IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Indoor Luminaire Photometric Data

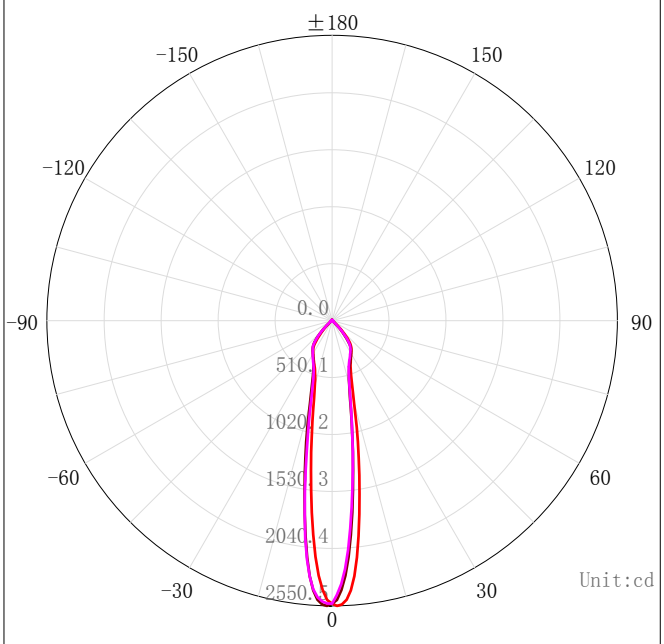
Description Information

Luminary Name: MD10-13-DW-02 2000K-3000K RA95 15D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2019/11/22
Manufacture: Shenzhen Norming Lighting Co., Ltd		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: QUalty peatment		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.050m*0.050m*0.750m		Lum.Area(m2):0.040	Lum.W(kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp.(℃): 25	Humidity(%): 50.0

Character Parameter

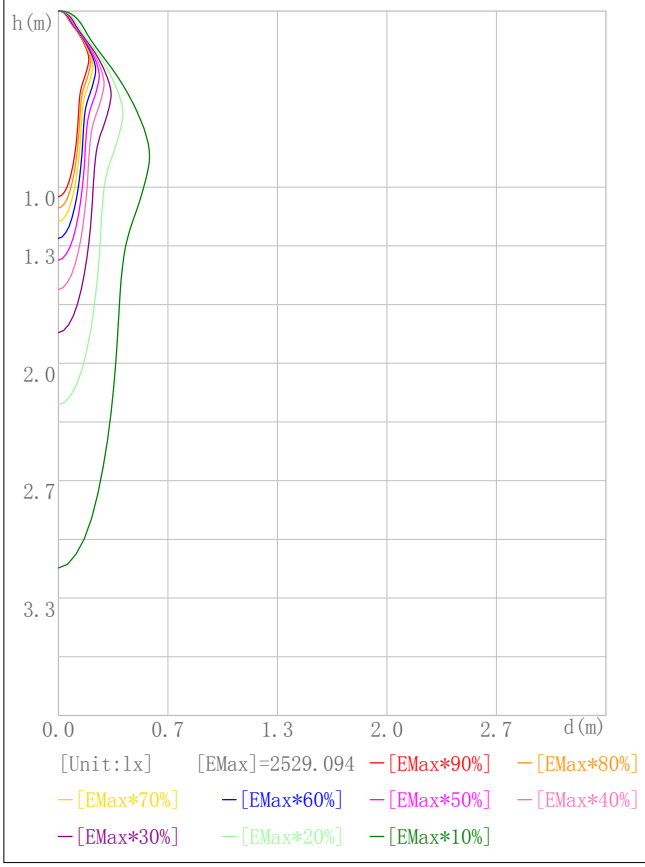
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 866.020	Luminary Flux(lm): 866.025	Field Angle(10%Imax): 75.5(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 843.235lm 97.37%
Rated Voltage(V):	Luminary EER(lm/W): 70.180	Up Lumens&Percent: 22.790lm 2.63%
Tested Power(W): 12.340	Max.Candela(cd): 2550.498	S/MH: C0_a180=0.330 C90_270=0.323
Lamps' Inside: 1	Max Cand@Ang.(°): C=180.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):240.2,0.054,0.949	Beam Angle(50%Imax): 19.3(°)	ErP Φuse(90°): 779.064lm
Lamp Size(W*L*H):0.050m*0.050m*0.750m	Left=-8.5° ,Right=10.8°	IRF(%): 681.052

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C180.0_360.0:	19.3	75.5
C0.0_180.0 :	19.3	75.5
C90.0_270.0 :	18.9	75.9

C0 Space ISO Illuminance Curve

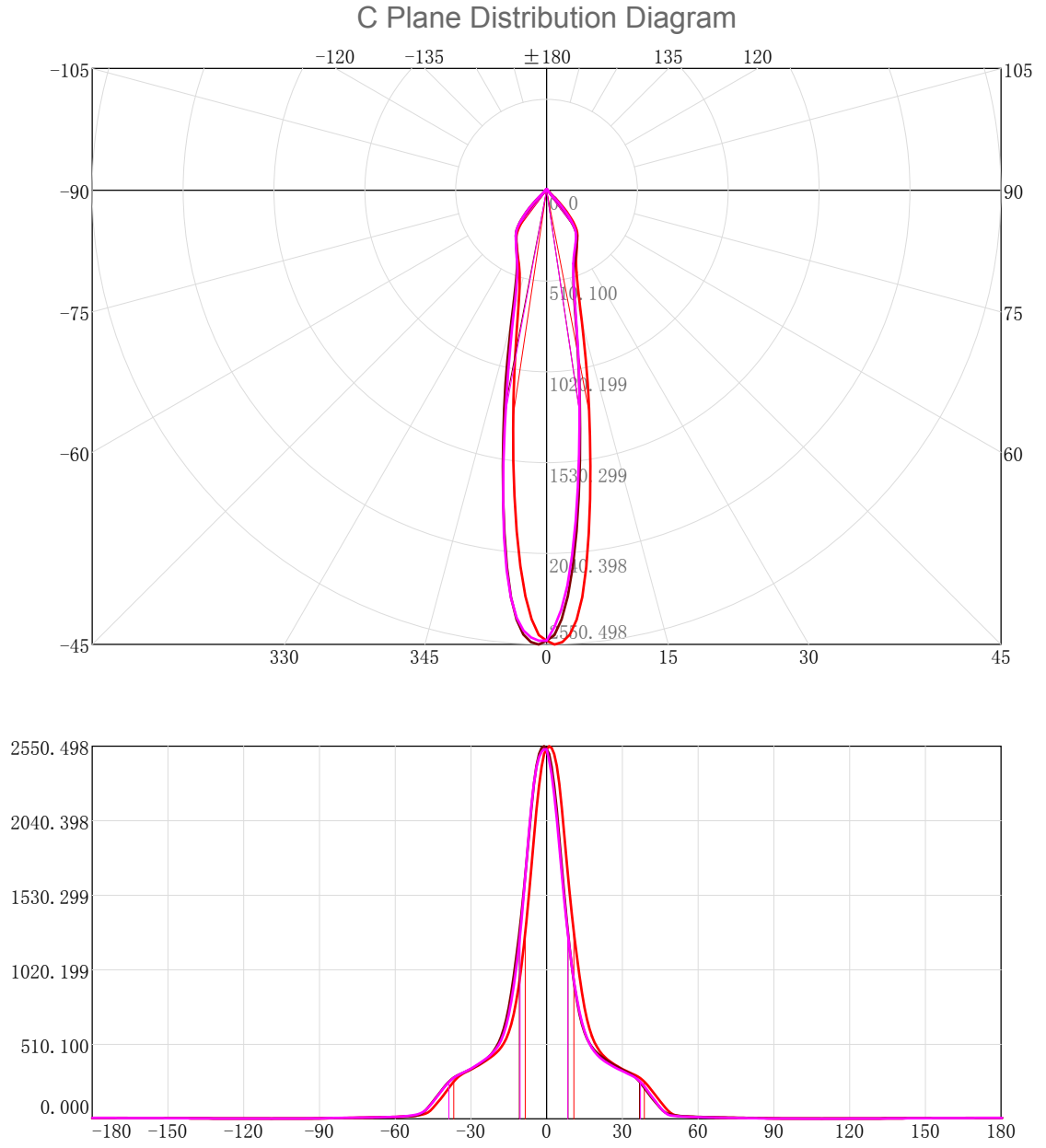


VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
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IES Indoor Report
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2D Plane Light Intensity Distribution Curve

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

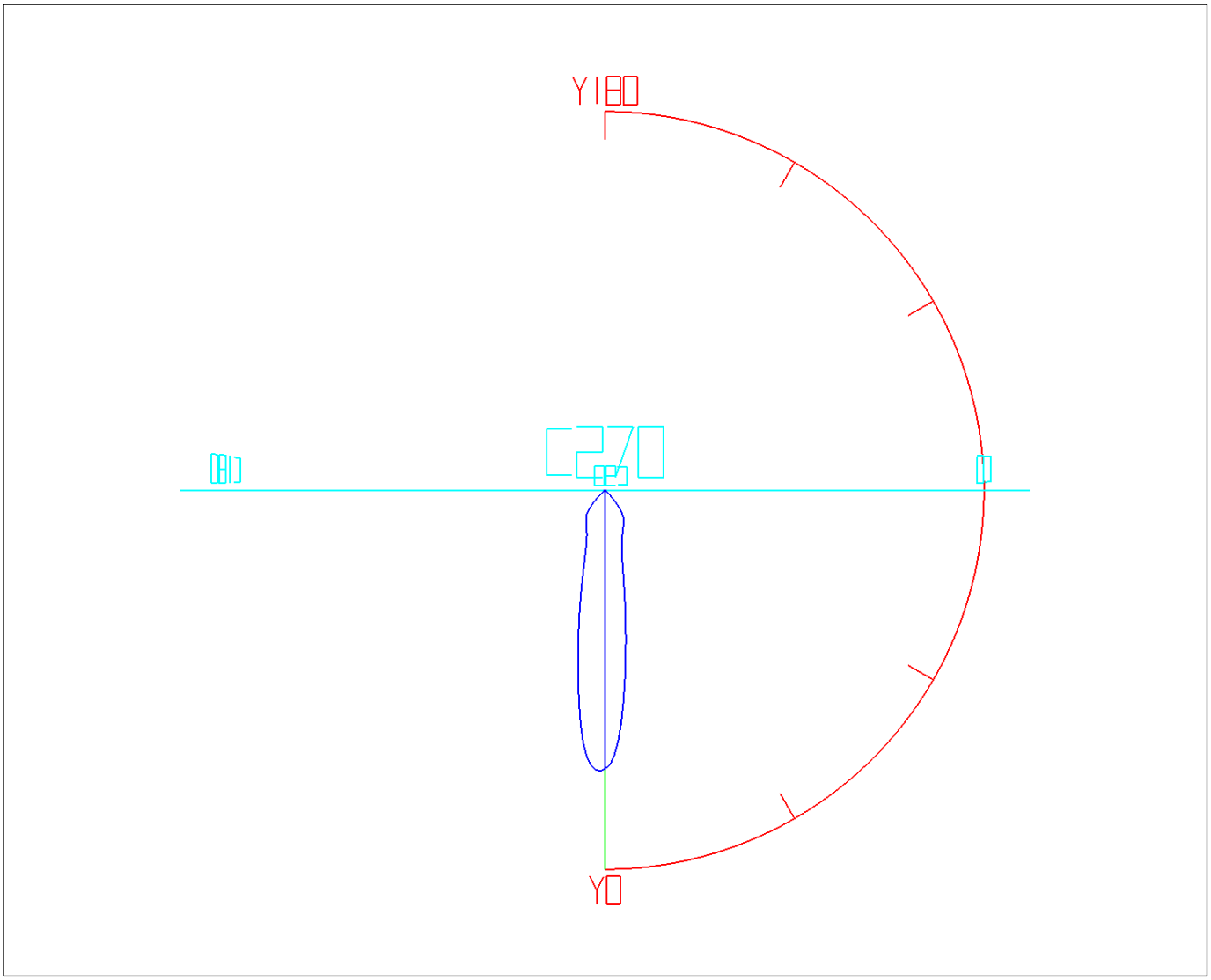


IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

3D Light Intensity Distribution Modal

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

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:MD10-13-DW-02 2000K-3000K RA95 15D IES.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	2.41	2.41	0.28	0.28	47.0-48.0	4.31	795.10	0.50	91.81
1.0-2.0	7.12	9.53	0.82	1.10	48.0-49.0	3.40	798.49	0.39	92.20
2.0-3.0	11.54	21.07	1.33	2.43	49.0-50.0	2.76	801.25	0.32	92.52
3.0-4.0	15.46	36.52	1.78	4.22	50.0-51.0	2.34	803.59	0.27	92.79
4.0-5.0	18.68	55.21	2.16	6.37	51.0-52.0	2.07	805.65	0.24	93.03
5.0-6.0	21.09	76.30	2.44	8.81	52.0-53.0	1.89	807.55	0.22	93.25
6.0-7.0	22.66	98.96	2.62	11.43	53.0-54.0	1.76	809.31	0.20	93.45
7.0-8.0	23.46	122.43	2.71	14.14	54.0-55.0	1.65	810.96	0.19	93.64
8.0-9.0	23.66	146.08	2.73	16.87	55.0-56.0	1.56	812.52	0.18	93.82
9.0-10.0	23.37	169.45	2.70	19.57	56.0-57.0	1.48	814.00	0.17	93.99
10.0-11.0	22.76	192.22	2.63	22.20	57.0-58.0	1.41	815.41	0.16	94.16
11.0-12.0	21.97	214.19	2.54	24.73	58.0-59.0	1.36	816.76	0.16	94.31
12.0-13.0	21.09	235.28	2.44	27.17	59.0-60.0	1.31	818.07	0.15	94.46
13.0-14.0	20.20	255.48	2.33	29.50	60.0-61.0	1.27	819.34	0.15	94.61
14.0-15.0	19.36	274.84	2.24	31.74	61.0-62.0	1.23	820.56	0.14	94.75
15.0-16.0	18.65	293.49	2.15	33.89	62.0-63.0	1.19	821.75	0.14	94.89
16.0-17.0	18.12	311.61	2.09	35.98	63.0-64.0	1.15	822.90	0.13	95.02
17.0-18.0	17.77	329.38	2.05	38.03	64.0-65.0	1.12	824.02	0.13	95.15
18.0-19.0	17.56	346.94	2.03	40.06	65.0-66.0	1.08	825.10	0.13	95.27
19.0-20.0	17.48	364.42	2.02	42.08	66.0-67.0	1.05	826.15	0.12	95.40
20.0-21.0	17.48	381.90	2.02	44.10	67.0-68.0	1.02	827.18	0.12	95.51
21.0-22.0	17.55	399.45	2.03	46.13	68.0-69.0	1.00	828.17	0.11	95.63
22.0-23.0	17.67	417.12	2.04	48.17	69.0-70.0	0.97	829.14	0.11	95.74
23.0-24.0	17.81	434.93	2.06	50.22	70.0-71.0	0.94	830.08	0.11	95.85
24.0-25.0	17.96	452.89	2.07	52.30	71.0-72.0	0.92	831.00	0.11	95.96
25.0-26.0	18.10	470.99	2.09	54.39	72.0-73.0	0.90	831.90	0.10	96.06
26.0-27.0	18.21	489.20	2.10	56.49	73.0-74.0	0.87	832.77	0.10	96.16
27.0-28.0	18.31	507.52	2.11	58.60	74.0-75.0	0.85	833.62	0.10	96.26
28.0-29.0	18.40	525.92	2.12	60.73	75.0-76.0	0.83	834.45	0.10	96.35
29.0-30.0	18.48	544.40	2.13	62.86	76.0-77.0	0.80	835.26	0.09	96.45
30.0-31.0	18.54	562.94	2.14	65.00	77.0-78.0	0.78	836.04	0.09	96.54
31.0-32.0	18.60	581.53	2.15	67.15	78.0-79.0	0.76	836.80	0.09	96.63
32.0-33.0	18.63	600.16	2.15	69.30	79.0-80.0	0.74	837.53	0.09	96.71
33.0-34.0	18.62	618.78	2.15	71.45	80.0-81.0	0.71	838.25	0.08	96.79
34.0-35.0	18.51	637.29	2.14	73.59	81.0-82.0	0.69	838.94	0.08	96.87
35.0-36.0	18.27	655.56	2.11	75.70	82.0-83.0	0.66	839.60	0.08	96.95
36.0-37.0	17.85	673.41	2.06	77.76	83.0-84.0	0.64	840.24	0.07	97.02
37.0-38.0	17.22	690.63	1.99	79.75	84.0-85.0	0.60	840.84	0.07	97.09
38.0-39.0	16.37	707.00	1.89	81.64	85.0-86.0	0.56	841.40	0.06	97.16
39.0-40.0	15.31	722.31	1.77	83.41	86.0-87.0	0.52	841.92	0.06	97.22
40.0-41.0	14.07	736.39	1.63	85.03	87.0-88.0	0.47	842.39	0.05	97.27
41.0-42.0	12.72	749.11	1.47	86.50	88.0-89.0	0.44	842.83	0.05	97.32
42.0-43.0	11.29	760.40	1.30	87.80	89.0-90.0	0.41	843.23	0.05	97.37
43.0-44.0	9.80	770.20	1.13	88.94	90.0-91.0	0.39	843.62	0.04	97.41
44.0-45.0	8.29	778.49	0.96	89.89	91.0-92.0	0.38	844.00	0.04	97.46
45.0-46.0	6.82	785.31	0.79	90.68	92.0-93.0	0.37	844.36	0.04	97.50
46.0-47.0	5.47	790.79	0.63	91.31	93.0-94.0	0.36	844.72	0.04	97.54

IES Indoor Report
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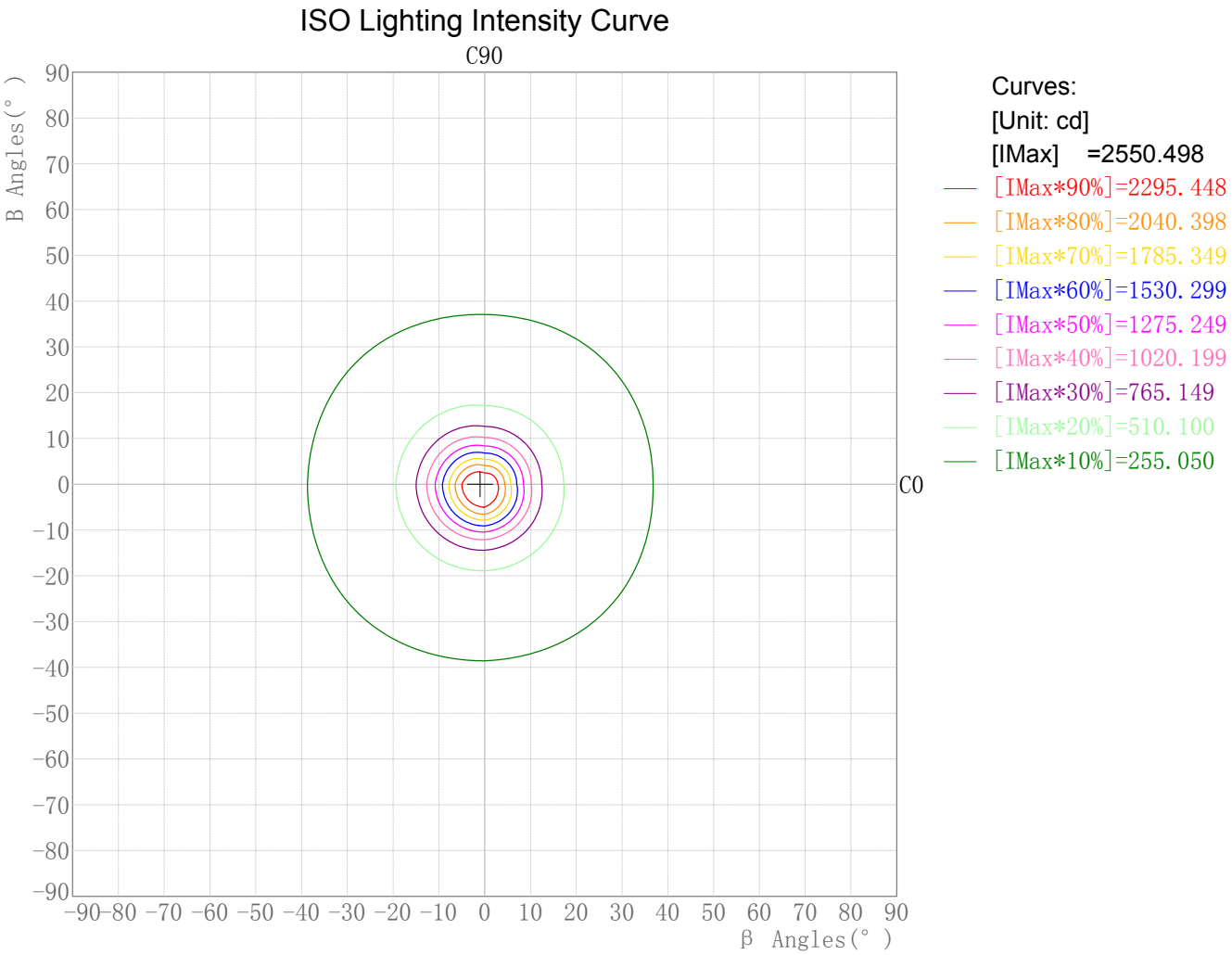
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.35	845.07	0.04	97.58
95.0-96.0	0.34	845.41	0.04	97.62
96.0-97.0	0.33	845.74	0.04	97.66
97.0-98.0	0.32	846.07	0.04	97.70
98.0-99.0	0.32	846.38	0.04	97.73
99.0-100.0	0.31	846.70	0.04	97.77
100.0-101.0	0.31	847.00	0.04	97.80
101.0-102.0	0.30	847.30	0.03	97.84
102.0-103.0	0.30	847.60	0.03	97.87
103.0-104.0	0.29	847.89	0.03	97.91
104.0-105.0	0.29	848.18	0.03	97.94
105.0-106.0	0.28	848.46	0.03	97.97
106.0-107.0	0.28	848.74	0.03	98.01
107.0-108.0	0.28	849.02	0.03	98.04
108.0-109.0	0.28	849.30	0.03	98.07
109.0-110.0	0.28	849.57	0.03	98.10
110.0-111.0	0.27	849.85	0.03	98.13
111.0-112.0	0.27	850.12	0.03	98.16
112.0-113.0	0.27	850.39	0.03	98.20
113.0-114.0	0.27	850.66	0.03	98.23
114.0-115.0	0.27	850.93	0.03	98.26
115.0-116.0	0.27	851.19	0.03	98.29
116.0-117.0	0.27	851.46	0.03	98.32
117.0-118.0	0.27	851.72	0.03	98.35
118.0-119.0	0.27	851.99	0.03	98.38
119.0-120.0	0.27	852.26	0.03	98.41
120.0-121.0	0.27	852.52	0.03	98.44
121.0-122.0	0.27	852.79	0.03	98.47
122.0-123.0	0.27	853.06	0.03	98.50
123.0-124.0	0.27	853.32	0.03	98.53
124.0-125.0	0.27	853.59	0.03	98.56
125.0-126.0	0.27	853.86	0.03	98.60
126.0-127.0	0.27	854.13	0.03	98.63
127.0-128.0	0.27	854.40	0.03	98.66
128.0-129.0	0.27	854.68	0.03	98.69
129.0-130.0	0.28	854.95	0.03	98.72
130.0-131.0	0.28	855.23	0.03	98.75
131.0-132.0	0.28	855.51	0.03	98.79
132.0-133.0	0.28	855.79	0.03	98.82
133.0-134.0	0.28	856.08	0.03	98.85
134.0-135.0	0.29	856.36	0.03	98.88
135.0-136.0	0.29	856.65	0.03	98.92
136.0-137.0	0.29	856.95	0.03	98.95
137.0-138.0	0.30	857.24	0.03	98.99
138.0-139.0	0.30	857.54	0.03	99.02
139.0-140.0	0.30	857.84	0.03	99.06
140.0-141.0	0.30	858.14	0.03	99.09
141.0-142.0	0.31	858.45	0.04	99.13
142.0-143.0	0.31	858.75	0.04	99.16
143.0-144.0	0.31	859.06	0.04	99.20
144.0-145.0	0.31	859.37	0.04	99.23
145.0-146.0	0.31	859.68	0.04	99.27
146.0-147.0	0.31	859.99	0.04	99.30
147.0-148.0	0.31	860.29	0.04	99.34
148.0-149.0	0.30	860.60	0.03	99.37
149.0-150.0	0.30	860.89	0.03	99.41
150.0-151.0	0.30	861.19	0.03	99.44
151.0-152.0	0.29	861.48	0.03	99.48
152.0-153.0	0.29	861.77	0.03	99.51
153.0-154.0	0.28	862.05	0.03	99.54
154.0-155.0	0.27	862.32	0.03	99.57
155.0-156.0	0.27	862.58	0.03	99.60
156.0-157.0	0.26	862.84	0.03	99.63
157.0-158.0	0.25	863.09	0.03	99.66
158.0-159.0	0.24	863.34	0.03	99.69
159.0-160.0	0.23	863.57	0.03	99.72
160.0-161.0	0.23	863.80	0.03	99.74
161.0-162.0	0.22	864.02	0.03	99.77
162.0-163.0	0.21	864.22	0.02	99.79
163.0-164.0	0.20	864.42	0.02	99.82
164.0-165.0	0.19	864.61	0.02	99.84
165.0-166.0	0.18	864.79	0.02	99.86
166.0-167.0	0.17	864.95	0.02	99.88
167.0-168.0	0.16	865.11	0.02	99.89
168.0-169.0	0.14	865.25	0.02	99.91
169.0-170.0	0.13	865.39	0.02	99.93
170.0-171.0	0.12	865.51	0.01	99.94
171.0-172.0	0.11	865.61	0.01	99.95
172.0-173.0	0.10	865.71	0.01	99.96
173.0-174.0	0.08	865.79	0.01	99.97
174.0-175.0	0.07	865.86	0.01	99.98
175.0-176.0	0.06	865.92	0.01	99.99
176.0-177.0	0.05	865.97	0.01	99.99
177.0-178.0	0.03	866.00	0.00	100.00
178.0-179.0	0.02	866.02	0.00	100.00
179.0-180.0	0.01	866.02	0.00	100.00

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22



Maximum Light Intensity(cd): 2550.50
Maximum Cand.@Angle: H=-1.0°,V=0.0°

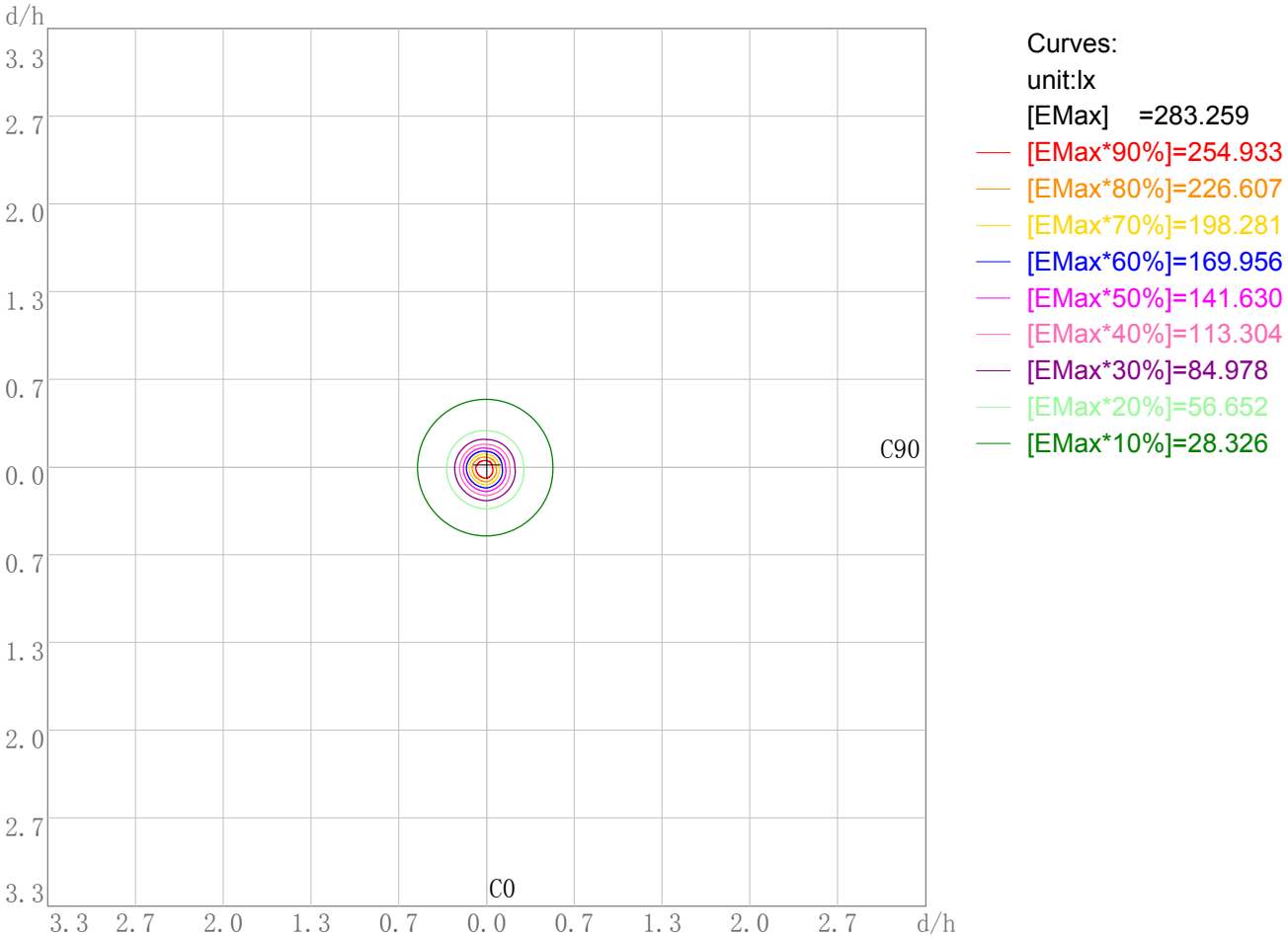
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Plane ISO-Illuminance Diagram

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

Plane ISO-Illuminance Curve



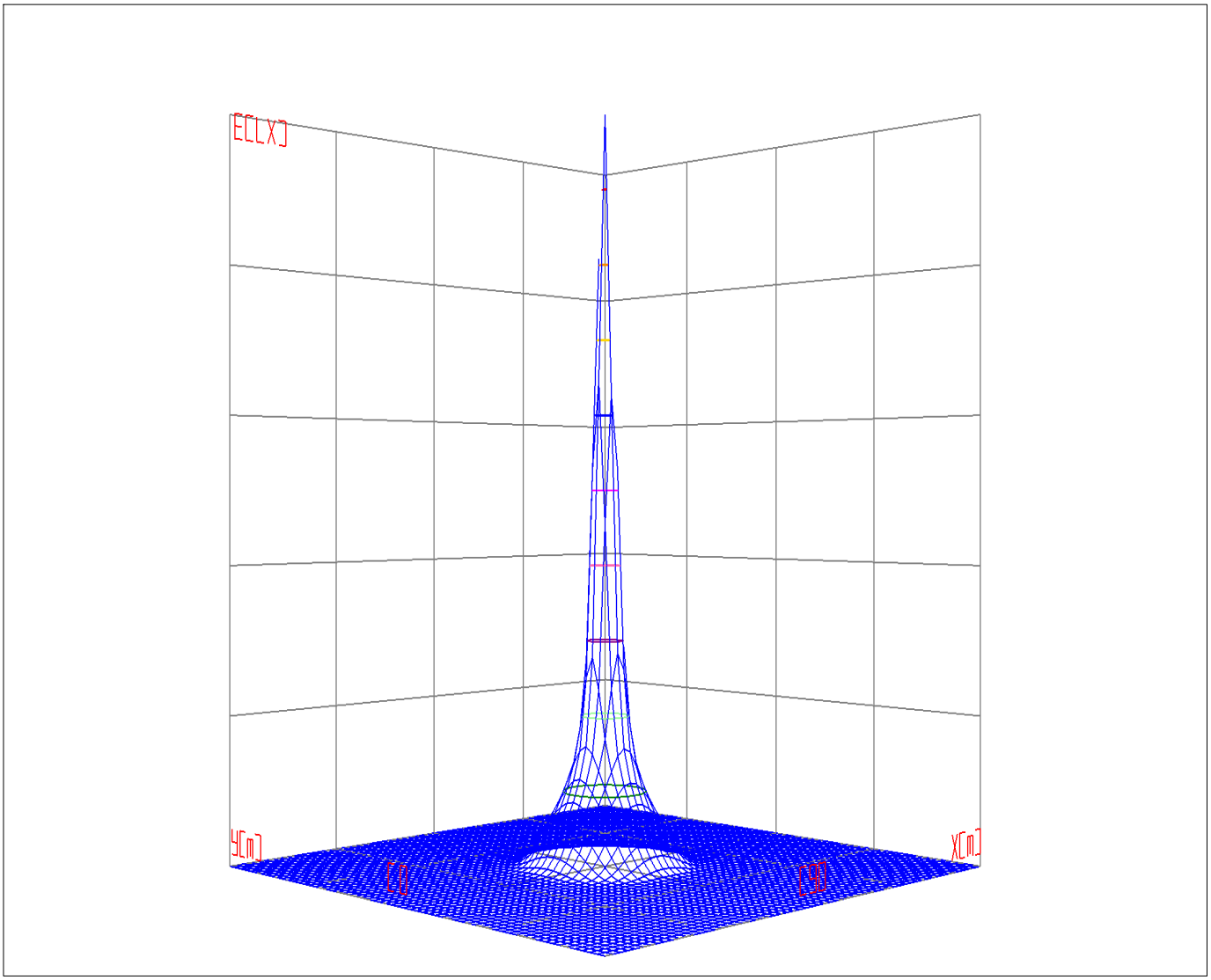
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 283.26
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

3D Plane ISO Illuminance Diagram

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

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

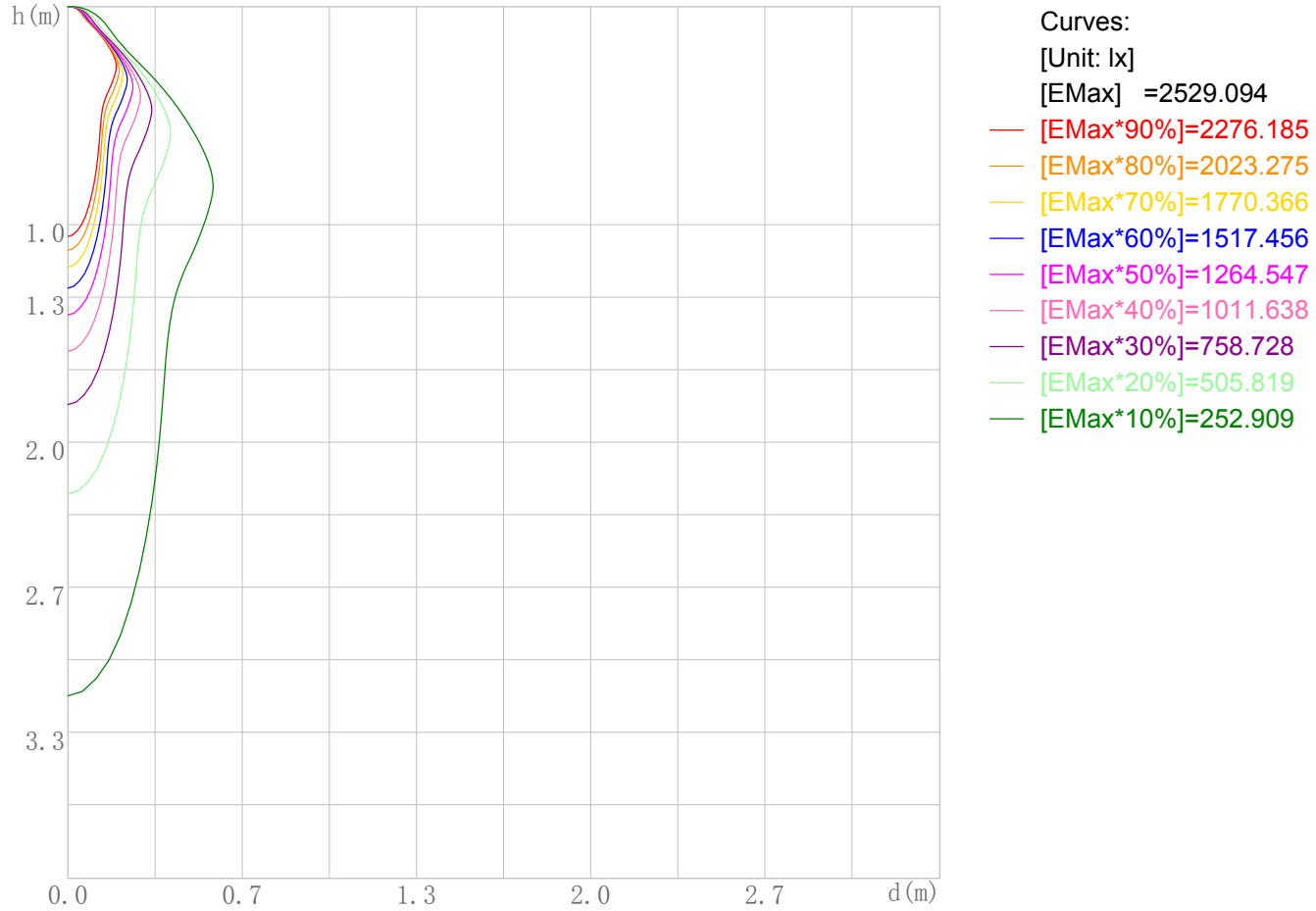
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Space ISO Illuminance Diagram

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:2529.09lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:2529.094cd,0eg

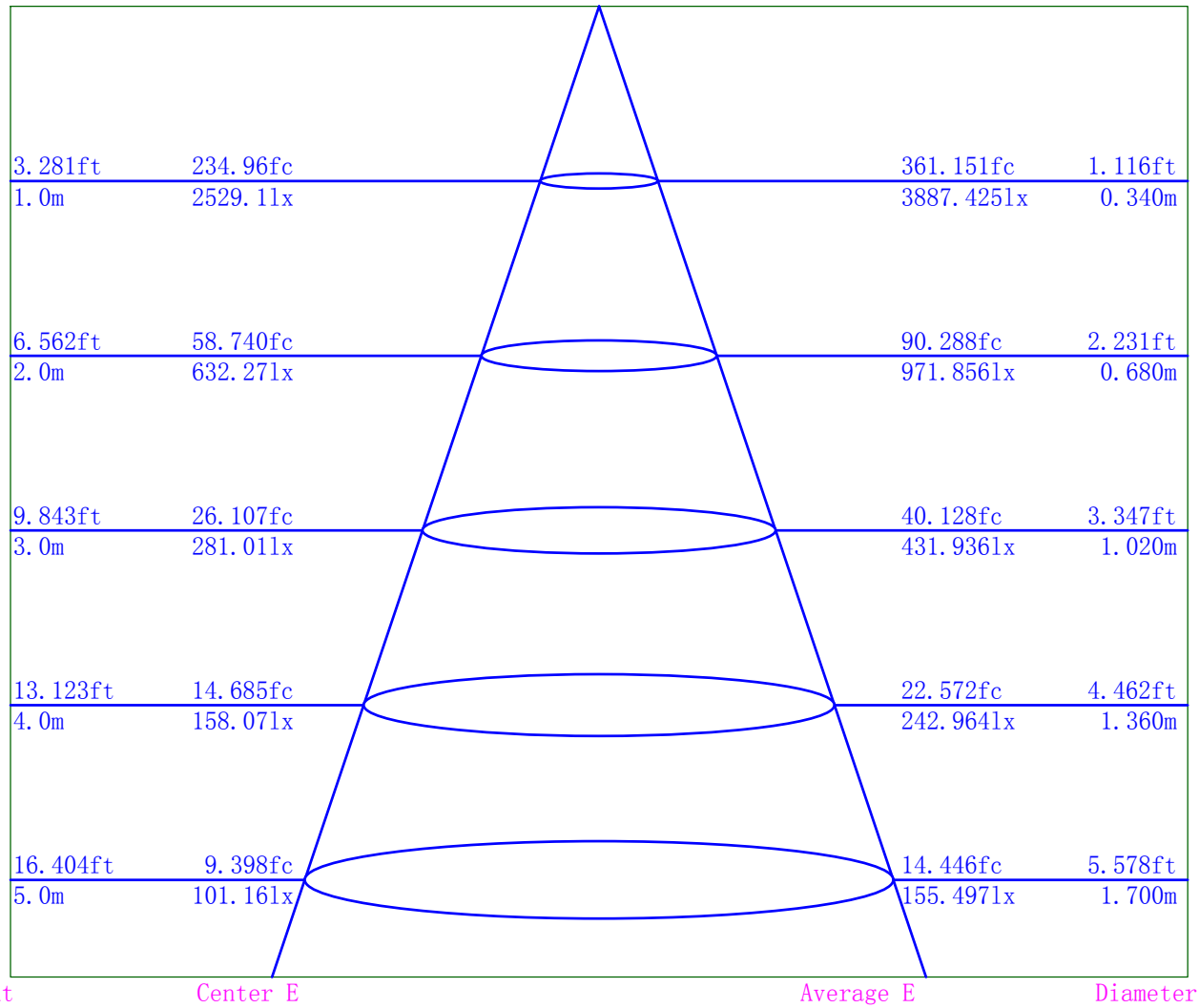
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Illuminance-Distance Diagram

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

Illuminance-Distance Curve



Beam Angle:19.3

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Indoor Luminance Limiting Curves

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

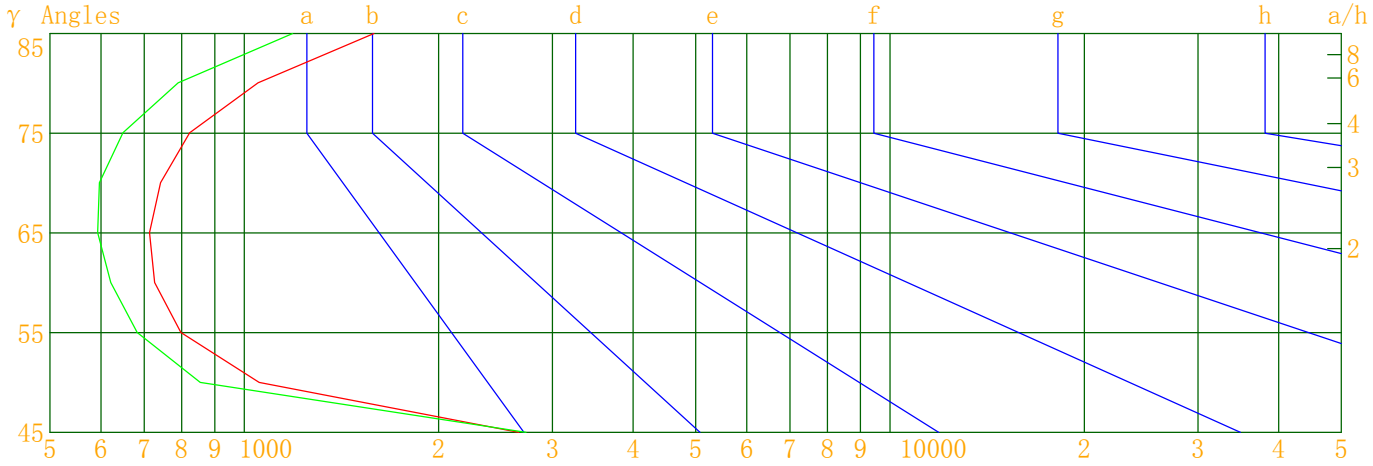
Glare Grade Table

GI	Quality	Using Illuminace							
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	2661	1055	798	727	713	742	823	1050	1588
C90	2731	855	682	621	593	597	649	790	1188

Luminance Limiting Curve



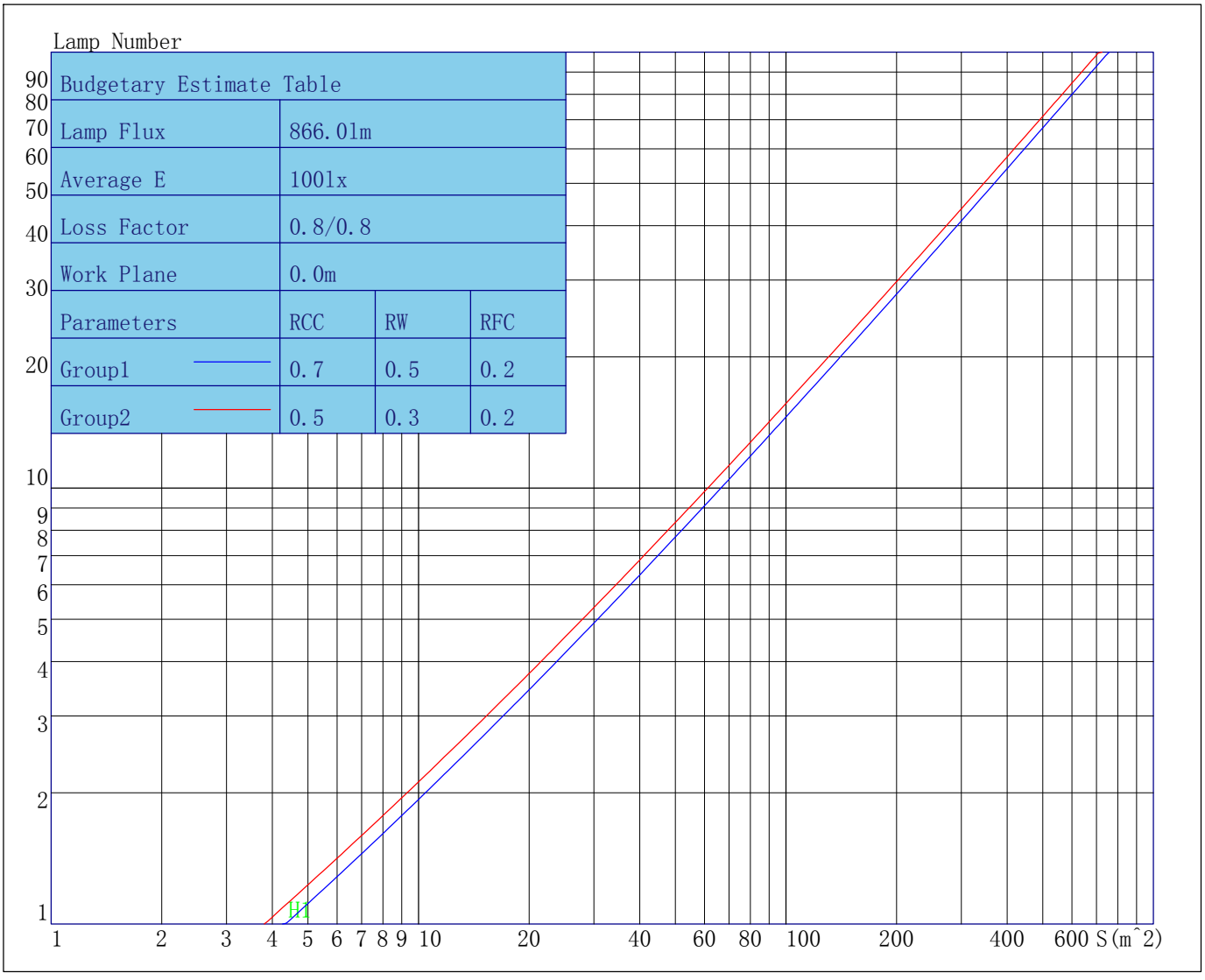
Luminous Size: Length(m)=0.050 Width(m)=0.050 Height(m)=0.750 Area(m^2)=0.040000
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Indoor Budgetary Estimate Table

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22



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

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IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Indoor Coefficient of Utilization Table

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

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	112	109	107	104	110	107	105	102	102	101	99	98	97	95	94	93	92	90
2	107	101	97	94	104	100	96	92	96	93	90	92	90	88	89	87	85	84
3	101	94	89	85	99	93	88	84	90	86	83	87	84	81	84	82	79	78
4	96	88	83	78	94	87	82	78	84	80	76	82	78	75	80	77	74	72
5	91	83	77	72	89	82	76	72	80	75	71	78	73	70	76	72	69	68
6	87	78	72	67	85	77	71	67	75	70	66	73	69	66	72	68	65	64
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	68	64	61	60
8	79	70	64	59	78	69	63	59	68	62	59	66	62	58	65	61	58	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	62	58	55	54
10	72	63	57	53	71	62	57	53	61	56	53	60	56	53	59	55	52	51

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Unified Glare Rating Table

Lum.Name: MD10-13-DW-02 2000K-3000K RA95 15D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/11/22

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	12.0	13.0	12.4	13.4	13.7	11.9	12.9	12.3	13.3	13.7
	Y=3H	12.0	13.0	12.5	13.3	13.8	11.9	12.8	12.4	13.2	13.7
	Y=4H	12.2	13.0	12.6	13.4	13.9	12.0	12.8	12.4	13.2	13.7
	Y=6H	12.4	13.1	12.8	13.6	14.0	12.1	12.8	12.5	13.3	13.7
	Y=8H	12.5	13.2	13.0	13.7	14.2	12.1	12.9	12.6	13.3	13.8
	Y=12H	12.7	13.4	13.2	13.8	14.3	12.2	12.9	12.7	13.4	13.9
X=4H	Y=2H	11.8	12.6	12.2	13.0	13.5	11.7	12.6	12.2	13.0	13.4
	Y=3H	12.0	12.7	12.5	13.1	13.6	11.8	12.5	12.3	13.0	13.4
	Y=4H	12.2	12.8	12.7	13.3	13.8	11.9	12.6	12.4	13.0	13.6
	Y=6H	12.6	13.1	13.1	13.6	14.1	12.2	12.7	12.7	13.2	13.7
	Y=8H	12.8	13.3	13.3	13.8	14.4	12.3	12.8	12.8	13.3	13.9
	Y=12H	13.1	13.6	13.7	14.1	14.6	12.5	13.0	13.1	13.5	14.0
X=8H	Y=4H	12.2	12.7	12.7	13.2	13.7	11.9	12.4	12.5	12.9	13.5
	Y=6H	12.7	13.1	13.3	13.7	14.3	12.3	12.7	12.8	13.2	13.8
	Y=8H	13.1	13.5	13.7	14.1	14.6	12.6	12.9	13.1	13.5	14.0
	Y=12H	13.6	13.9	14.2	14.5	15.1	12.9	13.2	13.5	13.8	14.4
X=12H	Y=4H	12.2	12.6	12.7	13.2	13.7	11.9	12.4	12.5	12.9	13.4
	Y=6H	12.8	13.1	13.4	13.7	14.3	12.3	12.7	12.9	13.2	13.8
	Y=8H	13.3	13.6	13.8	14.1	14.7	12.7	13.0	13.2	13.5	14.2
Variations with the objerver position at spacings											
S=1.0H		0.1/-0.1					0.2/-0.2				
S=1.5H		0.2/-0.3					0.3/-0.3				
S=2.0H		0.2/-0.2					0.3/-0.3				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		1.5					1.1				

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

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ0.0	2529.09	2529.09	2529.09	2529.09
γ1.0	2497.75	2453.90	2550.50	2529.30
γ2.0	2409.39	2356.92	2538.21	2511.96
γ3.0	2282.23	2222.43	2497.81	2475.54
γ4.0	2115.34	2053.10	2416.58	2406.33
γ5.0	1922.25	1866.18	2293.01	2297.31
γ6.0	1725.71	1676.18	2127.86	2146.58
γ7.0	1533.09	1493.11	1940.71	1960.93
γ8.0	1352.16	1328.42	1750.68	1755.67
γ9.0	1189.25	1180.82	1568.57	1549.79
γ10.0	1043.97	1045.87	1400.78	1351.96
γ11.0	914.86	925.78	1248.84	1179.71
γ12.0	806.30	821.10	1108.38	1034.31
γ13.0	717.44	732.70	979.32	909.82
γ14.0	647.41	660.05	862.78	802.09
γ15.0	592.64	601.60	762.63	711.60
γ16.0	549.57	553.63	681.32	639.27
γ17.0	516.73	515.21	616.64	582.63
γ18.0	490.81	483.85	564.88	539.58
γ19.0	469.42	459.41	523.57	506.45
γ20.0	451.56	438.67	490.55	479.86
γ21.0	436.48	421.43	463.89	458.74
γ22.0	423.52	407.25	441.95	440.90
γ23.0	411.08	394.66	423.92	425.33
γ24.0	398.86	383.17	408.70	412.72
γ25.0	387.77	372.80	395.55	399.94
γ26.0	376.60	362.59	383.53	387.78
γ27.0	366.40	353.25	371.45	376.21
γ28.0	356.56	344.01	360.62	364.93
γ29.0	346.88	335.57	350.64	354.14
γ30.0	337.82	327.32	340.95	343.97
γ31.0	328.99	319.38	332.25	334.40
γ32.0	320.35	310.90	324.32	325.78
γ33.0	311.25	302.74	316.58	317.42
γ34.0	300.52	294.11	308.79	309.11
γ35.0	286.95	283.79	300.34	300.72
γ36.0	270.38	271.16	290.94	290.77
γ37.0	250.63	256.23	280.25	278.83
γ38.0	228.94	238.11	266.47	264.58
γ39.0	205.68	217.04	250.41	247.49
γ40.0	181.97	193.74	231.35	228.20
γ41.0	159.12	169.85	209.75	206.89
γ42.0	137.41	146.17	187.11	184.15
γ43.0	116.32	122.50	164.38	161.04
γ44.0	95.29	99.34	141.76	138.25
γ45.0	75.28	77.25	119.72	116.06
γ46.0	57.91	57.86	98.72	95.19

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	44.65	41.90	77.98	76.21
γ 48.0	36.24	30.61	58.87	59.81
γ 49.0	30.80	24.42	43.14	47.09
γ 50.0	27.11	21.98	31.68	38.26
γ 51.0	24.27	20.12	24.75	32.63
γ 52.0	22.13	18.72	21.53	28.58
γ 53.0	20.61	17.49	19.66	25.41
γ 54.0	19.37	16.54	18.09	22.72
γ 55.0	18.30	15.65	16.77	20.50
γ 56.0	17.35	14.86	15.67	18.80
γ 57.0	16.55	14.16	14.74	17.23
γ 58.0	15.76	13.51	13.94	16.16
γ 59.0	15.13	12.95	13.27	15.35
γ 60.0	14.53	12.42	12.61	14.58
γ 61.0	14.01	11.90	12.08	13.94
γ 62.0	13.47	11.40	11.58	13.35
γ 63.0	12.98	10.93	11.12	12.82
γ 64.0	12.50	10.47	10.66	12.32
γ 65.0	12.05	10.02	10.27	11.87
γ 66.0	11.63	9.61	9.89	11.46
γ 67.0	11.23	9.23	9.57	11.08
γ 68.0	10.86	8.85	9.24	10.73
γ 69.0	10.49	8.48	8.97	10.41
γ 70.0	10.15	8.16	8.70	10.12
γ 71.0	9.81	7.85	8.46	9.86
γ 72.0	9.48	7.53	8.23	9.58
γ 73.0	9.14	7.24	8.01	9.34
γ 74.0	8.84	6.98	7.79	9.09
γ 75.0	8.52	6.72	7.57	8.84
γ 76.0	8.26	6.46	7.35	8.59
γ 77.0	7.97	6.22	7.14	8.35
γ 78.0	7.75	5.96	6.93	8.12
γ 79.0	7.49	5.72	6.71	7.88
γ 80.0	7.29	5.49	6.49	7.63
γ 81.0	6.99	5.28	6.27	7.38
γ 82.0	6.68	5.00	6.07	7.21
γ 83.0	6.36	4.78	5.86	6.92
γ 84.0	5.97	4.48	5.64	6.71
γ 85.0	5.54	4.14	5.35	6.36
γ 86.0	4.87	3.73	5.07	6.10
γ 87.0	4.22	3.40	4.70	5.68
γ 88.0	3.93	3.19	4.25	5.11
γ 89.0	3.83	3.12	3.83	4.50
γ 90.0	3.73	3.05	3.45	4.05
γ 91.0	3.65	2.98	3.35	3.93
γ 92.0	3.55	2.90	3.26	3.83
γ 93.0	3.47	2.84	3.17	3.73

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	3.40	2.78	3.09	3.62
γ 95.0	3.33	2.73	3.02	3.53
γ 96.0	3.26	2.68	2.94	3.44
γ 97.0	3.20	2.64	2.88	3.35
γ 98.0	3.14	2.60	2.81	3.27
γ 99.0	3.10	2.56	2.75	3.20
γ 100.0	3.05	2.53	2.71	3.13
γ 101.0	3.02	2.49	2.66	3.08
γ 102.0	2.98	2.47	2.63	3.04
γ 103.0	2.95	2.46	2.60	2.99
γ 104.0	2.93	2.44	2.57	2.96
γ 105.0	2.90	2.43	2.55	2.92
γ 106.0	2.88	2.42	2.53	2.89
γ 107.0	2.87	2.42	2.53	2.88
γ 108.0	2.86	2.42	2.52	2.87
γ 109.0	2.85	2.42	2.52	2.85
γ 110.0	2.84	2.42	2.52	2.85
γ 111.0	2.83	2.43	2.53	2.84
γ 112.0	2.83	2.43	2.55	2.84
γ 113.0	2.82	2.44	2.57	2.85
γ 114.0	2.82	2.45	2.58	2.86
γ 115.0	2.82	2.46	2.61	2.86
γ 116.0	2.82	2.47	2.63	2.88
γ 117.0	2.84	2.50	2.66	2.90
γ 118.0	2.85	2.52	2.69	2.92
γ 119.0	2.86	2.54	2.72	2.95
γ 120.0	2.88	2.57	2.77	2.97
γ 121.0	2.91	2.61	2.81	3.01
γ 122.0	2.94	2.64	2.85	3.03
γ 123.0	2.98	2.68	2.90	3.07
γ 124.0	3.02	2.73	2.94	3.11
γ 125.0	3.06	2.79	2.99	3.15
γ 126.0	3.11	2.83	3.04	3.19
γ 127.0	3.17	2.90	3.09	3.24
γ 128.0	3.23	2.96	3.15	3.28
γ 129.0	3.29	3.04	3.21	3.35
γ 130.0	3.37	3.11	3.27	3.40
γ 131.0	3.44	3.20	3.35	3.47
γ 132.0	3.53	3.29	3.43	3.52
γ 133.0	3.61	3.37	3.51	3.61
γ 134.0	3.71	3.47	3.61	3.69
γ 135.0	3.82	3.57	3.70	3.78
γ 136.0	3.91	3.69	3.80	3.87
γ 137.0	4.03	3.80	3.91	3.98
γ 138.0	4.13	3.92	4.03	4.07
γ 139.0	4.25	4.04	4.16	4.18
γ 140.0	4.36	4.16	4.29	4.31

IES Indoor Report
Photometric Filename:MD10-13-DW-02 2000K-3000K RA95 15D IES.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	4.50	4.29	4.42	4.43
γ 142.0	4.62	4.43	4.56	4.55
γ 143.0	4.74	4.55	4.69	4.68
γ 144.0	4.86	4.67	4.82	4.80
γ 145.0	4.97	4.80	4.94	4.92
γ 146.0	5.08	4.92	5.06	5.04
γ 147.0	5.18	5.03	5.18	5.14
γ 148.0	5.28	5.12	5.29	5.24
γ 149.0	5.38	5.21	5.39	5.34
γ 150.0	5.47	5.31	5.48	5.43
γ 151.0	5.56	5.39	5.59	5.52
γ 152.0	5.65	5.47	5.66	5.60
γ 153.0	5.73	5.55	5.74	5.67
γ 154.0	5.81	5.62	5.82	5.74
γ 155.0	5.88	5.68	5.90	5.80
γ 156.0	5.96	5.75	5.97	5.88
γ 157.0	6.03	5.82	6.03	5.95
γ 158.0	6.09	5.89	6.10	6.00
γ 159.0	6.16	5.96	6.17	6.05
γ 160.0	6.22	6.03	6.22	6.12
γ 161.0	6.27	6.08	6.29	6.16
γ 162.0	6.34	6.15	6.34	6.22
γ 163.0	6.40	6.22	6.40	6.27
γ 164.0	6.46	6.28	6.46	6.32
γ 165.0	6.51	6.34	6.51	6.37
γ 166.0	6.57	6.41	6.56	6.40
γ 167.0	6.61	6.46	6.61	6.45
γ 168.0	6.65	6.51	6.66	6.49
γ 169.0	6.69	6.55	6.71	6.51
γ 170.0	6.70	6.58	6.74	6.55
γ 171.0	6.74	6.61	6.77	6.57
γ 172.0	6.75	6.63	6.79	6.60
γ 173.0	6.76	6.63	6.82	6.61
γ 174.0	6.77	6.65	6.82	6.62
γ 175.0	6.77	6.65	6.83	6.62
γ 176.0	6.78	6.66	6.84	6.64
γ 177.0	6.78	6.66	6.85	6.63
γ 178.0	6.80	6.66	6.85	6.65
γ 179.0	6.81	6.66	6.84	6.66
γ 180.0	6.77	6.77	6.77	6.77