

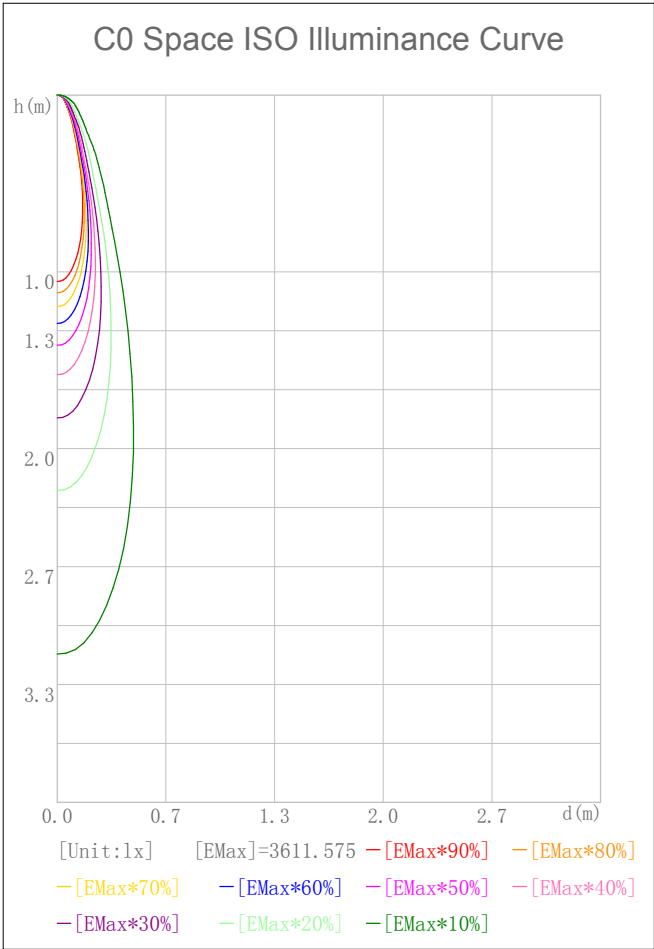
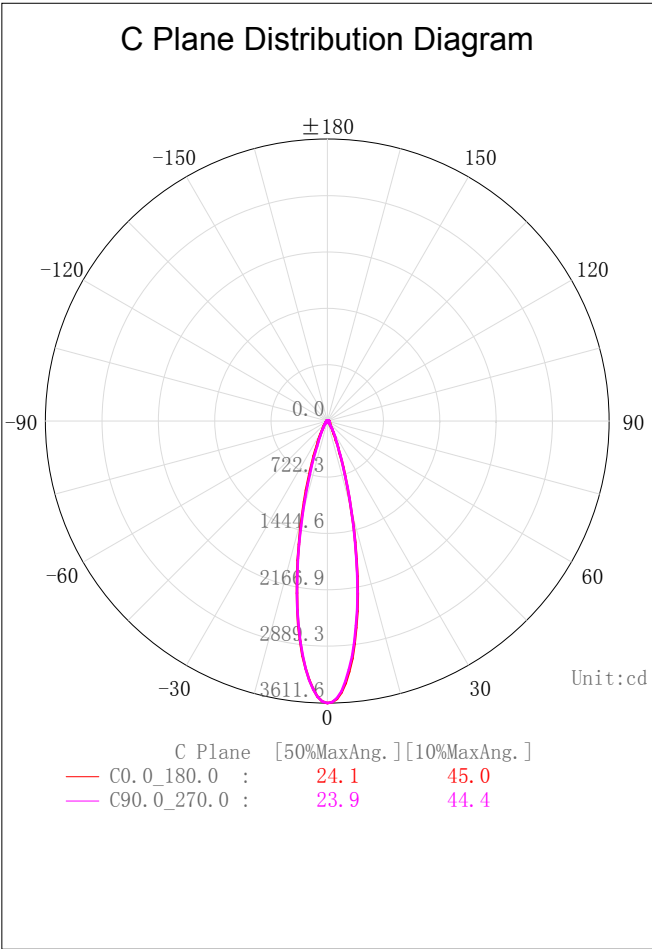
Indoor Luminaire Photometric Data

Description Information

Luminary Name: TR04-10-XX-01 4000K RA90 24D		Lum. Catalog:	Test ID: QIU MEI
Lamp Name:		Lamp Catalog: LED	Test Date: 2019/09/09
Manufacture: Shenzhen Norming Lighting Co., Ltd		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: Quality Department		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.050m*0.050m*0.125m		Lum.Area(m2):0.009	Lum.W(kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp.(°C): 25	Humidity(%): 50.0

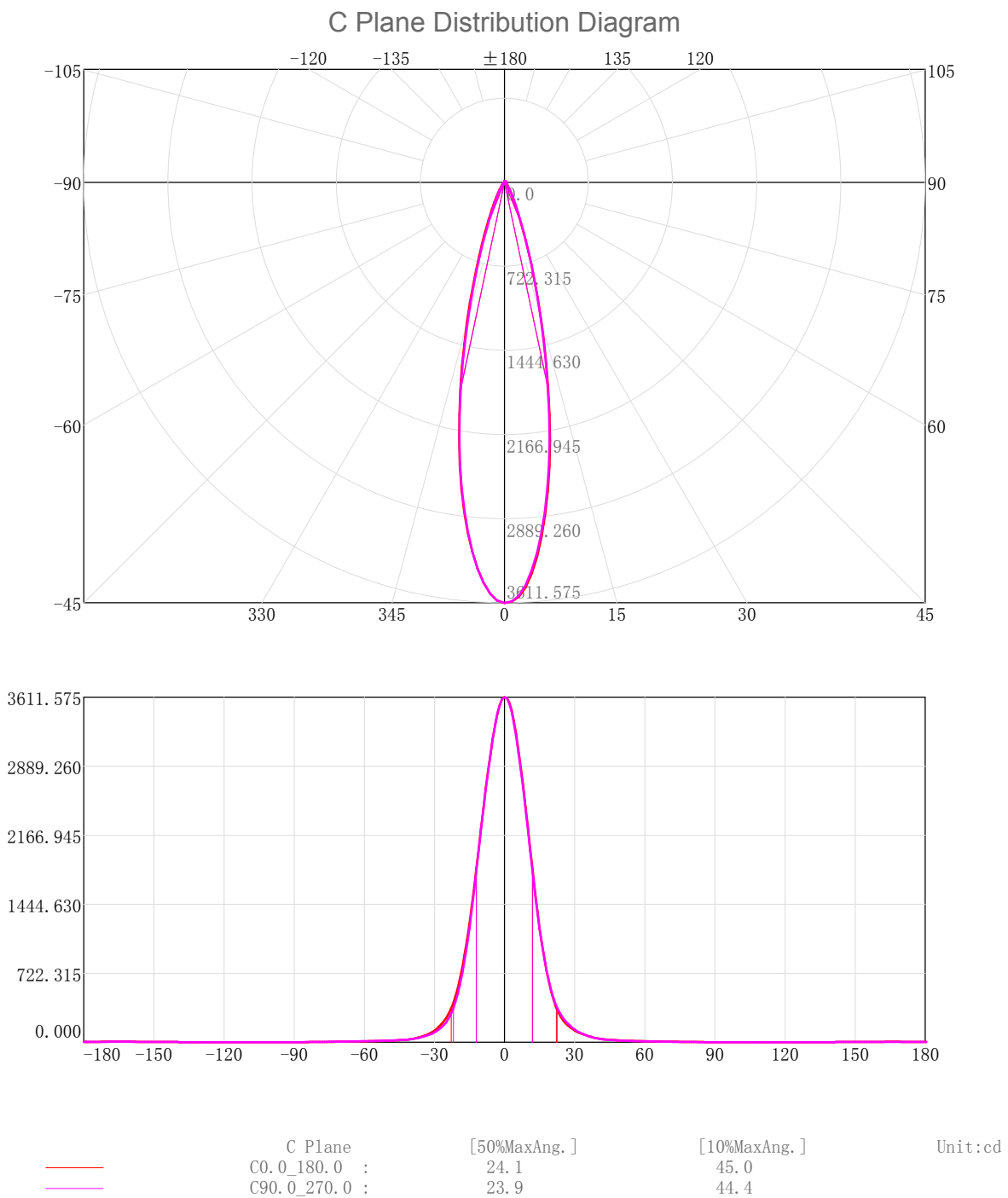
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 848.850	Luminary Flux(lm): 848.851	Field Angle(10%Imax): 45.0(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 827.150lm 97.44%	
Rated Voltage(V):	Luminary EER(lm/W): 84.463	Up Lumens&Percent: 21.701lm 2.56%	
Tested Power(W): 10.050	Max.Candela(cd): 3611.575	S/MH: C0_a180=0.407 C90_270=0.404	
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf):239.7, 0.045, 0.923		ErP Φuse(90°): 785.969lm	
Lamp Size(W*L*H):0.050m*0.050m*0.125m		IRF(%): 939.292	
		Left=-12.1°, Right=12.0°	



2D Plane Light Intensity Distribution Curve

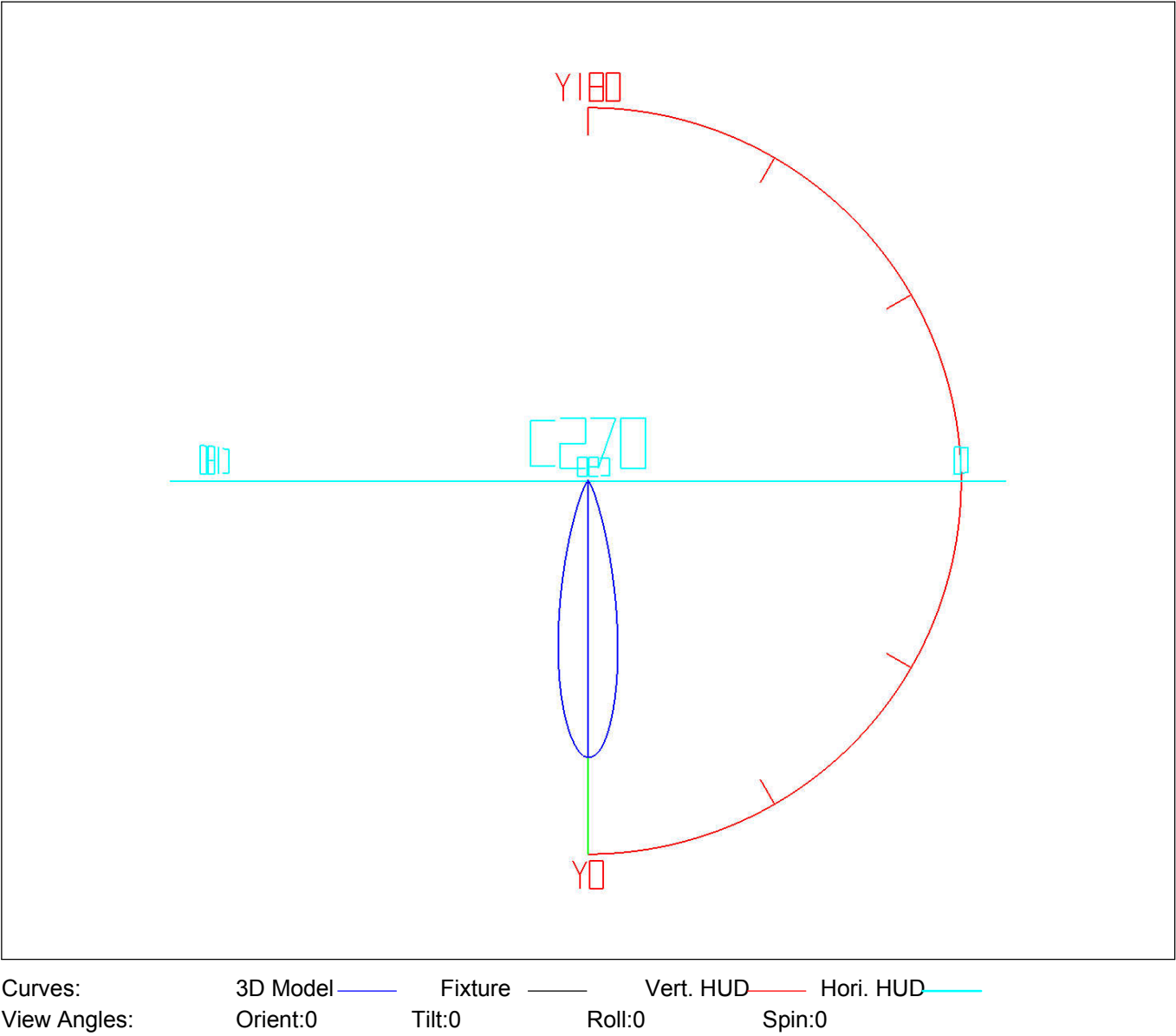
Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09



3D Light Intensity Distribution Modal

Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09

3D Light Intensity Distribution Modal



**Photometric Filename:TR04-10-XX-01 4000K RA90 24D.IES**

Zone( $\gamma$ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone( $\gamma$ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	3.45	3.45	0.41	0.41	47.0-48.0	1.78	787.97	0.21	92.83
1.0-2.0	10.25	13.69	1.21	1.61	48.0-49.0	1.71	789.69	0.20	93.03
2.0-3.0	16.74	30.43	1.97	3.59	49.0-50.0	1.64	791.32	0.19	93.22
3.0-4.0	22.75	53.18	2.68	6.27	50.0-51.0	1.57	792.89	0.18	93.41
4.0-5.0	28.11	81.29	3.31	9.58	51.0-52.0	1.51	794.40	0.18	93.59
5.0-6.0	32.72	114.01	3.85	13.43	52.0-53.0	1.47	795.86	0.17	93.76
6.0-7.0	36.49	150.50	4.30	17.73	53.0-54.0	1.42	797.29	0.17	93.93
7.0-8.0	39.39	189.89	4.64	22.37	54.0-55.0	1.39	798.68	0.16	94.09
8.0-9.0	41.36	231.25	4.87	27.24	55.0-56.0	1.35	800.02	0.16	94.25
9.0-10.0	42.39	273.65	4.99	32.24	56.0-57.0	1.32	801.34	0.16	94.40
10.0-11.0	42.51	316.16	5.01	37.25	57.0-58.0	1.29	802.63	0.15	94.55
11.0-12.0	41.80	357.96	4.92	42.17	58.0-59.0	1.26	803.88	0.15	94.70
12.0-13.0	40.35	398.32	4.75	46.92	59.0-60.0	1.22	805.11	0.14	94.85
13.0-14.0	38.28	436.60	4.51	51.43	60.0-61.0	1.19	806.30	0.14	94.99
14.0-15.0	35.75	472.34	4.21	55.65	61.0-62.0	1.16	807.47	0.14	95.12
15.0-16.0	32.95	505.29	3.88	59.53	62.0-63.0	1.13	808.60	0.13	95.26
16.0-17.0	30.03	535.32	3.54	63.06	63.0-64.0	1.10	809.70	0.13	95.39
17.0-18.0	27.11	562.43	3.19	66.26	64.0-65.0	1.07	810.77	0.13	95.51
18.0-19.0	24.25	586.67	2.86	69.11	65.0-66.0	1.04	811.80	0.12	95.64
19.0-20.0	21.53	608.20	2.54	71.65	66.0-67.0	1.00	812.80	0.12	95.75
20.0-21.0	19.01	627.21	2.24	73.89	67.0-68.0	0.96	813.76	0.11	95.87
21.0-22.0	16.75	643.96	1.97	75.86	68.0-69.0	0.92	814.68	0.11	95.97
22.0-23.0	14.78	658.74	1.74	77.60	69.0-70.0	0.89	815.57	0.10	96.08
23.0-24.0	13.09	671.83	1.54	79.15	70.0-71.0	0.85	816.42	0.10	96.18
24.0-25.0	11.69	683.52	1.38	80.52	71.0-72.0	0.82	817.24	0.10	96.28
25.0-26.0	10.51	694.03	1.24	81.76	72.0-73.0	0.79	818.03	0.09	96.37
26.0-27.0	9.50	703.54	1.12	82.88	73.0-74.0	0.75	818.78	0.09	96.46
27.0-28.0	8.62	712.16	1.02	83.90	74.0-75.0	0.72	819.50	0.09	96.54
28.0-29.0	7.82	719.98	0.92	84.82	75.0-76.0	0.69	820.19	0.08	96.62
29.0-30.0	7.09	727.07	0.83	85.65	76.0-77.0	0.66	820.86	0.08	96.70
30.0-31.0	6.42	733.49	0.76	86.41	77.0-78.0	0.63	821.49	0.07	96.78
31.0-32.0	5.84	739.32	0.69	87.10	78.0-79.0	0.61	822.10	0.07	96.85
32.0-33.0	5.33	744.65	0.63	87.73	79.0-80.0	0.58	822.68	0.07	96.92
33.0-34.0	4.90	749.56	0.58	88.30	80.0-81.0	0.55	823.23	0.07	96.98
34.0-35.0	4.51	754.06	0.53	88.83	81.0-82.0	0.53	823.76	0.06	97.04
35.0-36.0	4.11	758.17	0.48	89.32	82.0-83.0	0.50	824.26	0.06	97.10
36.0-37.0	3.73	76							

IES Indoor Report

Photometric Filename:TR04-10-XX-01 4000K RA90 24D.IES

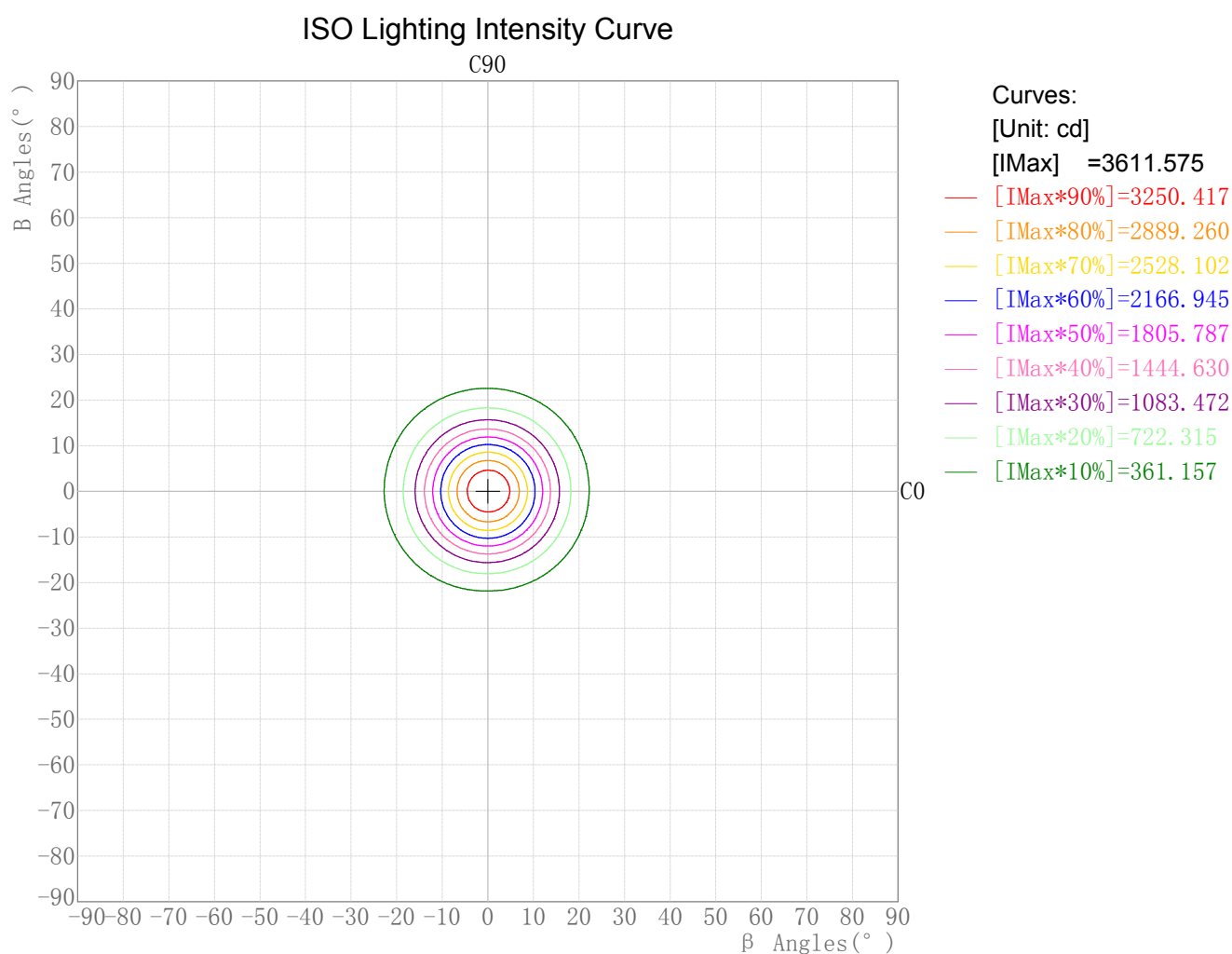
Zonal Flux Tabulation - (Cont.)

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. 31	828. 79	0. 04	97. 64	141. 0-142. 0	0. 31	840. 44	0. 04	99. 01
95. 0-96. 0	0. 31	829. 09	0. 04	97. 67	142. 0-143. 0	0. 31	840. 76	0. 04	99. 05
96. 0-97. 0	0. 30	829. 39	0. 04	97. 71	143. 0-144. 0	0. 32	841. 08	0. 04	99. 08
97. 0-98. 0	0. 29	829. 69	0. 03	97. 74	144. 0-145. 0	0. 33	841. 40	0. 04	99. 12
98. 0-99. 0	0. 29	829. 97	0. 03	97. 78	145. 0-146. 0	0. 33	841. 73	0. 04	99. 16
99. 0-100. 0	0. 28	830. 26	0. 03	97. 81	146. 0-147. 0	0. 33	842. 07	0. 04	99. 20
100. 0-101. 0	0. 28	830. 53	0. 03	97. 84	147. 0-148. 0	0. 33	842. 40	0. 04	99. 24
101. 0-102. 0	0. 27	830. 81	0. 03	97. 87	148. 0-149. 0	0. 34	842. 74	0. 04	99. 28
102. 0-103. 0	0. 27	831. 08	0. 03	97. 91	149. 0-150. 0	0. 33	843. 07	0. 04	99. 32
103. 0-104. 0	0. 26	831. 34	0. 03	97. 94	150. 0-151. 0	0. 33	843. 40	0. 04	99. 36
104. 0-105. 0	0. 26	831. 60	0. 03	97. 97	151. 0-152. 0	0. 33	843. 73	0. 04	99. 40
105. 0-106. 0	0. 26	831. 86	0. 03	98. 00	152. 0-153. 0	0. 33	844. 06	0. 04	99. 44
106. 0-107. 0	0. 25	832. 11	0. 03	98. 03	153. 0-154. 0	0. 32	844. 38	0. 04	99. 47
107. 0-108. 0	0. 25	832. 36	0. 03	98. 06	154. 0-155. 0	0. 31	844. 70	0. 04	99. 51
108. 0-109. 0	0. 25	832. 60	0. 03	98. 09	155. 0-156. 0	0. 31	845. 00	0. 04	99. 55
109. 0-110. 0	0. 24	832. 85	0. 03	98. 11	156. 0-157. 0	0. 30	845. 30	0. 04	99. 58
110. 0-111. 0	0. 24	833. 08	0. 03	98. 14	157. 0-158. 0	0. 29	845. 59	0. 03	99. 62
111. 0-112. 0	0. 24	833. 32	0. 03	98. 17	158. 0-159. 0	0. 28	845. 88	0. 03	99. 65
112. 0-113. 0	0. 23	833. 55	0. 03	98. 20	159. 0-160. 0	0. 27	846. 15	0. 03	99. 68
113. 0-114. 0	0. 23	833. 78	0. 03	98. 22	160. 0-161. 0	0. 26	846. 41	0. 03	99. 71
114. 0-115. 0	0. 23	834. 01	0. 03	98. 25	161. 0-162. 0	0. 25	846. 65	0. 03	99. 74
115. 0-116. 0	0. 22	834. 23	0. 03	98. 28	162. 0-163. 0	0. 24	846. 89	0. 03	99. 77
116. 0-117. 0	0. 22	834. 45	0. 03	98. 30	163. 0-164. 0	0. 22	847. 11	0. 03	99. 80
117. 0-118. 0	0. 22	834. 67	0. 03	98. 33	164. 0-165. 0	0. 21	847. 33	0. 02	99. 82
118. 0-119. 0	0. 22	834. 88	0. 03	98. 35	165. 0-166. 0	0. 20	847. 52	0. 02	99. 84
119. 0-120. 0	0. 21	835. 10	0. 03	98. 38	166. 0-167. 0	0. 18	847. 71	0. 02	99. 87
120. 0-121. 0	0. 21	835. 31	0. 02	98. 40	167. 0-168. 0	0. 17	847. 88	0. 02	99. 89
121. 0-122. 0	0. 21	835. 52	0. 02	98. 43	168. 0-169. 0	0. 16	848. 03	0. 02	99. 90
122. 0-123. 0	0. 21	835. 73	0. 02	98. 45	169. 0-170. 0	0. 14	848. 18	0. 02	99. 92
123. 0-124. 0	0. 21	835. 94	0. 02	98. 48	170. 0-171. 0	0. 13	848. 31	0. 02	99. 94
124. 0-125. 0	0. 21	836. 15	0. 02	98. 50	171. 0-172. 0	0. 11	848. 42	0. 01	99. 95
125. 0-126. 0	0. 21	836. 36	0. 02	98. 53	172. 0-173. 0	0. 10	848. 52	0. 01	99. 96
126. 0-127. 0	0. 21	836. 58	0. 03	98. 55	173. 0-174. 0	0. 09	848. 61	0. 01	99. 97
127. 0-128. 0	0. 22	836. 79	0. 03	98. 58	174. 0-175. 0	0. 07	848. 68	0. 01	99. 98
128. 0-129. 0	0. 22	837. 01	0. 03	98. 61	175. 0-176. 0	0. 06	848. 74	0. 01	99. 99
129. 0-130. 0	0. 22	837. 24	0. 03	98. 63	176. 0-177. 0	0. 05	848. 79	0. 01	99. 99
130. 0-131. 0	0. 23	837. 46	0. 03	98. 66	177. 0-178. 0	0. 03	848. 82	0. 00	100. 00
131. 0-132. 0	0. 23	837. 70	0. 03	98. 69	178. 0-179. 0	0. 02	848. 84	0. 00	100. 00
132. 0-133. 0	0. 24	837. 94	0. 03	98. 71	179. 0-180. 0	0. 01	848. 85	0. 00	100. 00
133. 0-134. 0	0. 25	838. 19	0. 03	98. 74					
134. 0-135. 0	0. 25	838. 44	0. 03	98. 77					
135. 0-136. 0	0. 26	838. 70	0. 03	98. 80					
136. 0-137. 0	0. 27	838. 97	0. 03	98. 84					
137. 0-138. 0	0. 28	839. 25	0. 03	98. 87					
138. 0-139. 0	0. 29	839. 54	0. 03	98. 90					
139. 0-140. 0	0. 29	839. 83	0. 03	98. 94					
140. 0-141. 0	0. 30	840. 13	0. 04	98. 97					

**Photometric Filename:TR04-10-XX-01 4000K RA90 24D.IES**

## Rectangle ISO Lighting Intensity Diagram

Lum. Name: TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID: QIU MEI
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/09/09



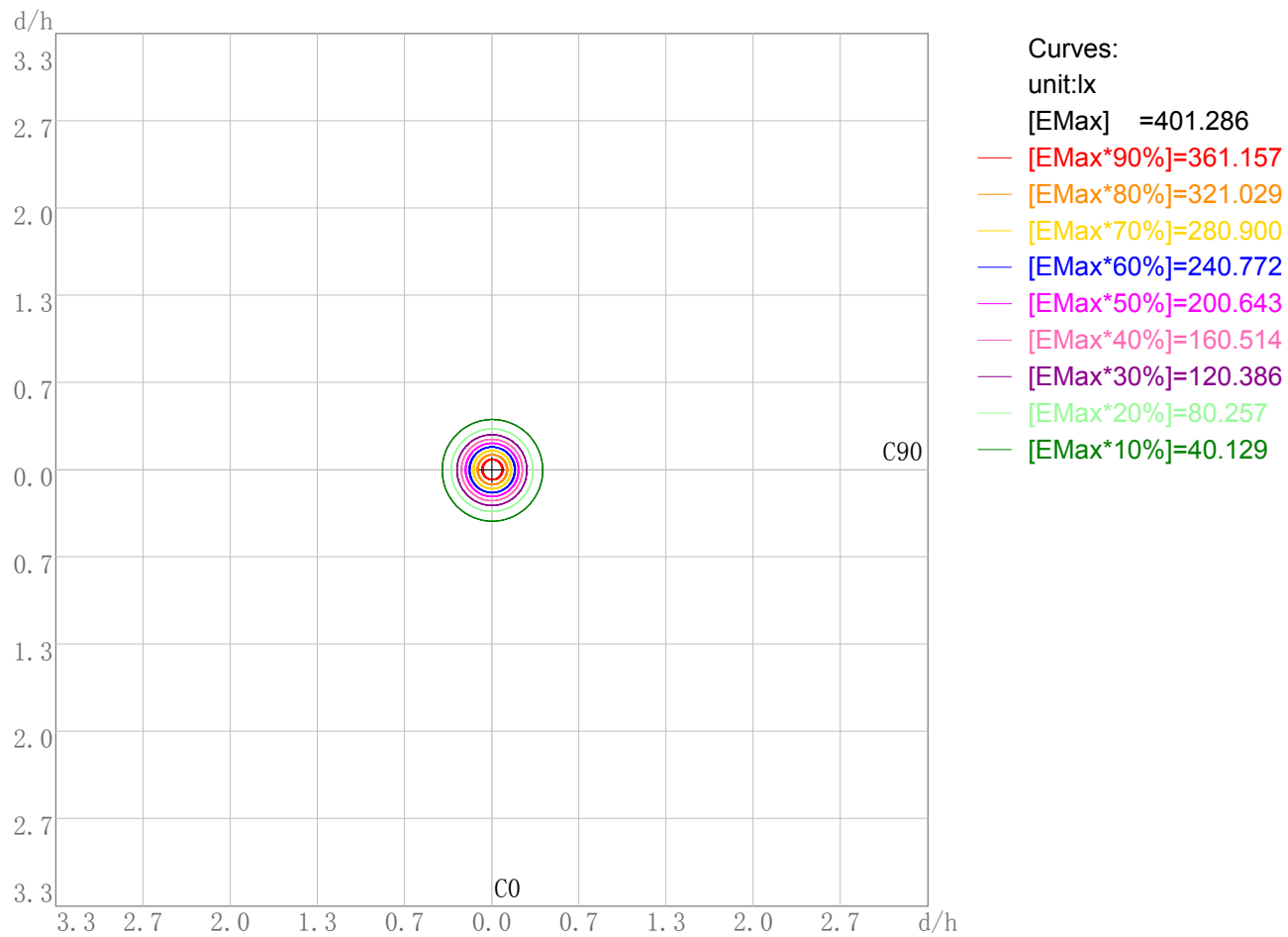
Maximum Light Intensity(cd): 3611.57

Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09

Plane ISO-Illuminance Curve

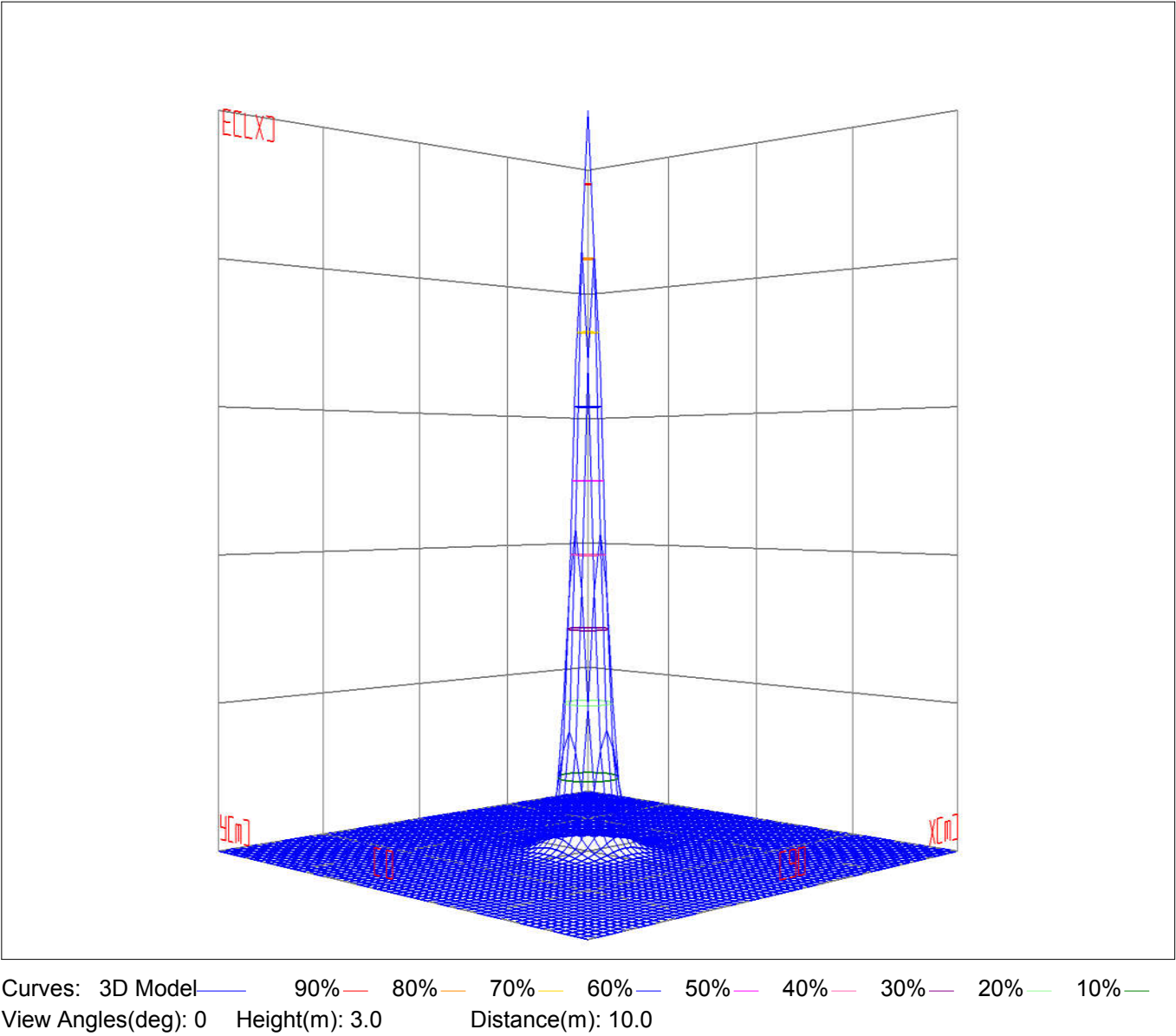


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 401.29  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09

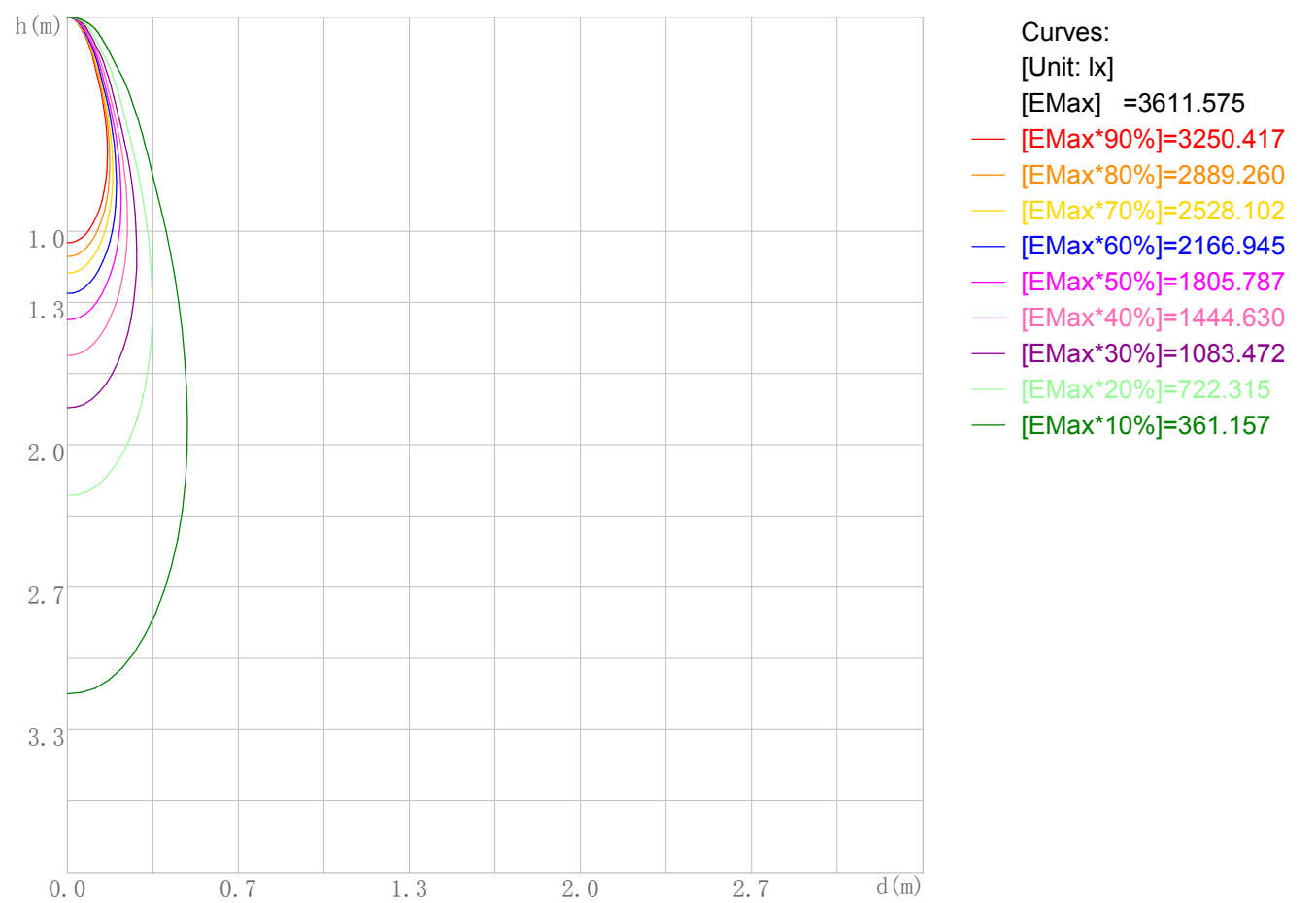
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09

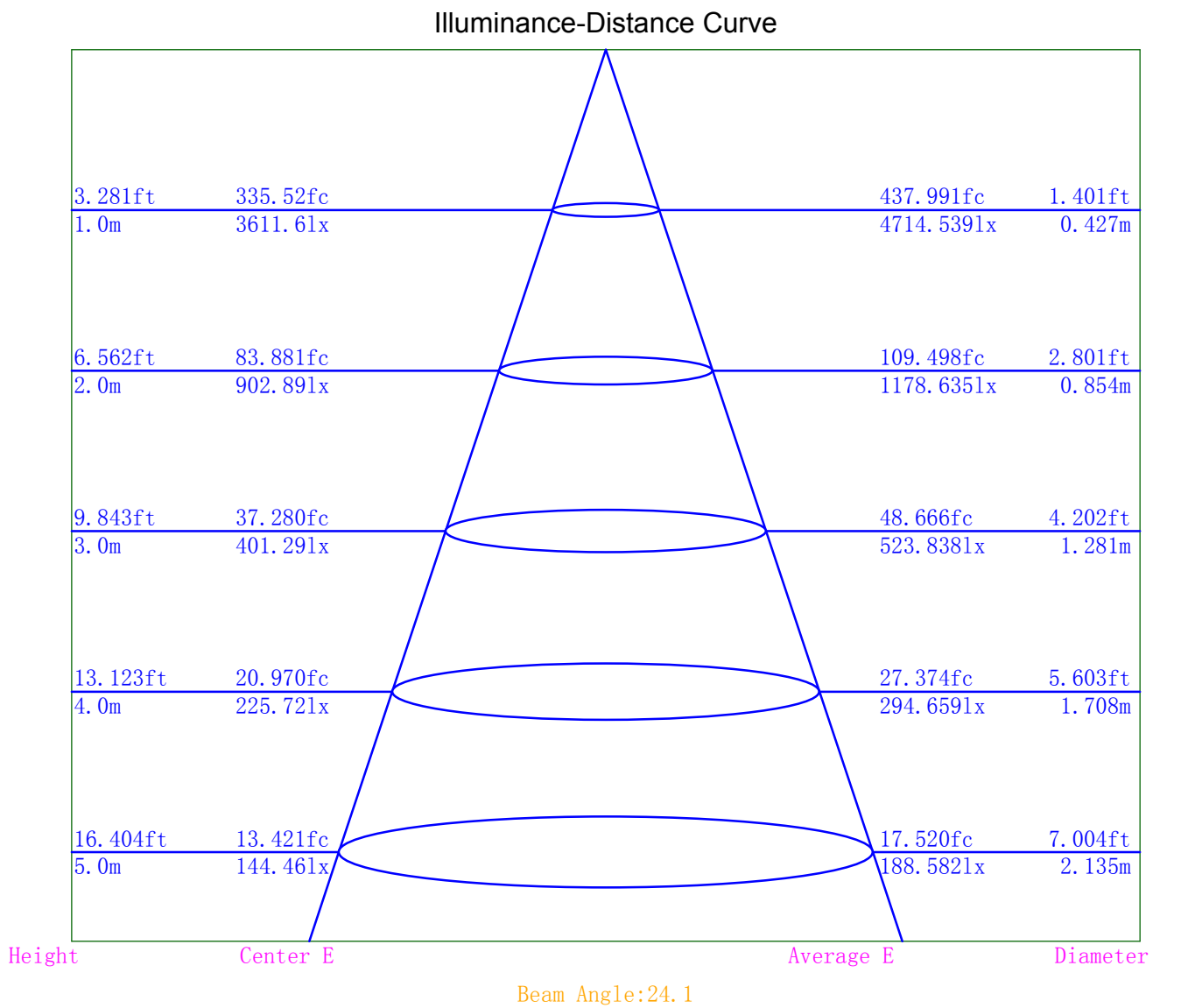
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:3611.57lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:3611.575cd,0eg

Illuminance-Distance Diagram

Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09



Indoor Luminance Limiting Curves

Lum. Name: TR04-10-XX-01 4000K RA90 24D	Lum. Catalog:	Test ID: QIU MEI
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/09/09

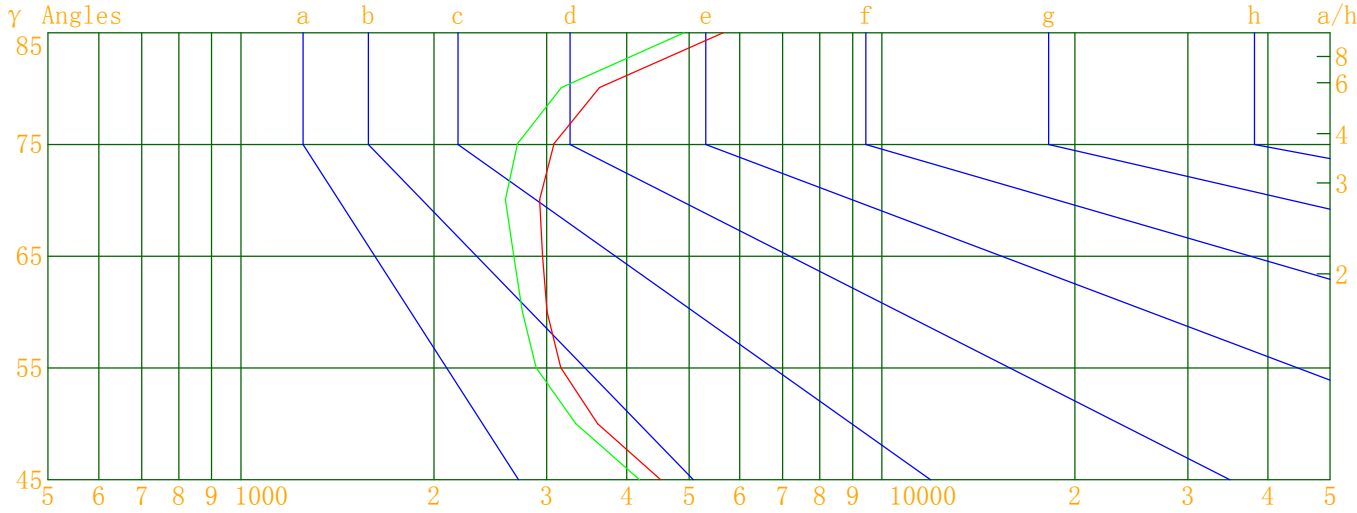
Glare Grade Table

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	4517	3600	3156	3002	2954	2923	3079	3627	5650
C90	4185	3328	2887	2747	2663	2587	2701	3162	4912

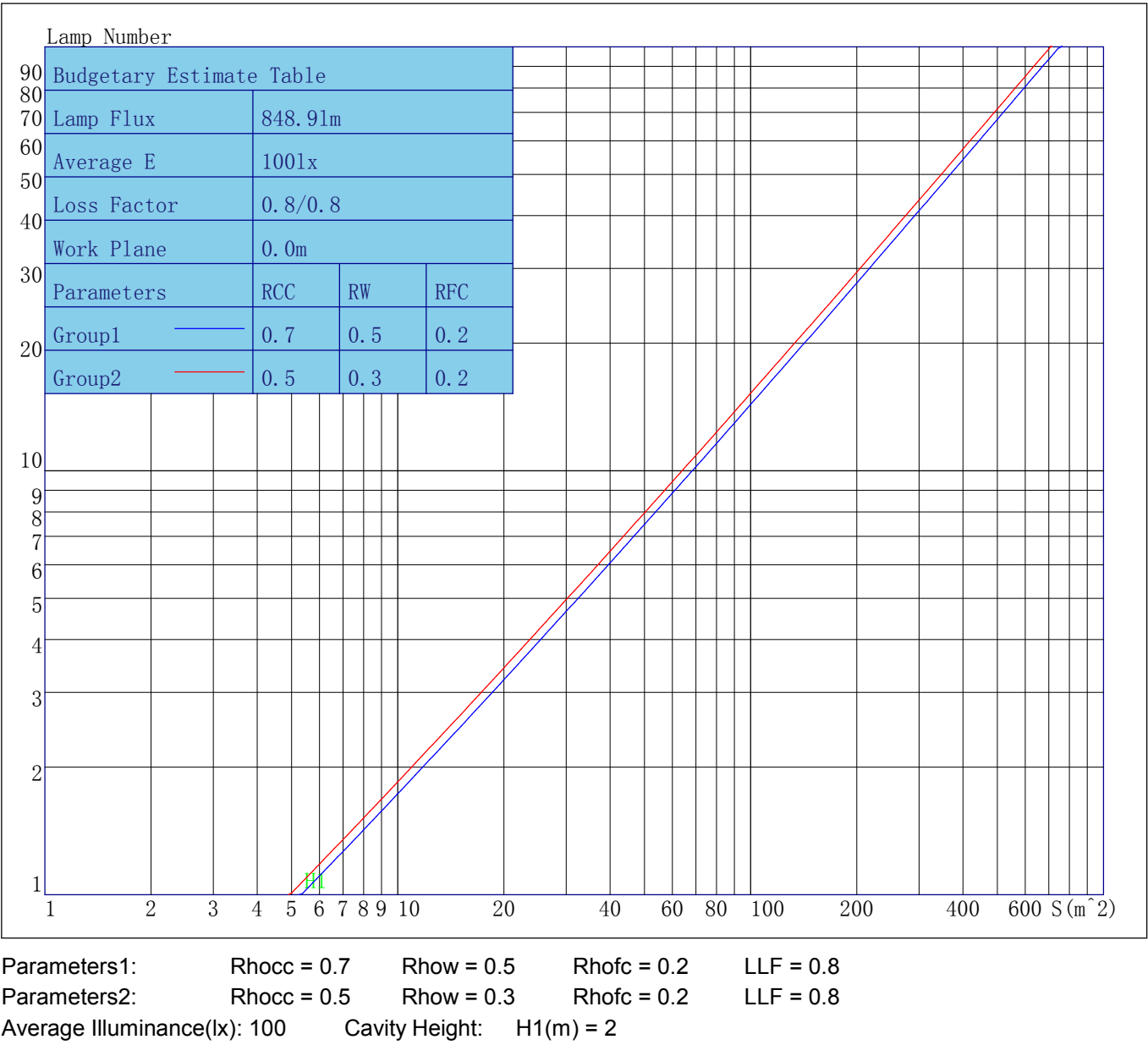
Luminance Limiting Curve



Luminous Size: Length(m)=0.050 Width(m)=0.050 Height(m)=0.125 Area(m^2)=0.008750  
Luminous Type: Without Luminous Side  
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09



Indoor Coefficient of Utilization Table

Lum. Name:TR04-10-XX-01 4000K RA90 24D	Lum. Catelog:	Test ID:QIU MEI
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date:2019/09/09

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	100	100	100	97
1	114	111	109	107	111	109	107	105	104	103	101	100	99	98	96	95	95	93
2	109	105	101	99	107	103	100	97	99	97	95	96	94	92	93	92	90	88
3	105	100	96	92	103	98	94	91	95	92	90	93	90	88	90	88	86	85
4	101	95	91	87	99	94	90	87	91	88	85	89	86	84	87	85	83	81
5	98	91	86	83	96	90	86	82	88	84	82	86	83	81	85	82	80	78
6	95	88	83	79	93	87	82	79	85	81	78	84	80	78	82	79	77	76
7	92	84	80	76	90	84	79	76	82	78	76	81	78	75	80	77	74	73
8	89	81	77	74	88	81	76	73	80	76	73	79	75	73	77	74	72	71
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	75	72	70	69
10	84	76	72	69	83	76	72	69	75	71	69	74	71	68	73	70	68	67

**Unified Glare Rating Table**

Lum. Name: TR04-10-XX-01 4000K RA90 24D	Lum. Catalog:	Test ID: QIU MEI
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/09/09

**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	10.7	11.6	11.1	12.0	12.4	10.5	11.4	10.9	11.8	12.1
	Y=3H	11.8	12.6	12.2	13.0	13.4	11.4	12.2	11.8	12.6	13.1
	Y=4H	12.4	13.2	12.8	13.6	14.0	11.9	12.7	12.4	13.1	13.6
	Y=6H	13.0	13.7	13.5	14.2	14.6	12.5	13.2	13.0	13.6	14.1
	Y=8H	13.4	14.1	13.9	14.5	15.0	12.8	13.5	13.3	13.9	14.4
	Y=12H	13.8	14.5	14.3	14.9	15.4	13.2	13.9	13.7	14.3	14.8
X=4H	Y=2H	11.0	11.8	11.5	12.2	12.6	10.8	11.5	11.2	11.9	12.4
	Y=3H	12.4	13.0	12.8	13.5	13.9	12.0	12.6	12.4	13.1	13.5
	Y=4H	13.1	13.7	13.6	14.2	14.7	12.6	13.2	13.1	13.7	14.2
	Y=6H	14.0	14.5	14.5	15.0	15.5	13.4	13.9	14.0	14.4	15.0
	Y=8H	14.5	14.9	15.0	15.4	16.0	13.9	14.3	14.4	14.8	15.3
	Y=12H	15.0	15.4	15.6	16.0	16.5	14.4	14.8	14.9	15.3	15.8
X=8H	Y=4H	13.4	13.9	13.9	14.3	14.9	12.9	13.4	13.5	13.9	14.4
	Y=6H	14.5	14.8	15.0	15.4	16.0	13.9	14.3	14.5	14.8	15.4
	Y=8H	15.1	15.4	15.7	16.0	16.6	14.5	14.8	15.1	15.4	16.0
	Y=12H	15.9	16.2	16.5	16.7	17.4	15.3	15.5	15.8	16.1	16.7
X=12H	Y=4H	13.4	13.8	14.0	14.4	14.9	13.0	13.4	13.5	13.9	14.4
	Y=6H	14.6	14.9	15.2	15.4	16.1	14.1	14.4	14.6	14.9	15.5
	Y=8H	15.3	15.6	15.9	16.2	16.8	14.8	15.0	15.3	15.6	16.2
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					0.3/-0.3				
S=2.0H		0.4/-0.4					0.4/-0.4				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		3.4					3.2				

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

**Photometric Filename:TR04-10-XX-01 4000K RA90 24D.IES**

V/H	C0.0	C90.0	C180.0	C270.0
$\gamma$ 0.0	3611.57	3611.57	3611.57	3611.57
$\gamma$ 1.0	3601.31	3598.75	3590.96	3590.42
$\gamma$ 2.0	3559.39	3549.70	3531.02	3531.40
$\gamma$ 3.0	3480.04	3464.16	3438.73	3443.57
$\gamma$ 4.0	3366.62	3341.41	3321.52	3325.25
$\gamma$ 5.0	3224.12	3195.45	3180.40	3181.63
$\gamma$ 6.0	3058.49	3028.73	3021.75	3012.90
$\gamma$ 7.0	2872.84	2845.44	2846.20	2832.28
$\gamma$ 8.0	2674.34	2645.88	2654.47	2642.64
$\gamma$ 9.0	2466.75	2438.40	2449.88	2441.80
$\gamma$ 10.0	2248.30	2220.93	2240.16	2232.26
$\gamma$ 11.0	2026.23	2001.04	2031.38	2017.92
$\gamma$ 12.0	1809.18	1784.75	1822.84	1803.46
$\gamma$ 13.0	1596.21	1572.50	1620.96	1591.60
$\gamma$ 14.0	1390.37	1375.74	1428.28	1386.74
$\gamma$ 15.0	1202.59	1192.95	1246.60	1192.71
$\gamma$ 16.0	1033.45	1030.17	1077.56	1017.82
$\gamma$ 17.0	881.19	885.08	925.65	863.26
$\gamma$ 18.0	747.56	754.97	790.82	727.52
$\gamma$ 19.0	631.54	641.32	671.60	608.99
$\gamma$ 20.0	531.14	543.71	569.02	506.93
$\gamma$ 21.0	445.74	461.39	481.03	421.19
$\gamma$ 22.0	374.38	393.63	407.36	349.65
$\gamma$ 23.0	315.98	338.78	345.79	291.56
$\gamma$ 24.0	269.42	293.80	295.06	245.19
$\gamma$ 25.0	233.18	257.09	253.32	208.79
$\gamma$ 26.0	203.89	225.92	219.81	179.76
$\gamma$ 27.0	179.56	199.12	189.89	156.05
$\gamma$ 28.0	159.20	175.95	165.18	136.68
$\gamma$ 29.0	141.67	155.08	142.85	119.71
$\gamma$ 30.0	125.76	136.60	123.54	104.61
$\gamma$ 31.0	111.86	120.12	107.78	92.20
$\gamma$ 32.0	100.08	106.36	94.54	81.77
$\gamma$ 33.0	90.17	94.61	83.49	72.96
$\gamma$ 34.0	81.86	85.01	74.00	65.85
$\gamma$ 35.0	74.01	75.27	65.25	59.22
$\gamma$ 36.0	66.17	66.43	57.51	52.66
$\gamma$ 37.0	59.03	58.29	50.23	46.78
$\gamma$ 38.0	52.30	51.29	43.93	41.69
$\gamma$ 39.0	46.59	45.26	38.75	37.41
$\gamma$ 40.0	42.00	40.33	34.54	33.88
$\gamma$ 41.0	38.13	36.23	31.12	31.10
$\gamma$ 42.0	34.95	32.80	28.49	28.93
$\gamma$ 43.0	32.27	30.03	26.41	27.23
$\gamma$ 44.0	29.95	27.77	24.75	25.78
$\gamma$ 45.0	27.95	25.89	23.36	24.51
$\gamma$ 46.0	26.15	24.28	22.14	23.39

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	24.51	22.85	21.01	22.36
γ 48.0	23.01	21.50	19.98	21.37
γ 49.0	21.61	20.16	18.92	20.42
γ 50.0	20.25	18.72	17.76	19.40
γ 51.0	19.02	17.54	16.89	18.48
γ 52.0	18.08	16.68	16.25	17.77
γ 53.0	17.27	15.90	15.68	17.12
γ 54.0	16.52	15.16	15.11	16.52
γ 55.0	15.84	14.49	14.57	15.95
γ 56.0	15.20	13.94	14.08	15.40
γ 57.0	14.64	13.42	13.62	14.93
γ 58.0	14.09	12.94	13.17	14.45
γ 59.0	13.59	12.47	12.71	13.97
γ 60.0	13.13	12.02	12.30	13.51
γ 61.0	12.70	11.56	11.87	13.06
γ 62.0	12.25	11.11	11.44	12.62
γ 63.0	11.79	10.65	11.03	12.19
γ 64.0	11.34	10.25	10.64	11.77
γ 65.0	10.92	9.85	10.25	11.36
γ 66.0	10.49	9.41	9.82	10.93
γ 67.0	10.04	8.94	9.38	10.44
γ 68.0	9.59	8.50	8.94	9.96
γ 69.0	9.15	8.12	8.54	9.52
γ 70.0	8.75	7.74	8.15	9.09
γ 71.0	8.38	7.40	7.77	8.68
γ 72.0	7.99	7.05	7.42	8.28
γ 73.0	7.64	6.72	7.08	7.90
γ 74.0	7.30	6.41	6.74	7.54
γ 75.0	6.97	6.12	6.42	7.19
γ 76.0	6.66	5.83	6.11	6.84
γ 77.0	6.36	5.55	5.82	6.53
γ 78.0	6.07	5.28	5.54	6.22
γ 79.0	5.78	5.05	5.27	5.92
γ 80.0	5.51	4.80	5.01	5.63
γ 81.0	5.25	4.58	4.77	5.35
γ 82.0	5.01	4.36	4.53	5.09
γ 83.0	4.76	4.15	4.30	4.84
γ 84.0	4.53	3.94	4.07	4.59
γ 85.0	4.31	3.75	3.86	4.35
γ 86.0	4.09	3.56	3.64	4.12
γ 87.0	3.90	3.38	3.44	3.89
γ 88.0	3.67	3.21	3.26	3.68
γ 89.0	3.50	3.06	3.08	3.48
γ 90.0	3.38	2.99	2.98	3.32
γ 91.0	3.31	2.93	2.90	3.23
γ 92.0	3.24	2.87	2.83	3.15
γ 93.0	3.18	2.83	2.76	3.06

**Photometric Filename:TR04-10-XX-01 4000K RA90 24D.IES**

V/H	C0.0	C90.0	C180.0	C270.0
$\gamma$ 94.0	3.11	2.76	2.69	2.99
$\gamma$ 95.0	3.05	2.71	2.64	2.91
$\gamma$ 96.0	3.00	2.68	2.58	2.85
$\gamma$ 97.0	2.95	2.64	2.53	2.79
$\gamma$ 98.0	2.90	2.60	2.47	2.73
$\gamma$ 99.0	2.86	2.57	2.43	2.67
$\gamma$ 100.0	2.82	2.52	2.40	2.63
$\gamma$ 101.0	2.78	2.50	2.36	2.59
$\gamma$ 102.0	2.74	2.47	2.33	2.54
$\gamma$ 103.0	2.71	2.44	2.30	2.51
$\gamma$ 104.0	2.68	2.42	2.28	2.48
$\gamma$ 105.0	2.65	2.40	2.26	2.45
$\gamma$ 106.0	2.61	2.37	2.24	2.44
$\gamma$ 107.0	2.58	2.34	2.23	2.41
$\gamma$ 108.0	2.55	2.32	2.23	2.39
$\gamma$ 109.0	2.52	2.29	2.22	2.38
$\gamma$ 110.0	2.48	2.26	2.21	2.37
$\gamma$ 111.0	2.45	2.24	2.21	2.36
$\gamma$ 112.0	2.42	2.21	2.21	2.36
$\gamma$ 113.0	2.39	2.18	2.20	2.35
$\gamma$ 114.0	2.37	2.16	2.21	2.35
$\gamma$ 115.0	2.34	2.13	2.21	2.35
$\gamma$ 116.0	2.32	2.11	2.22	2.35
$\gamma$ 117.0	2.29	2.09	2.23	2.35
$\gamma$ 118.0	2.26	2.08	2.25	2.37
$\gamma$ 119.0	2.26	2.06	2.26	2.37
$\gamma$ 120.0	2.24	2.05	2.28	2.39
$\gamma$ 121.0	2.23	2.05	2.30	2.41
$\gamma$ 122.0	2.23	2.07	2.33	2.42
$\gamma$ 123.0	2.25	2.07	2.37	2.45
$\gamma$ 124.0	2.26	2.09	2.40	2.50
$\gamma$ 125.0	2.29	2.12	2.45	2.55
$\gamma$ 126.0	2.33	2.16	2.50	2.59
$\gamma$ 127.0	2.37	2.22	2.56	2.65
$\gamma$ 128.0	2.43	2.28	2.65	2.73
$\gamma$ 129.0	2.50	2.34	2.73	2.81
$\gamma$ 130.0	2.58	2.44	2.83	2.90
$\gamma$ 131.0	2.68	2.53	2.94	3.02
$\gamma$ 132.0	2.79	2.65	3.07	3.14
$\gamma$ 133.0	2.91	2.76	3.21	3.26
$\gamma$ 134.0	3.04	2.91	3.35	3.40
$\gamma$ 135.0	3.19	3.06	3.52	3.57
$\gamma$ 136.0	3.36	3.23	3.69	3.73
$\gamma$ 137.0	3.52	3.39	3.86	3.91
$\gamma$ 138.0	3.70	3.57	4.04	4.08
$\gamma$ 139.0	3.87	3.75	4.24	4.27
$\gamma$ 140.0	4.07	3.95	4.43	4.47

**Candela Tabulation - (Cont.)**

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	4.26	4.15	4.62	4.66
γ 142.0	4.46	4.35	4.81	4.85
γ 143.0	4.66	4.55	5.02	5.06
γ 144.0	4.85	4.74	5.21	5.25
γ 145.0	5.05	4.93	5.41	5.45
γ 146.0	5.24	5.12	5.61	5.63
γ 147.0	5.43	5.31	5.79	5.81
γ 148.0	5.61	5.49	5.97	5.98
γ 149.0	5.78	5.66	6.14	6.15
γ 150.0	5.97	5.83	6.30	6.30
γ 151.0	6.12	5.98	6.44	6.44
γ 152.0	6.27	6.11	6.58	6.57
γ 153.0	6.41	6.24	6.71	6.68
γ 154.0	6.53	6.35	6.81	6.77
γ 155.0	6.65	6.47	6.91	6.88
γ 156.0	6.74	6.56	7.00	6.95
γ 157.0	6.83	6.65	7.08	7.02
γ 158.0	6.91	6.72	7.14	7.08
γ 159.0	6.99	6.79	7.20	7.12
γ 160.0	7.04	6.85	7.26	7.15
γ 161.0	7.10	6.91	7.30	7.19
γ 162.0	7.14	6.95	7.31	7.20
γ 163.0	7.16	6.99	7.34	7.22
γ 164.0	7.19	7.02	7.35	7.22
γ 165.0	7.20	7.04	7.36	7.21
γ 166.0	7.20	7.05	7.35	7.21
γ 167.0	7.19	7.06	7.33	7.18
γ 168.0	7.17	7.05	7.30	7.16
γ 169.0	7.17	7.04	7.27	7.14
γ 170.0	7.13	7.03	7.23	7.10
γ 171.0	7.11	7.01	7.20	7.07
γ 172.0	7.09	7.00	7.16	7.04
γ 173.0	7.08	6.99	7.13	7.01
γ 174.0	7.06	6.99	7.09	6.99
γ 175.0	7.05	6.98	7.08	6.97
γ 176.0	7.04	6.99	7.06	6.98
γ 177.0	7.04	7.01	7.04	6.99
γ 178.0	7.05	7.01	7.04	7.00
γ 179.0	7.05	7.02	7.06	7.02
γ 180.0	7.05	7.05	7.05	7.05