IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Indoor Luminaire Photometric Data

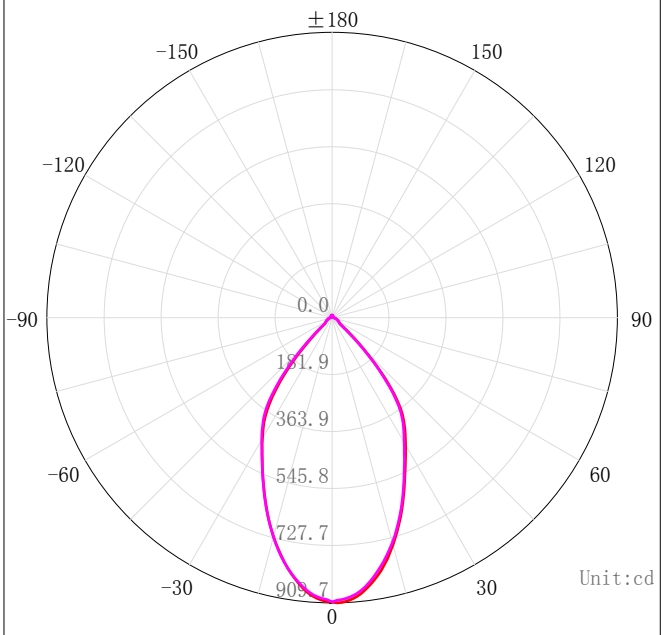
Description Information

Luminary Name: HCP-813054 2700K RA90 60D		Lum. Catelog:	Test ID: 01
Lamp Name:		Lamp Catelog: LED	Test Date: 2020/01/07
Manufacture: HAVIT COMMERCIAL		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: QUalty 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.(℃): 25	Humidity(%):

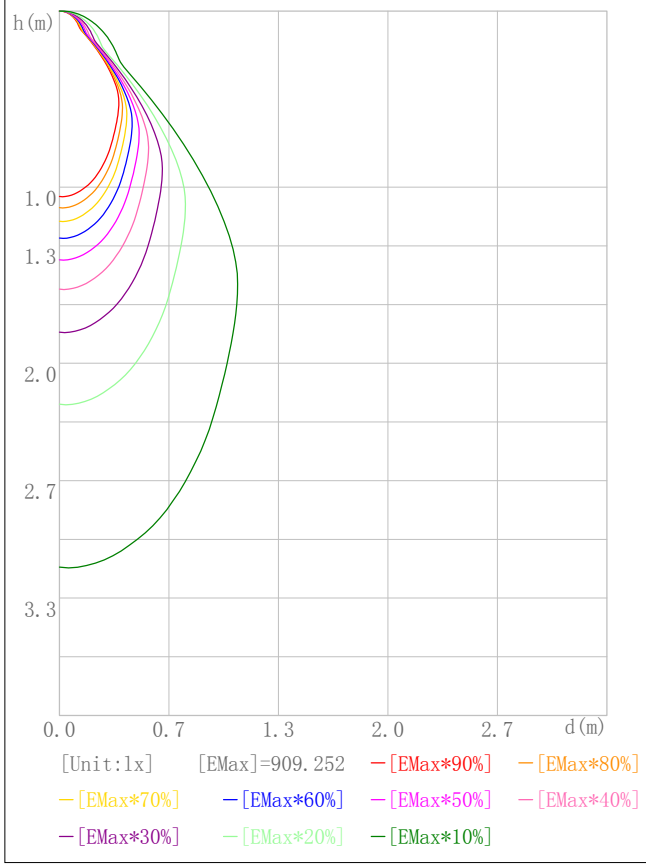
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 955.710	Luminary Flux(lm): 955.711	Field Angle(10%Imax): 92.5(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 928.261lm 97.13%
Rated Voltage(V):	Luminary EER(lm/W): 90.933	Up Lumens&Percent: 27.450lm 2.87%
Tested Power(W): 10.510	Max.Candela(cd): 909.668	S/MH: C0_a180=0.842 C90_270=0.839
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V,A,pf):35.1,0.299	Beam Angle(50%Imax): 60.3(°)	ErP Φuse(90°): 834.510lm
Lamp Size(W*L*H):0.498m*0.498m*0.750m	Left=-29.3° ,Right=31.0°	IRF(%): 212.837

C Plane Distribution Diagram



C0 Space ISO Illuminance Curve



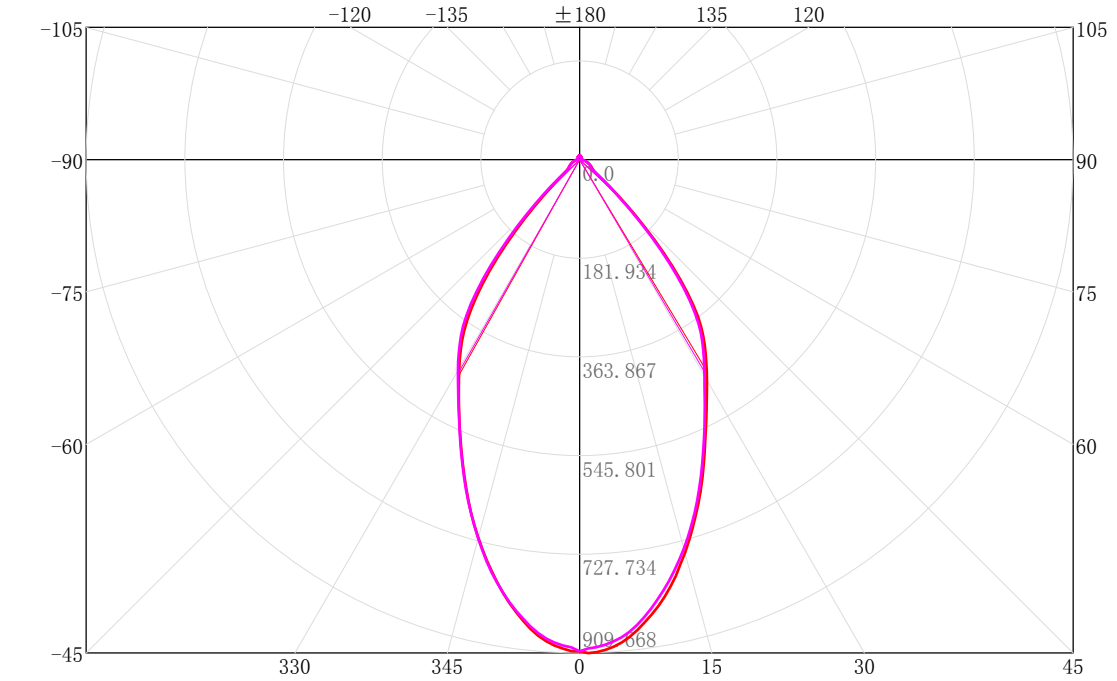
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

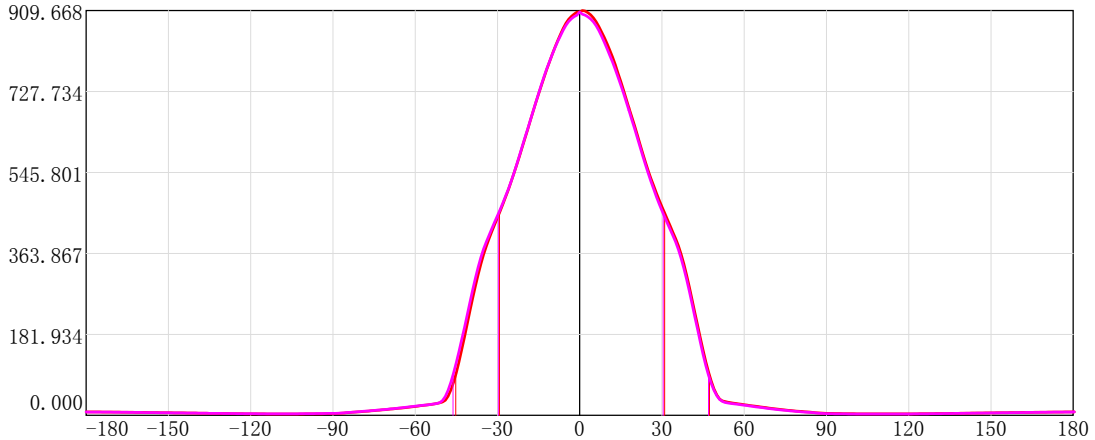
IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2020/01/07

C Plane Distribution Diagram





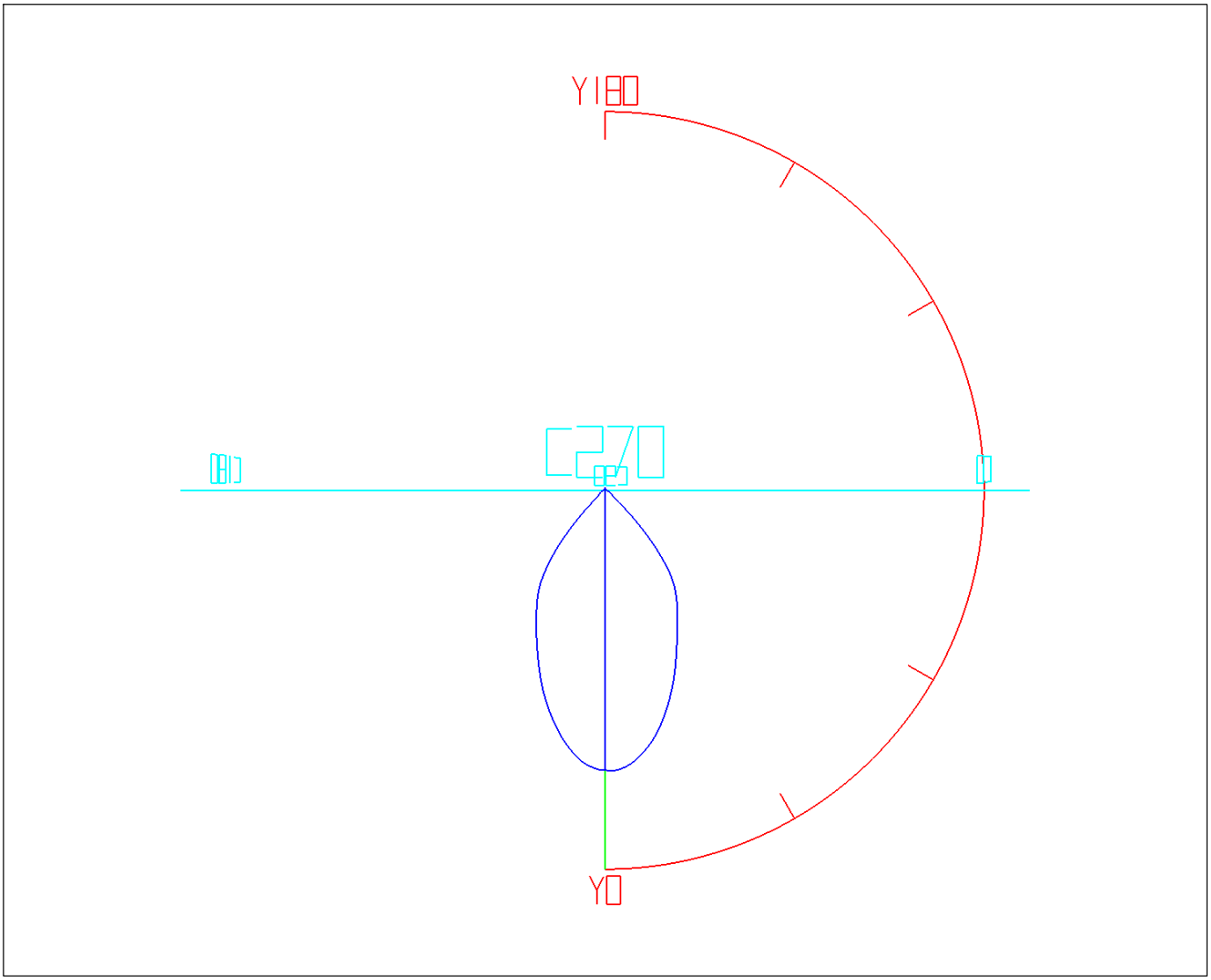
C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C0.0_180.0 :	60.3	92.5	
C90.0_270.0 :	60.1	93.2	

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

3D Light Intensity Distribution Modal

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	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:HCP-813054 2700K RA90 60D.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	0.87	0.87	0.09	0.09	47.0-48.0	5.74	858.92	0.60	89.87
1.0-2.0	2.59	3.46	0.27	0.36	48.0-49.0	4.54	863.45	0.47	90.35
2.0-3.0	4.30	7.76	0.45	0.81	49.0-50.0	3.62	867.07	0.38	90.73
3.0-4.0	5.99	13.75	0.63	1.44	50.0-51.0	3.01	870.08	0.31	91.04
4.0-5.0	7.64	21.38	0.80	2.24	51.0-52.0	2.66	872.74	0.28	91.32
5.0-6.0	9.23	30.62	0.97	3.20	52.0-53.0	2.50	875.25	0.26	91.58
6.0-7.0	10.77	41.39	1.13	4.33	53.0-54.0	2.42	877.67	0.25	91.83
7.0-8.0	12.25	53.63	1.28	5.61	54.0-55.0	2.37	880.04	0.25	92.08
8.0-9.0	13.65	67.28	1.43	7.04	55.0-56.0	2.32	882.35	0.24	92.32
9.0-10.0	14.99	82.27	1.57	8.61	56.0-57.0	2.27	884.62	0.24	92.56
10.0-11.0	16.24	98.51	1.70	10.31	57.0-58.0	2.23	886.85	0.23	92.79
11.0-12.0	17.42	115.93	1.82	12.13	58.0-59.0	2.17	889.02	0.23	93.02
12.0-13.0	18.51	134.44	1.94	14.07	59.0-60.0	2.12	891.14	0.22	93.24
13.0-14.0	19.50	153.94	2.04	16.11	60.0-61.0	2.06	893.20	0.22	93.46
14.0-15.0	20.41	174.35	2.14	18.24	61.0-62.0	2.01	895.21	0.21	93.67
15.0-16.0	21.24	195.59	2.22	20.47	62.0-63.0	1.95	897.16	0.20	93.87
16.0-17.0	21.97	217.56	2.30	22.76	63.0-64.0	1.89	899.05	0.20	94.07
17.0-18.0	22.60	240.16	2.37	25.13	64.0-65.0	1.84	900.89	0.19	94.26
18.0-19.0	23.16	263.32	2.42	27.55	65.0-66.0	1.77	902.66	0.19	94.45
19.0-20.0	23.62	286.94	2.47	30.02	66.0-67.0	1.71	904.38	0.18	94.63
20.0-21.0	24.00	310.93	2.51	32.53	67.0-68.0	1.65	906.03	0.17	94.80
21.0-22.0	24.29	335.23	2.54	35.08	68.0-69.0	1.59	907.62	0.17	94.97
22.0-23.0	24.52	359.75	2.57	37.64	69.0-70.0	1.53	909.15	0.16	95.13
23.0-24.0	24.69	384.44	2.58	40.23	70.0-71.0	1.47	910.62	0.15	95.28
24.0-25.0	24.81	409.25	2.60	42.82	71.0-72.0	1.41	912.04	0.15	95.43
25.0-26.0	24.90	434.16	2.61	45.43	72.0-73.0	1.35	913.39	0.14	95.57
26.0-27.0	24.96	459.12	2.61	48.04	73.0-74.0	1.30	914.69	0.14	95.71
27.0-28.0	24.99	484.11	2.61	50.65	74.0-75.0	1.24	915.92	0.13	95.84
28.0-29.0	24.99	509.10	2.62	53.27	75.0-76.0	1.18	917.11	0.12	95.96
29.0-30.0	24.98	534.09	2.61	55.88	76.0-77.0	1.13	918.23	0.12	96.08
30.0-31.0	24.94	559.03	2.61	58.49	77.0-78.0	1.07	919.31	0.11	96.19
31.0-32.0	24.86	583.88	2.60	61.09	78.0-79.0	1.02	920.32	0.11	96.30
32.0-33.0	24.71	608.59	2.59	63.68	79.0-80.0	0.97	921.29	0.10	96.40
33.0-34.0	24.49	633.08	2.56	66.24	80.0-81.0	0.92	922.21	0.10	96.49
34.0-35.0	24.15	657.23	2.53	68.77	81.0-82.0	0.87	923.08	0.09	96.59
35.0-36.0	23.65	680.89	2.47	71.24	82.0-83.0	0.82	923.90	0.09	96.67
36.0-37.0	22.94	703.82	2.40	73.64	83.0-84.0	0.77	924.67	0.08	96.75
37.0-38.0	21.99	725.81	2.30	75.94	84.0-85.0	0.73	925.40	0.08	96.83
38.0-39.0	20.81	746.62	2.18	78.12	85.0-86.0	0.67	926.07	0.07	96.90
39.0-40.0	19.42	766.04	2.03	80.15	86.0-87.0	0.61	926.68	0.06	96.96
40.0-41.0	17.84	783.87	1.87	82.02	87.0-88.0	0.56	927.25	0.06	97.02
41.0-42.0	16.10	799.98	1.69	83.70	88.0-89.0	0.52	927.77	0.05	97.08
42.0-43.0	14.28	814.25	1.49	85.20	89.0-90.0	0.49	928.26	0.05	97.13
43.0-44.0	12.41	826.66	1.30	86.50	90.0-91.0	0.47	928.73	0.05	97.18
44.0-45.0	10.56	837.22	1.10	87.60	91.0-92.0	0.46	929.20	0.05	97.23
45.0-46.0	8.79	846.01	0.92	88.52	92.0-93.0	0.45	929.65	0.05	97.27
46.0-47.0	7.17	853.18	0.75	89.27	93.0-94.0	0.44	930.09	0.05	97.32

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

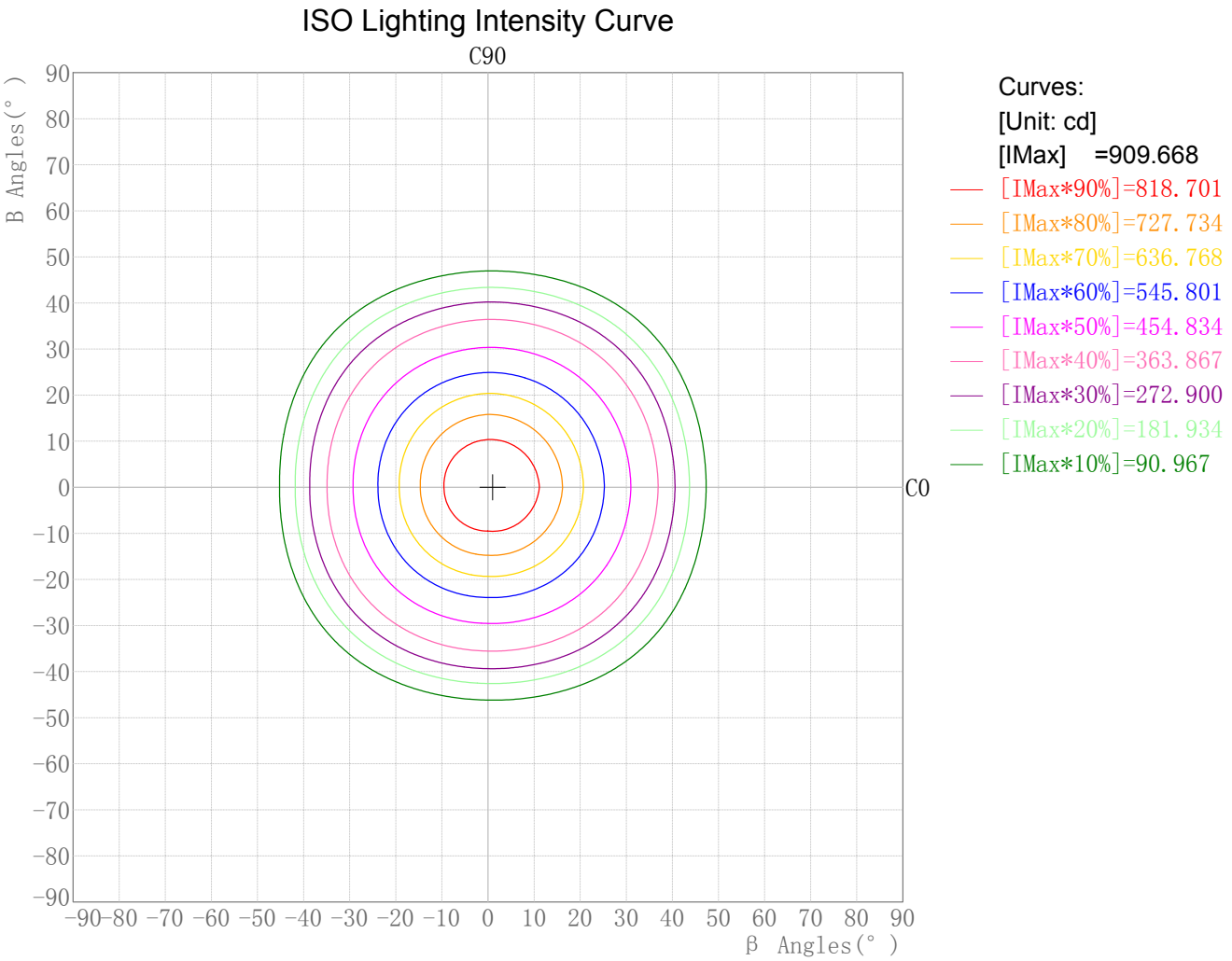
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.43	930.52	0.05	97.36
95.0-96.0	0.42	930.95	0.04	97.41
96.0-97.0	0.42	931.36	0.04	97.45
97.0-98.0	0.41	931.77	0.04	97.49
98.0-99.0	0.40	932.17	0.04	97.54
99.0-100.0	0.39	932.56	0.04	97.58
100.0-101.0	0.39	932.94	0.04	97.62
101.0-102.0	0.38	933.32	0.04	97.66
102.0-103.0	0.37	933.70	0.04	97.70
103.0-104.0	0.37	934.07	0.04	97.74
104.0-105.0	0.36	934.43	0.04	97.77
105.0-106.0	0.36	934.79	0.04	97.81
106.0-107.0	0.36	935.15	0.04	97.85
107.0-108.0	0.35	935.50	0.04	97.89
108.0-109.0	0.35	935.85	0.04	97.92
109.0-110.0	0.35	936.20	0.04	97.96
110.0-111.0	0.35	936.55	0.04	98.00
111.0-112.0	0.35	936.89	0.04	98.03
112.0-113.0	0.34	937.24	0.04	98.07
113.0-114.0	0.34	937.58	0.04	98.10
114.0-115.0	0.34	937.92	0.04	98.14
115.0-116.0	0.34	938.27	0.04	98.17
116.0-117.0	0.34	938.61	0.04	98.21
117.0-118.0	0.34	938.95	0.04	98.25
118.0-119.0	0.34	939.29	0.04	98.28
119.0-120.0	0.34	939.64	0.04	98.32
120.0-121.0	0.34	939.98	0.04	98.35
121.0-122.0	0.34	940.33	0.04	98.39
122.0-123.0	0.35	940.67	0.04	98.43
123.0-124.0	0.35	941.02	0.04	98.46
124.0-125.0	0.35	941.37	0.04	98.50
125.0-126.0	0.35	941.72	0.04	98.54
126.0-127.0	0.35	942.07	0.04	98.57
127.0-128.0	0.35	942.42	0.04	98.61
128.0-129.0	0.35	942.77	0.04	98.65
129.0-130.0	0.35	943.13	0.04	98.68
130.0-131.0	0.35	943.48	0.04	98.72
131.0-132.0	0.36	943.84	0.04	98.76
132.0-133.0	0.36	944.19	0.04	98.80
133.0-134.0	0.36	944.55	0.04	98.83
134.0-135.0	0.36	944.91	0.04	98.87
135.0-136.0	0.36	945.27	0.04	98.91
136.0-137.0	0.36	945.63	0.04	98.95
137.0-138.0	0.36	945.99	0.04	98.98
138.0-139.0	0.36	946.35	0.04	99.02
139.0-140.0	0.36	946.71	0.04	99.06
140.0-141.0	0.36	947.06	0.04	99.10
141.0-142.0	0.35	947.42	0.04	99.13
142.0-143.0	0.35	947.77	0.04	99.17
143.0-144.0	0.35	948.12	0.04	99.21
144.0-145.0	0.35	948.47	0.04	99.24
145.0-146.0	0.34	948.81	0.04	99.28
146.0-147.0	0.34	949.15	0.04	99.31
147.0-148.0	0.33	949.48	0.04	99.35
148.0-149.0	0.33	949.81	0.03	99.38
149.0-150.0	0.32	950.14	0.03	99.42
150.0-151.0	0.32	950.46	0.03	99.45
151.0-152.0	0.31	950.77	0.03	99.48
152.0-153.0	0.31	951.08	0.03	99.52
153.0-154.0	0.30	951.38	0.03	99.55
154.0-155.0	0.29	951.67	0.03	99.58
155.0-156.0	0.29	951.95	0.03	99.61
156.0-157.0	0.28	952.23	0.03	99.64
157.0-158.0	0.27	952.50	0.03	99.66
158.0-159.0	0.26	952.76	0.03	99.69
159.0-160.0	0.25	953.02	0.03	99.72
160.0-161.0	0.24	953.26	0.03	99.74
161.0-162.0	0.23	953.50	0.02	99.77
162.0-163.0	0.23	953.72	0.02	99.79
163.0-164.0	0.21	953.94	0.02	99.81
164.0-165.0	0.20	954.14	0.02	99.84
165.0-166.0	0.19	954.33	0.02	99.86
166.0-167.0	0.18	954.52	0.02	99.88
167.0-168.0	0.17	954.69	0.02	99.89
168.0-169.0	0.16	954.85	0.02	99.91
169.0-170.0	0.15	954.99	0.02	99.92
170.0-171.0	0.13	955.13	0.01	99.94
171.0-172.0	0.12	955.25	0.01	99.95
172.0-173.0	0.11	955.35	0.01	99.96
173.0-174.0	0.09	955.45	0.01	99.97
174.0-175.0	0.08	955.53	0.01	99.98
175.0-176.0	0.07	955.59	0.01	99.99
176.0-177.0	0.05	955.64	0.01	99.99
177.0-178.0	0.04	955.68	0.00	100.00
178.0-179.0	0.02	955.70	0.00	100.00
179.0-180.0	0.01	955.71	0.00	100.00

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2020/01/07



Maximum Light Intensity(cd): 909.67
Maximum Cand.@Angle: H=1.0°,V=0.0°

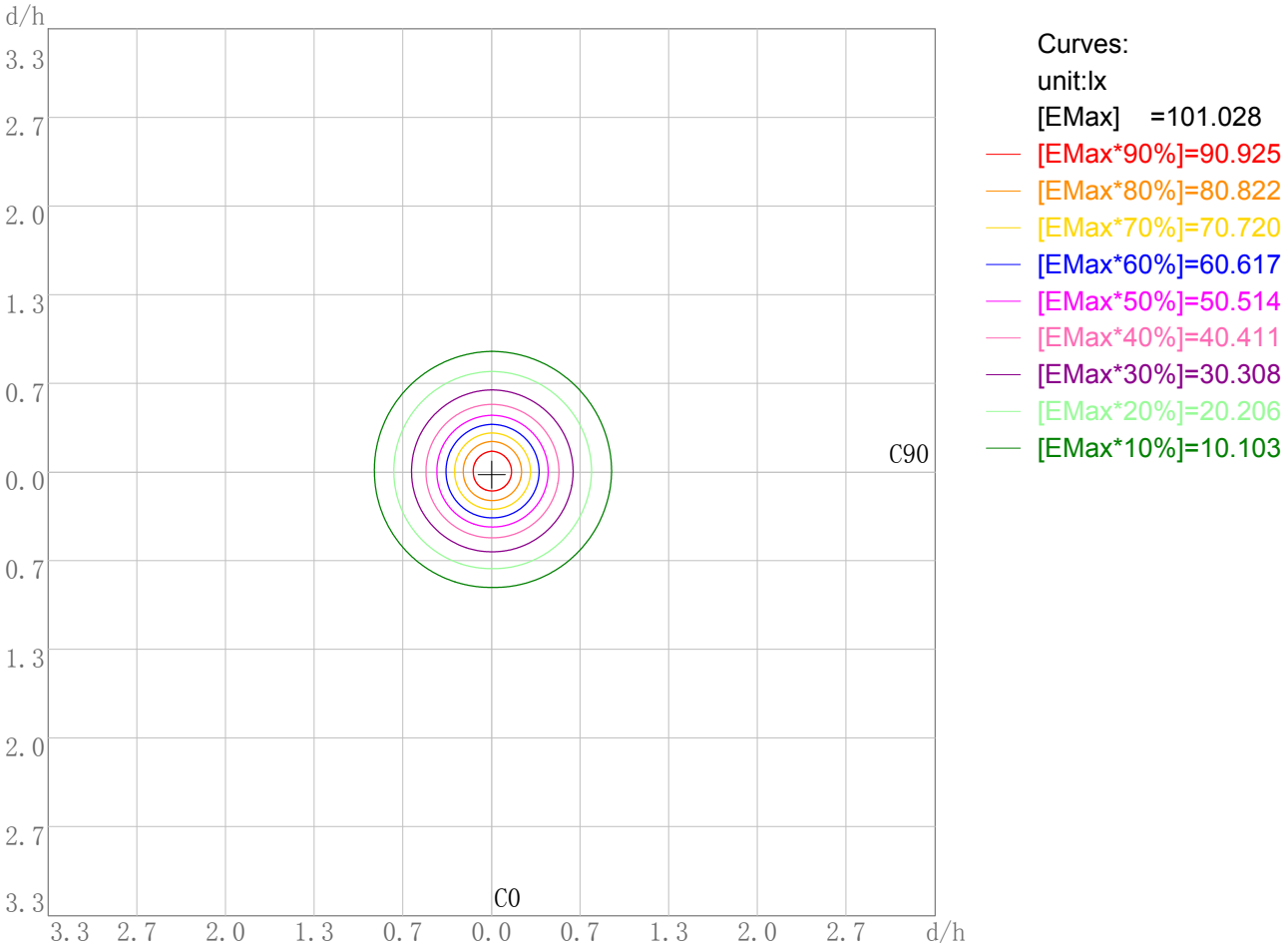
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Plane ISO-Illuminance Diagram

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	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): 101.03
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

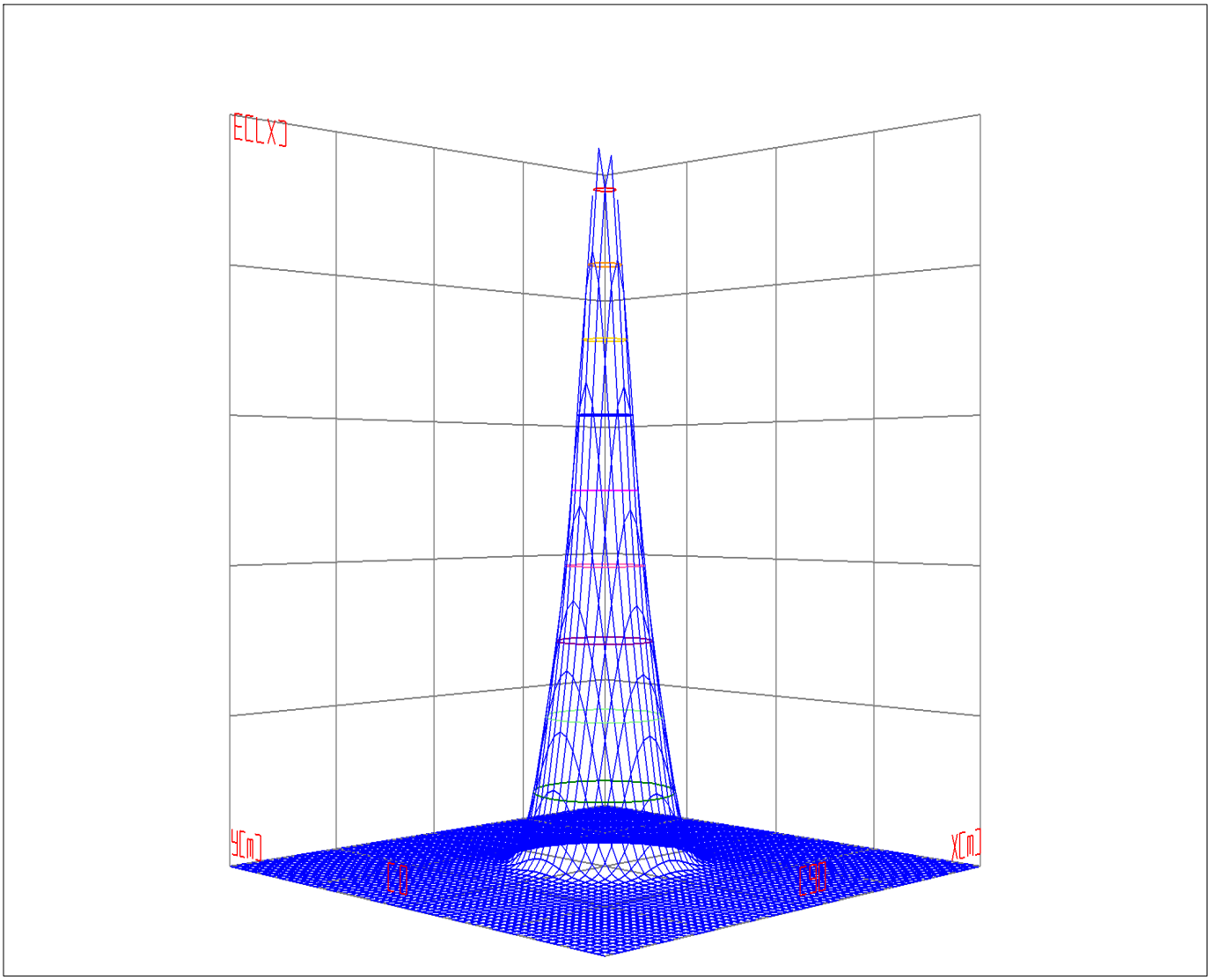
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

3D Plane ISO Illuminance Diagram

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	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

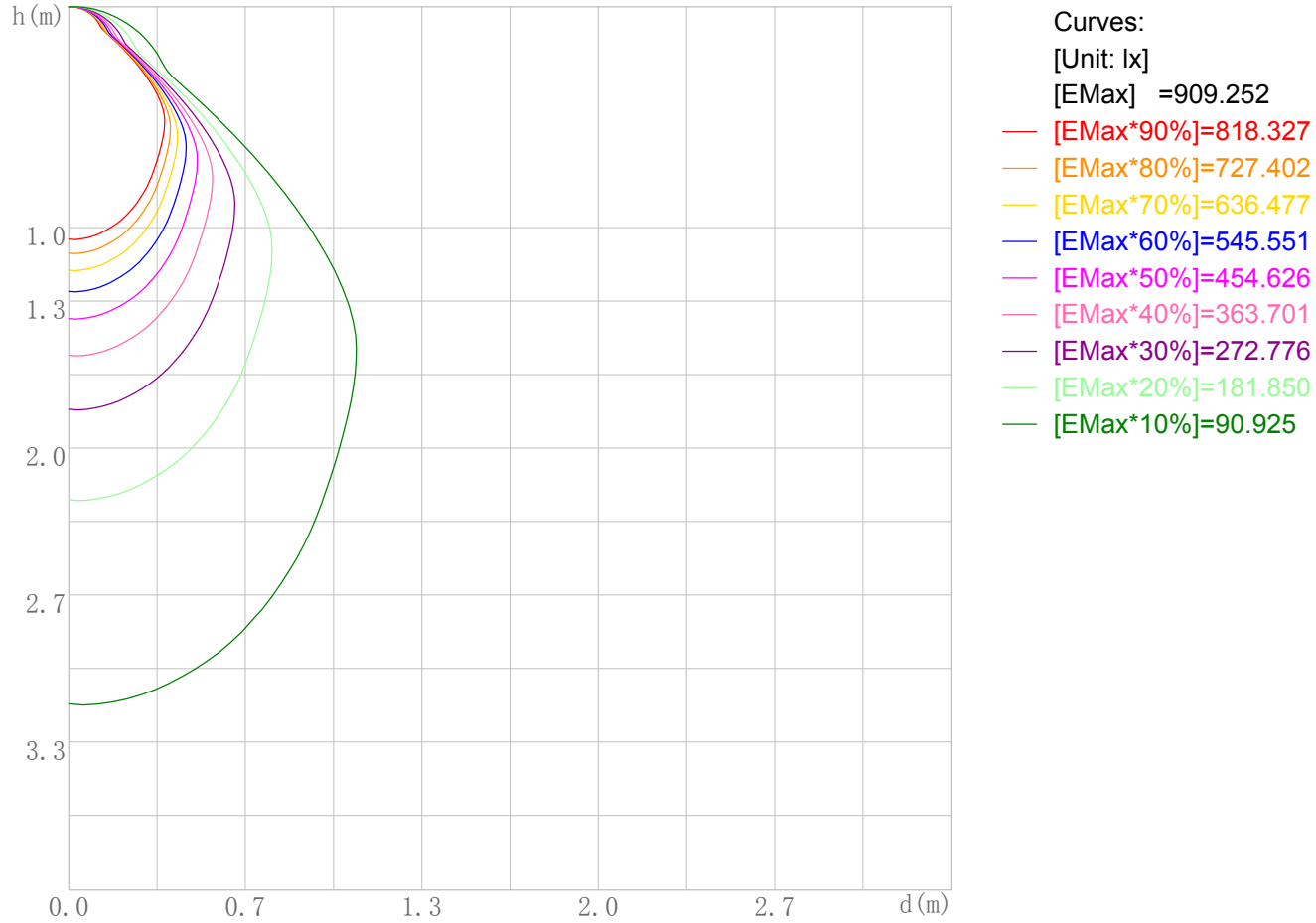
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Space ISO Illuminance Diagram

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2020/01/07

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:909.25lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:909.668cd,0eg

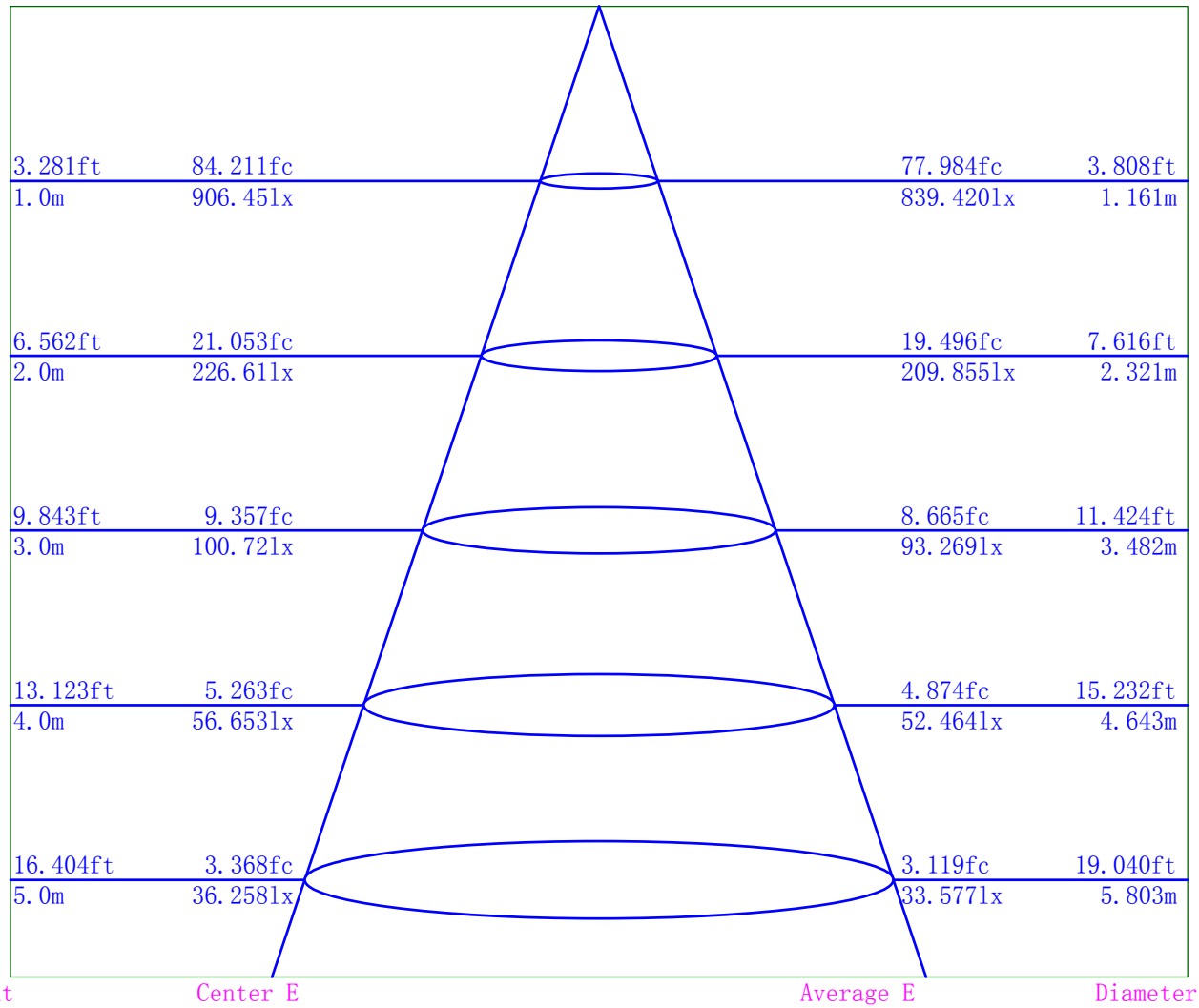
VOLNIC GON-2000 分布光度计,伏达光电技术有限公司
地址:杭州市益乐路223#银江科技园1幢3楼,邮编:310012
电话：(+86)571-88858219,88910474,www.volnic.cn

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Illuminance-Distance Diagram

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2020/01/07

Illuminance-Distance Curve



Beam Angle:60.3

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Indoor Luminance Limiting Curves

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	Test Machine:GON-2000	Test Date: 2020/01/07

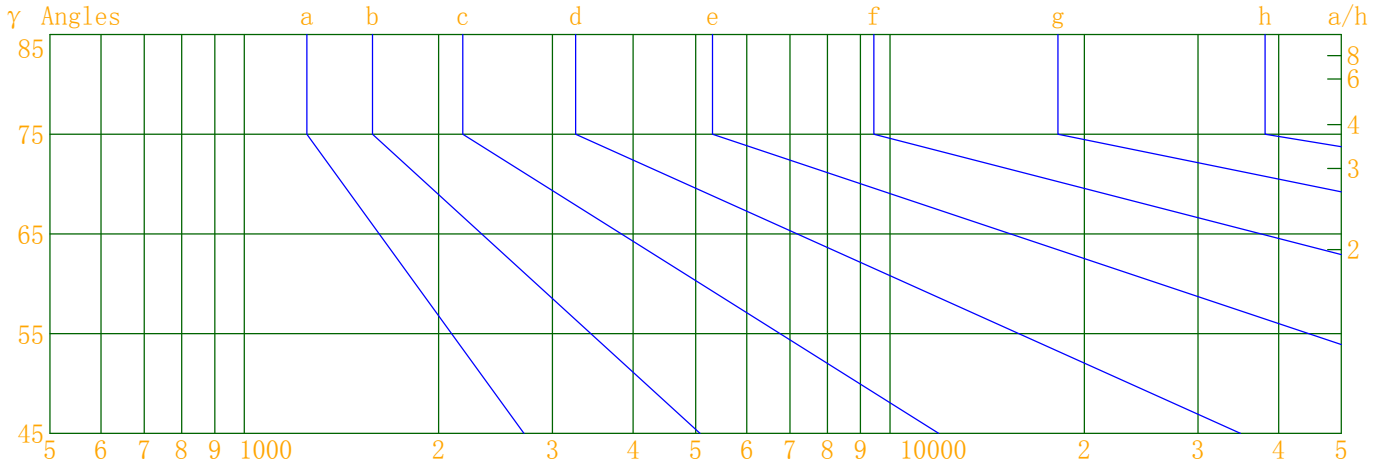
Glare Grade Table

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	334	116	81	78	76	75	76	87	128
C90	312	111	76	74	71	69	71	79	117

Luminance Limiting Curve



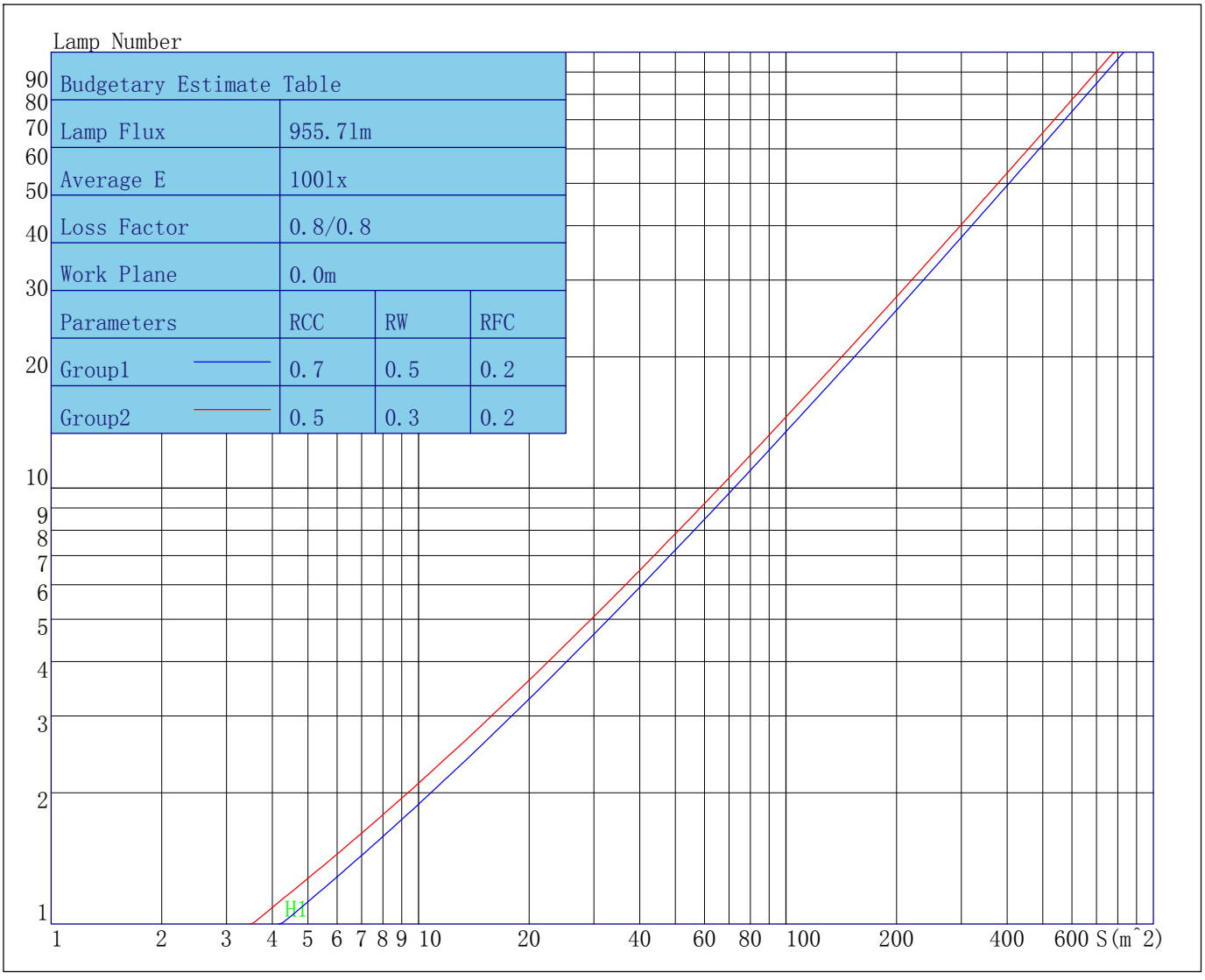
Luminous Size: Length(m)=0.498 Width(m)=0.498 Height(m)=0.750 Area(m^2)=0.621504
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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:HCP-813054 2700K RA90 60D.IES

Indoor Budgetary Estimate Table

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	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

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IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Indoor Coefficient of Utilization Table

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	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	108	106	103	109	106	103	101	101	99	97	97	95	94	93	92	91	89
2	105	100	95	91	103	98	93	90	94	90	87	90	87	85	87	85	83	81
3	99	92	86	81	97	90	85	81	87	82	79	84	80	77	81	78	76	74
4	93	85	78	74	91	83	77	73	81	76	72	78	74	71	76	72	69	68
5	88	78	72	67	86	77	71	67	75	70	66	73	68	65	71	67	64	62
6	83	73	66	61	81	72	66	61	70	65	60	68	63	60	67	62	59	57
7	78	68	61	57	77	67	61	56	65	60	56	64	59	55	63	58	55	53
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	54	51	49
9	70	59	53	49	69	59	53	48	58	52	48	56	51	48	55	51	47	46
10	66	56	50	45	65	55	49	45	54	49	45	53	48	45	52	48	44	43

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Unified Glare Rating Table

Lum.Name: HCP-813054 2700K RA90 60D	Lum.Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: QUalty peatment
Manufacture: HAVIT COMMERCIAL	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	4.8	5.9	5.2	6.2	6.6	4.6	5.6	5.0	6.0	6.4
	Y=3H	4.9	5.9	5.4	6.3	6.7	4.7	5.6	5.1	6.0	6.5
	Y=4H	5.0	5.9	5.5	6.3	6.8	4.8	5.7	5.2	6.1	6.5
	Y=6H	5.2	6.0	5.6	6.4	6.9	4.9	5.7	5.4	6.1	6.6
	Y=8H	5.3	6.0	5.7	6.5	7.0	5.0	5.7	5.5	6.2	6.7
	Y=12H	5.4	6.1	5.9	6.5	7.0	5.1	5.8	5.6	6.2	6.8
X=4H	Y=2H	4.6	5.5	5.1	5.9	6.4	4.4	5.3	4.9	5.7	6.2
	Y=3H	4.9	5.6	5.4	6.1	6.6	4.7	5.4	5.1	5.9	6.3
	Y=4H	5.1	5.7	5.6	6.2	6.7	4.8	5.5	5.3	6.0	6.5
	Y=6H	5.4	5.9	5.9	6.4	7.0	5.1	5.7	5.6	6.2	6.7
	Y=8H	5.5	6.1	6.1	6.6	7.1	5.2	5.8	5.8	6.3	6.8
	Y=12H	5.7	6.2	6.3	6.7	7.3	5.4	5.9	6.0	6.4	7.0
X=8H	Y=4H	5.1	5.6	5.6	6.1	6.7	4.8	5.4	5.4	5.9	6.4
	Y=6H	5.5	5.9	6.0	6.5	7.1	5.2	5.6	5.8	6.2	6.8
	Y=8H	5.8	6.1	6.3	6.7	7.3	5.5	5.8	6.0	6.4	7.0
	Y=12H	6.1	6.5	6.7	7.0	7.6	5.8	6.1	6.4	6.7	7.3
X=12H	Y=4H	5.1	5.5	5.6	6.1	6.6	4.8	5.3	5.4	5.8	6.4
	Y=6H	5.5	5.9	6.1	6.4	7.0	5.2	5.6	5.8	6.1	6.8
	Y=8H	5.8	6.2	6.4	6.7	7.4	5.5	5.9	6.1	6.4	7.1
Variations with the objerver position at spacings											
S=1.0H		0.2/-0.2					0.2/-0.2				
S=1.5H		0.4/-0.4					0.4/-0.4				
S=2.0H		0.4/-0.5					0.5/-0.5				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		1.3					1.2				

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

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ0.0	906.45	906.45	906.45	906.45
γ1.0	909.67	901.32	906.00	899.22
γ2.0	908.51	899.21	901.61	896.01
γ3.0	905.13	895.68	896.63	891.35
γ4.0	900.09	890.44	889.83	884.89
γ5.0	893.20	884.14	880.82	876.08
γ6.0	884.45	875.50	869.48	865.29
γ7.0	873.79	864.77	856.07	853.02
γ8.0	861.54	852.19	842.21	840.26
γ9.0	849.10	838.49	827.42	826.18
γ10.0	835.53	824.08	811.50	811.25
γ11.0	821.03	809.04	794.50	795.35
γ12.0	804.74	793.60	776.95	778.53
γ13.0	787.66	776.98	758.82	760.86
γ14.0	768.20	759.63	740.42	742.10
γ15.0	750.39	742.26	721.57	722.71
γ16.0	730.93	724.12	702.62	703.13
γ17.0	710.99	704.82	682.78	683.23
γ18.0	690.87	685.13	662.51	663.39
γ19.0	671.51	665.17	641.83	643.38
γ20.0	650.97	644.77	621.12	623.18
γ21.0	630.57	624.23	601.02	602.82
γ22.0	609.52	603.61	581.17	582.68
γ23.0	589.08	583.05	562.03	563.07
γ24.0	569.00	563.34	543.31	544.05
γ25.0	550.16	544.30	525.27	525.87
γ26.0	532.57	525.91	507.27	508.91
γ27.0	515.51	508.20	490.39	492.76
γ28.0	499.18	490.87	474.30	477.06
γ29.0	483.74	474.96	458.89	462.42
γ30.0	468.85	460.09	443.74	448.41
γ31.0	454.66	445.74	428.89	434.54
γ32.0	440.58	431.92	413.72	420.35
γ33.0	426.52	418.30	398.16	405.55
γ34.0	411.86	404.39	381.01	390.77
γ35.0	397.12	389.39	361.86	374.29
γ36.0	381.17	372.60	340.07	355.07
γ37.0	362.10	352.75	316.32	333.17
γ38.0	340.48	330.37	290.81	308.82
γ39.0	315.70	305.82	263.82	282.66
γ40.0	289.18	279.20	235.51	255.04
γ41.0	260.70	251.17	206.09	226.63
γ42.0	231.75	222.23	176.41	198.12
γ43.0	202.51	193.03	147.44	170.27
γ44.0	173.91	164.38	120.21	143.37
γ45.0	146.62	136.94	95.36	118.14
γ46.0	120.99	112.06	74.03	94.87

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ47.0	97.72	90.41	56.68	74.10
γ48.0	77.21	71.79	43.26	56.51
γ49.0	59.83	56.48	34.13	42.70
γ50.0	46.17	44.29	30.20	33.51
γ51.0	36.90	35.94	28.36	28.88
γ52.0	32.81	31.47	26.99	26.91
γ53.0	31.17	29.19	25.89	25.87
γ54.0	29.85	28.00	24.95	25.00
γ55.0	28.75	27.09	24.07	24.23
γ56.0	27.77	26.24	23.37	23.50
γ57.0	26.88	25.42	22.66	22.85
γ58.0	26.01	24.63	21.88	22.16
γ59.0	25.14	23.82	20.95	21.46
γ60.0	24.16	22.99	20.18	20.69
γ61.0	23.27	22.13	19.43	19.99
γ62.0	22.44	21.25	18.72	19.28
γ63.0	21.65	20.40	18.03	18.64
γ64.0	20.85	19.59	17.32	17.95
γ65.0	19.99	18.78	16.65	17.24
γ66.0	19.17	17.90	16.02	16.56
γ67.0	18.33	17.10	15.38	15.89
γ68.0	17.46	16.33	14.75	15.21
γ69.0	16.64	15.50	14.21	14.62
γ70.0	15.89	14.75	13.65	14.02
γ71.0	15.12	14.07	13.07	13.36
γ72.0	14.32	13.33	12.56	12.81
γ73.0	13.64	12.64	12.02	12.27
γ74.0	12.95	12.03	11.37	11.69
γ75.0	12.23	11.37	10.87	11.18
γ76.0	11.63	10.72	10.38	10.71
γ77.0	11.02	10.17	9.81	10.20
γ78.0	10.38	9.57	9.24	9.66
γ79.0	9.85	8.96	8.82	9.21
γ80.0	9.38	8.52	8.40	8.76
γ81.0	8.88	8.06	7.88	8.19
γ82.0	8.27	7.54	7.43	7.72
γ83.0	7.82	7.06	7.03	7.30
γ84.0	7.39	6.68	6.63	6.90
γ85.0	6.93	6.32	6.05	6.42
γ86.0	6.26	5.89	5.44	5.88
γ87.0	5.81	5.20	4.95	5.51
γ88.0	5.41	4.71	4.57	5.09
γ89.0	4.98	4.30	4.17	4.84
γ90.0	4.72	3.95	4.07	4.71
γ91.0	4.61	3.87	3.98	4.61
γ92.0	4.50	3.78	3.90	4.51
γ93.0	4.40	3.70	3.83	4.41

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	4.29	3.62	3.76	4.31
γ 95.0	4.20	3.56	3.68	4.23
γ 96.0	4.12	3.48	3.62	4.14
γ 97.0	4.04	3.42	3.57	4.07
γ 98.0	3.96	3.37	3.51	4.00
γ 99.0	3.88	3.31	3.46	3.94
γ 100.0	3.82	3.26	3.42	3.88
γ 101.0	3.77	3.22	3.39	3.84
γ 102.0	3.71	3.18	3.36	3.79
γ 103.0	3.66	3.15	3.34	3.75
γ 104.0	3.62	3.13	3.32	3.72
γ 105.0	3.59	3.10	3.30	3.69
γ 106.0	3.55	3.08	3.29	3.67
γ 107.0	3.52	3.08	3.29	3.66
γ 108.0	3.51	3.06	3.30	3.64
γ 109.0	3.48	3.06	3.30	3.64
γ 110.0	3.47	3.06	3.31	3.63
γ 111.0	3.47	3.08	3.32	3.63
γ 112.0	3.47	3.09	3.34	3.65
γ 113.0	3.48	3.11	3.36	3.66
γ 114.0	3.49	3.13	3.40	3.67
γ 115.0	3.50	3.15	3.43	3.71
γ 116.0	3.52	3.17	3.47	3.72
γ 117.0	3.54	3.21	3.52	3.75
γ 118.0	3.57	3.25	3.56	3.79
γ 119.0	3.59	3.29	3.60	3.82
γ 120.0	3.62	3.33	3.65	3.86
γ 121.0	3.67	3.37	3.71	3.91
γ 122.0	3.72	3.42	3.76	3.95
γ 123.0	3.76	3.48	3.83	4.00
γ 124.0	3.80	3.54	3.89	4.06
γ 125.0	3.85	3.59	3.96	4.11
γ 126.0	3.91	3.67	4.03	4.17
γ 127.0	3.98	3.73	4.10	4.24
γ 128.0	4.04	3.80	4.17	4.30
γ 129.0	4.11	3.87	4.25	4.36
γ 130.0	4.17	3.94	4.33	4.44
γ 131.0	4.24	4.01	4.42	4.51
γ 132.0	4.32	4.10	4.51	4.60
γ 133.0	4.39	4.18	4.59	4.67
γ 134.0	4.48	4.27	4.69	4.75
γ 135.0	4.56	4.35	4.78	4.83
γ 136.0	4.64	4.44	4.87	4.91
γ 137.0	4.74	4.53	4.96	5.00
γ 138.0	4.82	4.62	5.05	5.09
γ 139.0	4.91	4.71	5.14	5.16
γ 140.0	5.00	4.80	5.23	5.25

IES Indoor Report
Photometric Filename:HCP-813054 2700K RA90 60D.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	5.08	4.89	5.32	5.33
γ 142.0	5.17	4.98	5.41	5.40
γ 143.0	5.24	5.06	5.50	5.48
γ 144.0	5.34	5.14	5.59	5.56
γ 145.0	5.41	5.23	5.67	5.64
γ 146.0	5.49	5.30	5.75	5.70
γ 147.0	5.57	5.39	5.83	5.77
γ 148.0	5.64	5.47	5.90	5.85
γ 149.0	5.72	5.54	5.98	5.91
γ 150.0	5.78	5.62	6.05	5.99
γ 151.0	5.87	5.71	6.12	6.05
γ 152.0	5.96	5.79	6.20	6.13
γ 153.0	6.03	5.87	6.27	6.19
γ 154.0	6.11	5.94	6.34	6.26
γ 155.0	6.18	6.03	6.42	6.33
γ 156.0	6.26	6.11	6.50	6.41
γ 157.0	6.34	6.20	6.58	6.48
γ 158.0	6.42	6.27	6.66	6.56
γ 159.0	6.50	6.36	6.74	6.62
γ 160.0	6.59	6.44	6.82	6.69
γ 161.0	6.66	6.52	6.89	6.77
γ 162.0	6.74	6.61	6.97	6.84
γ 163.0	6.83	6.68	7.04	6.91
γ 164.0	6.90	6.76	7.11	6.98
γ 165.0	6.98	6.84	7.18	7.04
γ 166.0	7.05	6.92	7.25	7.12
γ 167.0	7.13	6.99	7.32	7.16
γ 168.0	7.20	7.06	7.38	7.24
γ 169.0	7.27	7.14	7.43	7.29
γ 170.0	7.34	7.20	7.50	7.35
γ 171.0	7.40	7.26	7.57	7.40
γ 172.0	7.48	7.33	7.62	7.46
γ 173.0	7.54	7.38	7.67	7.51
γ 174.0	7.60	7.44	7.72	7.57
γ 175.0	7.65	7.50	7.75	7.59
γ 176.0	7.69	7.54	7.79	7.64
γ 177.0	7.73	7.58	7.82	7.67
γ 178.0	7.76	7.61	7.83	7.69
γ 179.0	7.78	7.63	7.85	7.70
γ 180.0	7.78	7.78	7.78	7.78