

IES Indoor Report
Photometric Filename:191929-2 T8 Type A+B 50K Ra95.IES

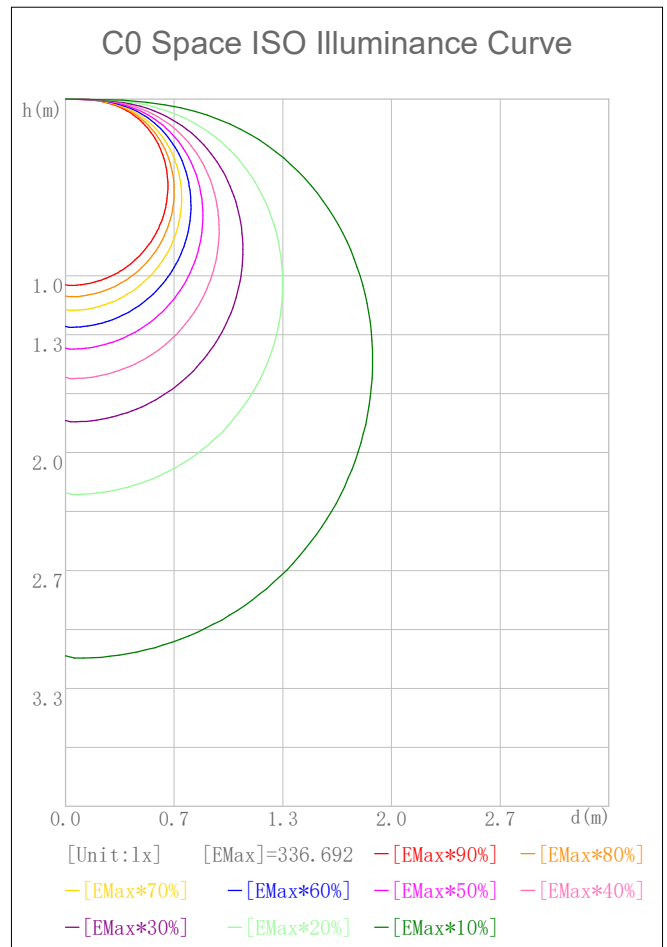
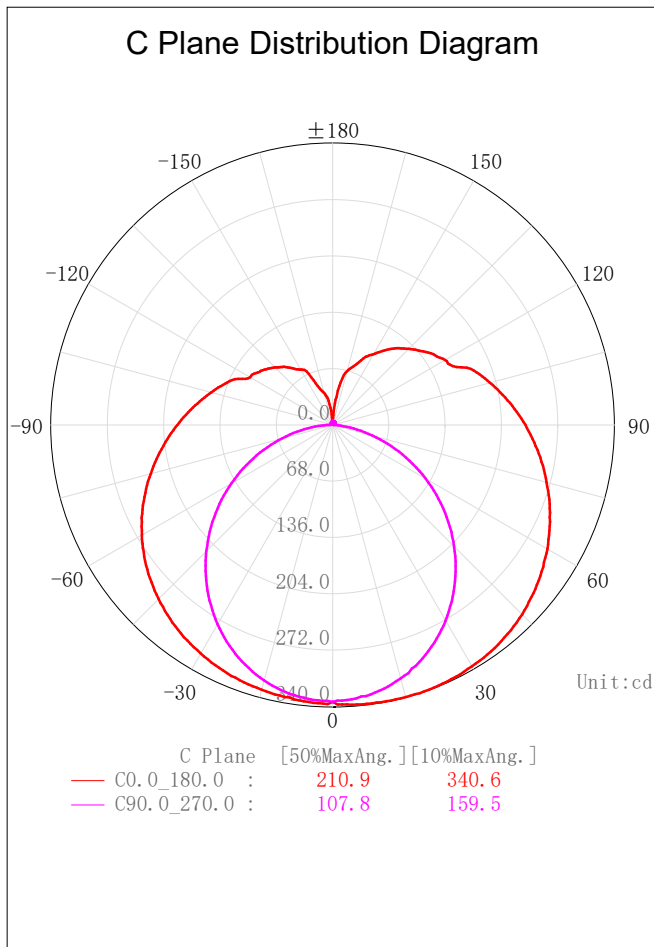
Indoor Luminaire Photometric Data

Description Information

Luminary Name:T8 TYPE A+B LED TUBE Flicker Free		Lum. Catalog:0101150868N	Test ID: 191929-2 HAN
Lamp Name:		Lamp Catalog:	Test Date: 2020/04/16
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000
Test Lab:		Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H):0.027m*1.200m*0.027m		Lum. Area (m2):0.065	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25	Humidity(%): 60.0

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1887.000	Luminary Flux(lm): 1887.158	Field Angle(10%Imax): 340.6(°)	
Rated Power(W):	Luminary Efficiency: 100.01%	Down Lumens&Percent: 1372.478lm 72.73%	
Rated Voltage(V):	Luminary EER(lm/W): 103.123	Up Lumens&Percent: 514.681lm 27.27%	
Tested Power(W): 18.300	Max. Candela(cd): 340.009	S/MH: C0_a180=1.479 C90_270=1.225	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=18.0	CIE Type: General Diffuse	
Tested Electrics(V, A, pf):120.1, 0.157, 0.971	Beam Angle(50%Imax): 210.9(°)	ErP Φuse(120°): 843.338lm	
Lamp Size(W*L*H):0.027m*1.200m*0.027m	Left=-96.8°, Right=114.1°	IRF(%): 94.480	



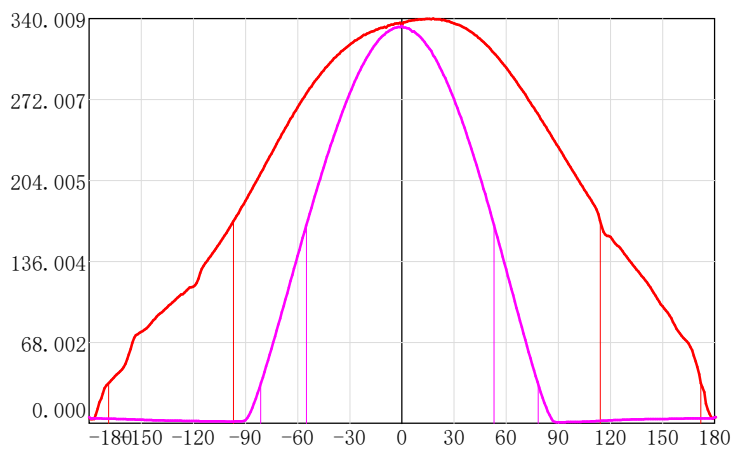
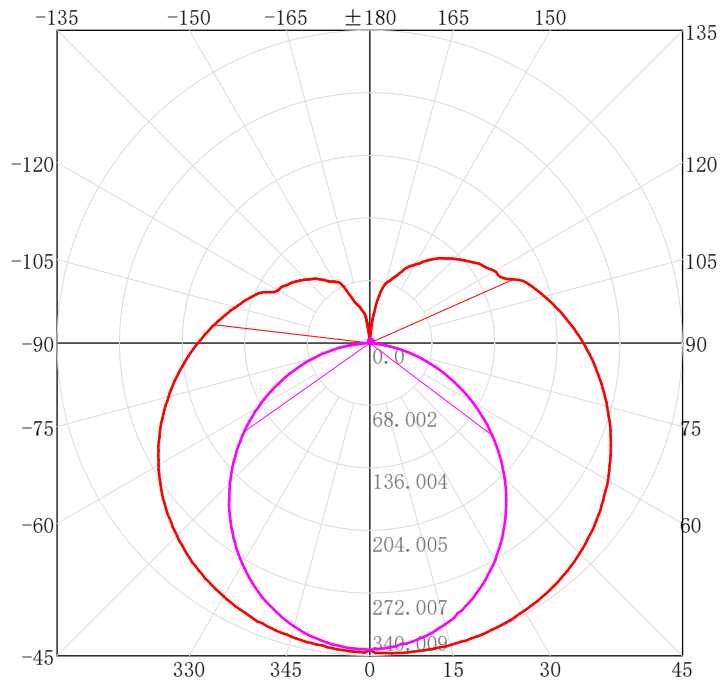
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2D Plane Light Intensity Distribution Curve

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

C Plane Distribution Diagram



—	C Plane	[50%MaxAng.]	[10%MaxAng.] t:cd
—	C0.0_180.0 :	210.9	340.6
	C90.0_270.0 :	107.8	159.5

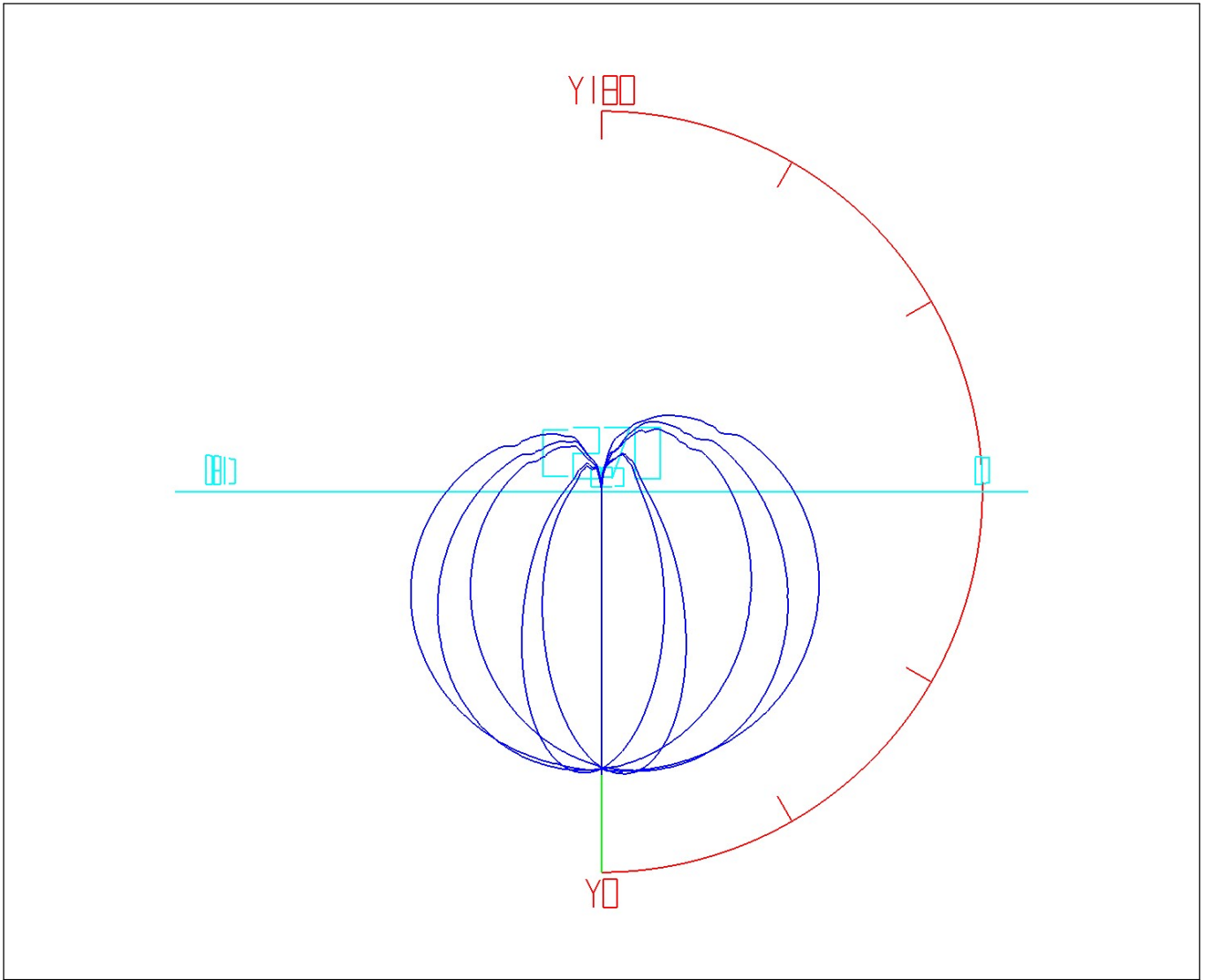
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3D Light Intensity Distribution Modal

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

3D Light Intensity Distribution Modal



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

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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	0.32	0.32	0.02	0.02	47.0-48.0	20.50	20.50	1.09	1.09
1.0-2.0	0.96	1.28	0.05	0.07	48.0-49.0	20.58	41.08	1.09	2.18
2.0-3.0	1.59	2.87	0.08	0.15	49.0-50.0	20.63	61.71	1.09	3.27
3.0-4.0	2.23	5.10	0.12	0.27	50.0-51.0	20.67	82.38	1.10	4.37
4.0-5.0	2.86	7.96	0.15	0.42	51.0-52.0	20.69	103.07	1.10	5.46
5.0-6.0	3.49	11.46	0.19	0.61	52.0-53.0	20.69	123.76	1.10	6.56
6.0-7.0	4.12	15.58	0.22	0.83	53.0-54.0	20.69	144.45	1.10	7.65
7.0-8.0	4.74	20.32	0.25	1.08	54.0-55.0	20.67	165.11	1.10	8.75
8.0-9.0	5.36	25.68	0.28	1.36	55.0-56.0	20.62	185.73	1.09	9.84
9.0-10.0	5.98	31.66	0.32	1.68	56.0-57.0	20.56	206.29	1.09	10.93
10.0-11.0	6.58	38.24	0.35	2.03	57.0-58.0	20.50	226.79	1.09	12.02
11.0-12.0	7.18	45.43	0.38	2.41	58.0-59.0	20.41	247.21	1.08	13.10
12.0-13.0	7.78	53.20	0.41	2.82	59.0-60.0	20.32	267.52	1.08	14.18
13.0-14.0	8.36	61.57	0.44	3.26	60.0-61.0	20.20	287.72	1.07	15.25
14.0-15.0	8.94	70.51	0.47	3.74	61.0-62.0	20.07	307.80	1.06	16.31
15.0-16.0	9.51	80.02	0.50	4.24	62.0-63.0	19.94	327.74	1.06	17.37
16.0-17.0	10.07	90.09	0.53	4.77	63.0-64.0	19.79	347.52	1.05	18.42
17.0-18.0	10.62	100.71	0.56	5.34	64.0-65.0	19.63	367.15	1.04	19.46
18.0-19.0	11.16	111.87	0.59	5.93	65.0-66.0	19.46	386.61	1.03	20.49
19.0-20.0	11.69	123.56	0.62	6.55	66.0-67.0	19.28	405.89	1.02	21.51
20.0-21.0	12.21	135.77	0.65	7.19	67.0-68.0	19.09	424.98	1.01	22.52
21.0-22.0	12.71	148.48	0.67	7.87	68.0-69.0	18.89	443.87	1.00	23.52
22.0-23.0	13.20	161.68	0.70	8.57	69.0-70.0	18.68	462.55	0.99	24.51
23.0-24.0	13.68	175.36	0.73	9.29	70.0-71.0	18.46	481.01	0.98	25.49
24.0-25.0	14.15	189.51	0.75	10.04	71.0-72.0	18.24	499.25	0.97	26.46
25.0-26.0	14.60	204.11	0.77	10.82	72.0-73.0	18.01	517.26	0.95	27.41
26.0-27.0	15.04	219.14	0.80	11.61	73.0-74.0	17.77	535.03	0.94	28.35
27.0-28.0	15.46	234.60	0.82	12.43	74.0-75.0	17.52	552.55	0.93	29.28
28.0-29.0	15.87	250.47	0.84	13.27	75.0-76.0	17.28	569.83	0.92	30.20
29.0-30.0	16.26	266.74	0.86	14.14	76.0-77.0	17.03	586.86	0.90	31.10
30.0-31.0	16.64	283.38	0.88	15.02	77.0-78.0	16.77	603.63	0.89	31.99
31.0-32.0	17.00	300.38	0.90	15.92	78.0-79.0	16.51	620.14	0.88	32.86
32.0-33.0	17.35	317.73	0.92	16.84	79.0-80.0	16.25	636.40	0.86	33.73
33.0-34.0	17.68	335.41	0.94	17.77	80.0-81.0	15.99	652.39	0.85	34.57
34.0-35.0	17.99	353.40	0.95	18.73	81.0-82.0	15.73	668.12	0.83	35.41
35.0-36.0	18.29	371.69	0.97	19.70	82.0-83.0	15.47	683.59	0.82	36.23
36.0-37.0	18.57	390.25	0.98	20.68	83.0-84.0	15.21	698.80	0.81	37.03
37.0-38.0	18.83	409.08	1.00	21.68	84.0-85.0	14.95	713.76	0.79	37.83
38.0-39.0	19.08	428.17	1.01	22.69	85.0-86.0	14.70	728.46	0.78	38.60
39.0-40.0	19.31	447.47	1.02	23.71	86.0-87.0	14.46	742.92	0.77	39.37
40.0-41.0	19.51	466.99	1.03	24.75	87.0-88.0	14.23	757.15	0.75	40.12
41.0-42.0	19.71	486.70	1.04	25.79	88.0-89.0	14.00	771.15	0.74	40.87
42.0-43.0	19.89	506.58	1.05	26.85	89.0-90.0	13.79	784.95	0.73	41.60
43.0-44.0	20.04	526.63	1.06	27.91	90.0-91.0	13.59	798.53	0.72	42.32
44.0-45.0	20.18	546.81	1.07	28.98	91.0-92.0	13.39	811.92	0.71	43.03
45.0-46.0	20.31	567.12	1.08	30.05	92.0-93.0	13.20	825.12	0.70	43.73
46.0-47.0	20.41	587.53	1.08	31.14	93.0-94.0	13.00	838.12	0.69	44.42

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Zonal Flux Tabulation - (Cont.)

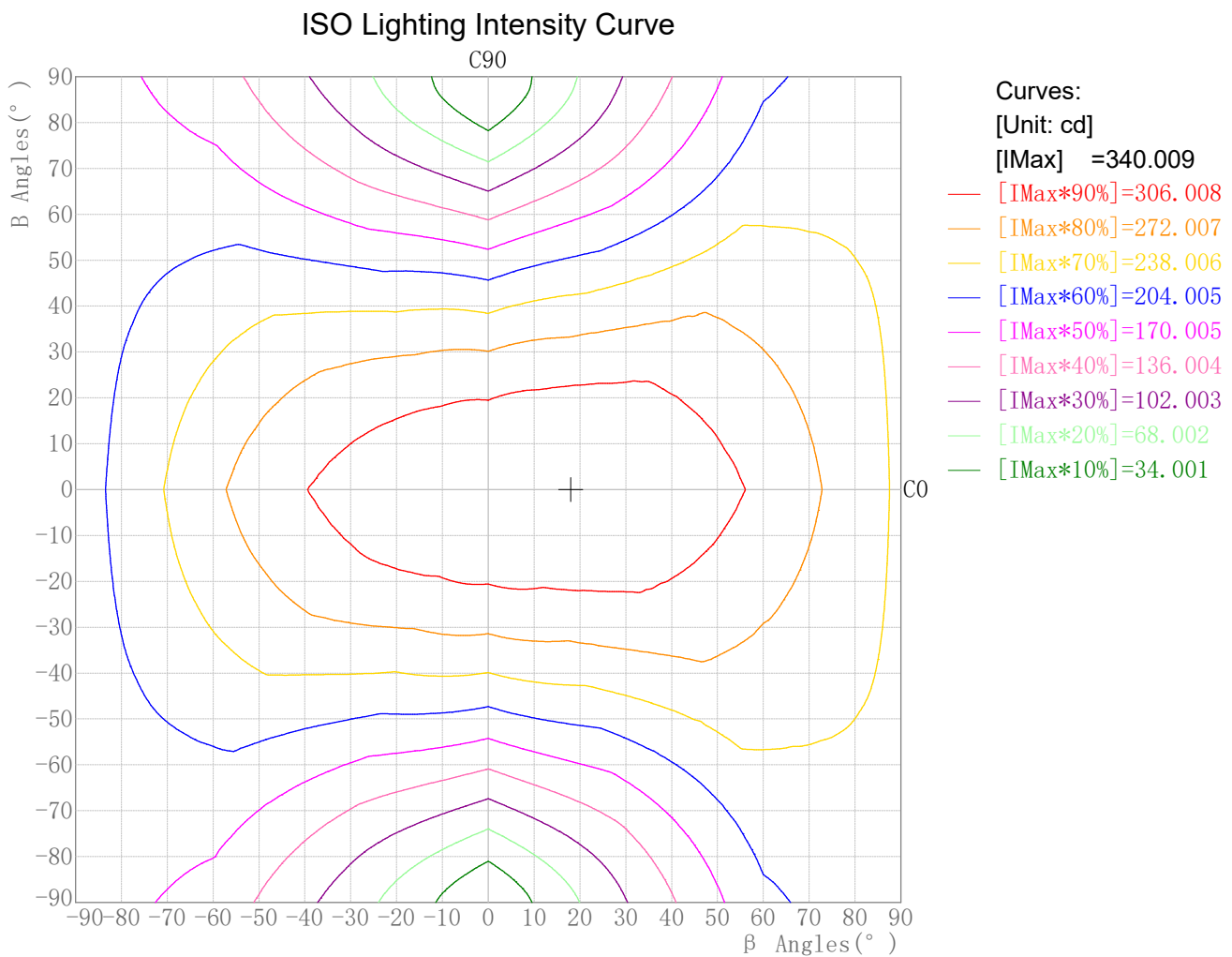
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	12.81	12.81	0.68	0.68	141.0-142.0	4.17	4.17	0.22	0.22
95.0-96.0	12.62	25.43	0.67	1.35	142.0-143.0	4.01	8.18	0.21	0.43
96.0-97.0	12.43	37.86	0.66	2.01	143.0-144.0	3.85	12.04	0.20	0.64
97.0-98.0	12.24	50.10	0.65	2.66	144.0-145.0	3.69	15.73	0.20	0.83
98.0-99.0	12.05	62.15	0.64	3.29	145.0-146.0	3.54	19.27	0.19	1.02
99.0-100.0	11.86	74.02	0.63	3.92	146.0-147.0	3.37	22.64	0.18	1.20
100.0-101.0	11.68	85.70	0.62	4.54	147.0-148.0	3.21	25.85	0.17	1.37
101.0-102.0	11.49	97.19	0.61	5.15	148.0-149.0	3.04	28.89	0.16	1.53
102.0-103.0	11.31	108.49	0.60	5.75	149.0-150.0	2.88	31.78	0.15	1.68
103.0-104.0	11.12	119.62	0.59	6.34	150.0-151.0	2.73	34.50	0.14	1.83
104.0-105.0	10.94	130.56	0.58	6.92	151.0-152.0	2.57	37.07	0.14	1.96
105.0-106.0	10.76	141.32	0.57	7.49	152.0-153.0	2.40	39.47	0.13	2.09
106.0-107.0	10.58	151.90	0.56	8.05	153.0-154.0	2.25	41.72	0.12	2.21
107.0-108.0	10.41	162.31	0.55	8.60	154.0-155.0	2.09	43.80	0.11	2.32
108.0-109.0	10.23	172.54	0.54	9.14	155.0-156.0	1.93	45.73	0.10	2.42
109.0-110.0	10.03	182.57	0.53	9.68	156.0-157.0	1.78	47.52	0.09	2.52
110.0-111.0	9.82	192.39	0.52	10.20	157.0-158.0	1.66	49.17	0.09	2.61
111.0-112.0	9.60	202.00	0.51	10.70	158.0-159.0	1.54	50.71	0.08	2.69
112.0-113.0	9.37	211.37	0.50	11.20	159.0-160.0	1.43	52.14	0.08	2.76
113.0-114.0	9.12	220.49	0.48	11.68	160.0-161.0	1.33	53.46	0.07	2.83
114.0-115.0	8.88	229.37	0.47	12.16	161.0-162.0	1.23	54.69	0.06	2.90
115.0-116.0	8.65	238.03	0.46	12.61	162.0-163.0	1.13	55.82	0.06	2.96
116.0-117.0	8.44	246.46	0.45	13.06	163.0-164.0	1.03	56.85	0.05	3.01
117.0-118.0	8.24	254.70	0.44	13.50	164.0-165.0	0.93	57.78	0.05	3.06
118.0-119.0	8.06	262.76	0.43	13.92	165.0-166.0	0.83	58.62	0.04	3.11
119.0-120.0	7.88	270.64	0.42	14.34	166.0-167.0	0.73	59.35	0.04	3.15
120.0-121.0	7.72	278.36	0.41	14.75	167.0-168.0	0.63	59.98	0.03	3.18
121.0-122.0	7.57	285.94	0.40	15.15	168.0-169.0	0.54	60.53	0.03	3.21
122.0-123.0	7.42	293.36	0.39	15.55	169.0-170.0	0.46	60.98	0.02	3.23
123.0-124.0	7.28	300.64	0.39	15.93	170.0-171.0	0.38	61.36	0.02	3.25
124.0-125.0	7.13	307.77	0.38	16.31	171.0-172.0	0.30	61.66	0.02	3.27
125.0-126.0	6.98	314.76	0.37	16.68	172.0-173.0	0.23	61.89	0.01	3.28
126.0-127.0	6.83	321.58	0.36	17.04	173.0-174.0	0.18	62.07	0.01	3.29
127.0-128.0	6.67	328.25	0.35	17.40	174.0-175.0	0.13	62.20	0.01	3.30
128.0-129.0	6.51	334.77	0.35	17.74	175.0-176.0	0.09	62.29	0.00	3.30
129.0-130.0	6.35	341.12	0.34	18.08	176.0-177.0	0.06	62.35	0.00	3.30
130.0-131.0	6.19	347.31	0.33	18.41	177.0-178.0	0.03	62.38	0.00	3.31
131.0-132.0	6.02	353.33	0.32	18.72	178.0-179.0	0.02	62.40	0.00	3.31
132.0-133.0	5.85	359.18	0.31	19.03	179.0-180.0	0.01	62.40	0.00	3.31
133.0-134.0	5.67	364.85	0.30	19.33					
134.0-135.0	5.48	370.33	0.29	19.63					
135.0-136.0	5.28	375.61	0.28	19.91					
136.0-137.0	5.08	380.69	0.27	20.17					
137.0-138.0	4.88	385.58	0.26	20.43					
138.0-139.0	4.69	390.27	0.25	20.68					
139.0-140.0	4.50	394.77	0.24	20.92					
140.0-141.0	4.33	399.10	0.23	21.15					

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16



Maximum Light Intensity(cd): 340.01

Maximum Cand.@Angle: H=18.0°,V=0.0°

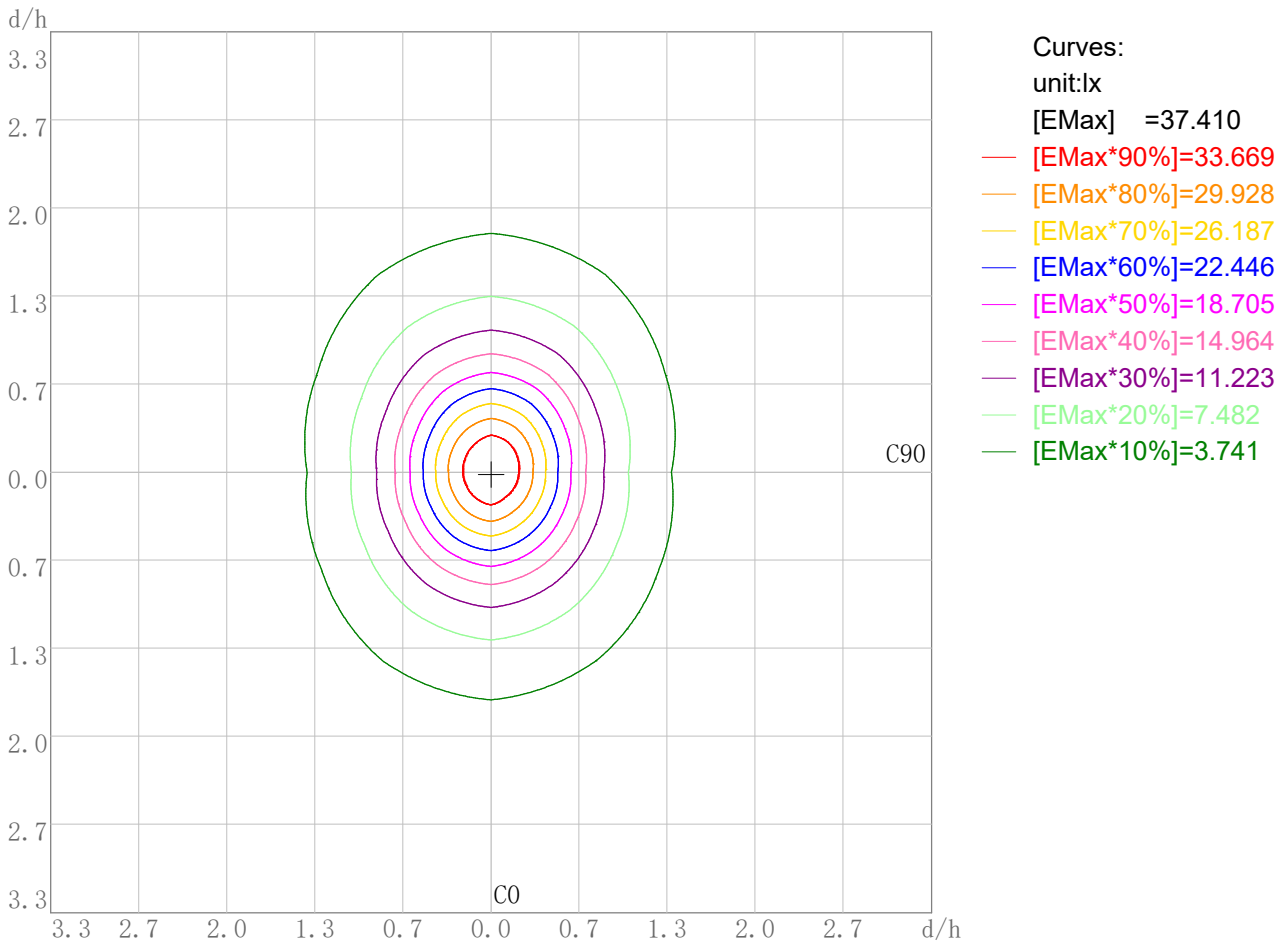
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Plane ISO-Illuminance Diagram

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 37.41
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

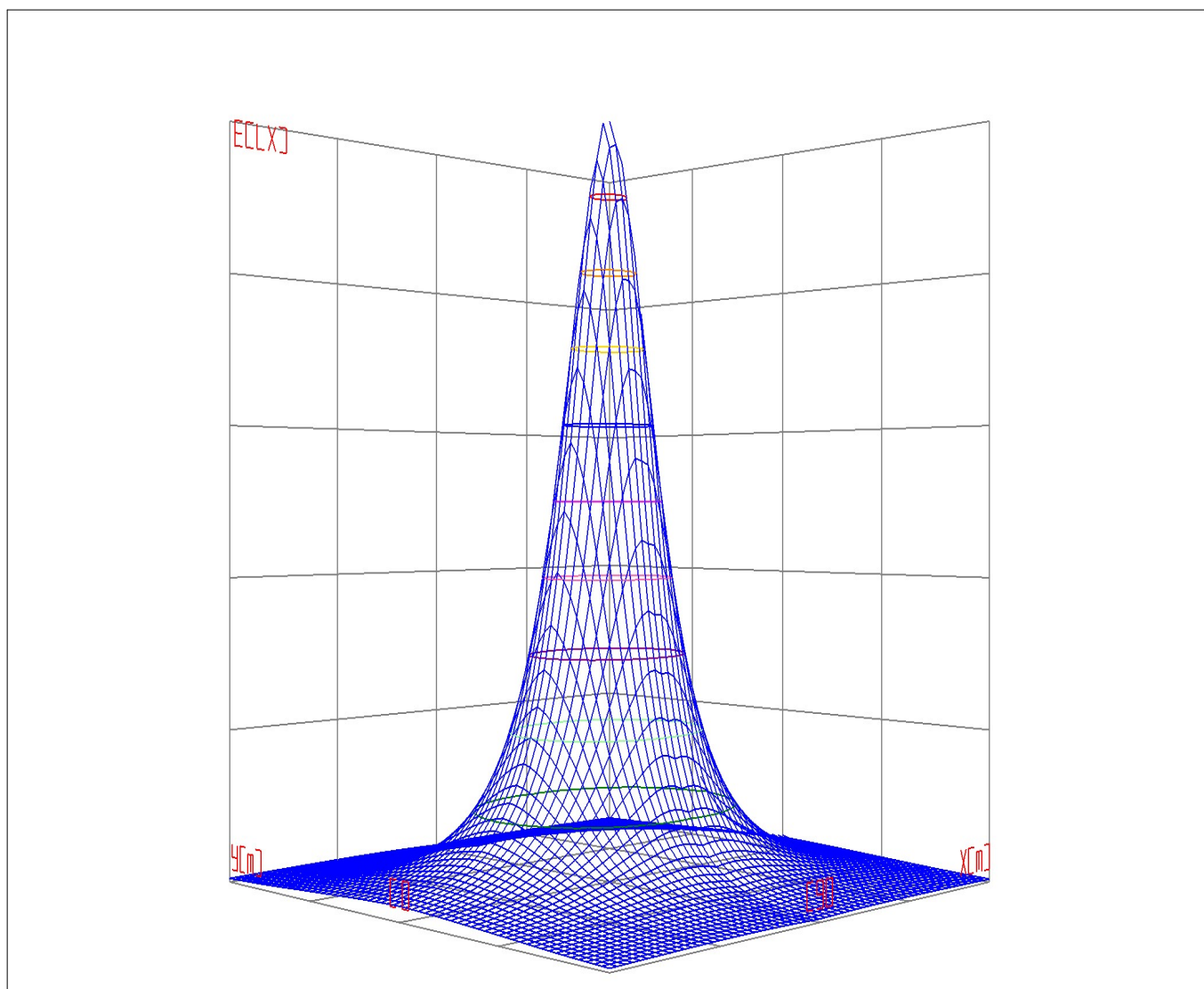
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3D Plane ISO Illuminance Diagram

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Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

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

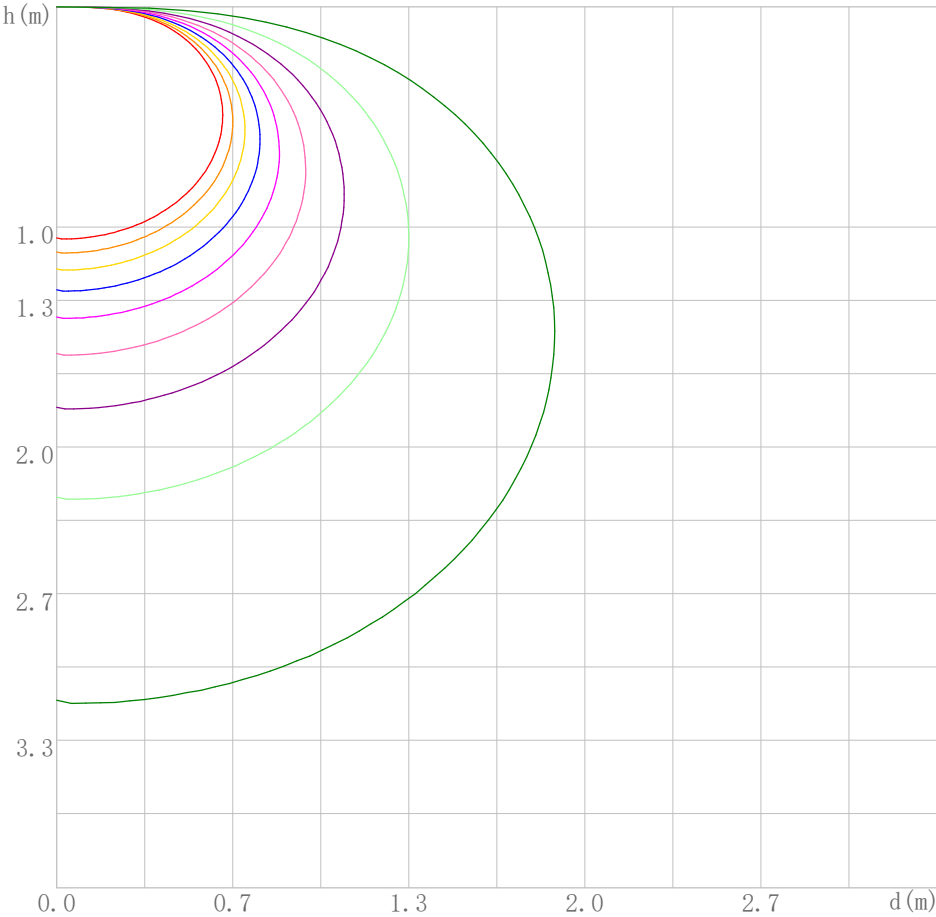
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Space ISO Illuminance Diagram

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Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

Space ISO Illuminance Curve



- Curves:
[Unit: lx]
[EMax] =336.692
- [EMax*90%]=303.023
 - [EMax*80%]=269.354
 - [EMax*70%]=235.684
 - [EMax*60%]=202.015
 - [EMax*50%]=168.346
 - [EMax*40%]=134.677
 - [EMax*30%]=101.008
 - [EMax*20%]=67.338
 - [EMax*10%]=33.669

Space Plane Maximum Illuminance and @Angle:336.69lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:340.009cd,0deg

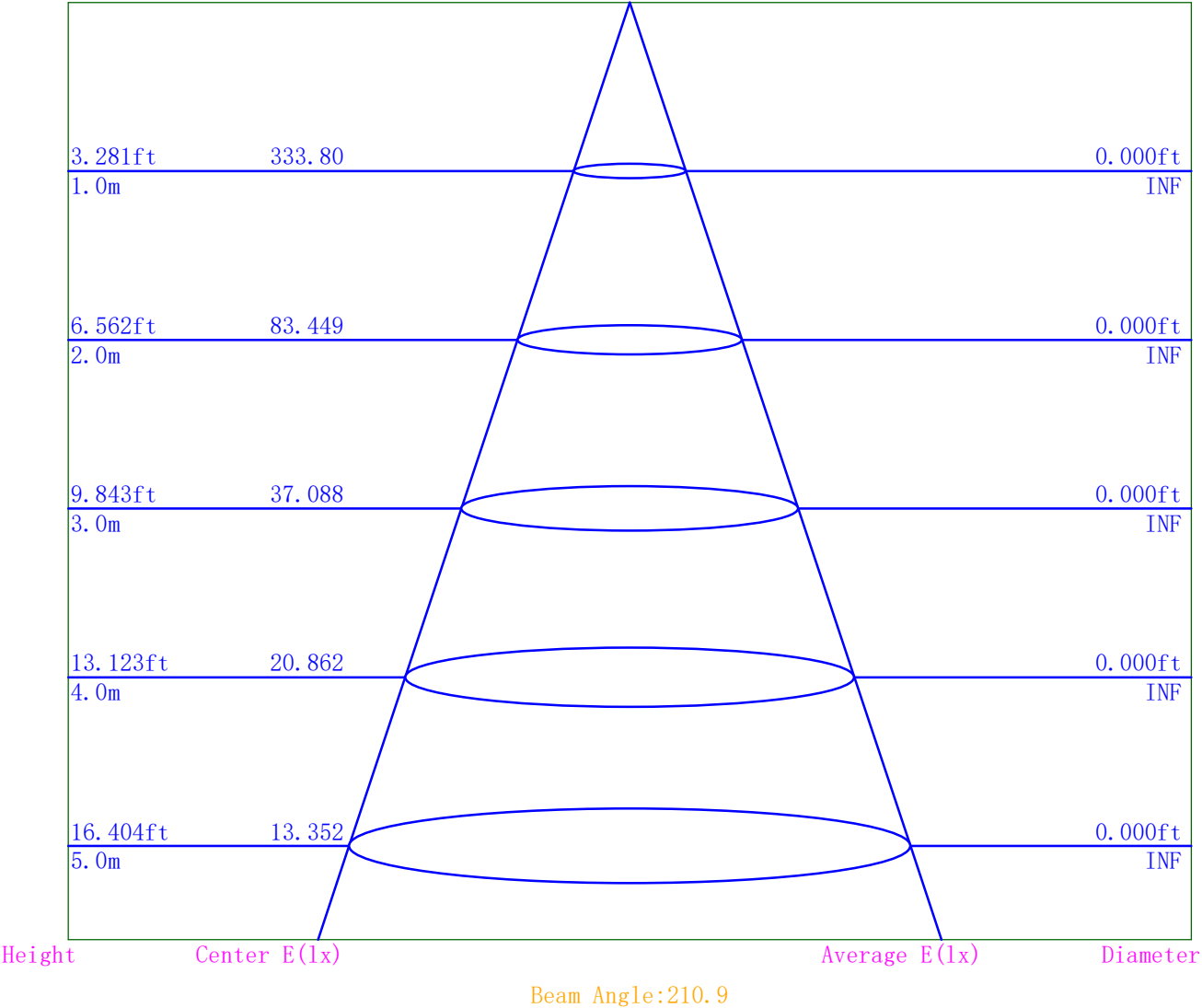
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Illuminance-Distance Diagram

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

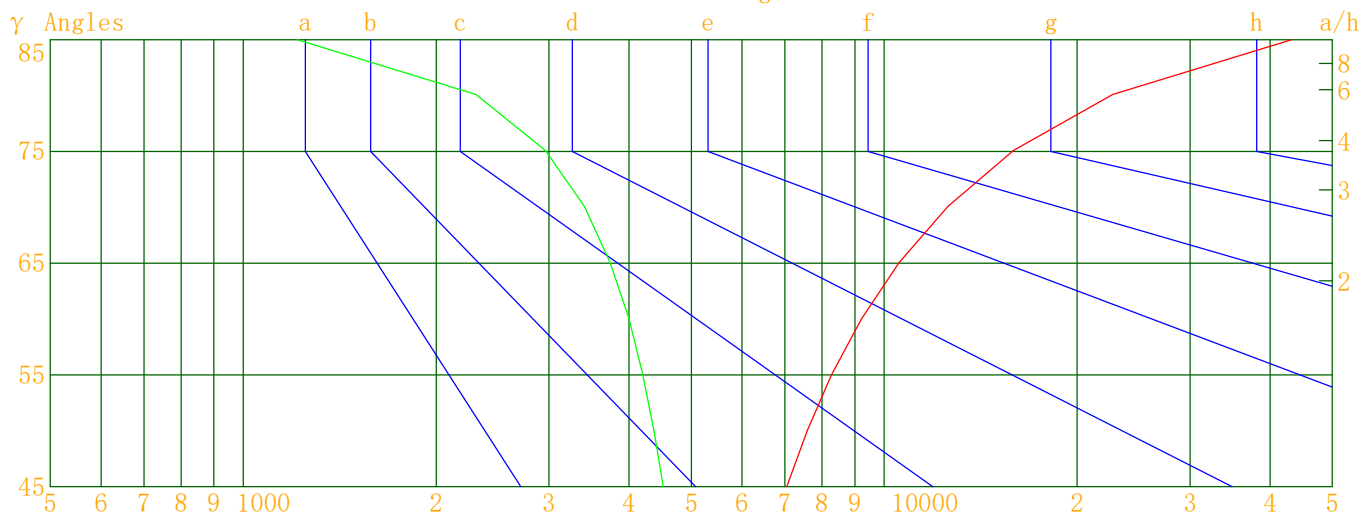
Glare Grade Table

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

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	7051	7586	8279	9224	10551	12560	15910	22724	43213
C90	4520	4374	4202	3997	3736	3407	2961	2307	1215

Luminance Limiting Curve



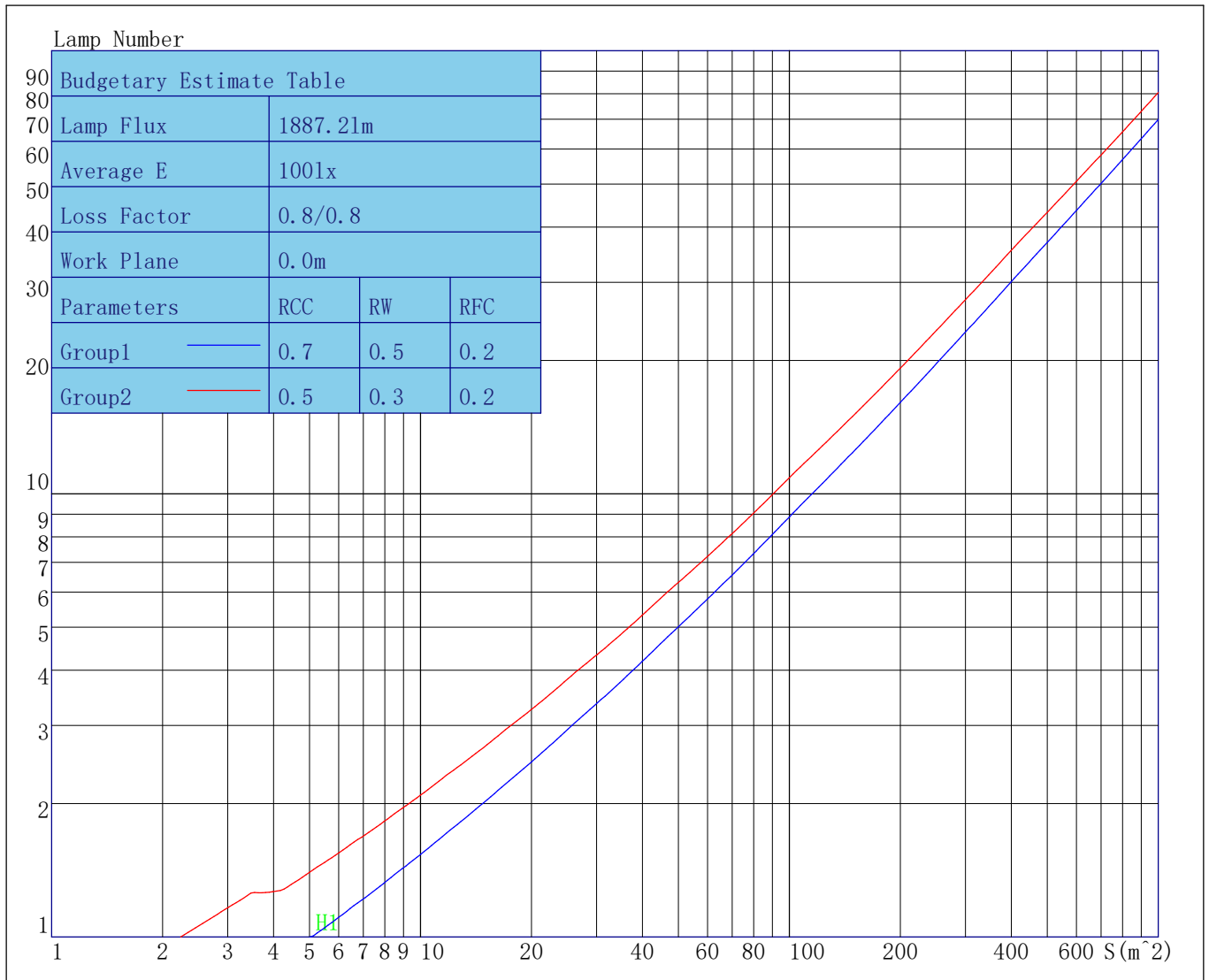
Luminous Size: Length(m)=1.200 Width(m)=0.027 Height(m)=0.027 Area(m²)=0.064800
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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Indoor Budgetary Estimate Table

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16



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

IES Indoor Report

Photometric Filename:191929-2 T8 Type A+B 50K Ra95.IES

Indoor Coefficient of Utilization Table

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	99	93	88	83	94	88	83	79	79	75	72	70	67	64	62	60	58	54
2	89	80	72	65	84	75	68	62	67	61	57	60	55	51	53	49	46	42
3	80	69	60	53	76	65	57	50	58	52	46	52	46	42	46	42	38	34
4	73	60	51	44	69	57	49	42	51	44	38	46	40	35	40	36	32	29
5	67	53	44	37	63	51	42	36	45	38	33	41	35	30	36	31	27	24
6	62	48	39	32	58	45	37	31	41	34	28	37	30	26	33	27	24	21
7	57	43	34	28	54	41	33	27	37	30	25	33	27	23	30	25	21	18
8	53	39	30	24	50	37	29	24	34	27	22	30	24	20	27	22	18	16
9	49	36	27	22	46	34	26	21	31	24	19	28	22	18	25	20	16	14
10	46	33	25	19	43	31	24	19	28	22	17	26	20	16	23	18	15	13

IES Indoor Report

Photometric Filename:191929-2 T8 Type A+B 50K Ra95.IES

Unified Glare Rating Table

Lum. Name: T8 TYPE A+B LED TUBE Flicker Free	Lum. Catalog: 0101150868N	Test ID: 191929-2 HAN
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2020/04/16

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	18.8	20.0	18.3	19.5	20.2	16.0	17.2	15.5	16.6	17.4
Y=3H	22.0	23.1	21.6	22.7	23.5	17.7	18.8	17.3	18.4	19.2
Y=4H	23.8	24.8	23.5	24.5	25.4	18.5	19.5	18.2	19.2	20.0
Y=6H	25.8	26.8	25.6	26.6	27.4	19.1	20.0	18.9	19.8	20.7
Y=8H	27.0	27.9	26.8	27.7	28.6	19.3	20.2	19.1	20.0	20.9
Y=12H	28.3	29.2	28.2	29.0	29.9	19.4	20.3	19.2	20.1	21.0
X=4H Y=2H	18.5	19.5	18.2	19.2	20.0	16.3	17.4	16.1	17.1	17.9
Y=3H	21.8	22.7	21.7	22.5	23.4	18.3	19.2	18.2	19.1	20.0
Y=4H	23.8	24.6	23.7	24.5	25.4	19.4	20.2	19.4	20.1	21.1
Y=6H	26.1	26.8	26.2	26.9	27.8	20.4	21.1	20.5	21.2	22.1
Y=8H	27.5	28.1	27.6	28.3	29.2	20.8	21.5	21.0	21.6	22.6
Y=12H	29.0	29.6	29.2	29.8	30.8	21.2	21.8	21.4	22.0	22.9
X=8H Y=4H	25.6	26.3	25.8	26.4	27.4	21.4	22.0	21.5	22.2	23.1
Y=6H	27.9	28.4	28.2	28.7	29.7	22.4	22.9	22.7	23.2	24.2
Y=8H	29.2	29.7	29.5	30.0	31.0	22.9	23.3	23.2	23.7	24.7
Y=12H	30.8	31.2	31.2	31.6	32.6	23.3	23.7	23.7	24.1	25.2
X=12H Y=4H	25.8	26.4	26.1	26.6	27.6	22.4	23.0	22.6	23.2	24.2
Y=6H	28.3	28.7	28.6	29.1	30.1	23.7	24.2	24.1	24.5	25.6
Y=8H	29.7	30.2	30.1	30.6	31.6	24.4	24.8	24.8	25.2	26.3
Variations with the objverer position at spacings										
S=1.0H	0.4/-0.5					0.4/-0.5				
S=1.5H	0.8/-1.1					0.4/-0.8				
S=2.0H	0.6/-1.1					0.4/-0.6				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	7.4					5.5				

le is calculated according to the document STD.CIE 117-1995

IES Indoor Report

Photometric Filename:191929-2 T8 Type A+B 50K Ra95.IES

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
γ 0.0	333.80	333.80	333.80	333.80	333.80	333.80	333.80	333.80	333.80	333.80	333.80	333.80
γ 1.0	336.85	334.75	334.02	332.36	331.76	331.12	336.58	334.03	333.24	332.86	332.45	331.62
γ 2.0	337.15	334.60	333.90	332.43	331.68	330.60	335.95	333.55	332.86	332.92	332.21	331.67
γ 3.0	337.45	335.03	333.68	332.02	331.62	330.29	335.92	333.30	332.82	332.35	332.01	331.93
γ 4.0	338.20	335.88	333.23	331.55	330.78	329.80	335.65	332.86	331.98	332.33	331.90	331.88
γ 5.0	338.08	335.87	332.79	330.67	330.13	329.20	335.01	332.24	331.70	331.57	331.61	332.30
γ 6.0	338.67	335.38	332.78	328.93	329.15	328.87	334.86	331.61	330.89	330.72	331.29	332.05
γ 7.0	338.72	335.54	332.30	329.20	328.36	328.06	334.24	331.59	329.96	330.18	330.87	331.37
γ 8.0	338.92	335.76	331.48	328.03	327.19	327.77	333.98	330.54	329.09	328.90	329.79	332.41
γ 9.0	338.81	335.17	331.13	326.61	326.42	326.72	332.50	330.36	327.78	328.13	329.71	332.28
γ 10.0	339.41	335.59	330.35	325.47	325.03	326.18	333.06	329.32	326.55	326.66	328.78	332.14
γ 11.0	339.14	335.12	329.01	323.98	323.71	325.39	332.29	328.19	325.53	325.59	327.69	332.06
γ 12.0	339.53	334.77	327.83	322.39	322.67	324.66	332.15	327.63	324.05	324.06	326.48	331.80
γ 13.0	339.49	334.87	326.94	320.45	320.97	323.52	331.61	326.58	322.79	322.48	325.90	331.40
γ 14.0	339.87	334.41	325.86	318.33	319.45	322.42	330.88	325.77	321.12	320.73	324.69	331.07
γ 15.0	339.82	334.12	324.31	316.61	317.69	321.88	330.52	324.47	319.48	318.78	323.05	330.43
γ 16.0	339.72	333.58	323.21	314.58	315.83	320.47	329.63	323.76	317.68	316.84	321.59	330.44
γ 17.0	339.53	333.29	321.30	312.74	313.86	319.54	329.29	322.68	315.81	314.68	320.40	329.82
γ 18.0	340.01	332.78	319.93	308.96	312.16	318.17	328.80	321.76	313.97	312.45	318.77	329.25
γ 19.0	339.49	331.91	318.15	307.36	310.02	317.06	328.05	320.89	311.99	309.96	316.86	328.71
γ 20.0	339.60	331.71	316.33	304.56	307.66	315.94	327.28	319.09	310.19	307.48	315.44	327.96
γ 21.0	339.48	331.23	314.48	301.80	305.47	314.36	326.33	318.06	307.69	304.98	313.05	327.41
γ 22.0	339.39	329.99	312.09	299.01	303.20	313.23	326.38	316.67	305.01	302.46	311.06	326.76
γ 23.0	338.78	329.39	310.20	296.00	300.95	311.85	324.98	315.47	303.26	299.77	309.18	325.85
γ 24.0	338.81	328.40	307.87	292.80	298.21	310.38	323.92	313.88	300.66	296.60	306.65	325.27
γ 25.0	338.32	327.52	305.76	290.02	295.67	308.83	323.05	312.89	297.79	293.79	304.32	323.99
γ 26.0	337.95	326.59	303.58	286.62	292.90	307.19	322.07	311.36	295.31	290.60	302.23	323.47
γ 27.0	337.98	325.68	300.89	282.95	290.01	305.73	321.55	309.34	292.94	287.38	299.74	322.22
γ 28.0	337.15	324.50	298.40	279.49	287.27	303.96	320.20	308.03	289.95	284.11	297.35	321.40
γ 29.0	336.39	323.76	295.77	276.19	284.35	302.18	319.29	306.15	287.03	280.58	294.78	320.43
γ 30.0	336.04	322.05	293.19	272.57	281.55	300.49	317.92	304.82	284.24	277.17	291.85	319.11
γ 31.0	335.50	320.81	290.44	268.53	278.27	298.96	316.76	303.35	281.32	273.51	289.41	317.63
γ 32.0	335.02	319.92	287.56	264.71	275.03	296.78	315.68	300.98	278.48	269.82	286.71	316.61
γ 33.0	334.60	318.70	284.79	260.40	272.22	294.95	314.45	299.45	275.01	266.14	283.71	315.37
γ 34.0	333.70	317.21	281.41	256.91	268.82	293.22	313.12	297.37	271.93	262.10	280.55	314.22
γ 35.0	332.99	315.42	278.64	252.64	265.37	291.10	312.25	295.24	268.83	258.25	277.68	312.68
γ 36.0	332.34	314.06	275.38	248.35	261.93	289.31	310.50	293.27	265.16	254.15	274.58	311.20
γ 37.0	331.62	312.57	272.38	243.98	258.94	287.30	309.38	291.44	261.77	250.18	271.33	309.86
γ 38.0	330.67	311.50	269.02	239.82	255.39	285.05	307.77	289.72	258.59	245.92	268.54	308.20
γ 39.0	329.42	310.28	265.90	235.23	251.68	282.95	306.72	287.33	255.31	241.70	265.00	307.08
γ 40.0	328.62	307.81	262.66	230.81	248.15	280.80	304.83	285.49	251.60	237.46	261.53	304.80
γ 41.0	327.71	306.35	258.79	225.84	244.21	278.36	303.31	283.36	248.16	233.18	258.63	303.66
γ 42.0	326.43	304.79	255.58	221.44	241.01	276.18	301.67	280.98	244.83	228.41	255.36	301.48
γ 43.0	325.52	302.81	252.07	216.62	237.21	274.06	299.69	279.10	241.05	224.03	251.58	300.19
γ 44.0	323.97	300.95	248.69	211.82	233.61	271.60	298.53	276.43	237.26	219.52	248.07	298.36
γ 45.0	323.07	299.47	244.96	207.11	229.52	269.17	296.46	274.20	233.65	215.10	244.54	296.44
γ 46.0	321.57	297.22	241.20	202.32	225.84	266.87	294.73	272.04	230.03	210.07	241.00	294.57

IES Indoor Report

Photometric Filename:191929-2 T8 Type A+B 50K Ra95.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
γ 47.0	320.26	295.29	237.72	197.10	222.10	264.51	293.07	269.57	226.10	205.44	237.43	292.88
γ 48.0	318.67	293.67	234.20	192.60	218.20	262.06	290.87	267.23	222.41	200.73	233.73	290.71
γ 49.0	317.32	291.36	230.42	187.14	214.23	259.25	289.26	264.85	218.73	196.01	230.26	288.85
γ 50.0	315.99	289.49	226.47	182.19	210.66	257.08	287.38	262.35	214.75	190.95	226.15	287.06
γ 51.0	314.42	287.26	222.86	177.03	206.38	254.71	285.41	259.38	211.18	186.19	222.57	284.79
γ 52.0	312.68	284.33	219.09	171.93	202.63	251.84	283.12	257.45	207.20	181.02	218.72	282.77
γ 53.0	311.10	282.82	215.14	166.65	198.78	249.24	281.38	254.90	203.48	176.11	214.94	280.44
γ 54.0	309.57	281.16	211.61	161.40	194.91	246.75	279.20	252.22	199.75	171.13	211.12	278.57
γ 55.0	307.70	278.85	207.79	156.18	190.92	244.12	276.90	249.84	195.79	166.24	207.38	276.23
γ 56.0	306.18	275.53	203.89	150.80	187.18	241.47	274.48	247.43	191.80	161.08	203.68	274.13
γ 57.0	303.86	274.07	200.27	145.37	183.15	239.15	272.40	244.89	188.10	156.01	199.93	271.98
γ 58.0	302.39	272.02	196.39	140.11	179.24	236.23	270.08	242.12	184.34	150.77	196.04	270.03
γ 59.0	300.66	269.63	192.77	134.83	175.44	233.56	267.88	239.51	180.38	145.55	192.35	267.51
γ 60.0	298.86	267.56	189.03	129.49	171.54	230.85	265.17	236.81	176.54	140.44	188.67	265.16
γ 61.0	296.91	264.73	185.36	124.00	167.62	227.91	262.80	234.21	172.78	135.29	184.92	263.02
γ 62.0	294.75	262.74	181.51	118.60	163.45	225.50	260.63	231.41	169.07	130.02	181.15	260.79
γ 63.0	292.70	260.58	177.99	113.18	160.20	222.39	257.88	228.73	165.52	124.81	177.40	258.77
γ 64.0	290.90	258.16	174.29	107.70	156.40	219.61	255.81	226.21	161.69	119.62	173.69	255.16
γ 65.0	288.93	255.63	170.56	102.31	152.86	216.73	253.15	223.68	157.78	114.34	170.05	254.03
γ 66.0	287.00	253.23	167.23	96.94	149.12	214.10	250.43	220.71	154.41	109.14	166.35	251.51
γ 67.0	284.50	250.85	163.76	91.52	145.45	211.43	248.15	217.93	150.87	103.90	162.98	249.29
γ 68.0	282.57	248.72	160.33	86.26	141.97	208.60	245.44	215.30	147.21	98.74	159.40	247.00
γ 69.0	280.47	246.18	156.99	80.85	138.47	205.93	242.93	212.55	143.69	93.55	156.00	244.48
γ 70.0	278.36	243.91	153.54	75.50	134.91	203.12	240.05	209.78	140.40	88.29	152.57	242.21
γ 71.0	276.33	241.28	150.40	70.27	131.61	200.27	237.47	206.79	136.87	83.15	149.21	239.90
γ 72.0	273.93	239.21	147.19	65.14	128.21	197.53	234.86	204.25	133.51	78.10	145.99	237.38
γ 73.0	271.55	236.53	144.09	59.93	125.07	194.72	232.33	201.76	130.28	73.00	142.79	235.26
γ 74.0	269.23	234.34	141.13	54.82	121.76	192.06	229.29	198.78	127.03	67.96	139.50	233.02
γ 75.0	266.83	231.80	138.14	49.65	118.60	189.23	226.68	196.23	123.87	62.93	136.51	230.75
γ 76.0	265.13	229.42	135.34	44.74	115.56	186.69	224.09	193.22	120.48	57.91	133.35	228.32
γ 77.0	262.60	227.26	132.50	39.89	112.46	184.10	221.38	190.66	117.50	53.04	130.63	225.76
γ 78.0	260.45	224.90	129.76	35.07	109.60	181.30	218.85	188.03	114.57	48.12	127.77	223.79
γ 79.0	258.21	222.33	127.10	30.45	106.58	178.73	216.11	185.45	111.56	43.35	125.00	221.35
γ 80.0	255.70	220.50	124.63	25.96	103.93	176.03	213.15	182.89	108.57	38.68	122.24	218.93
γ 81.0	253.51	217.93	122.26	21.59	101.18	173.57	210.78	180.31	105.91	34.03	119.68	216.79
γ 82.0	251.02	215.63	119.94	17.46	98.68	170.85	207.93	177.85	103.23	29.51	117.17	214.72
γ 83.0	248.76	213.61	117.63	13.59	96.15	168.48	205.11	174.99	100.60	25.13	114.79	212.41
γ 84.0	246.22	211.22	115.41	10.04	93.61	165.84	202.76	172.30	98.15	20.97	112.56	210.11
γ 85.0	244.05	208.94	113.29	6.86	91.43	163.31	200.08	170.16	95.58	16.97	110.31	207.80
γ 86.0	241.64	206.63	111.41	4.19	89.04	161.11	197.38	167.46	93.19	13.24	108.20	205.73
γ 87.0	239.28	204.59	109.60	2.22	86.90	158.66	194.84	164.94	90.85	9.82	106.21	203.76
γ 88.0	236.87	202.21	107.71	1.21	84.85	156.11	192.19	162.56	88.63	6.85	104.35	201.21
γ 89.0	234.45	200.21	106.04	1.04	82.83	153.94	189.57	160.29	86.49	4.46	102.50	199.17
γ 90.0	232.20	197.92	104.45	1.06	80.88	151.51	186.90	157.74	84.43	2.81	100.77	197.06
γ 91.0	229.81	195.75	102.89	1.09	79.11	149.12	184.23	155.42	82.46	2.08	99.05	194.94
γ 92.0	227.40	193.54	101.48	1.12	77.34	146.87	181.95	153.26	80.60	1.93	97.52	192.95
γ 93.0	224.94	191.17	100.03	1.18	75.71	144.57	179.43	150.83	78.69	1.86	96.01	190.71

IES Indoor Report

Photometric Filename:191929-2 T8 Type A+B 50K Ra95.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
γ 94.0	222.46	189.10	98.67	1.20	74.14	142.31	176.72	148.65	77.10	1.80	94.71	188.79
γ 95.0	220.11	187.23	97.46	1.22	72.51	140.36	174.40	146.31	75.44	1.77	93.35	186.68
γ 96.0	217.78	185.00	96.35	1.25	71.21	138.06	172.04	144.10	73.85	1.76	92.12	184.71
γ 97.0	215.39	182.97	95.21	1.28	69.93	135.99	169.52	141.96	72.38	1.74	90.87	182.54
γ 98.0	212.86	181.00	94.20	1.31	68.71	133.91	167.23	139.78	71.08	1.74	89.85	180.53
γ 99.0	210.59	178.90	93.29	1.34	67.44	131.79	164.60	137.81	69.72	1.73	88.88	178.59
γ 100.0	208.18	176.93	92.40	1.37	66.49	129.90	162.37	135.66	68.52	1.74	87.84	176.47
γ 101.0	205.78	174.78	91.56	1.40	65.44	127.90	160.02	133.71	67.39	1.75	87.02	174.43
γ 102.0	203.49	172.61	90.71	1.44	64.48	126.04	157.71	131.52	66.33	1.75	86.14	172.78
γ 103.0	201.07	170.89	90.00	1.47	63.66	124.08	155.58	129.77	65.23	1.75	85.44	170.70
γ 104.0	198.77	168.70	89.32	1.50	62.95	122.31	153.30	127.80	64.26	1.76	84.68	168.90
γ 105.0	196.32	166.84	88.66	1.54	62.21	120.44	151.10	125.89	63.43	1.77	84.07	166.83
γ 106.0	194.17	164.84	88.02	1.58	61.59	118.70	148.97	124.06	62.66	1.79	83.48	165.09
γ 107.0	191.76	162.79	87.52	1.62	61.04	116.96	146.83	122.32	61.96	1.81	82.89	163.23
γ 108.0	189.62	161.08	87.01	1.71	60.60	115.26	144.96	120.48	61.29	1.82	82.38	161.31
γ 109.0	187.23	159.13	86.55	1.80	60.10	113.07	142.72	118.76	60.73	1.85	81.92	159.62
γ 110.0	184.83	155.17	86.00	1.89	59.78	109.45	140.69	117.13	60.19	1.87	81.44	157.79
γ 111.0	182.55	150.54	85.58	2.00	59.42	105.77	138.59	115.46	59.72	1.88	81.03	155.89
γ 112.0	179.89	146.03	85.20	2.06	59.12	102.62	136.49	113.18	59.34	1.90	80.66	153.68
γ 113.0	175.88	142.33	84.81	2.13	58.97	100.40	134.71	109.61	58.91	1.93	80.34	149.33
γ 114.0	170.49	140.02	84.25	2.20	58.54	99.08	132.63	105.89	58.66	1.94	79.62	144.55
γ 115.0	164.96	138.89	83.00	2.29	57.88	98.66	129.81	102.75	58.02	1.98	79.38	140.76
γ 116.0	161.13	138.60	81.98	2.38	57.02	97.36	126.20	100.57	57.20	2.00	78.23	137.58
γ 117.0	158.94	136.49	81.06	2.47	56.72	95.36	121.72	99.26	56.51	2.02	77.21	135.37
γ 118.0	157.62	133.88	79.52	2.54	55.83	93.73	118.09	99.05	55.81	2.05	76.59	134.72
γ 119.0	157.60	131.82	78.01	2.62	54.63	92.47	116.15	97.82	54.78	2.07	75.30	133.93
γ 120.0	156.60	130.35	77.13	2.70	53.61	92.20	114.77	95.79	54.01	2.09	74.01	131.64
γ 121.0	154.86	130.09	76.90	2.77	52.93	92.11	114.41	94.20	53.50	2.11	73.32	129.34
γ 122.0	152.50	129.60	76.73	2.83	52.22	91.13	114.23	92.95	53.10	2.14	72.68	127.58
γ 123.0	150.77	128.23	76.42	2.89	51.67	90.23	112.85	92.59	52.61	2.17	71.90	126.44
γ 124.0	149.36	126.83	75.83	2.95	51.24	89.25	111.42	92.56	52.17	2.20	71.02	126.52
γ 125.0	148.34	125.31	75.27	3.01	51.06	88.33	109.92	91.65	51.51	2.23	70.65	125.84
γ 126.0	146.62	123.91	74.61	3.05	50.93	87.45	108.65	90.76	50.85	2.26	70.28	124.51
γ 127.0	144.68	122.45	73.86	3.11	50.47	86.55	108.28	89.80	50.50	2.29	69.61	123.20
γ 128.0	142.53	121.01	73.11	3.16	50.33	85.51	107.04	88.91	50.20	2.32	69.55	121.89
γ 129.0	140.63	119.81	72.38	3.22	50.00	84.58	105.62	88.07	50.08	2.35	69.01	120.57
γ 130.0	138.61	118.46	71.70	3.26	49.46	83.61	104.23	87.25	49.77	2.37	67.63	119.31
γ 131.0	136.79	117.18	70.75	3.31	48.84	82.84	102.91	86.10	49.42	2.40	66.76	118.00
γ 132.0	134.90	115.85	69.65	3.36	47.49	81.96	101.70	85.28	49.27	2.43	66.14	116.77
γ 133.0	133.02	114.47	67.75	3.40	45.67	81.03	100.24	84.41	48.87	2.45	65.01	115.62
γ 134.0	131.16	112.98	65.79	3.44	43.66	79.83	99.05	83.52	48.30	2.49	63.15	114.36
γ 135.0	129.30	110.77	63.97	3.49	41.92	78.61	97.67	82.71	47.59	2.52	60.57	113.22
γ 136.0	127.55	108.35	62.04	3.53	40.31	77.23	96.12	81.89	46.82	2.55	58.30	111.99
γ 137.0	125.78	105.07	60.46	3.56	38.81	75.90	94.91	80.76	45.16	2.59	56.08	110.90
γ 138.0	123.84	101.85	58.52	3.59	37.33	74.51	93.55	79.66	43.15	2.62	54.10	109.63
γ 139.0	122.22	98.83	56.45	3.62	36.23	73.16	92.46	78.20	41.43	2.65	52.56	108.35
γ 140.0	120.42	96.53	54.65	3.65	35.66	72.16	91.27	76.97	39.75	2.69	50.82	106.94

