39	3.32	3.30	3.16	3.24	3.16	3.16	3.21	3.15	3.15
Y 134.0	3.22	3.32	3.43	3.38	3.33	3.22	3.30	3.21	3.23	3.26	3.22	3.20

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Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 135.0	3.28	3.37	3.47	3.42	3.36	3.27	3.35	3.27	3.28	3.31	3.28	3.25
Y 136.0	3.34	3.41	3.51	3.47	3.38	3.32	3.40	3.32	3.33	3.37	3.32	3.31
Y 137.0	3.39	3.44	3.55	3.53	3.41	3.38	3.46	3.38	3.38	3.41	3.38	3.37
Y 138.0	3.44	3.47	3.60	3.57	3.45	3.42	3.52	3.42	3.44	3.47	3.42	3.42
Y 139.0	3.49	3.53	3.63	3.61	3.50	3.47	3.58	3.47	3.47	3.52	3.47	3.47
Y 140.0	3.55	3.59	3.66	3.66	3.55	3.53	3.62	3.53	3.53	3.56	3.53	3.51
Y 141.0	3.60	3.63	3.70	3.70	3.61	3.59	3.68	3.59	3.58	3.62	3.57	3.57
Y 142.0	3.65	3.68	3.74	3.74	3.66	3.64	3.72	3.65	3.63	3.67	3.61	3.62
Y 143.0	3.69	3.73	3.78	3.77	3.71	3.69	3.78	3.70	3.67	3.71	3.66	3.67
Y 144.0	3.74	3.79	3.82	3.81	3.76	3.74	3.83	3.76	3.73	3.76	3.70	3.73
Y 145.0	3.79	3.82	3.83	3.83	3.81	3.80	3.87	3.80	3.77	3.79	3.75	3.78
Y 146.0	3.84	3.87	3.85	3.83	3.85	3.84	3.92	3.86	3.81	3.83	3.79	3.84
Y 147.0	3.89	3.91	3.89	3.88	3.90	3.90	3.97	3.90	3.86	3.88	3.83	3.88
Y 148.0	3.93	3.96	3.93	3.92	3.95	3.94	4.01	3.94	3.90	3.91	3.88	3.93
Y 149.0	3.98	4.01	3.99	3.98	4.00	3.98	4.06	3.99	3.94	3.95	3.92	3.98
Y 150.0	4.02	4.05	4.02	4.01	4.04	4.03	4.10	4.03	3.99	3.99	3.97	4.02
Y 151.0	4.07	4.09	4.07	4.05	4.09	4.07	4.15	4.07	4.03	4.03	4.01	4.07
Y 152.0	4.12	4.13	4.12	4.09	4.13	4.11	4.20	4.11	4.07	4.08	4.04	4.10
Y 153.0	4.17	4.16	4.15	4.14	4.17	4.16	4.24	4.16	4.12	4.11	4.09	4.15
Y 154.0	4.21	4.22	4.20	4.18	4.22	4.20	4.29	4.20	4.17	4.16	4.13	4.20
Y 155.0	4.25	4.25	4.24	4.22	4.26	4.24	4.33	4.25	4.22	4.19	4.18	4.23
Y 156.0	4.30	4.29	4.28	4.26	4.29	4.30	4.37	4.29	4.25	4.23	4.23	4.28
Y 157.0	4.35	4.32	4.32	4.30	4.32	4.34	4.40	4.32	4.29	4.26	4.27	4.32
Y 158.0	4.38	4.36	4.37	4.35	4.36	4.37	4.46	4.36	4.33	4.30	4.31	4.36
Y 159.0	4.42	4.40	4.41	4.38	4.39	4.41	4.50	4.40	4.37	4.35	4.35	4.39
Y 160.0	4.47	4.45	4.45	4.42	4.43	4.45	4.53	4.44	4.41	4.39	4.37	4.43
Y 161.0	4.50	4.49	4.49	4.46	4.46	4.49	4.57	4.48	4.45	4.43	4.41	4.48
Y 162.0	4.53	4.53	4.51	4.50	4.50	4.53	4.61	4.52	4.49	4.47	4.44	4.51
Y 163.0	4.58	4.58	4.55	4.54	4.53	4.56	4.65	4.55	4.53	4.51	4.47	4.53
Y 164.0	4.61	4.61	4.59	4.58	4.56	4.59	4.69	4.60	4.56	4.54	4.49	4.57
Y 165.0	4.66	4.64	4.62	4.61	4.59	4.62	4.73	4.63	4.59	4.57	4.53	4.59
Y 166.0	4.69	4.68	4.66	4.65	4.63	4.64	4.76	4.65	4.63	4.62	4.56	4.63
Y 167.0	4.74	4.72	4.69	4.68	4.66	4.67	4.79	4.69	4.66	4.65	4.59	4.65
Y 168.0	4.77	4.75	4.72	4.72	4.70	4.70	4.81	4.71	4.70	4.69	4.62	4.66
Y 169.0	4.80	4.78	4.75	4.76	4.72	4.71	4.84	4.74	4.72	4.73	4.65	4.68
Y 170.0	4.83	4.81	4.77	4.78	4.76	4.74	4.86	4.76	4.74	4.75	4.68	4.70
Y 171.0	4.87	4.84	4.79	4.82	4.79	4.76	4.88	4.78	4.77	4.79	4.72	4.73
Y 172.0	4.89	4.87	4.82	4.85	4.81	4.78	4.91	4.80	4.80	4.80	4.74	4.74
Y 173.0	4.92	4.88	4.84	4.88	4.85	4.80	4.93	4.81	4.81	4.83	4.76	4.77
Y 174.0	4.94	4.91	4.86	4.91	4.87	4.81	4.95	4.82	4.84	4.86	4.78	4.79
Y 175.0	4.95	4.93	4.89	4.92	4.89	4.84	4.97	4.85	4.84	4.88	4.80	4.80
Y 176.0	4.98	4.93	4.89	4.94	4.92	4.86	4.98	4.85	4.87	4.90	4.82	4.81
Y 177.0	4.98	4.95	4.91	4.95	4.92	4.86	5.01	4.88	4.88	4.92	4.85	4.84
Y 178.0	5.00	4.95	4.92	4.97	4.94	4.86	5.03	4.91	4.93	4.98	4.89	4.86
Y 179.0	5.00	4.95	4.93	4.98	4.96	4.86	5.04	4.92	4.95	4.99	4.93	4.88

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Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 180.0	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97

