

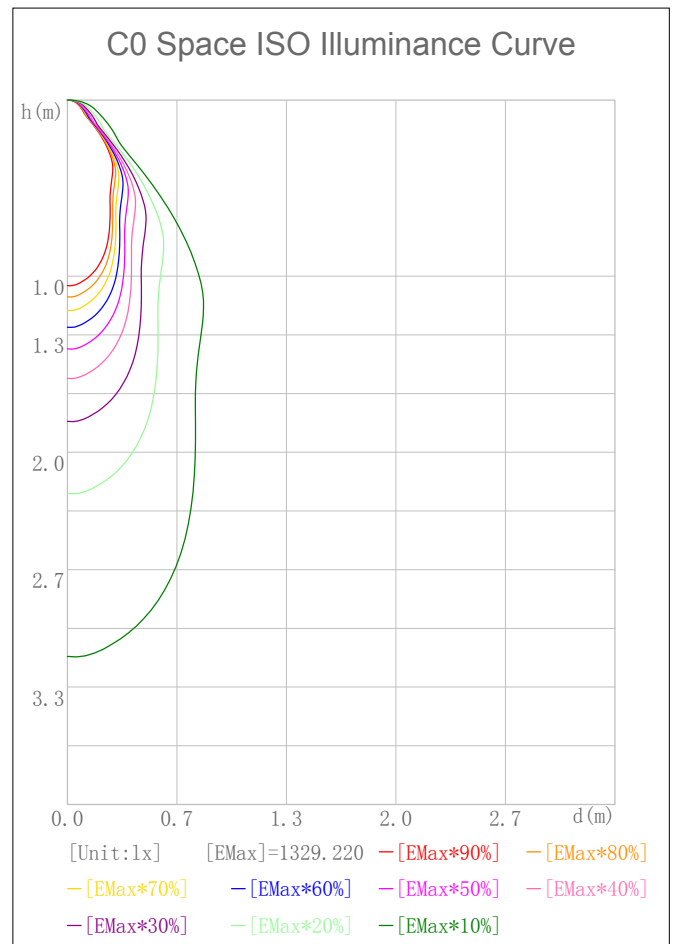
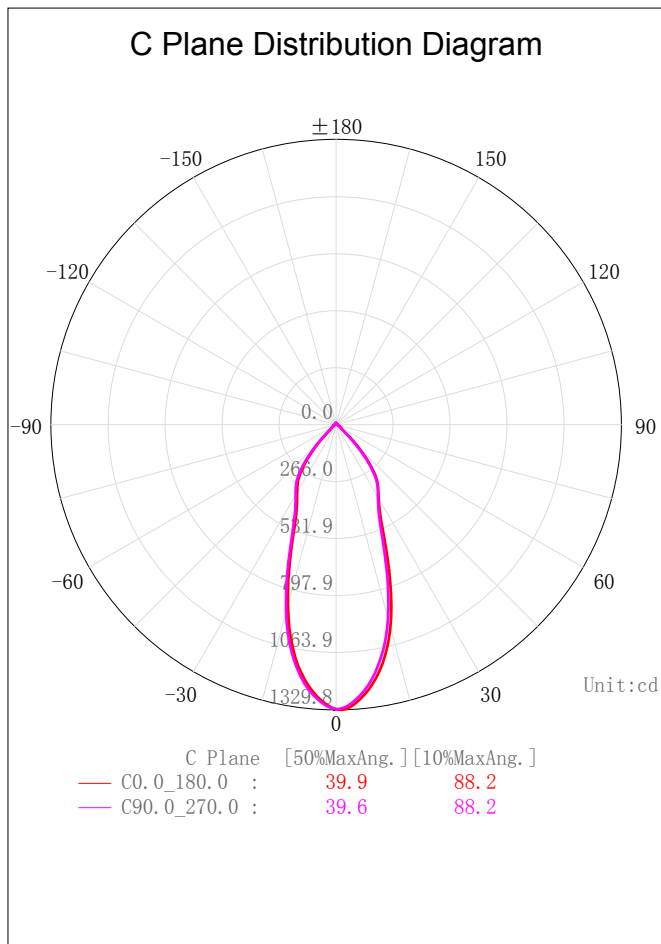
Indoor Luminaire Photometric Data

Description Information

Luminary Name: CL2-13TW 2700K RA90 Reflector 38D		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2020/01/07
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: QUality peatment	Frequency (Hz):		Lamp CCT(K): Ra:
Lum. Size (W*L*H): 0.498m*0.498m*0.750m		Lum. Area (m2): 0.622	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp. (°C): 25	Humidity(%):

Character Parameter

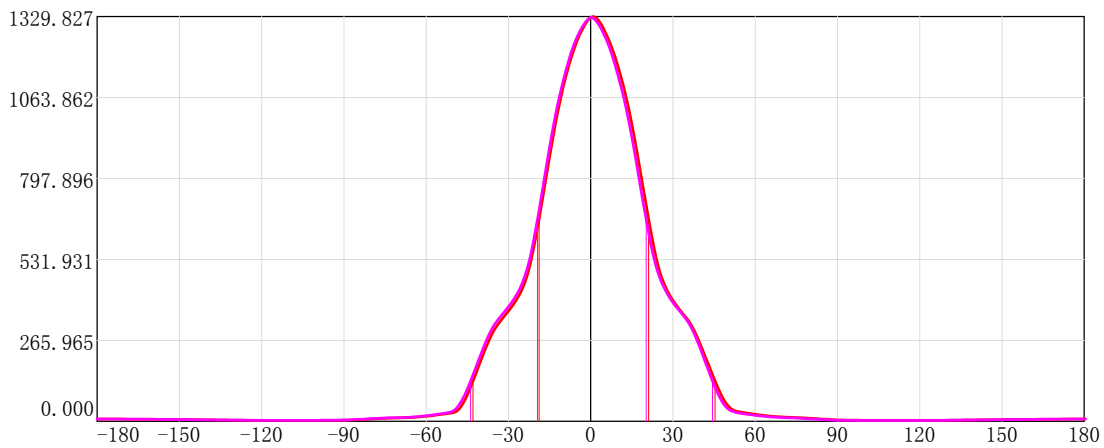
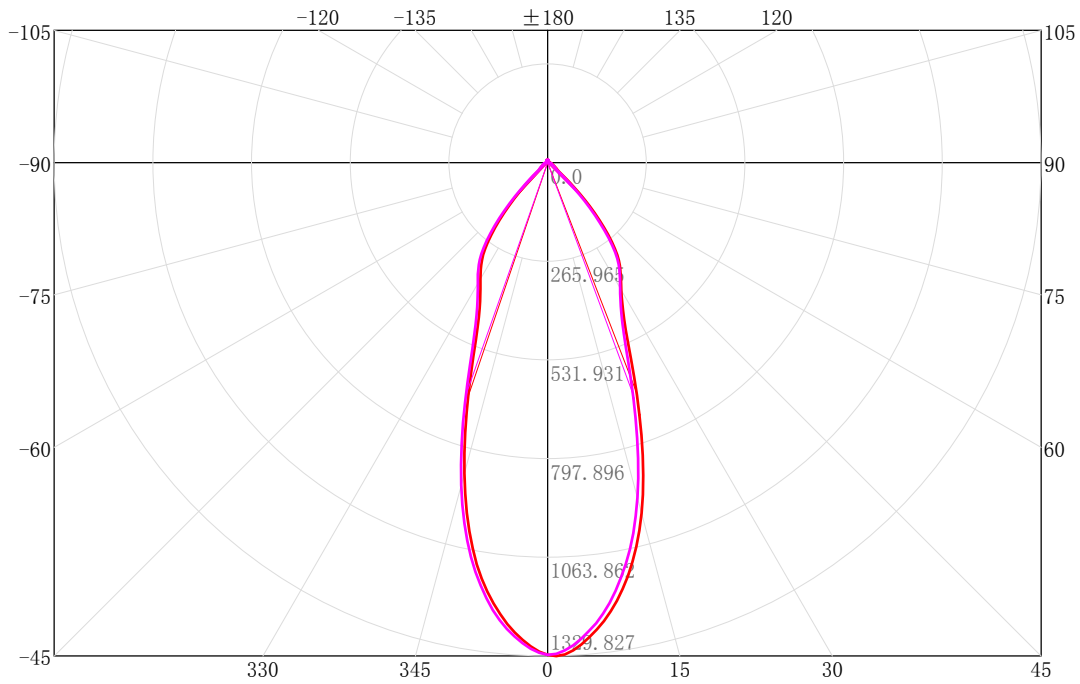
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 961.930	Luminary Flux(lm): 961.928	Field Angle(10%Imax): 88.2(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 934.459lm 97.14%
Rated Voltage(V):	Luminary EER(lm/W): 91.875	Up Lumens&Percent: 27.469lm 2.86%
Tested Power(W): 10.470	Max. Candela(cd): 1329.827	S/MH: C0_a180=0.648 C90_270=0.643
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf): 34.9, 0.299	Beam Angle (50%Imax): 39.9(°)	ErP φ use(90°): 841.691lm
Lamp Size (W*L*H): 0.498m*0.498m*0.750m	Left=-18.8°, Right=21.1°	IRF(%): 304.038



2D Plane Light Intensity Distribution Curve

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

C Plane Distribution Diagram



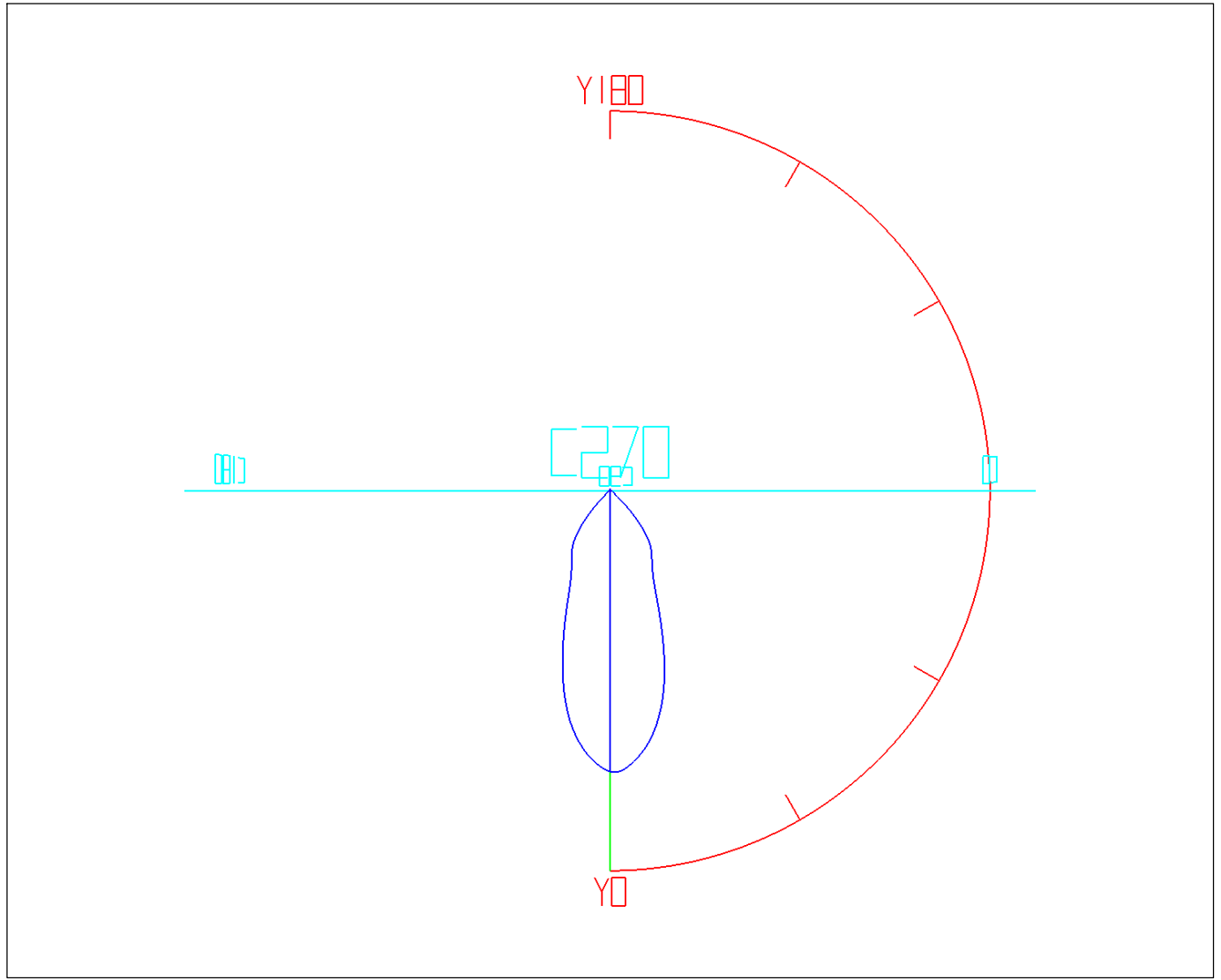
C Plane [50%MaxAng.] [10%MaxAng.]
 — C0.0_180.0 : 39.9 88.2
 — C90.0_270.0 : 39.6 88.2

Unit:cd

3D Light Intensity Distribution Modal

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

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:CL2-13TW 2700K RA90 Reflector 38D.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	1.27	1.27	0.13	0.13	47.0-48.0	5.47	868.03	0.57	90.24
1.0-2.0	3.79	5.05	0.39	0.53	48.0-49.0	4.43	872.46	0.46	90.70
2.0-3.0	6.25	11.31	0.65	1.18	49.0-50.0	3.64	876.10	0.38	91.08
3.0-4.0	8.65	19.96	0.90	2.08	50.0-51.0	3.12	879.22	0.32	91.40
4.0-5.0	10.97	30.93	1.14	3.22	51.0-52.0	2.81	882.02	0.29	91.69
5.0-6.0	13.19	44.12	1.37	4.59	52.0-53.0	2.62	884.64	0.27	91.97
6.0-7.0	15.30	59.42	1.59	6.18	53.0-54.0	2.48	887.12	0.26	92.22
7.0-8.0	17.27	76.69	1.80	7.97	54.0-55.0	2.38	889.50	0.25	92.47
8.0-9.0	19.09	95.78	1.99	9.96	55.0-56.0	2.29	891.78	0.24	92.71
9.0-10.0	20.76	116.54	2.16	12.11	56.0-57.0	2.20	893.98	0.23	92.94
10.0-11.0	22.23	138.77	2.31	14.43	57.0-58.0	2.11	896.09	0.22	93.16
11.0-12.0	23.50	162.27	2.44	16.87	58.0-59.0	2.02	898.11	0.21	93.37
12.0-13.0	24.55	186.82	2.55	19.42	59.0-60.0	1.93	900.05	0.20	93.57
13.0-14.0	25.36	212.18	2.64	22.06	60.0-61.0	1.85	901.89	0.19	93.76
14.0-15.0	25.91	238.10	2.69	24.75	61.0-62.0	1.76	903.66	0.18	93.94
15.0-16.0	26.21	264.31	2.73	27.48	62.0-63.0	1.69	905.34	0.18	94.12
16.0-17.0	26.26	290.57	2.73	30.21	63.0-64.0	1.62	906.96	0.17	94.29
17.0-18.0	26.06	316.63	2.71	32.92	64.0-65.0	1.55	908.51	0.16	94.45
18.0-19.0	25.65	342.27	2.67	35.58	65.0-66.0	1.49	910.00	0.16	94.60
19.0-20.0	25.06	367.34	2.61	38.19	66.0-67.0	1.44	911.44	0.15	94.75
20.0-21.0	24.37	391.70	2.53	40.72	67.0-68.0	1.39	912.83	0.14	94.90
21.0-22.0	23.61	415.32	2.45	43.18	68.0-69.0	1.36	914.19	0.14	95.04
22.0-23.0	22.89	438.21	2.38	45.56	69.0-70.0	1.33	915.51	0.14	95.17
23.0-24.0	22.28	460.49	2.32	47.87	70.0-71.0	1.30	916.82	0.14	95.31
24.0-25.0	21.80	482.29	2.27	50.14	71.0-72.0	1.29	918.10	0.13	95.44
25.0-26.0	21.45	503.74	2.23	52.37	72.0-73.0	1.27	919.37	0.13	95.58
26.0-27.0	21.22	524.97	2.21	54.57	73.0-74.0	1.25	920.62	0.13	95.71
27.0-28.0	21.08	546.04	2.19	56.77	74.0-75.0	1.22	921.84	0.13	95.83
28.0-29.0	21.00	567.04	2.18	58.95	75.0-76.0	1.19	923.03	0.12	95.96
29.0-30.0	20.95	587.99	2.18	61.13	76.0-77.0	1.15	924.18	0.12	96.08
30.0-31.0	20.91	608.90	2.17	63.30	77.0-78.0	1.11	925.29	0.11	96.19
31.0-32.0	20.87	629.77	2.17	65.47	78.0-79.0	1.06	926.35	0.11	96.30
32.0-33.0	20.81	650.58	2.16	67.63	79.0-80.0	1.00	927.35	0.10	96.41
33.0-34.0	20.69	671.26	2.15	69.78	80.0-81.0	0.95	928.30	0.10	96.50
34.0-35.0	20.49	691.75	2.13	71.91	81.0-82.0	0.90	929.20	0.09	96.60
35.0-36.0	20.14	711.89	2.09	74.01	82.0-83.0	0.84	930.04	0.09	96.69
36.0-37.0	19.60	731.49	2.04	76.04	83.0-84.0	0.79	930.83	0.08	96.77
37.0-38.0	18.85	750.34	1.96	78.00	84.0-85.0	0.74	931.57	0.08	96.84
38.0-39.0	17.90	768.23	1.86	79.86	85.0-86.0	0.69	932.26	0.07	96.92
39.0-40.0	16.77	785.00	1.74	81.61	86.0-87.0	0.63	932.89	0.07	96.98
40.0-41.0	15.49	800.49	1.61	83.22	87.0-88.0	0.57	933.46	0.06	97.04
41.0-42.0	14.09	814.59	1.47	84.68	88.0-89.0	0.52	933.98	0.05	97.09
42.0-43.0	12.60	827.19	1.31	85.99	89.0-90.0	0.48	934.46	0.05	97.14
43.0-44.0	11.07	838.26	1.15	87.14	90.0-91.0	0.47	934.93	0.05	97.19
44.0-45.0	9.54	847.80	0.99	88.14	91.0-92.0	0.46	935.39	0.05	97.24
45.0-46.0	8.07	855.87	0.84	88.97	92.0-93.0	0.45	935.83	0.05	97.29
46.0-47.0	6.69	862.56	0.70	89.67	93.0-94.0	0.44	936.27	0.05	97.33

IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Zonal Flux Tabulation - (Cont.)

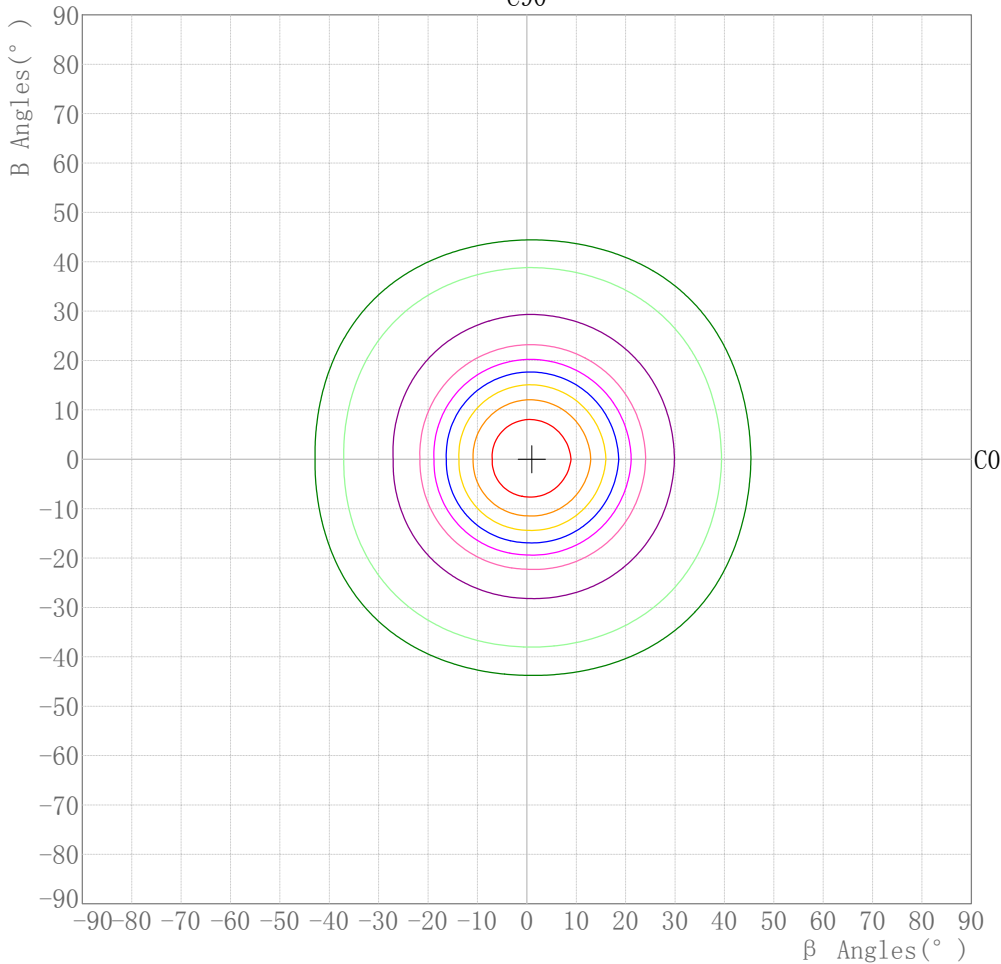
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.43	936.70	0.04	97.38	141.0-142.0	0.36	953.32	0.04	99.11
95.0-96.0	0.42	937.12	0.04	97.42	142.0-143.0	0.36	953.68	0.04	99.14
96.0-97.0	0.41	937.53	0.04	97.46	143.0-144.0	0.36	954.04	0.04	99.18
97.0-98.0	0.40	937.94	0.04	97.51	144.0-145.0	0.35	954.39	0.04	99.22
98.0-99.0	0.40	938.34	0.04	97.55	145.0-146.0	0.35	954.74	0.04	99.25
99.0-100.0	0.39	938.73	0.04	97.59	146.0-147.0	0.35	955.09	0.04	99.29
100.0-101.0	0.38	939.11	0.04	97.63	147.0-148.0	0.35	955.44	0.04	99.33
101.0-102.0	0.38	939.49	0.04	97.67	148.0-149.0	0.34	955.78	0.04	99.36
102.0-103.0	0.37	939.86	0.04	97.71	149.0-150.0	0.34	956.12	0.04	99.40
103.0-104.0	0.37	940.23	0.04	97.74	150.0-151.0	0.33	956.45	0.03	99.43
104.0-105.0	0.36	940.59	0.04	97.78	151.0-152.0	0.33	956.78	0.03	99.46
105.0-106.0	0.36	940.95	0.04	97.82	152.0-153.0	0.32	957.10	0.03	99.50
106.0-107.0	0.35	941.30	0.04	97.86	153.0-154.0	0.31	957.41	0.03	99.53
107.0-108.0	0.35	941.65	0.04	97.89	154.0-155.0	0.31	957.72	0.03	99.56
108.0-109.0	0.35	942.00	0.04	97.93	155.0-156.0	0.30	958.02	0.03	99.59
109.0-110.0	0.34	942.35	0.04	97.96	156.0-157.0	0.29	958.31	0.03	99.62
110.0-111.0	0.34	942.69	0.04	98.00	157.0-158.0	0.28	958.60	0.03	99.65
111.0-112.0	0.34	943.03	0.04	98.04	158.0-159.0	0.28	958.87	0.03	99.68
112.0-113.0	0.34	943.37	0.04	98.07	159.0-160.0	0.27	959.14	0.03	99.71
113.0-114.0	0.34	943.70	0.04	98.11	160.0-161.0	0.26	959.39	0.03	99.74
114.0-115.0	0.34	944.04	0.03	98.14	161.0-162.0	0.25	959.64	0.03	99.76
115.0-116.0	0.33	944.37	0.03	98.17	162.0-163.0	0.24	959.88	0.02	99.79
116.0-117.0	0.33	944.71	0.03	98.21	163.0-164.0	0.22	960.10	0.02	99.81
117.0-118.0	0.33	945.04	0.03	98.24	164.0-165.0	0.21	960.31	0.02	99.83
118.0-119.0	0.33	945.38	0.03	98.28	165.0-166.0	0.20	960.52	0.02	99.85
119.0-120.0	0.33	945.71	0.03	98.31	166.0-167.0	0.19	960.70	0.02	99.87
120.0-121.0	0.33	946.04	0.03	98.35	167.0-168.0	0.18	960.88	0.02	99.89
121.0-122.0	0.33	946.38	0.03	98.38	168.0-169.0	0.16	961.04	0.02	99.91
122.0-123.0	0.33	946.71	0.03	98.42	169.0-170.0	0.15	961.19	0.02	99.92
123.0-124.0	0.33	947.04	0.03	98.45	170.0-171.0	0.14	961.33	0.01	99.94
124.0-125.0	0.34	947.38	0.03	98.49	171.0-172.0	0.12	961.45	0.01	99.95
125.0-126.0	0.34	947.72	0.04	98.52	172.0-173.0	0.11	961.56	0.01	99.96
126.0-127.0	0.34	948.05	0.04	98.56	173.0-174.0	0.10	961.66	0.01	99.97
127.0-128.0	0.34	948.39	0.04	98.59	174.0-175.0	0.08	961.74	0.01	99.98
128.0-129.0	0.34	948.74	0.04	98.63	175.0-176.0	0.07	961.81	0.01	99.99
129.0-130.0	0.34	949.08	0.04	98.66	176.0-177.0	0.05	961.86	0.01	99.99
130.0-131.0	0.34	949.42	0.04	98.70	177.0-178.0	0.04	961.90	0.00	100.00
131.0-132.0	0.35	949.77	0.04	98.74	178.0-179.0	0.02	961.92	0.00	100.00
132.0-133.0	0.35	950.12	0.04	98.77	179.0-180.0	0.01	961.93	0.00	100.00
133.0-134.0	0.35	950.47	0.04	98.81					
134.0-135.0	0.35	950.82	0.04	98.85					
135.0-136.0	0.35	951.18	0.04	98.88					
136.0-137.0	0.36	951.53	0.04	98.92					
137.0-138.0	0.36	951.89	0.04	98.96					
138.0-139.0	0.36	952.25	0.04	98.99					
139.0-140.0	0.36	952.61	0.04	99.03					
140.0-141.0	0.36	952.96	0.04	99.07					

Rectangle ISO Lighting Intensity Diagram

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

ISO Lighting Intensity Curve

C90



Curves:

[Unit: cd]

[IMax] =1329.827

- [IMax*90%]=1196.844
- [IMax*80%]=1063.862
- [IMax*70%]=930.879
- [IMax*60%]=797.896
- [IMax*50%]=664.914
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- [IMax*10%]=132.983

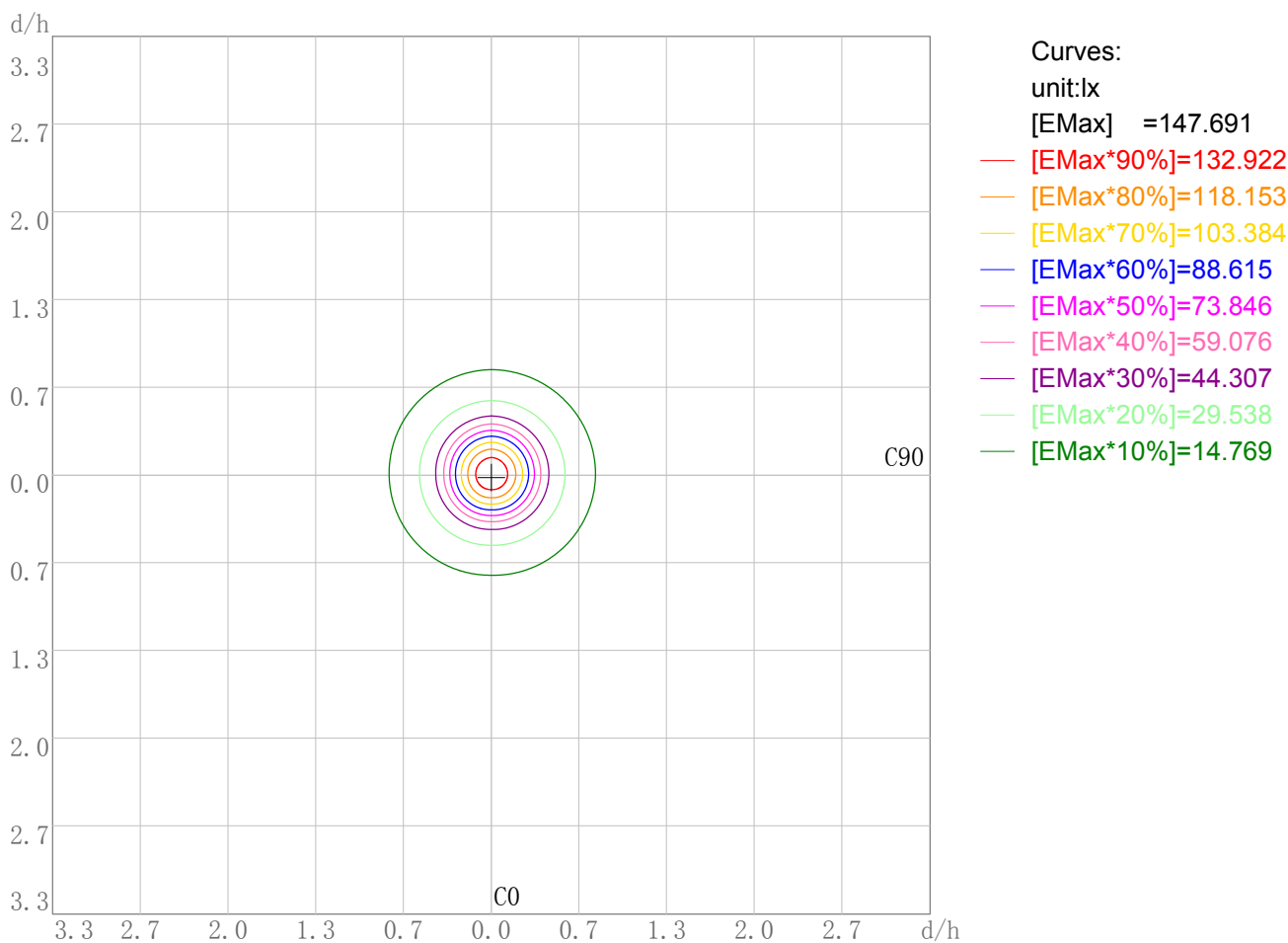
Maximum Light Intensity(cd): 1329.83

Maximum Cand.@Angle: H=1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

Plane ISO-Illuminance Curve

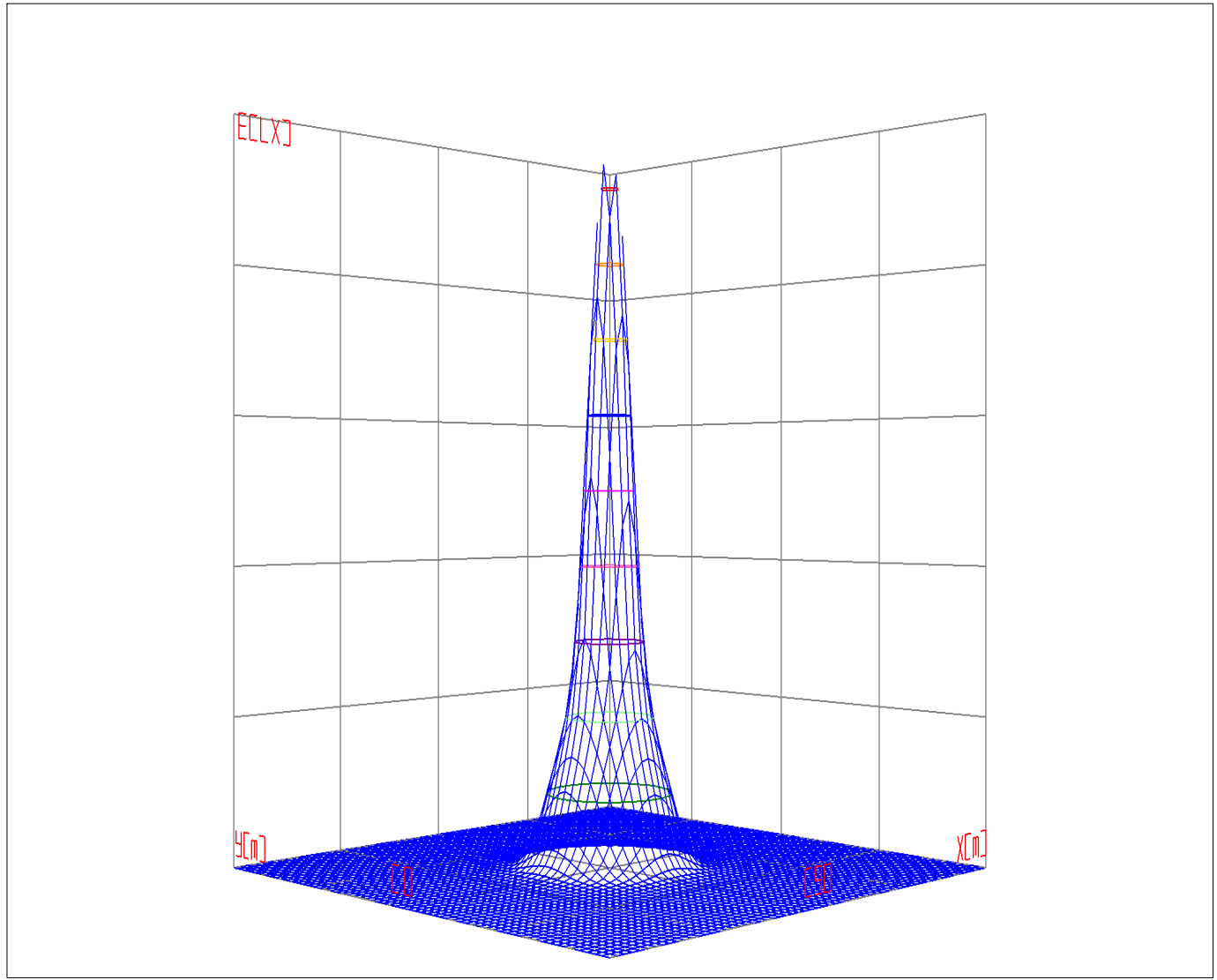


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 147.69
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

3D Plane Illuminance Modal

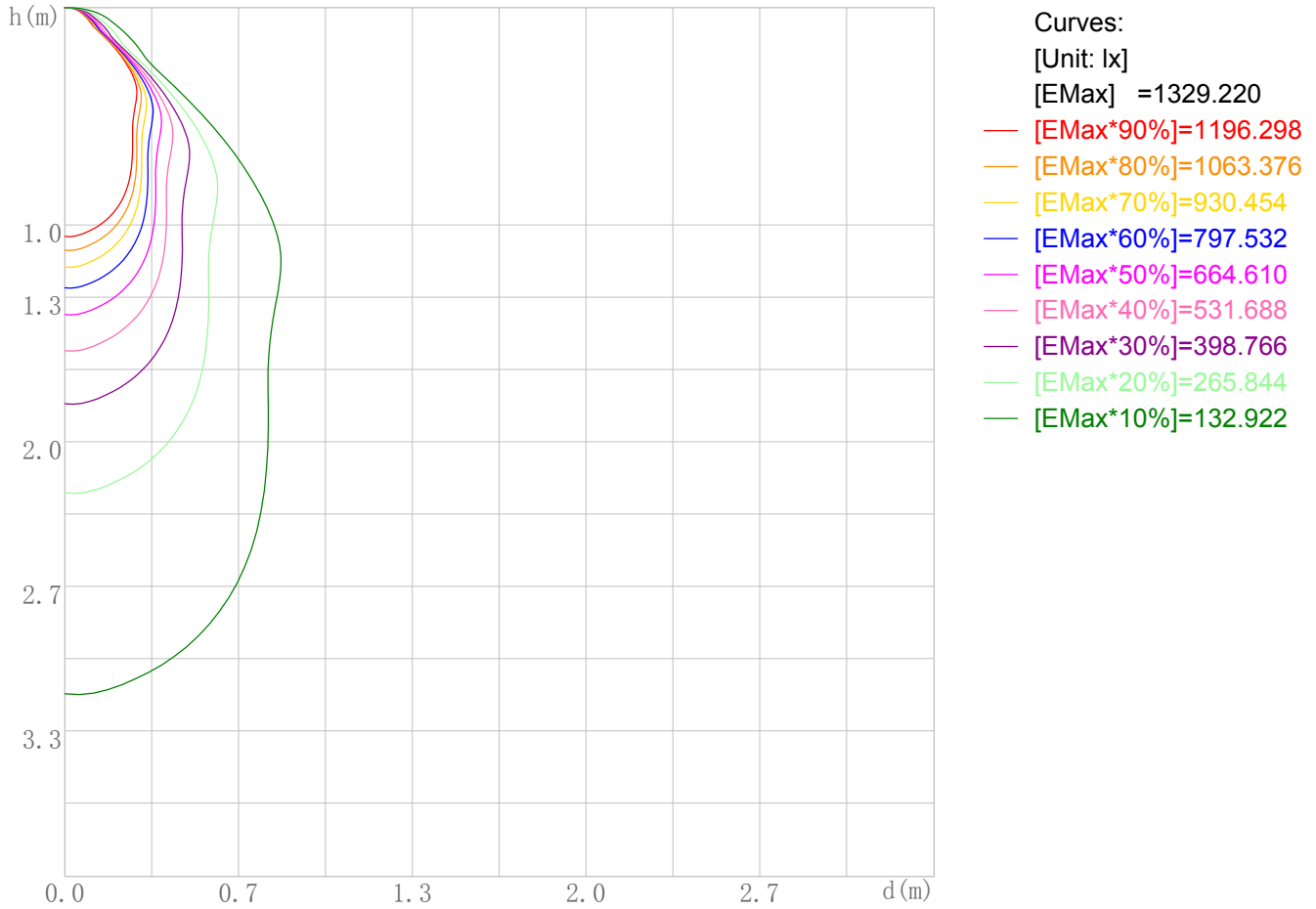


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
 View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1329.22lx,1.0deg
 Plane Maximum Lighting Intensity and @Angle:1329.827cd,0deg

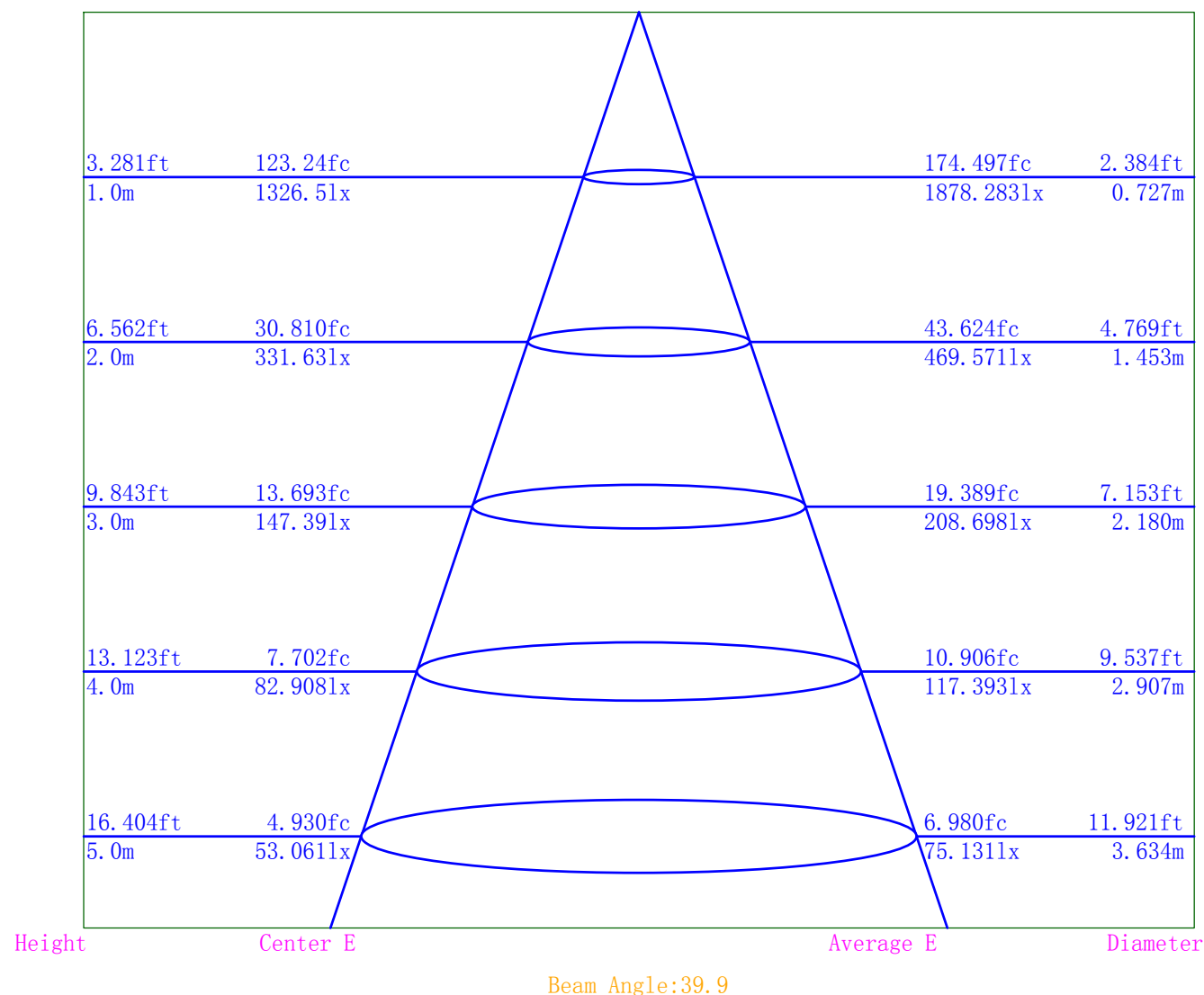
IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Illuminance-Distance Diagram

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog: LED	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

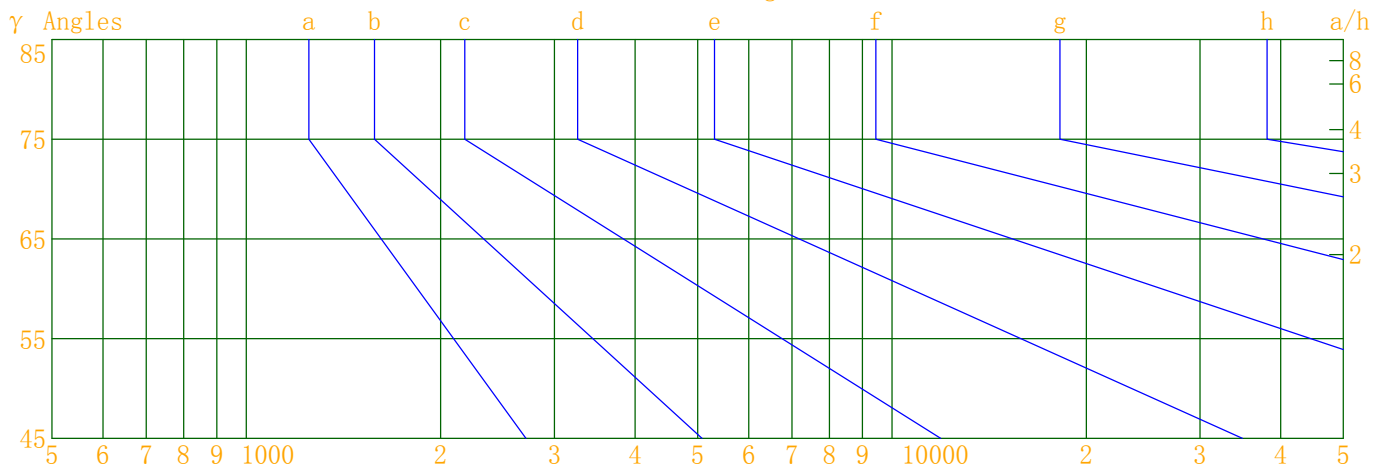
Glare Grade Table

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

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	320	131	85	76	69	68	80	97	143
C90	273	104	73	65	59	59	68	80	115

Luminance Limiting Curve



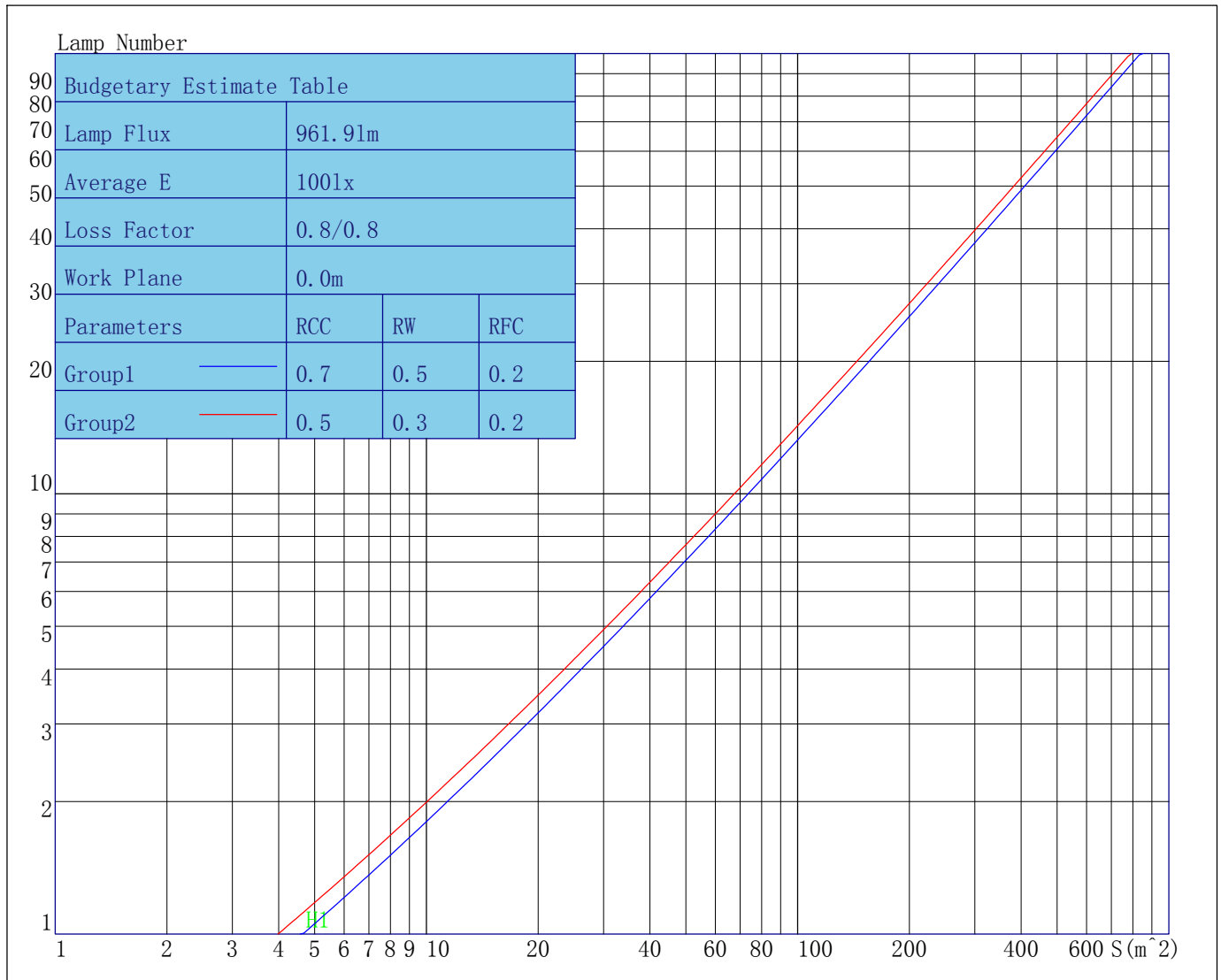
Luminous Size: Length(m)=0.498 Width(m)=0.498 Height(m)=0.750 Area(m^2)=0.621504
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Indoor Budgetary Estimate Table

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07



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: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	112	109	106	104	109	106	104	102	102	100	98	98	96	95	94	92	91	89
2	106	100	96	92	103	98	94	91	95	91	89	91	89	86	88	86	84	82
3	100	93	88	83	98	91	86	82	88	84	81	85	82	79	83	80	77	76
4	95	86	80	76	92	85	80	75	83	78	74	80	76	73	78	75	72	70
5	90	81	74	70	88	79	74	69	77	72	68	75	71	68	73	70	67	65
6	85	75	69	65	83	74	68	64	73	67	63	71	66	63	69	65	62	61
7	81	71	64	60	79	70	64	60	68	63	59	67	62	59	65	61	58	57
8	77	67	60	56	75	66	60	56	64	59	55	63	58	55	62	58	55	53
9	73	63	57	53	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	48	47

IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Unified Glare Rating Table

Lum. Name: CL2-13TW 2700K RA90 Reflector 38D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture:	Test Machine:GON-2000	Test Date: 2020/01/07

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	Vewed crosswise					Vewed endwise				
X=2H Y=2H	4.0	5.1	4.5	5.5	5.9	3.6	4.7	4.0	5.0	5.4
Y=3H	4.2	5.1	4.6	5.5	5.9	3.7	4.6	4.1	5.0	5.5
Y=4H	4.3	5.2	4.8	5.6	6.1	3.8	4.7	4.3	5.1	5.6
Y=6H	4.6	5.4	5.0	5.8	6.3	4.0	4.8	4.5	5.2	5.7
Y=8H	4.7	5.5	5.2	5.9	6.4	4.1	4.9	4.6	5.3	5.8
Y=12H	4.9	5.6	5.4	6.1	6.6	4.3	5.0	4.7	5.4	5.9
X=4H Y=2H	3.9	4.8	4.3	5.2	5.6	3.4	4.3	3.9	4.7	5.2
Y=3H	4.1	4.9	4.6	5.3	5.8	3.7	4.4	4.1	4.9	5.3
Y=4H	4.4	5.1	4.9	5.6	6.1	3.9	4.6	4.4	5.0	5.5
Y=6H	4.9	5.4	5.4	5.9	6.5	4.3	4.8	4.8	5.3	5.9
Y=8H	5.1	5.6	5.6	6.1	6.7	4.5	5.0	5.0	5.5	6.0
Y=12H	5.4	5.9	6.0	6.4	7.0	4.7	5.2	5.2	5.7	6.2
X=8H Y=4H	4.5	5.0	5.0	5.5	6.0	3.9	4.5	4.5	5.0	5.5
Y=6H	5.1	5.5	5.6	6.0	6.6	4.5	4.9	5.0	5.4	6.0
Y=8H	5.5	5.8	6.0	6.4	7.0	4.8	5.2	5.3	5.7	6.3
Y=12H	5.9	6.3	6.5	6.8	7.5	5.2	5.5	5.7	6.1	6.7
X=12H Y=4H	4.5	4.9	5.0	5.5	6.0	3.9	4.4	4.5	4.9	5.5
Y=6H	5.1	5.5	5.7	6.0	6.6	4.5	4.9	5.1	5.4	6.0
Y=8H	5.6	5.9	6.1	6.5	7.1	4.9	5.2	5.5	5.8	6.4
Variations with the objerver position at spacings										
S=1.0H	0.1/-0.1					0.2/-0.3				
S=1.5H	0.3/-0.3					0.3/-0.4				
S=2.0H	0.2/-0.3					0.3/-0.4				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	1.6					1.4				

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

IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	1326.53	1326.53	1326.53	1326.53
γ 1.0	1329.83	1323.82	1317.83	1320.80
γ 2.0	1326.25	1315.74	1304.47	1310.62
γ 3.0	1316.09	1303.06	1288.04	1296.69
γ 4.0	1301.72	1286.69	1269.69	1280.01
γ 5.0	1284.05	1267.87	1248.42	1261.13
γ 6.0	1265.21	1248.39	1223.46	1239.35
γ 7.0	1244.73	1224.77	1197.05	1214.66
γ 8.0	1221.00	1198.15	1167.25	1185.48
γ 9.0	1195.19	1168.46	1135.01	1153.64
γ 10.0	1166.01	1136.40	1099.41	1119.80
γ 11.0	1134.52	1102.20	1058.85	1082.52
γ 12.0	1099.57	1065.50	1015.38	1041.59
γ 13.0	1061.80	1025.21	969.08	997.54
γ 14.0	1021.62	981.51	918.22	949.75
γ 15.0	977.70	934.68	866.96	899.30
γ 16.0	931.00	885.24	814.24	846.92
γ 17.0	881.32	833.18	760.40	792.58
γ 18.0	829.10	780.13	706.98	738.12
γ 19.0	776.29	727.37	654.79	683.82
γ 20.0	723.03	675.66	604.72	632.18
γ 21.0	671.47	625.99	558.54	584.22
γ 22.0	621.88	579.93	517.42	541.03
γ 23.0	575.67	538.74	483.09	506.15
γ 24.0	533.67	504.77	456.49	477.33
γ 25.0	498.34	477.05	434.23	453.16
γ 26.0	470.31	453.90	415.62	432.82
γ 27.0	447.10	434.45	399.80	415.78
γ 28.0	427.82	417.83	386.16	401.33
γ 29.0	411.35	403.32	373.89	388.25
γ 30.0	397.21	390.50	362.24	376.47
γ 31.0	384.56	378.70	350.97	365.17
γ 32.0	372.73	367.71	339.94	354.52
γ 33.0	361.25	356.75	328.66	343.32
γ 34.0	350.09	345.78	316.54	331.92
γ 35.0	338.80	333.48	302.78	319.14
γ 36.0	326.39	319.38	286.24	303.87
γ 37.0	311.79	302.63	267.27	286.22
γ 38.0	294.51	283.36	246.76	266.28
γ 39.0	274.76	262.02	224.80	244.76
γ 40.0	253.59	239.21	201.92	222.05
γ 41.0	231.43	215.25	178.31	198.55
γ 42.0	208.75	190.78	154.19	174.49
γ 43.0	185.87	166.44	130.18	150.36
γ 44.0	163.13	142.64	107.37	127.15
γ 45.0	140.78	119.99	86.44	105.47
γ 46.0	119.39	99.04	67.98	85.88

IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	99.09	80.39	52.61	68.89
γ 48.0	80.63	64.28	40.66	54.36
γ 49.0	64.88	51.28	32.55	42.78
γ 50.0	52.26	41.55	28.93	34.92
γ 51.0	43.12	35.50	27.36	31.04
γ 52.0	37.32	32.34	26.05	29.08
γ 53.0	33.85	29.65	24.74	27.53
γ 54.0	31.92	27.63	23.58	26.09
γ 55.0	30.37	26.20	22.41	24.79
γ 56.0	28.88	24.90	21.31	23.51
γ 57.0	27.51	23.66	20.21	22.31
γ 58.0	26.14	22.51	19.11	21.07
γ 59.0	24.88	21.36	18.05	19.92
γ 60.0	23.52	20.20	17.03	18.81
γ 61.0	22.28	19.11	16.07	17.74
γ 62.0	21.11	18.07	15.24	16.77
γ 63.0	20.00	17.10	14.48	15.94
γ 64.0	18.97	16.24	13.79	15.18
γ 65.0	18.07	15.45	13.14	14.50
γ 66.0	17.18	14.69	12.58	13.92
γ 67.0	16.41	14.02	12.15	13.40
γ 68.0	15.70	13.42	11.83	13.02
γ 69.0	15.06	12.93	11.59	12.71
γ 70.0	14.54	12.51	11.42	12.54
γ 71.0	14.11	12.18	11.29	12.38
γ 72.0	13.80	11.87	11.03	12.28
γ 73.0	13.47	11.57	10.88	12.05
γ 74.0	13.14	11.35	10.61	11.83
γ 75.0	12.82	10.92	10.17	11.56
γ 76.0	12.50	10.55	9.97	11.17
γ 77.0	11.93	10.16	9.40	10.70
γ 78.0	11.63	9.60	9.00	10.21
γ 79.0	11.04	9.13	8.45	9.85
γ 80.0	10.45	8.63	7.92	8.97
γ 81.0	9.94	8.03	7.61	8.84
γ 82.0	9.38	7.75	6.82	8.09
γ 83.0	8.91	6.95	6.50	7.56
γ 84.0	8.13	6.62	6.12	7.19
γ 85.0	7.75	6.23	5.59	6.68
γ 86.0	7.31	5.72	5.01	6.13
γ 87.0	6.57	5.05	4.59	5.61
γ 88.0	5.86	4.57	4.14	5.05
γ 89.0	5.14	4.01	4.04	4.79
γ 90.0	4.76	3.91	3.96	4.67
γ 91.0	4.65	3.82	3.87	4.57
γ 92.0	4.54	3.74	3.79	4.46
γ 93.0	4.43	3.66	3.73	4.36

IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	4.33	3.60	3.66	4.28
γ 95.0	4.24	3.54	3.60	4.19
γ 96.0	4.16	3.47	3.53	4.11
γ 97.0	4.08	3.41	3.47	4.03
γ 98.0	4.01	3.36	3.43	3.96
γ 99.0	3.93	3.32	3.40	3.91
γ 100.0	3.87	3.26	3.35	3.85
γ 101.0	3.81	3.23	3.31	3.79
γ 102.0	3.75	3.19	3.28	3.75
γ 103.0	3.70	3.16	3.26	3.71
γ 104.0	3.67	3.13	3.24	3.67
γ 105.0	3.62	3.12	3.23	3.64
γ 106.0	3.58	3.08	3.22	3.62
γ 107.0	3.55	3.07	3.21	3.59
γ 108.0	3.52	3.06	3.21	3.58
γ 109.0	3.50	3.06	3.22	3.58
γ 110.0	3.48	3.06	3.23	3.57
γ 111.0	3.46	3.06	3.25	3.57
γ 112.0	3.46	3.06	3.25	3.57
γ 113.0	3.45	3.07	3.28	3.59
γ 114.0	3.45	3.09	3.30	3.59
γ 115.0	3.46	3.10	3.34	3.61
γ 116.0	3.47	3.11	3.36	3.63
γ 117.0	3.47	3.14	3.40	3.66
γ 118.0	3.48	3.17	3.44	3.68
γ 119.0	3.50	3.19	3.49	3.71
γ 120.0	3.53	3.23	3.54	3.73
γ 121.0	3.55	3.27	3.58	3.79
γ 122.0	3.58	3.31	3.63	3.83
γ 123.0	3.62	3.35	3.70	3.87
γ 124.0	3.65	3.41	3.76	3.92
γ 125.0	3.70	3.45	3.83	3.98
γ 126.0	3.75	3.52	3.91	4.04
γ 127.0	3.80	3.58	3.99	4.10
γ 128.0	3.85	3.66	4.07	4.17
γ 129.0	3.93	3.73	4.16	4.25
γ 130.0	3.99	3.80	4.24	4.34
γ 131.0	4.07	3.89	4.34	4.41
γ 132.0	4.14	3.97	4.44	4.50
γ 133.0	4.23	4.07	4.55	4.59
γ 134.0	4.32	4.16	4.66	4.70
γ 135.0	4.41	4.26	4.75	4.79
γ 136.0	4.51	4.37	4.88	4.89
γ 137.0	4.61	4.48	4.99	5.00
γ 138.0	4.71	4.59	5.09	5.10
γ 139.0	4.82	4.70	5.19	5.20
γ 140.0	4.92	4.82	5.31	5.30

IES Indoor Report

Photometric Filename:CL2-13TW 2700K RA90 Reflector 38D.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	5.04	4.92	5.42	5.42
γ 142.0	5.14	5.04	5.53	5.51
γ 143.0	5.24	5.14	5.64	5.62
γ 144.0	5.36	5.25	5.74	5.72
γ 145.0	5.46	5.35	5.85	5.82
γ 146.0	5.56	5.46	5.95	5.91
γ 147.0	5.66	5.57	6.05	6.01
γ 148.0	5.76	5.66	6.14	6.09
γ 149.0	5.86	5.76	6.23	6.19
γ 150.0	5.96	5.85	6.32	6.27
γ 151.0	6.06	5.95	6.41	6.35
γ 152.0	6.16	6.05	6.50	6.45
γ 153.0	6.25	6.14	6.60	6.53
γ 154.0	6.34	6.23	6.70	6.61
γ 155.0	6.43	6.32	6.77	6.69
γ 156.0	6.53	6.42	6.86	6.77
γ 157.0	6.63	6.51	6.95	6.86
γ 158.0	6.73	6.60	7.03	6.93
γ 159.0	6.81	6.68	7.10	7.01
γ 160.0	6.90	6.78	7.17	7.07
γ 161.0	6.98	6.85	7.24	7.14
γ 162.0	7.06	6.93	7.29	7.19
γ 163.0	7.13	7.01	7.35	7.24
γ 164.0	7.20	7.08	7.40	7.30
γ 165.0	7.26	7.14	7.44	7.34
γ 166.0	7.31	7.19	7.49	7.38
γ 167.0	7.37	7.25	7.54	7.43
γ 168.0	7.43	7.29	7.57	7.49
γ 169.0	7.49	7.35	7.62	7.53
γ 170.0	7.54	7.41	7.66	7.56
γ 171.0	7.59	7.45	7.70	7.61
γ 172.0	7.65	7.51	7.74	7.65
γ 173.0	7.70	7.55	7.78	7.69
γ 174.0	7.74	7.60	7.82	7.72
γ 175.0	7.79	7.64	7.85	7.75
γ 176.0	7.83	7.69	7.88	7.80
γ 177.0	7.85	7.73	7.89	7.82
γ 178.0	7.88	7.76	7.92	7.85
γ 179.0	7.91	7.78	7.93	7.87
γ 180.0	7.90	7.90	7.90	7.90
