

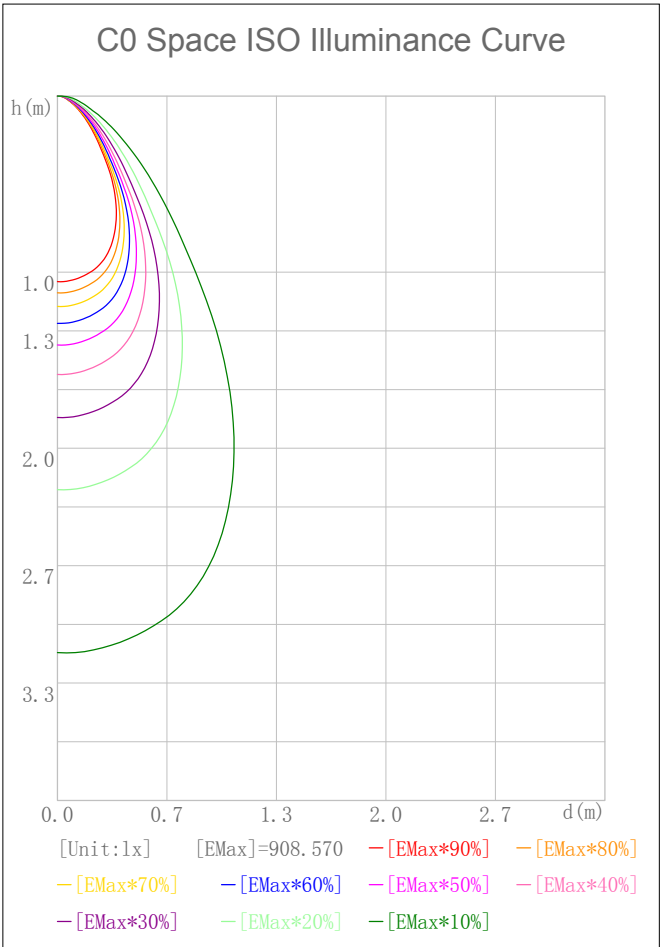
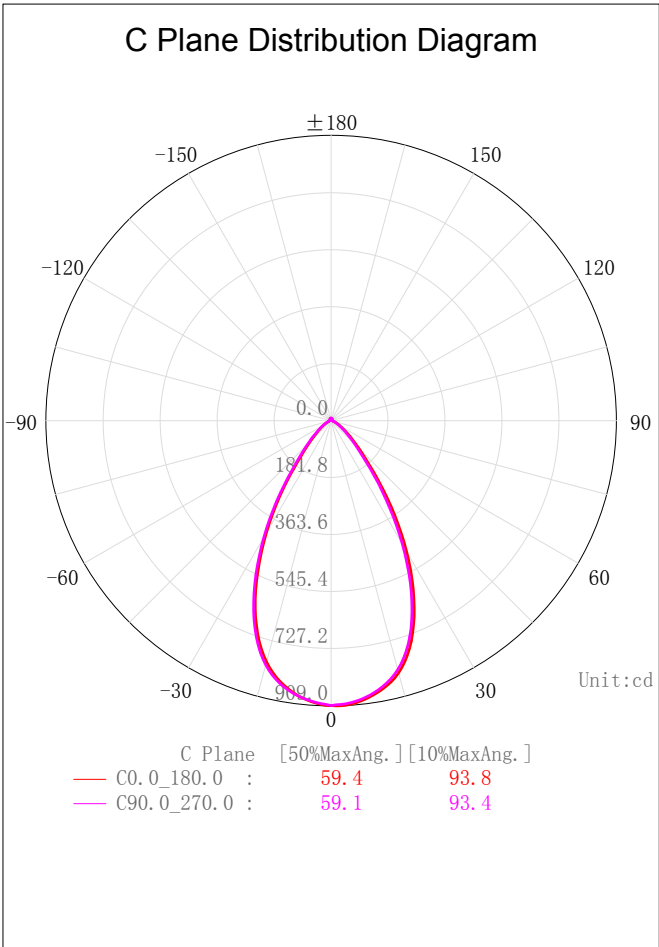
Indoor Luminaire Photometric Data

Description Information

Luminary Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2020/01/08
Manufacture: Shenzhen Norming Lighting Co., Ltd	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): 949.510	Luminary Flux(lm): 949.514	Field Angle(10%Imax): 93.8(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 921.622lm 97.06%
Rated Voltage(V):	Luminary EER(lm/W): 90.689	Up Lumens&Percent: 27.893lm 2.94%
Tested Power(W): 10.470	Max. Candela(cd): 908.985	S/MH: C0_a180=0.916 C90_270=0.913
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): 59.4(°)	ErP Φ use(90°): 810.032lm
Lamp Size(W*L*H):0.498m*0.498m*0.750m	Left=-28.6°, Right=30.9°	IRF(%): 214.662



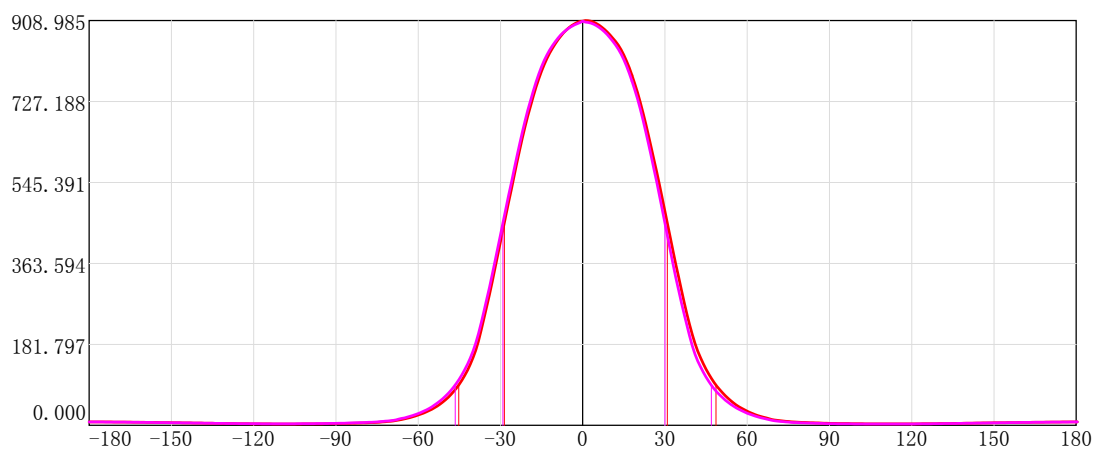
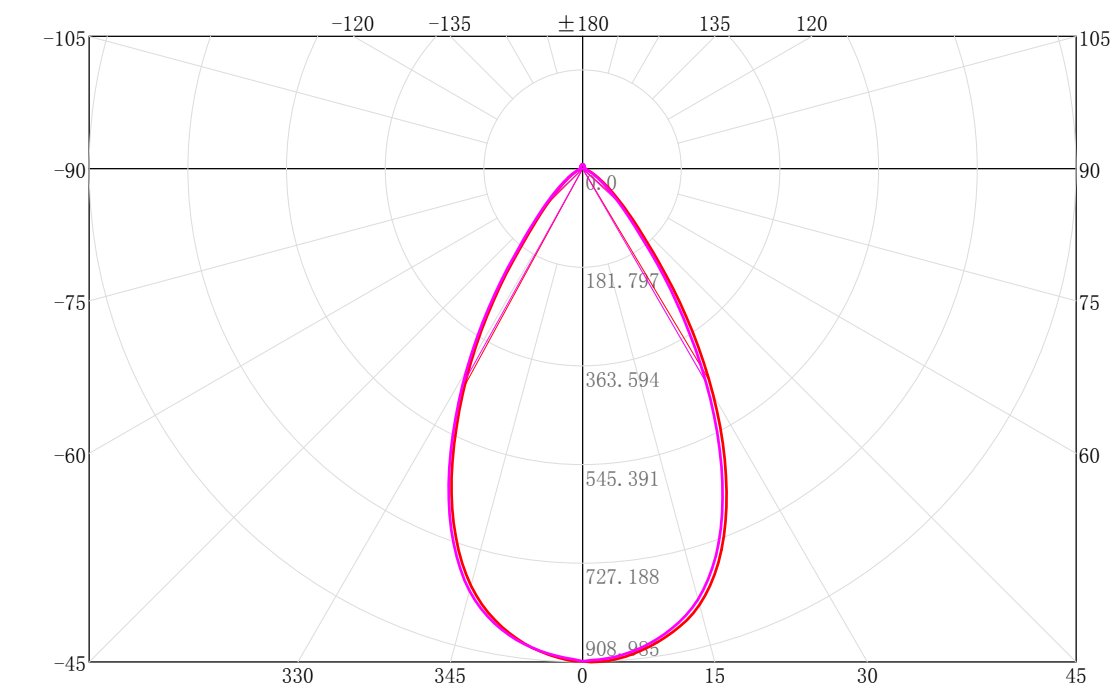
# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

## 2D Plane Light Intensity Distribution Curve

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

C Plane Distribution Diagram



C Plane [50%MaxAng.] [10%MaxAng.]  
— C0.0\_180.0 : 59.4 93.8  
— C90.0\_270.0 : 59.1 93.4

Unit:cd

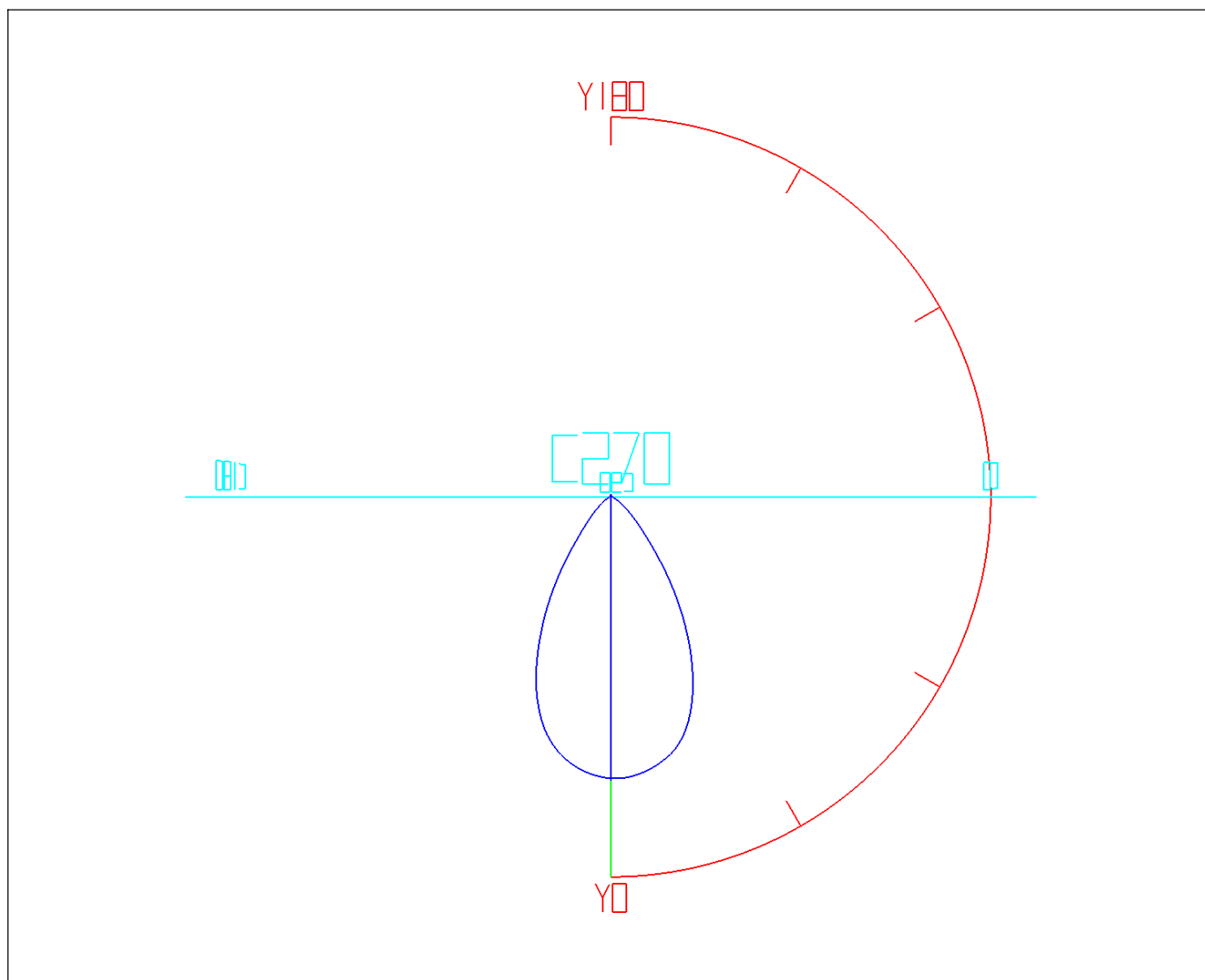
# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

## 3D Light Intensity Distribution Modal

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

## 3D Light Intensity Distribution Modal



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

Zonal Flux Tabulation

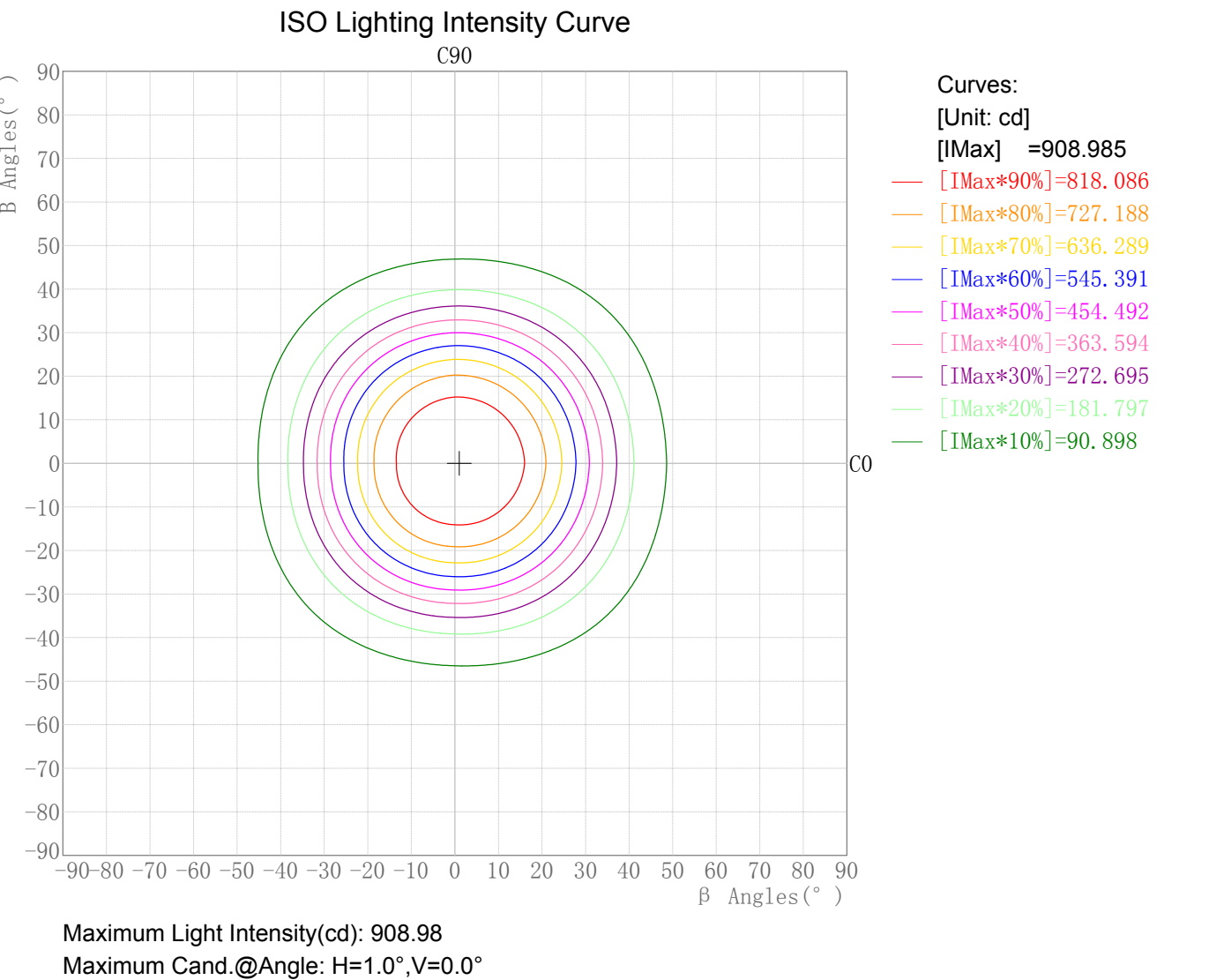
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.87	0.87	0.09	0.09	47.0-48.0	6.92	837.73	0.73	88.23
1.0-2.0	2.60	3.47	0.27	0.37	48.0-49.0	6.41	844.14	0.68	88.90
2.0-3.0	4.32	7.79	0.46	0.82	49.0-50.0	5.94	850.08	0.63	89.53
3.0-4.0	6.03	13.83	0.64	1.46	50.0-51.0	5.50	855.58	0.58	90.11
4.0-5.0	7.73	21.55	0.81	2.27	51.0-52.0	5.09	860.67	0.54	90.64
5.0-6.0	9.40	30.95	0.99	3.26	52.0-53.0	4.72	865.39	0.50	91.14
6.0-7.0	11.04	41.99	1.16	4.42	53.0-54.0	4.36	869.75	0.46	91.60
7.0-8.0	12.65	54.64	1.33	5.75	54.0-55.0	4.03	873.78	0.42	92.02
8.0-9.0	14.22	68.86	1.50	7.25	55.0-56.0	3.72	877.50	0.39	92.42
9.0-10.0	15.75	84.60	1.66	8.91	56.0-57.0	3.44	880.94	0.36	92.78
10.0-11.0	17.23	101.84	1.81	10.73	57.0-58.0	3.17	884.11	0.33	93.11
11.0-12.0	18.66	120.49	1.97	12.69	58.0-59.0	2.93	887.04	0.31	93.42
12.0-13.0	20.02	140.52	2.11	14.80	59.0-60.0	2.71	889.75	0.29	93.71
13.0-14.0	21.31	161.83	2.24	17.04	60.0-61.0	2.50	892.25	0.26	93.97
14.0-15.0	22.52	184.35	2.37	19.42	61.0-62.0	2.30	894.55	0.24	94.21
15.0-16.0	23.61	207.96	2.49	21.90	62.0-63.0	2.12	896.67	0.22	94.43
16.0-17.0	24.59	232.55	2.59	24.49	63.0-64.0	1.95	898.62	0.21	94.64
17.0-18.0	25.45	258.00	2.68	27.17	64.0-65.0	1.79	900.41	0.19	94.83
18.0-19.0	26.18	284.18	2.76	29.93	65.0-66.0	1.65	902.06	0.17	95.00
19.0-20.0	26.77	310.96	2.82	32.75	66.0-67.0	1.52	903.57	0.16	95.16
20.0-21.0	27.23	338.19	2.87	35.62	67.0-68.0	1.38	904.96	0.15	95.31
21.0-22.0	27.53	365.72	2.90	38.52	68.0-69.0	1.25	906.21	0.13	95.44
22.0-23.0	27.68	393.40	2.92	41.43	69.0-70.0	1.15	907.35	0.12	95.56
23.0-24.0	27.68	421.08	2.91	44.35	70.0-71.0	1.08	908.43	0.11	95.67
24.0-25.0	27.52	448.60	2.90	47.25	71.0-72.0	1.01	909.44	0.11	95.78
25.0-26.0	27.22	475.82	2.87	50.11	72.0-73.0	0.96	910.40	0.10	95.88
26.0-27.0	26.79	502.61	2.82	52.93	73.0-74.0	0.90	911.30	0.09	95.98
27.0-28.0	26.23	528.83	2.76	55.70	74.0-75.0	0.85	912.15	0.09	96.07
28.0-29.0	25.55	554.38	2.69	58.39	75.0-76.0	0.81	912.95	0.08	96.15
29.0-30.0	24.75	579.13	2.61	60.99	76.0-77.0	0.77	913.72	0.08	96.23
30.0-31.0	23.83	602.97	2.51	63.50	77.0-78.0	0.74	914.46	0.08	96.31
31.0-32.0	22.82	625.78	2.40	65.91	78.0-79.0	0.71	915.17	0.08	96.38
32.0-33.0	21.70	647.48	2.29	68.19	79.0-80.0	0.69	915.86	0.07	96.46
33.0-34.0	20.50	667.99	2.16	70.35	80.0-81.0	0.67	916.53	0.07	96.53
34.0-35.0	19.26	687.25	2.03	72.38	81.0-82.0	0.65	917.18	0.07	96.59
35.0-36.0	17.98	705.23	1.89	74.27	82.0-83.0	0.62	917.80	0.07	96.66
36.0-37.0	16.68	721.91	1.76	76.03	83.0-84.0	0.61	918.40	0.06	96.72
37.0-38.0	15.37	737.28	1.62	77.65	84.0-85.0	0.59	918.99	0.06	96.79
38.0-39.0	14.09	751.37	1.48	79.13	85.0-86.0	0.57	919.56	0.06	96.85
39.0-40.0	12.92	764.29	1.36	80.49	86.0-87.0	0.55	920.10	0.06	96.90
40.0-41.0	11.87	776.16	1.25	81.74	87.0-88.0	0.52	920.63	0.06	96.96
41.0-42.0	10.95	787.11	1.15	82.90	88.0-89.0	0.50	921.13	0.05	97.01
42.0-43.0	10.12	797.23	1.07	83.96	89.0-90.0	0.49	921.62	0.05	97.06
43.0-44.0	9.37	806.60	0.99	84.95	90.0-91.0	0.48	922.10	0.05	97.11
44.0-45.0	8.68	815.29	0.91	85.86	91.0-92.0	0.47	922.57	0.05	97.16
45.0-46.0	8.05	823.34	0.85	86.71	92.0-93.0	0.46	923.03	0.05	97.21
46.0-47.0	7.47	830.81	0.79	87.50	93.0-94.0	0.45	923.48	0.05	97.26

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	0.44	923.92	0.05	97.30	141.0-142.0	0.36	940.99	0.04	99.10
95.0-96.0	0.43	924.35	0.05	97.35	142.0-143.0	0.36	941.35	0.04	99.14
96.0-97.0	0.42	924.77	0.04	97.39	143.0-144.0	0.36	941.70	0.04	99.18
97.0-98.0	0.42	925.19	0.04	97.44	144.0-145.0	0.35	942.06	0.04	99.21
98.0-99.0	0.41	925.60	0.04	97.48	145.0-146.0	0.35	942.41	0.04	99.25
99.0-100.0	0.40	926.00	0.04	97.52	146.0-147.0	0.35	942.76	0.04	99.29
100.0-101.0	0.40	926.40	0.04	97.57	147.0-148.0	0.34	943.10	0.04	99.32
101.0-102.0	0.39	926.79	0.04	97.61	148.0-149.0	0.34	943.44	0.04	99.36
102.0-103.0	0.38	927.17	0.04	97.65	149.0-150.0	0.33	943.77	0.04	99.40
103.0-104.0	0.38	927.55	0.04	97.69	150.0-151.0	0.33	944.10	0.03	99.43
104.0-105.0	0.37	927.92	0.04	97.73	151.0-152.0	0.32	944.43	0.03	99.46
105.0-106.0	0.37	928.29	0.04	97.76	152.0-153.0	0.32	944.75	0.03	99.50
106.0-107.0	0.36	928.65	0.04	97.80	153.0-154.0	0.31	945.06	0.03	99.53
107.0-108.0	0.36	929.01	0.04	97.84	154.0-155.0	0.30	945.36	0.03	99.56
108.0-109.0	0.36	929.36	0.04	97.88	155.0-156.0	0.30	945.66	0.03	99.59
109.0-110.0	0.35	929.72	0.04	97.92	156.0-157.0	0.29	945.94	0.03	99.62
110.0-111.0	0.35	930.07	0.04	97.95	157.0-158.0	0.28	946.22	0.03	99.65
111.0-112.0	0.35	930.41	0.04	97.99	158.0-159.0	0.27	946.49	0.03	99.68
112.0-113.0	0.35	930.76	0.04	98.03	159.0-160.0	0.26	946.76	0.03	99.71
113.0-114.0	0.34	931.10	0.04	98.06	160.0-161.0	0.25	947.01	0.03	99.74
114.0-115.0	0.34	931.45	0.04	98.10	161.0-162.0	0.24	947.25	0.03	99.76
115.0-116.0	0.34	931.79	0.04	98.13	162.0-163.0	0.23	947.48	0.02	99.79
116.0-117.0	0.34	932.13	0.04	98.17	163.0-164.0	0.22	947.70	0.02	99.81
117.0-118.0	0.34	932.47	0.04	98.21	164.0-165.0	0.21	947.91	0.02	99.83
118.0-119.0	0.34	932.82	0.04	98.24	165.0-166.0	0.20	948.11	0.02	99.85
119.0-120.0	0.34	933.16	0.04	98.28	166.0-167.0	0.19	948.30	0.02	99.87
120.0-121.0	0.34	933.50	0.04	98.31	167.0-168.0	0.17	948.47	0.02	99.89
121.0-122.0	0.34	933.85	0.04	98.35	168.0-169.0	0.16	948.63	0.02	99.91
122.0-123.0	0.35	934.19	0.04	98.39	169.0-170.0	0.15	948.78	0.02	99.92
123.0-124.0	0.35	934.54	0.04	98.42	170.0-171.0	0.14	948.92	0.01	99.94
124.0-125.0	0.35	934.89	0.04	98.46	171.0-172.0	0.12	949.04	0.01	99.95
125.0-126.0	0.35	935.24	0.04	98.50	172.0-173.0	0.11	949.15	0.01	99.96
126.0-127.0	0.35	935.59	0.04	98.53	173.0-174.0	0.10	949.25	0.01	99.97
127.0-128.0	0.35	935.94	0.04	98.57	174.0-175.0	0.08	949.33	0.01	99.98
128.0-129.0	0.35	936.30	0.04	98.61	175.0-176.0	0.07	949.40	0.01	99.99
129.0-130.0	0.36	936.65	0.04	98.65	176.0-177.0	0.05	949.45	0.01	99.99
130.0-131.0	0.36	937.01	0.04	98.68	177.0-178.0	0.04	949.48	0.00	100.00
131.0-132.0	0.36	937.37	0.04	98.72	178.0-179.0	0.02	949.51	0.00	100.00
132.0-133.0	0.36	937.73	0.04	98.76	179.0-180.0	0.01	949.51	0.00	100.00
133.0-134.0	0.36	938.09	0.04	98.80					
134.0-135.0	0.36	938.45	0.04	98.84					
135.0-136.0	0.36	938.81	0.04	98.87					
136.0-137.0	0.36	939.18	0.04	98.91					
137.0-138.0	0.36	939.54	0.04	98.95					
138.0-139.0	0.36	939.90	0.04	98.99					
139.0-140.0	0.36	940.27	0.04	99.03					
140.0-141.0	0.36	940.63	0.04	99.06					

Rectangle ISO Lighting Intensity Diagram

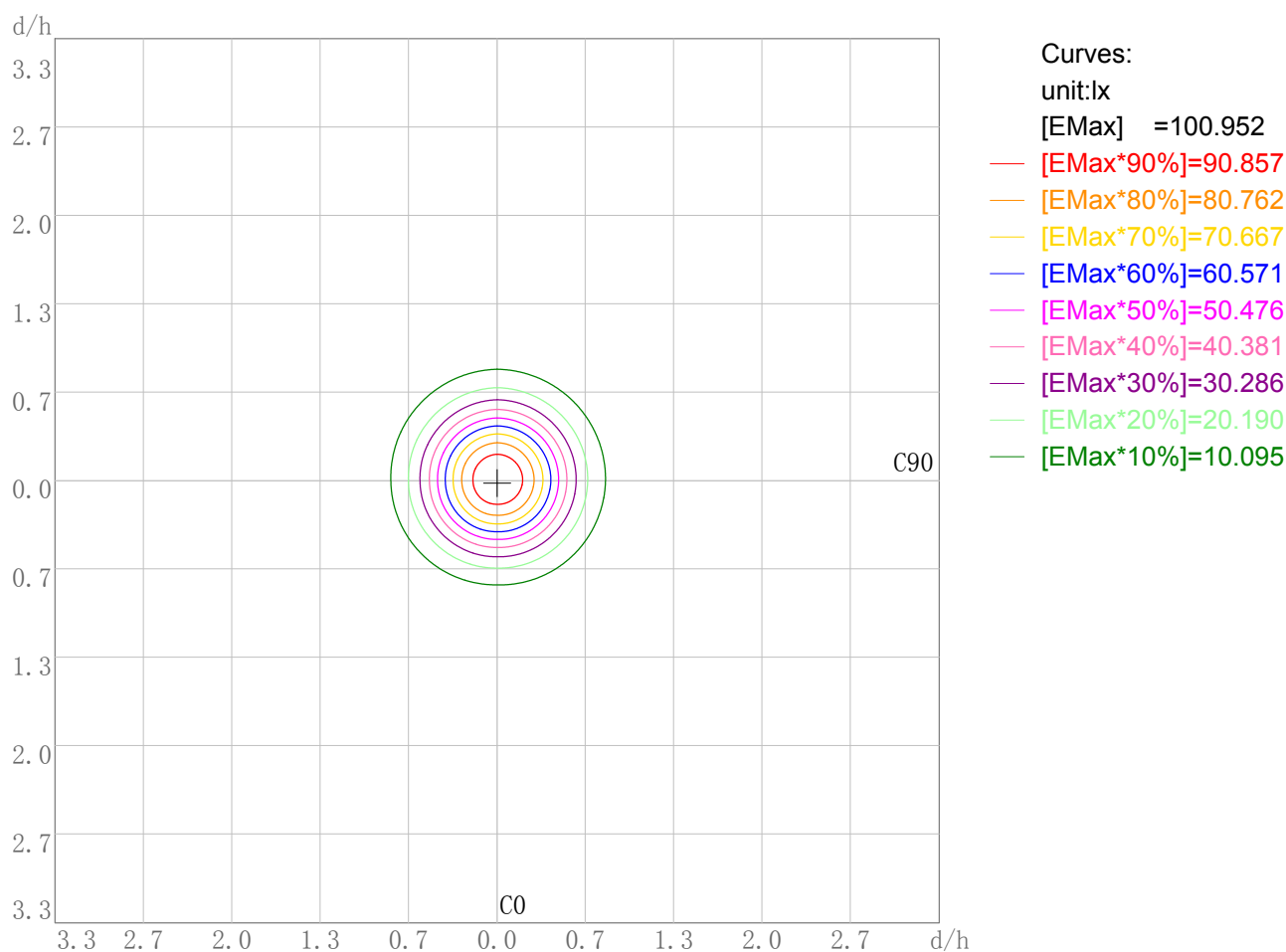
Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08



## Plane ISO-Illuminance Diagram

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

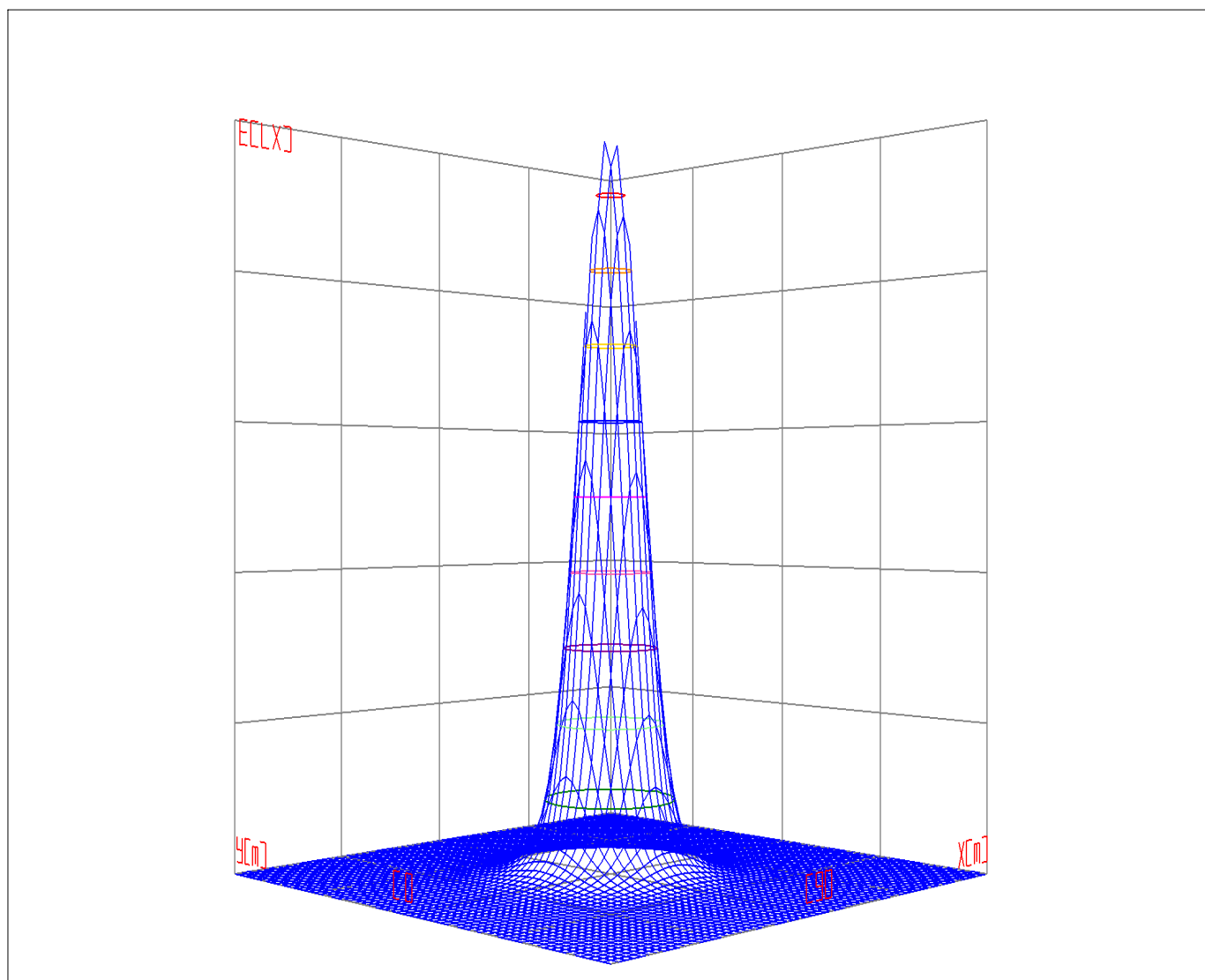
## Plane ISO-Illuminance Curve



### 3D Plane ISO Illuminance Diagram

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

### 3D Plane Illuminance Modal



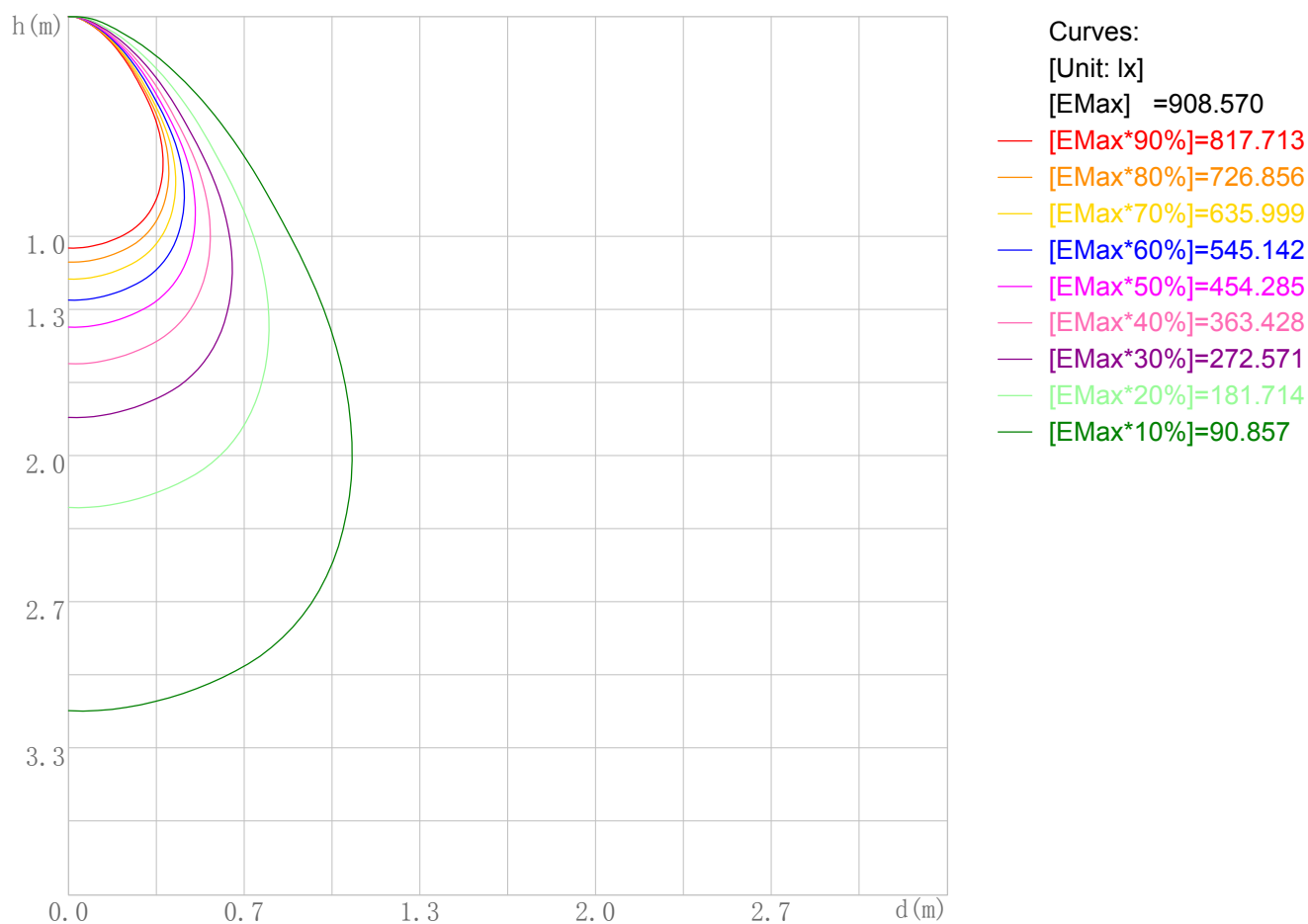
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
 View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0



## Space ISO Illuminance Diagram

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

## Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:908.57lx,1.0deg

Plane Maximum Lighting Intensity and @Angle:908.985cd,0deg

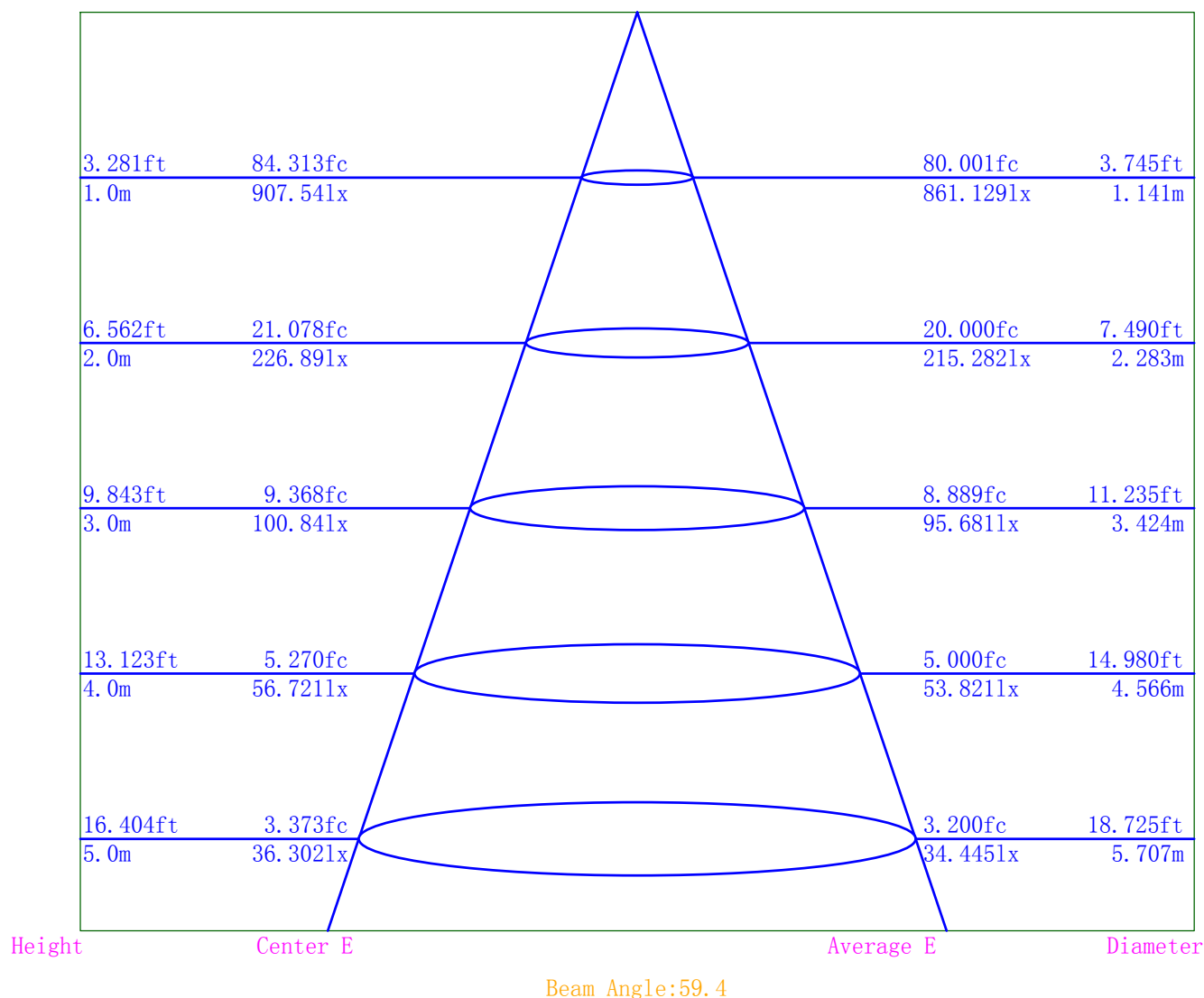
# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

## Illuminance-Distance Diagram

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

Illuminance-Distance Curve



# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

## Indoor Luminance Limiting Curves

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

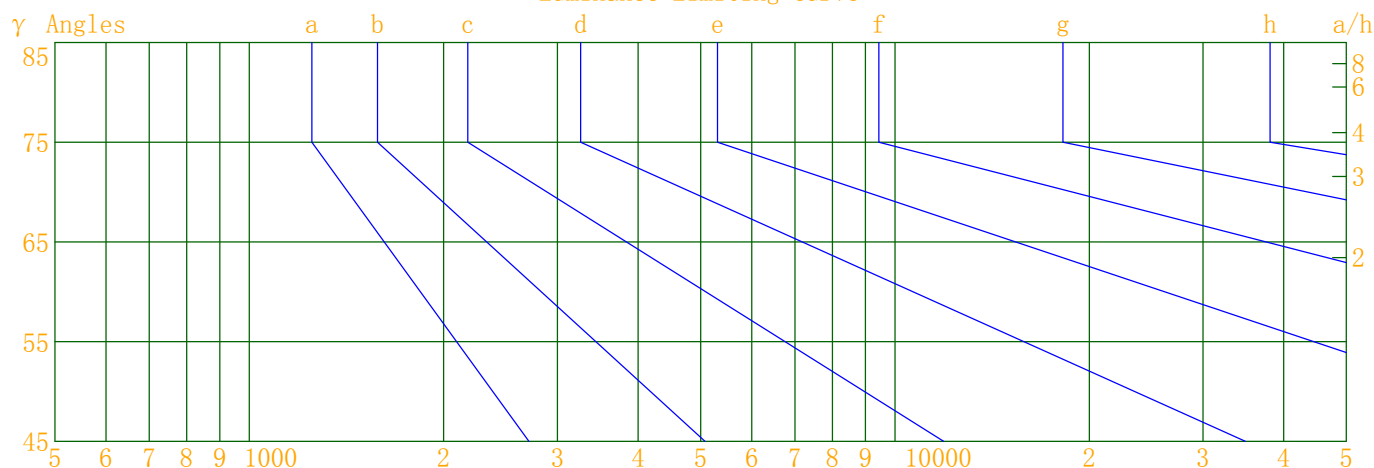
Glare Grade Table

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	287	200	142	103	77	58	55	65	108
C90	247	171	121	88	65	49	46	54	90

Luminance Limiting Curve



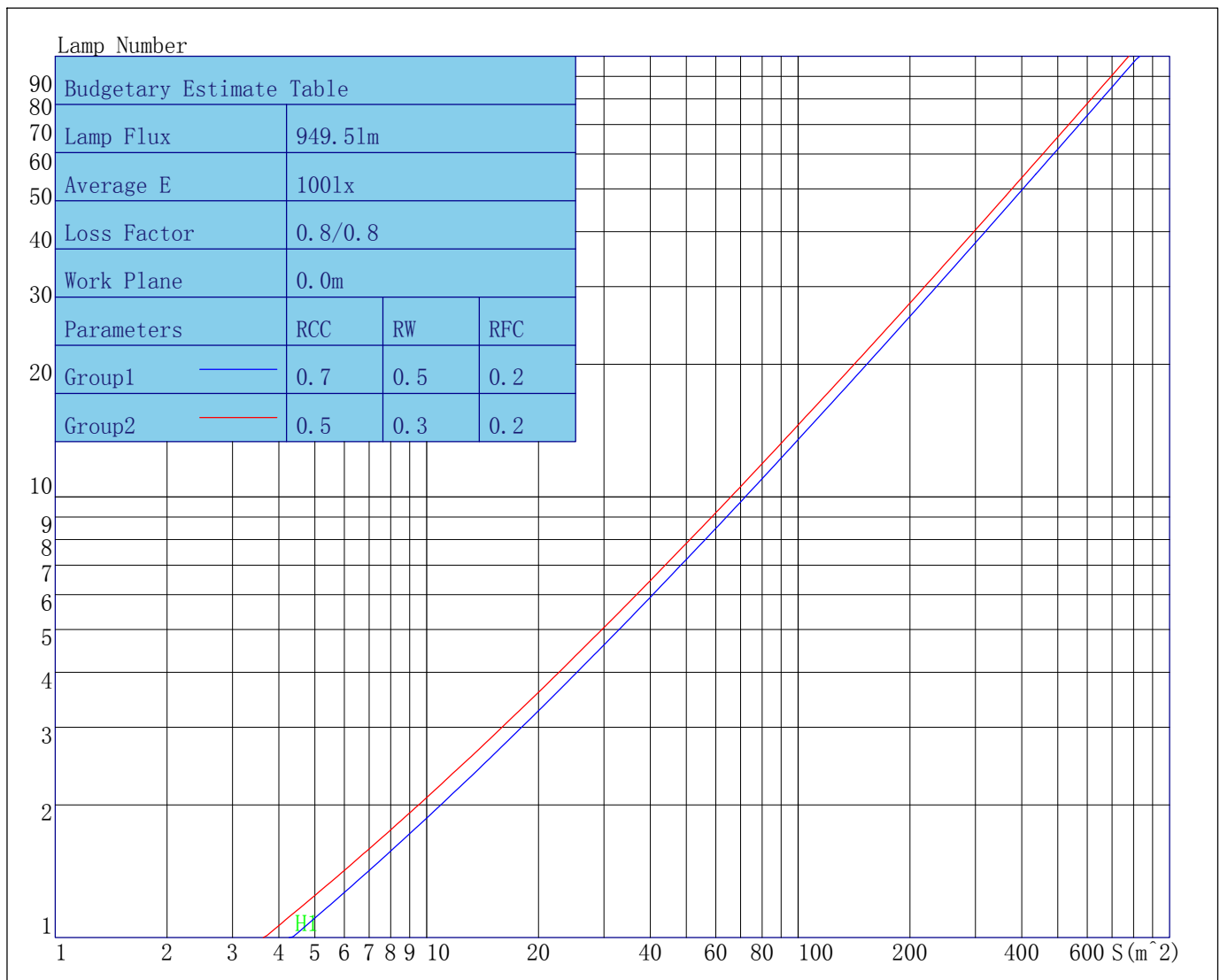
Luminous Size: Length(m)=0.498 Width(m)=0.498 Height(m)=0.750 Area(m^2)=0.621504  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

## Indoor Budgetary Estimate Table

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08



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: MD10-13-TW-01 2700K RA90 60D	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

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	109	109	109	104	104	104	99	99	99	97
1	112	109	106	103	109	106	104	101	102	100	98	97	96	94	93	92	91	89
2	105	100	95	92	103	98	94	90	94	91	88	91	88	86	88	85	83	81
3	99	92	87	82	97	91	85	81	87	83	80	85	81	78	82	79	76	75
4	94	85	79	75	92	84	78	74	81	77	73	79	75	72	77	73	70	69
5	88	79	73	68	87	78	72	68	76	71	67	74	69	66	72	68	65	63
6	84	74	67	63	82	73	67	62	71	66	62	69	65	61	68	64	60	59
7	79	69	62	58	78	68	62	58	67	61	57	65	60	57	64	59	56	55
8	75	65	58	54	74	64	58	54	63	57	53	61	56	53	60	56	52	51
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	52	49	47
10	68	57	51	47	66	57	51	47	56	50	46	55	50	46	54	49	46	45

# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

## Unified Glare Rating Table

Lum. Name: MD10-13-TW-01 2700K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2020/01/08

## 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 Y=3H Y=4H Y=6H Y=8H Y=12H	4.3	5.4	4.8	5.8	6.2	3.7	4.8	4.1	5.2	5.5
	4.4	5.4	4.9	5.8	6.2	3.8	4.7	4.2	5.1	5.5
	4.5	5.3	4.9	5.8	6.2	3.8	4.7	4.2	5.1	5.5
	4.5	5.3	5.0	5.8	6.2	3.8	4.6	4.3	5.1	5.5
	4.6	5.3	5.0	5.8	6.3	3.8	4.6	4.3	5.1	5.5
	4.6	5.4	5.1	5.8	6.3	3.9	4.6	4.4	5.1	5.6
X=4H    Y=2H Y=3H Y=4H Y=6H Y=8H Y=12H	4.3	5.2	4.7	5.6	6.0	3.6	4.5	4.1	4.9	5.4
	4.4	5.2	4.9	5.6	6.1	3.8	4.5	4.2	5.0	5.4
	4.5	5.2	5.0	5.6	6.1	3.8	4.5	4.3	4.9	5.5
	4.6	5.2	5.2	5.7	6.3	3.9	4.5	4.5	5.0	5.5
	4.7	5.3	5.3	5.8	6.3	4.0	4.5	4.5	5.1	5.6
	4.9	5.4	5.5	5.9	6.5	4.2	4.6	4.7	5.2	5.7
X=8H    Y=4H Y=6H Y=8H Y=12H	4.4	5.0	5.0	5.5	6.0	3.8	4.3	4.3	4.8	5.3
	4.7	5.1	5.2	5.6	6.2	4.0	4.4	4.5	4.9	5.5
	4.8	5.2	5.4	5.8	6.4	4.1	4.5	4.7	5.1	5.6
	5.2	5.5	5.7	6.1	6.7	4.4	4.7	5.0	5.3	5.9
X=12H    Y=4H Y=6H Y=8H	4.4	4.9	4.9	5.4	5.9	3.7	4.2	4.3	4.7	5.3
	4.7	5.0	5.2	5.6	6.2	4.0	4.3	4.5	4.9	5.5
	4.9	5.2	5.5	5.8	6.4	4.2	4.5	4.7	5.1	5.7
Variations with the objerver position at spacings										
S=1.0H	0.1/-0.1					0.2/-0.2				
S=1.5H	0.3/-0.3					0.4/-0.3				
S=2.0H	0.9/-0.6					0.9/-0.6				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	1.0					1.0				

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

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	907.54	907.54	907.54	907.54
γ 1.0	908.98	905.47	907.25	904.17
γ 2.0	908.78	904.75	904.74	901.97
γ 3.0	907.72	903.29	901.42	899.12
γ 4.0	905.34	900.77	897.57	895.84
γ 5.0	902.30	897.50	892.75	891.94
γ 6.0	898.42	893.54	887.57	887.41
γ 7.0	893.89	888.97	881.40	882.35
γ 8.0	888.82	883.49	873.95	876.48
γ 9.0	883.03	877.31	865.94	869.45
γ 10.0	876.54	870.30	857.01	861.69
γ 11.0	869.49	862.67	847.03	852.94
γ 12.0	861.87	854.19	836.17	842.98
γ 13.0	853.58	844.70	823.84	831.81
γ 14.0	843.65	833.81	810.19	819.39
γ 15.0	831.75	821.34	795.24	805.06
γ 16.0	818.09	806.87	778.17	788.92
γ 17.0	803.19	790.83	759.78	770.90
γ 18.0	786.28	773.21	739.47	751.23
γ 19.0	767.64	754.10	717.45	729.90
γ 20.0	747.41	733.08	694.53	707.40
γ 21.0	725.38	710.26	670.35	683.46
γ 22.0	702.11	685.89	644.73	658.07
γ 23.0	677.45	659.79	617.74	631.40
γ 24.0	651.39	632.72	589.50	603.57
γ 25.0	624.32	604.86	559.97	574.84
γ 26.0	596.98	575.90	530.13	545.49
γ 27.0	568.81	546.15	500.43	515.81
γ 28.0	539.95	515.72	470.91	486.24
γ 29.0	510.40	485.07	441.31	456.48
γ 30.0	480.67	454.08	411.54	426.92
γ 31.0	450.75	422.88	381.70	397.44
γ 32.0	420.90	391.98	351.97	367.99
γ 33.0	390.90	361.33	322.39	338.73
γ 34.0	361.58	331.54	293.74	309.99
γ 35.0	332.78	302.80	266.02	282.33
γ 36.0	304.27	275.66	239.52	255.85
γ 37.0	276.68	250.00	213.79	230.11
γ 38.0	250.58	225.19	189.09	206.03
γ 39.0	226.31	200.98	168.59	184.79
γ 40.0	203.92	178.52	151.81	166.85
γ 41.0	183.85	160.03	137.20	151.30
γ 42.0	166.53	144.61	124.10	137.55
γ 43.0	151.57	131.11	112.27	125.15
γ 44.0	138.19	119.11	101.75	113.94
γ 45.0	126.18	108.43	92.48	103.83
γ 46.0	115.29	98.79	84.14	94.72

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	105.23	89.93	76.53	86.47
γ 48.0	96.03	81.92	69.59	79.06
γ 49.0	87.64	74.75	63.29	72.20
γ 50.0	80.05	68.30	57.65	65.85
γ 51.0	73.20	62.38	52.49	60.10
γ 52.0	66.92	56.93	47.80	54.95
γ 53.0	61.12	51.97	43.62	50.27
γ 54.0	55.73	47.40	39.84	45.93
γ 55.0	50.69	43.30	36.43	41.83
γ 56.0	46.08	39.56	33.29	38.23
γ 57.0	41.91	36.14	30.43	34.95
γ 58.0	38.33	33.01	27.83	31.89
γ 59.0	35.08	30.14	25.46	29.15
γ 60.0	31.98	27.46	23.23	26.74
γ 61.0	29.15	25.05	21.22	24.44
γ 62.0	26.59	22.89	19.41	22.29
γ 63.0	24.21	20.89	17.70	20.37
γ 64.0	22.08	18.99	16.07	18.53
γ 65.0	20.26	17.20	14.62	16.99
γ 66.0	18.32	15.64	13.38	15.72
γ 67.0	16.90	14.26	12.32	14.24
γ 68.0	15.04	12.95	11.00	12.59
γ 69.0	13.39	11.37	9.99	11.55
γ 70.0	12.34	10.38	9.37	10.85
γ 71.0	11.54	9.70	8.83	10.21
γ 72.0	10.79	9.09	8.29	9.61
γ 73.0	10.07	8.49	7.78	9.03
γ 74.0	9.40	7.93	7.32	8.48
γ 75.0	8.81	7.39	6.93	8.03
γ 76.0	8.31	6.96	6.61	7.67
γ 77.0	7.92	6.60	6.33	7.33
γ 78.0	7.57	6.30	6.11	7.08
γ 79.0	7.25	6.05	5.89	6.83
γ 80.0	6.98	5.83	5.69	6.59
γ 81.0	6.72	5.61	5.50	6.38
γ 82.0	6.47	5.41	5.31	6.18
γ 83.0	6.25	5.22	5.14	5.98
γ 84.0	6.04	5.04	4.97	5.79
γ 85.0	5.83	4.87	4.82	5.61
γ 86.0	5.62	4.70	4.64	5.42
γ 87.0	5.42	4.51	4.43	5.18
γ 88.0	5.16	4.29	4.25	4.98
γ 89.0	4.96	4.12	4.15	4.87
γ 90.0	4.82	4.01	4.07	4.75
γ 91.0	4.70	3.92	4.00	4.66
γ 92.0	4.59	3.84	3.93	4.57
γ 93.0	4.48	3.76	3.87	4.47



# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

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## Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	4.39	3.69	3.80	4.39
γ 95.0	4.30	3.62	3.74	4.31
γ 96.0	4.21	3.56	3.68	4.23
γ 97.0	4.14	3.50	3.64	4.16
γ 98.0	4.06	3.44	3.59	4.10
γ 99.0	3.99	3.40	3.55	4.04
γ 100.0	3.92	3.35	3.51	3.98
γ 101.0	3.86	3.29	3.47	3.93
γ 102.0	3.81	3.26	3.43	3.88
γ 103.0	3.76	3.22	3.41	3.84
γ 104.0	3.71	3.19	3.39	3.80
γ 105.0	3.67	3.17	3.37	3.77
γ 106.0	3.63	3.15	3.36	3.74
γ 107.0	3.59	3.12	3.35	3.70
γ 108.0	3.56	3.11	3.34	3.69
γ 109.0	3.54	3.11	3.34	3.68
γ 110.0	3.51	3.10	3.35	3.67
γ 111.0	3.51	3.10	3.36	3.66
γ 112.0	3.50	3.11	3.38	3.66
γ 113.0	3.48	3.12	3.40	3.67
γ 114.0	3.49	3.12	3.42	3.68
γ 115.0	3.50	3.15	3.45	3.69
γ 116.0	3.51	3.17	3.49	3.72
γ 117.0	3.53	3.21	3.53	3.75
γ 118.0	3.55	3.24	3.57	3.78
γ 119.0	3.58	3.28	3.63	3.81
γ 120.0	3.61	3.32	3.67	3.85
γ 121.0	3.64	3.37	3.73	3.89
γ 122.0	3.68	3.42	3.79	3.94
γ 123.0	3.73	3.48	3.86	4.00
γ 124.0	3.78	3.54	3.92	4.05
γ 125.0	3.83	3.60	4.00	4.11
γ 126.0	3.89	3.67	4.07	4.17
γ 127.0	3.95	3.73	4.15	4.23
γ 128.0	4.02	3.82	4.23	4.32
γ 129.0	4.08	3.89	4.32	4.39
γ 130.0	4.16	3.96	4.39	4.47
γ 131.0	4.23	4.05	4.48	4.53
γ 132.0	4.30	4.13	4.57	4.63
γ 133.0	4.38	4.22	4.67	4.72
γ 134.0	4.47	4.31	4.76	4.80
γ 135.0	4.56	4.39	4.86	4.88
γ 136.0	4.65	4.49	4.95	4.96
γ 137.0	4.72	4.58	5.05	5.05
γ 138.0	4.82	4.68	5.14	5.14
γ 139.0	4.91	4.77	5.24	5.23
γ 140.0	5.01	4.87	5.34	5.32

# IES Indoor Report

Photometric Filename:MD10-13-TW-01 2700K RA90 60D.IES

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## Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	5.09	4.96	5.44	5.42
γ 142.0	5.20	5.06	5.54	5.51
γ 143.0	5.28	5.15	5.64	5.60
γ 144.0	5.37	5.26	5.74	5.69
γ 145.0	5.47	5.35	5.83	5.78
γ 146.0	5.58	5.45	5.93	5.86
γ 147.0	5.67	5.55	6.02	5.95
γ 148.0	5.76	5.64	6.11	6.04
γ 149.0	5.85	5.74	6.20	6.11
γ 150.0	5.94	5.82	6.28	6.19
γ 151.0	6.03	5.92	6.36	6.28
γ 152.0	6.11	6.01	6.45	6.35
γ 153.0	6.20	6.10	6.53	6.43
γ 154.0	6.28	6.18	6.61	6.50
γ 155.0	6.36	6.26	6.68	6.58
γ 156.0	6.44	6.34	6.77	6.64
γ 157.0	6.52	6.42	6.84	6.72
γ 158.0	6.59	6.50	6.91	6.79
γ 159.0	6.68	6.59	6.98	6.85
γ 160.0	6.75	6.66	7.05	6.93
γ 161.0	6.83	6.74	7.13	7.00
γ 162.0	6.90	6.82	7.19	7.07
γ 163.0	6.97	6.89	7.26	7.13
γ 164.0	7.05	6.97	7.31	7.19
γ 165.0	7.12	7.03	7.38	7.25
γ 166.0	7.19	7.11	7.44	7.31
γ 167.0	7.27	7.18	7.49	7.38
γ 168.0	7.33	7.23	7.55	7.44
γ 169.0	7.39	7.30	7.60	7.49
γ 170.0	7.46	7.35	7.65	7.54
γ 171.0	7.52	7.42	7.70	7.59
γ 172.0	7.58	7.47	7.74	7.63
γ 173.0	7.64	7.53	7.78	7.67
γ 174.0	7.68	7.57	7.82	7.70
γ 175.0	7.73	7.63	7.85	7.73
γ 176.0	7.77	7.67	7.86	7.77
γ 177.0	7.81	7.70	7.88	7.80
γ 178.0	7.84	7.73	7.91	7.82
γ 179.0	7.86	7.76	7.91	7.82
γ 180.0	7.86	7.86	7.86	7.86