IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Indoor Luminaire Photometric Data

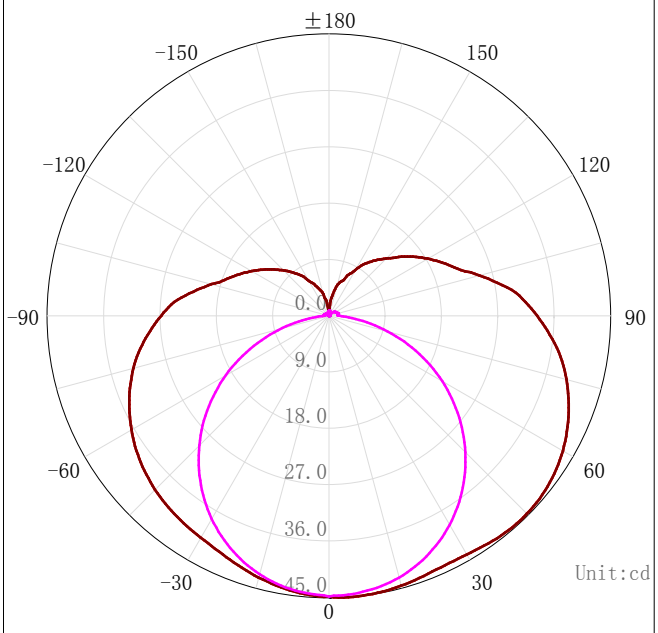
Description Information

Luminary Name: F21A-24V-5050-60-5700K		Lum. Catelog:	Test ID: 001
Lamp Name: LED		Lamp Catelog: F21A-24V-5050-60-5	Test Date: 2018/11/19
Manufacture: Olympia Lighting Co., Ltd		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: LAB001		Frequency(Hz):	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.015m*1.000m*0.025m		Lum.Area(m2):0.040	Lum.W(kg): 0.300
Test System: C, γ	Test Step: C=45.0 γ=1.0	Temp.(℃): 25	Humidity(%):

Character Parameter

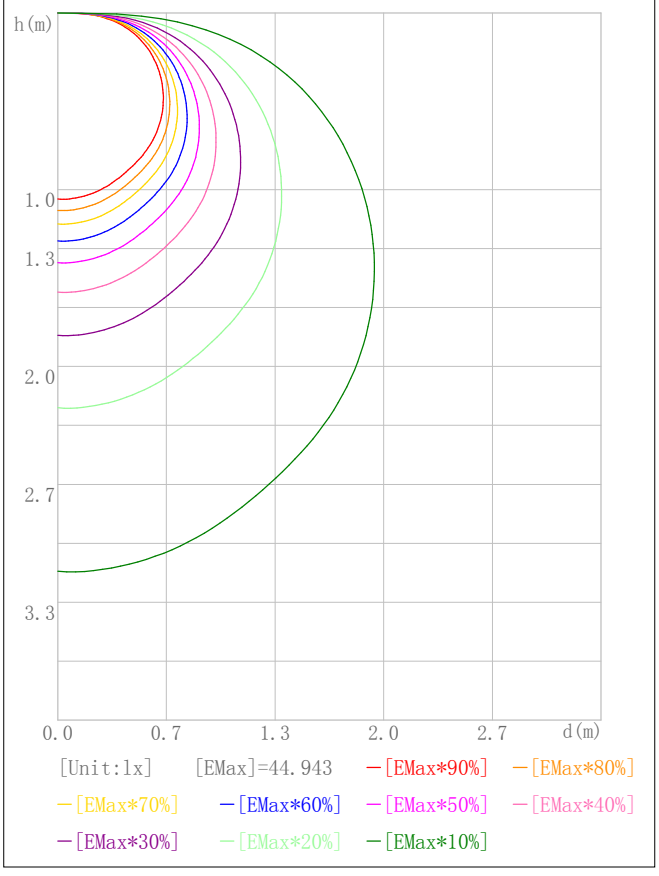
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 252.440	Luminary Flux(lm): 252.442	Field Angle(10%Imax): 326.7(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 192.628lm 76.31%
Rated Voltage(V):	Luminary EER(lm/W): 23.815	Up Lumens&Percent: 59.815lm 23.69%
Tested Power(W): 10.600	Max.Candela(cd): 45.046	S/MH: C0_a180=1.457 C90_270=1.260
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=4.0	CIE Type: General Diffuse
Tested Electrics(V,A,pf):24.0,0.444,1.000	Beam Angle(50%Imax): 207.7(°)	ErP Φuse(120°): 114.965lm
Lamp Size(W*L*H):0.015m*1.000m*0.025m	Left=-99.1° ,Right=108.6°	IRF(%): 91.918

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
C0.0_180.0 :	207.7	326.7
C0.0_180.0 :	207.7	326.7
C90.0_270.0 :	113.1	162.4

C0 Space ISO Illuminance Curve



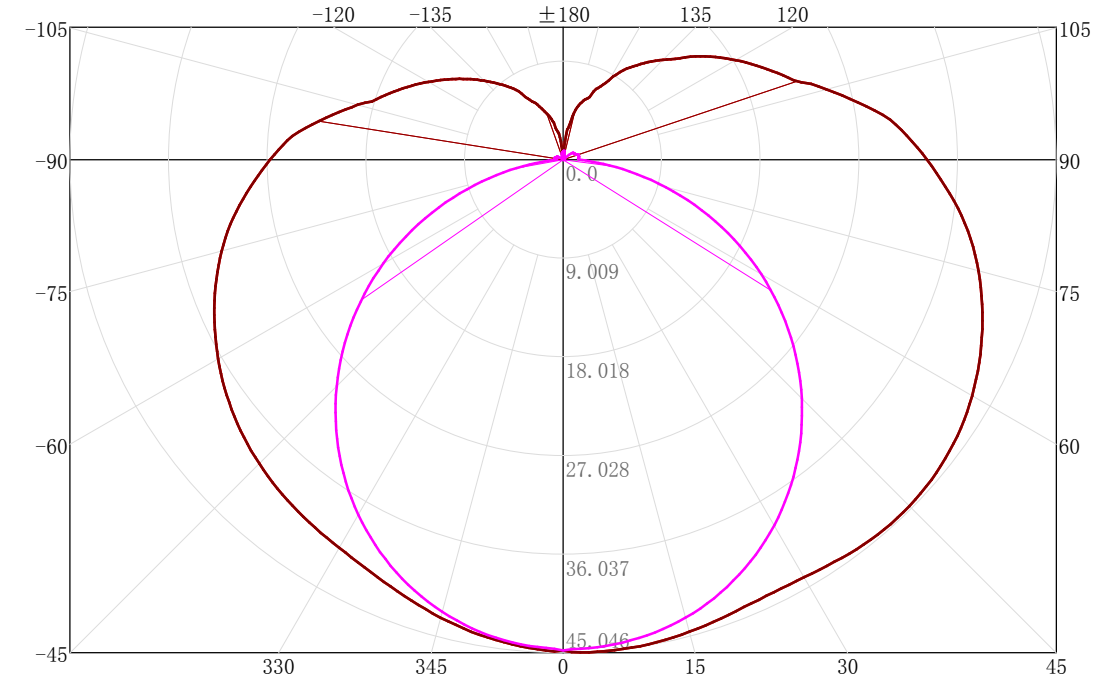
[Unit:lx] [EMax]=44.943 —[EMax*90%] —[EMax*80%] —[EMax*70%] —[EMax*60%] —[EMax*50%] —[EMax*40%] —[EMax*30%] —[EMax*20%] —[EMax*10%]

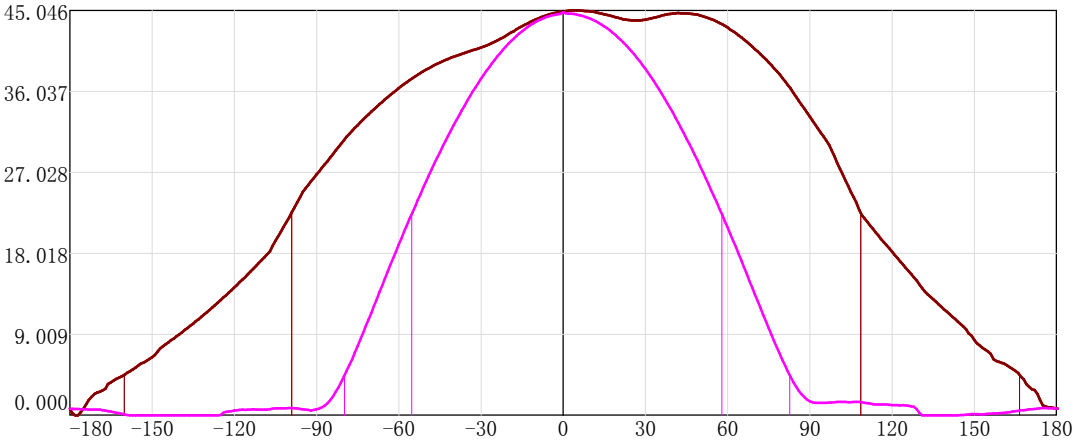
IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

2D Plane Light Intensity Distribution Curve

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

C Plane Distribution Diagram





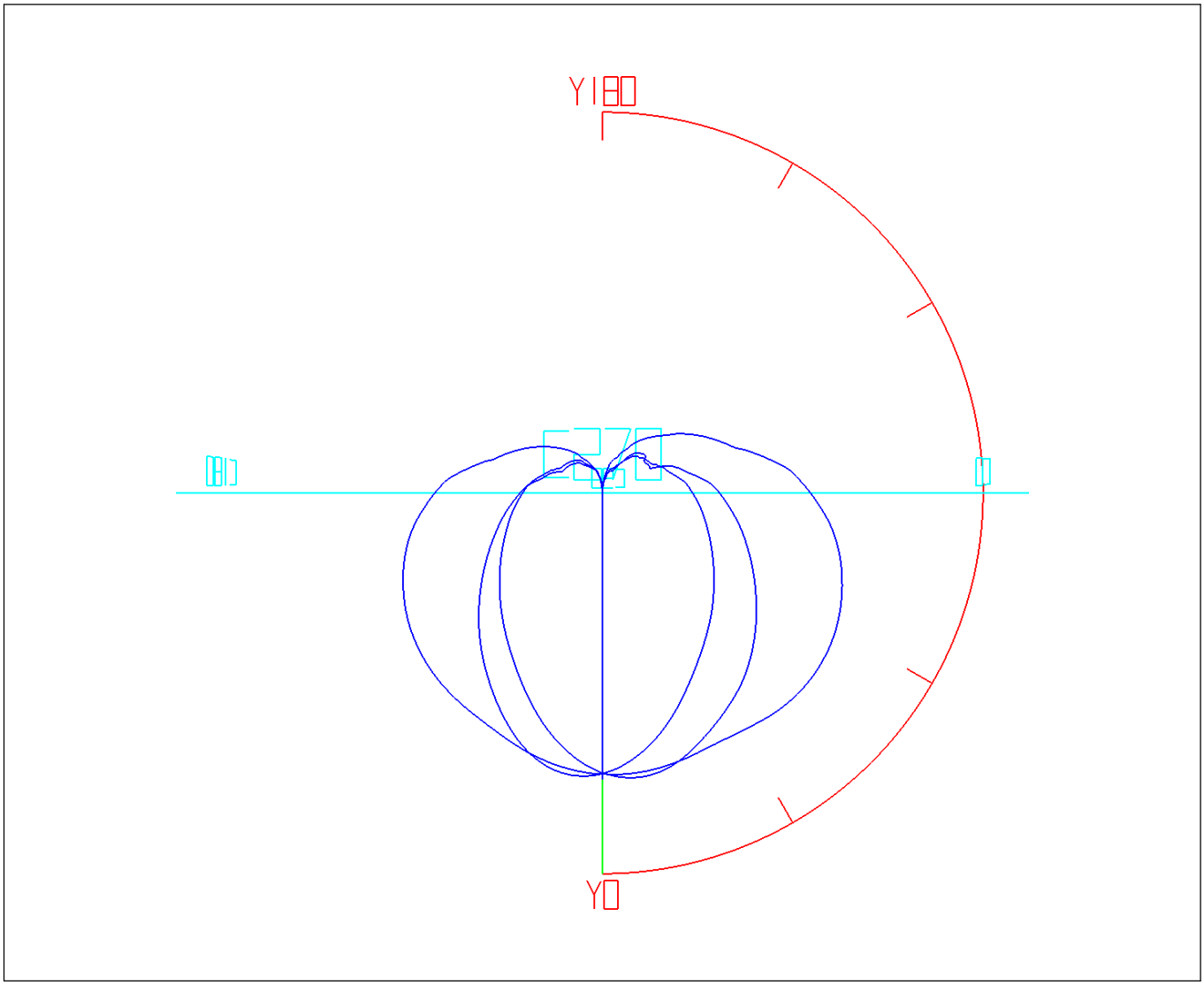
C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C0.0_180.0 :	207.7	326.7	
C0.0_180.0 :	207.7	326.7	
C90.0_270.0 :	113.1	162.4	

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

3D Light Intensity Distribution Modal

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

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:F21A-24V-5050-60-5700K.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	0.04	0.04	0.02	0.02	47.0-48.0	2.85	81.96	1.13	32.47
1.0-2.0	0.13	0.17	0.05	0.07	48.0-49.0	2.86	84.82	1.13	33.60
2.0-3.0	0.21	0.39	0.08	0.15	49.0-50.0	2.88	87.70	1.14	34.74
3.0-4.0	0.30	0.68	0.12	0.27	50.0-51.0	2.89	90.60	1.15	35.89
4.0-5.0	0.38	1.07	0.15	0.42	51.0-52.0	2.91	93.50	1.15	37.04
5.0-6.0	0.47	1.54	0.19	0.61	52.0-53.0	2.91	96.42	1.15	38.19
6.0-7.0	0.55	2.09	0.22	0.83	53.0-54.0	2.92	99.34	1.16	39.35
7.0-8.0	0.64	2.73	0.25	1.08	54.0-55.0	2.93	102.26	1.16	40.51
8.0-9.0	0.72	3.45	0.28	1.36	55.0-56.0	2.93	105.19	1.16	41.67
9.0-10.0	0.80	4.25	0.32	1.68	56.0-57.0	2.93	108.12	1.16	42.83
10.0-11.0	0.88	5.13	0.35	2.03	57.0-58.0	2.93	111.05	1.16	43.99
11.0-12.0	0.96	6.09	0.38	2.41	58.0-59.0	2.92	113.97	1.16	45.15
12.0-13.0	1.04	7.13	0.41	2.82	59.0-60.0	2.92	116.89	1.15	46.30
13.0-14.0	1.12	8.25	0.44	3.27	60.0-61.0	2.91	119.79	1.15	47.45
14.0-15.0	1.20	9.45	0.47	3.74	61.0-62.0	2.90	122.69	1.15	48.60
15.0-16.0	1.27	10.72	0.50	4.25	62.0-63.0	2.88	125.57	1.14	49.74
16.0-17.0	1.35	12.06	0.53	4.78	63.0-64.0	2.87	128.44	1.14	50.88
17.0-18.0	1.42	13.48	0.56	5.34	64.0-65.0	2.85	131.29	1.13	52.01
18.0-19.0	1.49	14.97	0.59	5.93	65.0-66.0	2.83	134.12	1.12	53.13
19.0-20.0	1.56	16.53	0.62	6.55	66.0-67.0	2.81	136.93	1.11	54.24
20.0-21.0	1.63	18.15	0.64	7.19	67.0-68.0	2.79	139.71	1.10	55.35
21.0-22.0	1.69	19.85	0.67	7.86	68.0-69.0	2.76	142.48	1.09	56.44
22.0-23.0	1.76	21.61	0.70	8.56	69.0-70.0	2.74	145.21	1.08	57.52
23.0-24.0	1.82	23.43	0.72	9.28	70.0-71.0	2.71	147.92	1.07	58.60
24.0-25.0	1.88	25.31	0.75	10.03	71.0-72.0	2.68	150.60	1.06	59.66
25.0-26.0	1.94	27.25	0.77	10.80	72.0-73.0	2.65	153.25	1.05	60.71
26.0-27.0	2.00	29.26	0.79	11.59	73.0-74.0	2.62	155.87	1.04	61.74
27.0-28.0	2.06	31.32	0.82	12.41	74.0-75.0	2.58	158.45	1.02	62.77
28.0-29.0	2.11	33.43	0.84	13.24	75.0-76.0	2.55	161.00	1.01	63.78
29.0-30.0	2.17	35.60	0.86	14.10	76.0-77.0	2.51	163.51	1.00	64.77
30.0-31.0	2.22	37.82	0.88	14.98	77.0-78.0	2.48	165.99	0.98	65.75
31.0-32.0	2.27	40.09	0.90	15.88	78.0-79.0	2.44	168.43	0.97	66.72
32.0-33.0	2.32	42.41	0.92	16.80	79.0-80.0	2.40	170.83	0.95	67.67
33.0-34.0	2.37	44.78	0.94	17.74	80.0-81.0	2.36	173.19	0.94	68.61
34.0-35.0	2.41	47.20	0.96	18.70	81.0-82.0	2.32	175.51	0.92	69.53
35.0-36.0	2.46	49.66	0.97	19.67	82.0-83.0	2.28	177.79	0.90	70.43
36.0-37.0	2.50	52.16	0.99	20.66	83.0-84.0	2.24	180.03	0.89	71.32
37.0-38.0	2.54	54.70	1.01	21.67	84.0-85.0	2.20	182.23	0.87	72.19
38.0-39.0	2.58	57.28	1.02	22.69	85.0-86.0	2.16	184.38	0.85	73.04
39.0-40.0	2.62	59.90	1.04	23.73	86.0-87.0	2.12	186.50	0.84	73.88
40.0-41.0	2.65	62.56	1.05	24.78	87.0-88.0	2.08	188.58	0.82	74.70
41.0-42.0	2.69	65.24	1.06	25.84	88.0-89.0	2.04	190.62	0.81	75.51
42.0-43.0	2.72	67.96	1.08	26.92	89.0-90.0	2.01	192.63	0.79	76.31
43.0-44.0	2.75	70.71	1.09	28.01	90.0-91.0	1.97	194.60	0.78	77.09
44.0-45.0	2.78	73.49	1.10	29.11	91.0-92.0	1.94	196.54	0.77	77.86
45.0-46.0	2.80	76.29	1.11	30.22	92.0-93.0	1.91	198.44	0.75	78.61
46.0-47.0	2.82	79.11	1.12	31.34	93.0-94.0	1.87	200.32	0.74	79.35

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Zonal Flux Tabulation - (Cont.)

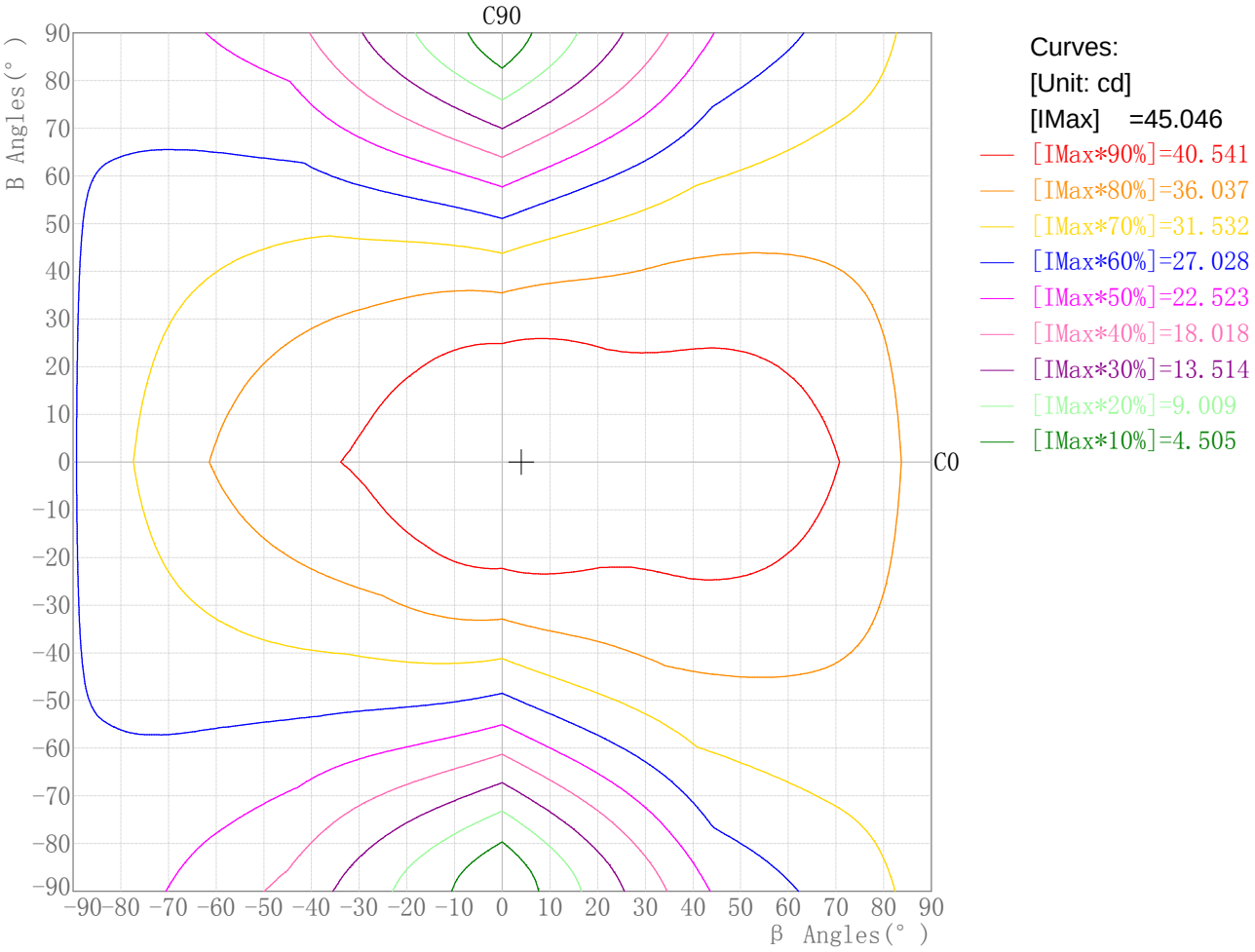
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	1.83	202.15	0.73	80.08
95.0-96.0	1.79	203.94	0.71	80.79
96.0-97.0	1.74	205.68	0.69	81.48
97.0-98.0	1.70	207.38	0.67	82.15
98.0-99.0	1.65	209.02	0.65	82.80
99.0-100.0	1.60	210.62	0.63	83.43
100.0-101.0	1.55	212.17	0.61	84.05
101.0-102.0	1.50	213.67	0.60	84.64
102.0-103.0	1.46	215.14	0.58	85.22
103.0-104.0	1.42	216.56	0.56	85.79
104.0-105.0	1.38	217.94	0.55	86.33
105.0-106.0	1.34	219.28	0.53	86.86
106.0-107.0	1.29	220.57	0.51	87.37
107.0-108.0	1.24	221.81	0.49	87.86
108.0-109.0	1.19	223.00	0.47	88.34
109.0-110.0	1.15	224.14	0.45	88.79
110.0-111.0	1.11	225.25	0.44	89.23
111.0-112.0	1.08	226.33	0.43	89.66
112.0-113.0	1.05	227.38	0.42	90.07
113.0-114.0	1.03	228.40	0.41	90.48
114.0-115.0	1.00	229.41	0.40	90.88
115.0-116.0	0.98	230.39	0.39	91.26
116.0-117.0	0.96	231.34	0.38	91.64
117.0-118.0	0.93	232.28	0.37	92.01
118.0-119.0	0.91	233.19	0.36	92.37
119.0-120.0	0.89	234.08	0.35	92.73
120.0-121.0	0.87	234.95	0.35	93.07
121.0-122.0	0.85	235.80	0.34	93.41
122.0-123.0	0.83	236.63	0.33	93.74
123.0-124.0	0.80	237.44	0.32	94.06
124.0-125.0	0.78	238.21	0.31	94.36
125.0-126.0	0.75	238.97	0.30	94.66
126.0-127.0	0.73	239.70	0.29	94.95
127.0-128.0	0.71	240.40	0.28	95.23
128.0-129.0	0.68	241.08	0.27	95.50
129.0-130.0	0.65	241.73	0.26	95.76
130.0-131.0	0.63	242.36	0.25	96.01
131.0-132.0	0.60	242.96	0.24	96.24
132.0-133.0	0.57	243.53	0.23	96.47
133.0-134.0	0.55	244.08	0.22	96.69
134.0-135.0	0.52	244.60	0.21	96.89
135.0-136.0	0.50	245.10	0.20	97.09
136.0-137.0	0.47	245.57	0.19	97.28
137.0-138.0	0.45	246.02	0.18	97.46
138.0-139.0	0.43	246.45	0.17	97.63
139.0-140.0	0.40	246.85	0.16	97.79
140.0-141.0	0.38	247.23	0.15	97.94
141.0-142.0	0.36	247.60	0.14	98.08
142.0-143.0	0.34	247.94	0.14	98.22
143.0-144.0	0.33	248.27	0.13	98.35
144.0-145.0	0.31	248.58	0.12	98.47
145.0-146.0	0.29	248.87	0.12	98.59
146.0-147.0	0.28	249.15	0.11	98.70
147.0-148.0	0.26	249.41	0.10	98.80
148.0-149.0	0.25	249.66	0.10	98.90
149.0-150.0	0.23	249.89	0.09	98.99
150.0-151.0	0.22	250.11	0.09	99.08
151.0-152.0	0.21	250.32	0.08	99.16
152.0-153.0	0.20	250.51	0.08	99.24
153.0-154.0	0.18	250.70	0.07	99.31
154.0-155.0	0.17	250.87	0.07	99.38
155.0-156.0	0.16	251.03	0.06	99.44
156.0-157.0	0.15	251.18	0.06	99.50
157.0-158.0	0.14	251.32	0.06	99.56
158.0-159.0	0.13	251.45	0.05	99.61
159.0-160.0	0.12	251.57	0.05	99.66
160.0-161.0	0.11	251.69	0.04	99.70
161.0-162.0	0.10	251.79	0.04	99.74
162.0-163.0	0.09	251.88	0.04	99.78
163.0-164.0	0.08	251.97	0.03	99.81
164.0-165.0	0.07	252.04	0.03	99.84
165.0-166.0	0.07	252.11	0.03	99.87
166.0-167.0	0.06	252.17	0.02	99.89
167.0-168.0	0.05	252.22	0.02	99.91
168.0-169.0	0.05	252.26	0.02	99.93
169.0-170.0	0.04	252.30	0.02	99.95
170.0-171.0	0.03	252.34	0.01	99.96
171.0-172.0	0.03	252.37	0.01	99.97
172.0-173.0	0.02	252.39	0.01	99.98
173.0-174.0	0.02	252.41	0.01	99.99
174.0-175.0	0.01	252.42	0.01	99.99
175.0-176.0	0.01	252.43	0.00	100.00
176.0-177.0	0.01	252.44	0.00	100.00
177.0-178.0	0.00	252.44	0.00	100.00
178.0-179.0	0.00	252.44	0.00	100.00
179.0-180.0	0.00	252.44	0.00	100.00

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Rectangle ISO Lighting Intensity Diagram

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

ISO Lighting Intensity Curve



Maximum Light Intensity(cd): 45.05

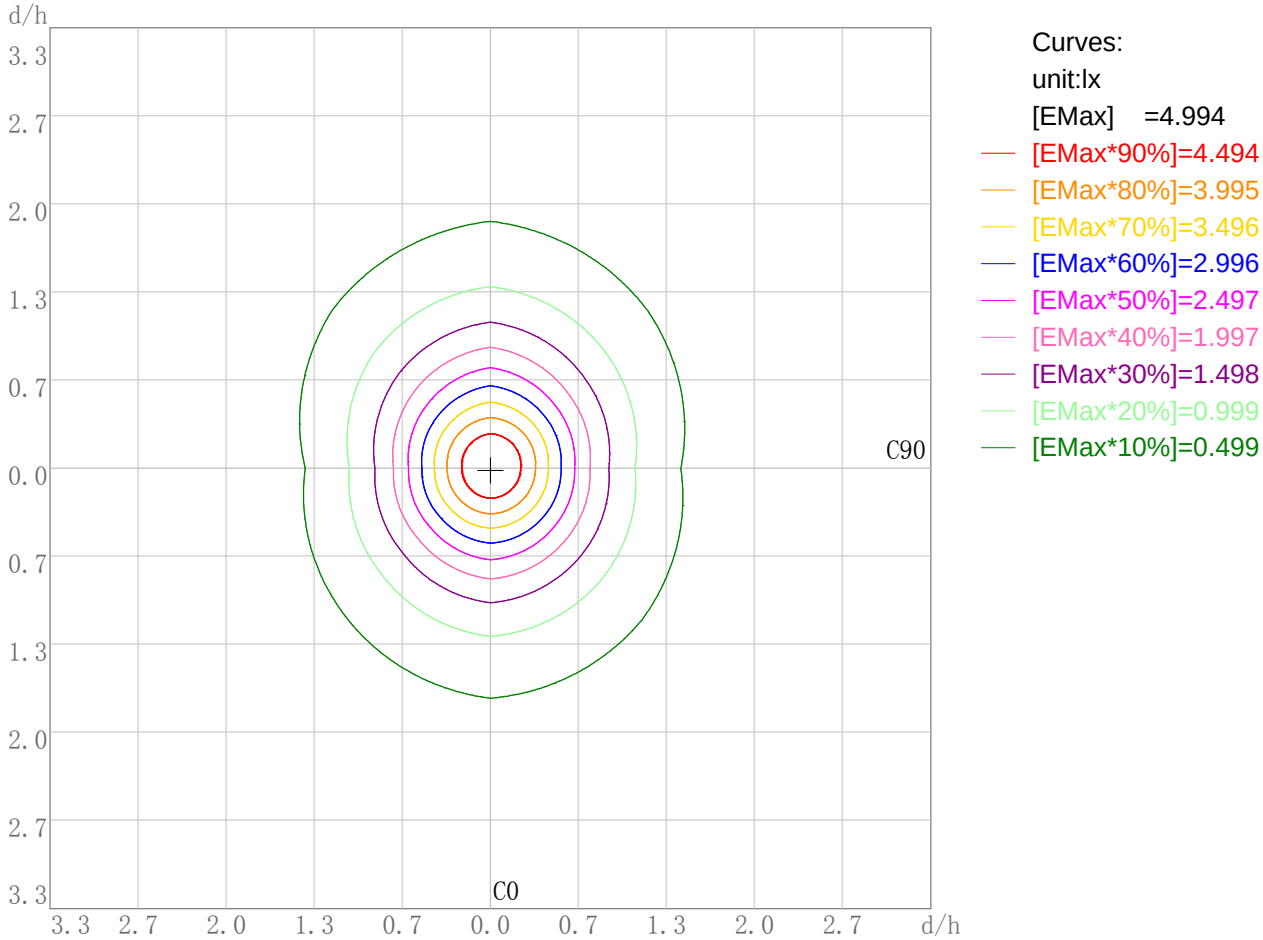
Maximum Cand.@Angle: H=4.0°,V=0.0°

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Plane ISO-Illuminance Diagram

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

Plane ISO-Illuminance Curve



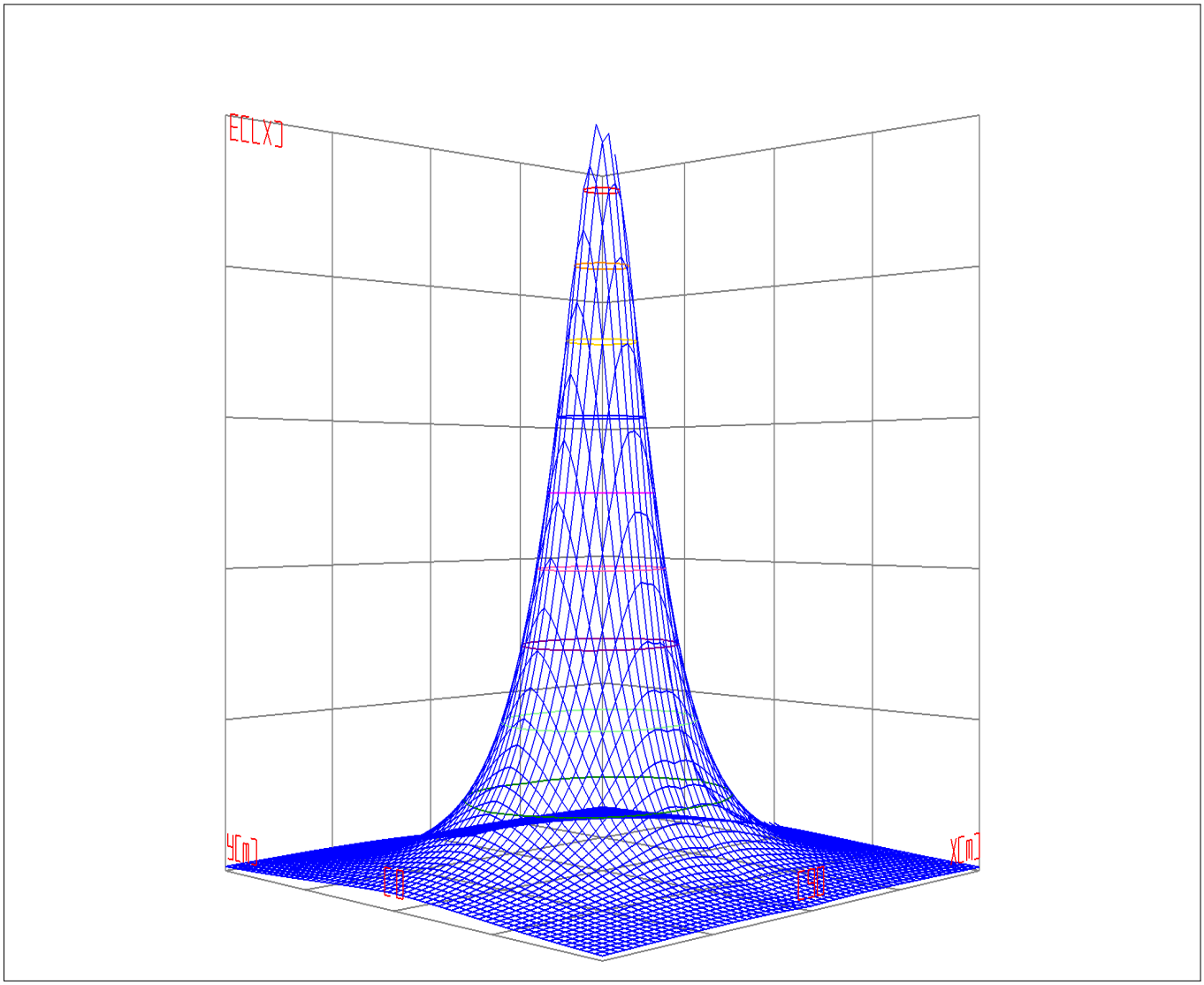
Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 4.99
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

3D Plane ISO Illuminance Diagram

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

3D Plane Illuminance Modal



Curves: 3D Model 90% 80% 70% 60% 50% 40% 30% 20% 10%

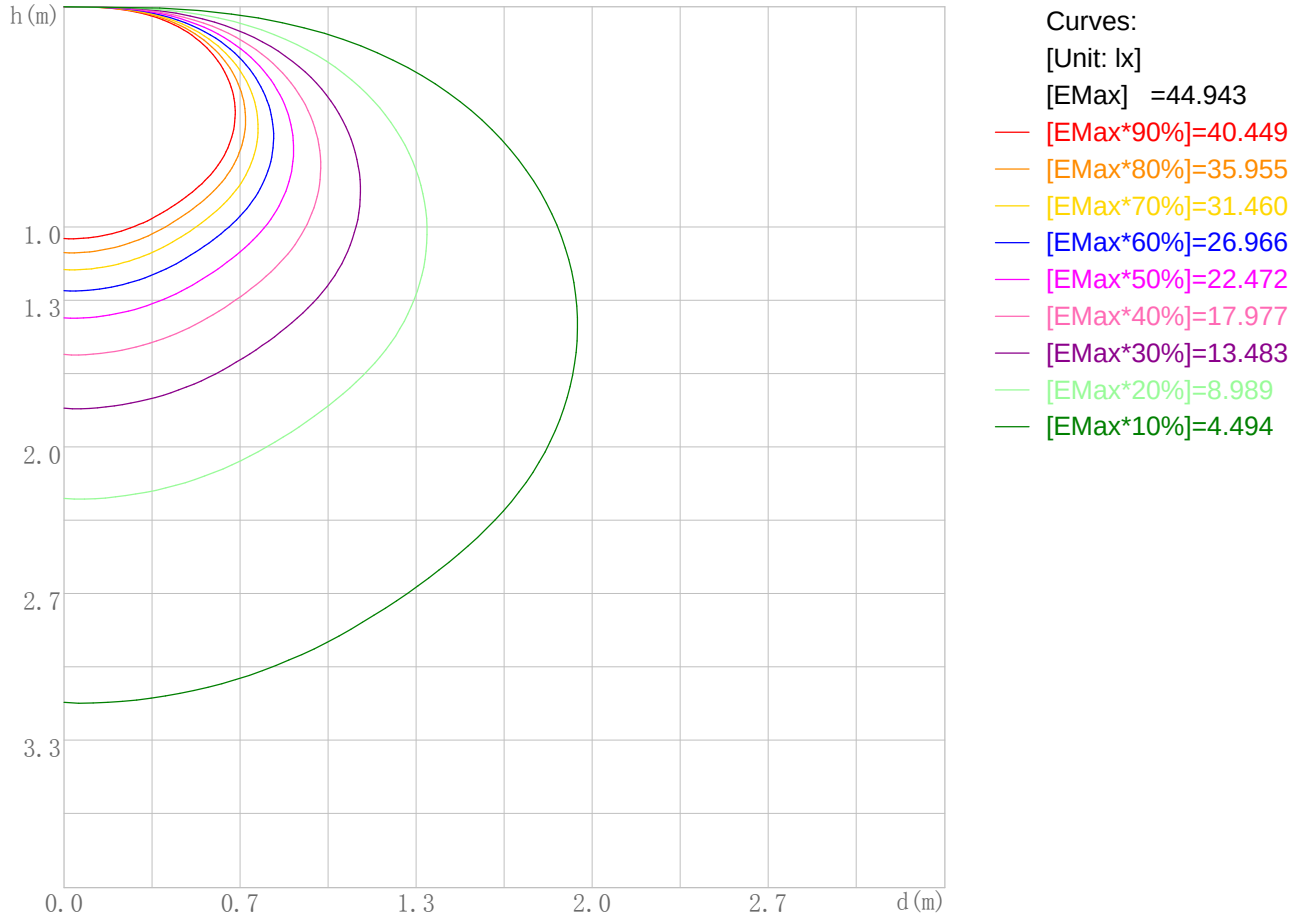
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Space ISO Illuminance Diagram

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

Space ISO Illuminance Curve



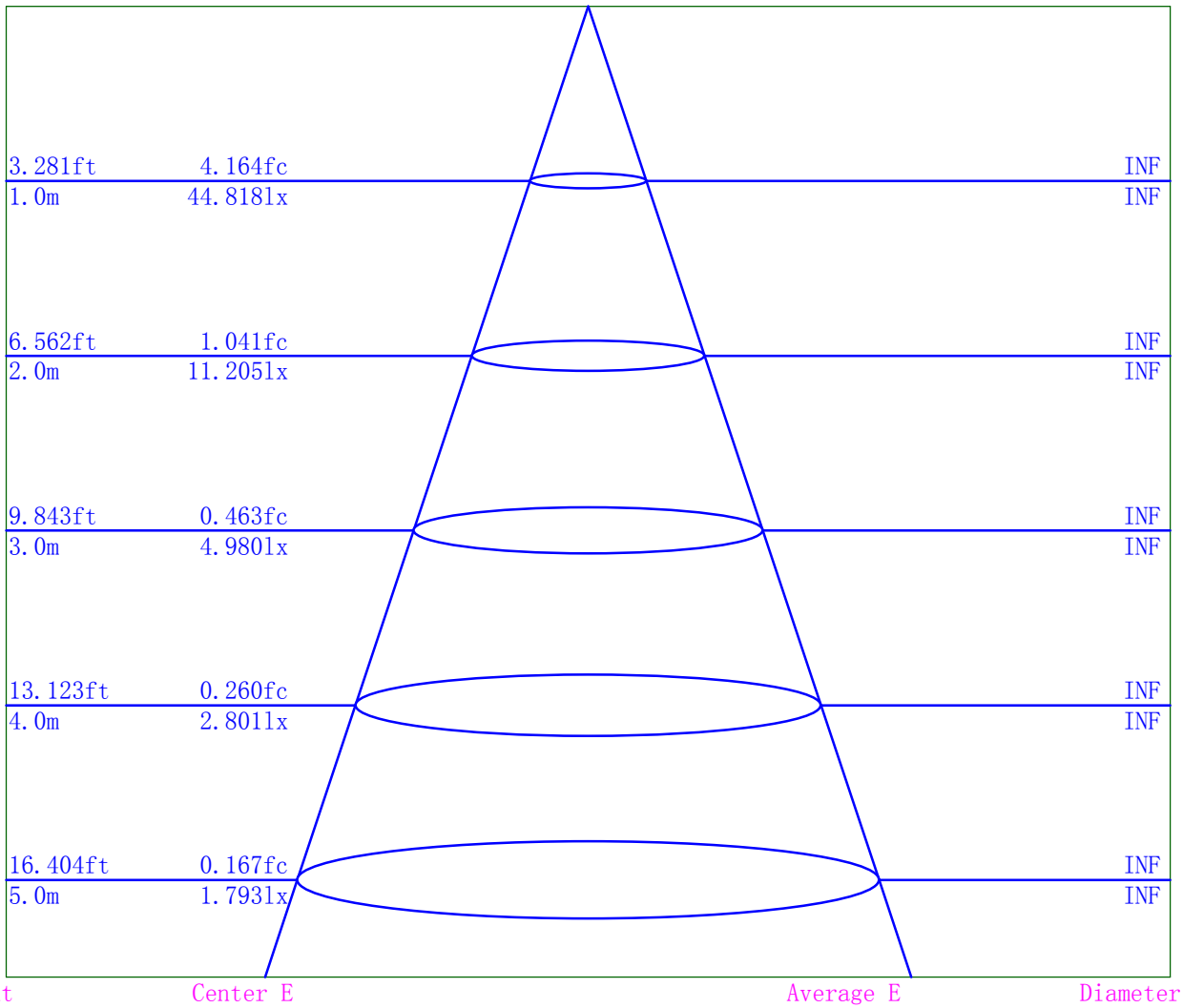
Space Plane Maximum Illuminance and @Angle:44.94lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:45.046cd,0eg

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Illuminance-Distance Diagram

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

Illuminance-Distance Curve



Beam Angle:207.7

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Indoor Luminance Limiting Curves

Lum.Name:	F21A-24V-5050-60-5700K	Lum.Catelog:		Test ID:	001
Lamp Name:	LED	Lamp Catelog:	F21A-24V-5050-60-5	Test Lab:	LAB001
Manufacture:	Olympia Lighting Co., Ltd	Test Machine:	GON-2000	Test Date:	2018/11/19

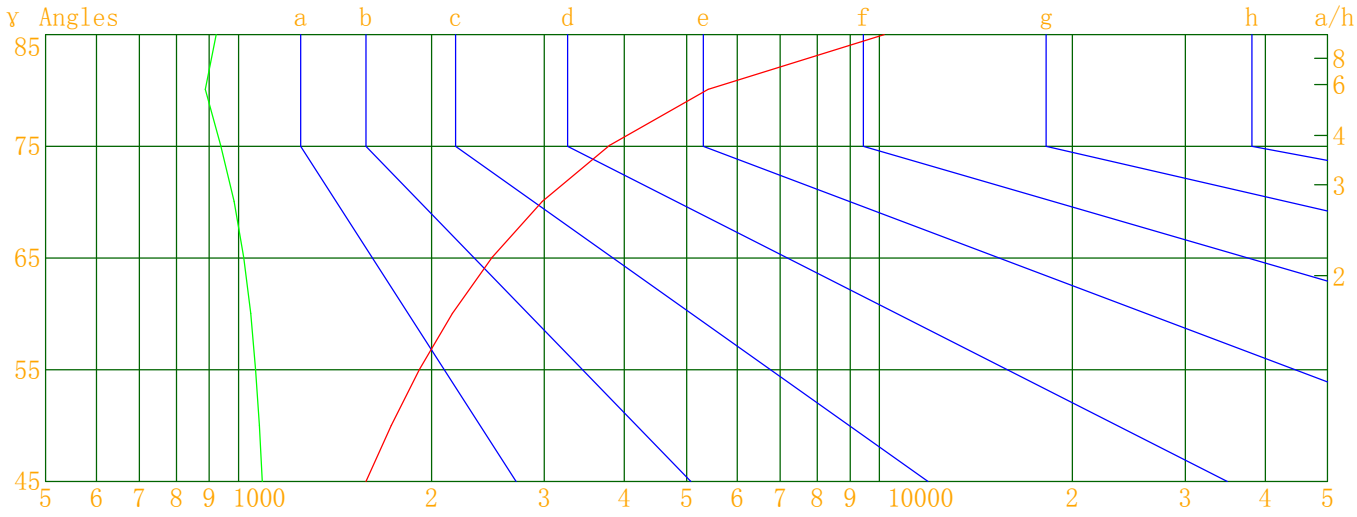
Glare Grade Table

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	1581	1730	1916	2157	2487	2978	3794	5404	10167
C90	1090	1078	1063	1045	1019	984	938	887	922

Luminance Limiting Curve



Luminous Size: Length(m)=1.000 Width(m)=0.015 Height(m)=0.025 Area(m^2)=0.040000

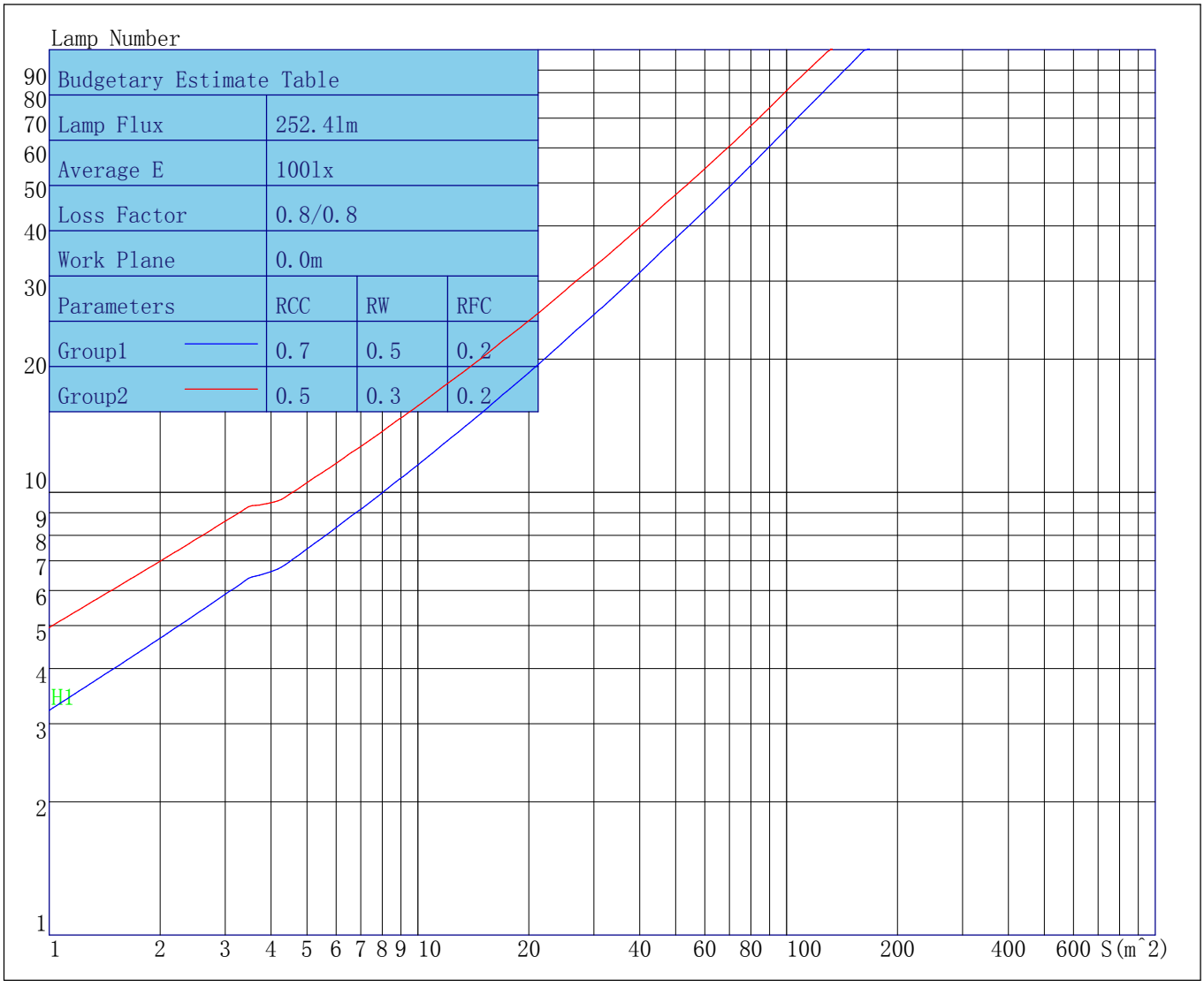
Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: C90-C270 Color:

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Indoor Budgetary Estimate Table

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19



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

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Indoor Coefficient of Utilization Table

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	100	93	88	83	94	89	84	79	80	76	72	72	69	66	65	62	60	56
2	89	79	71	64	84	75	68	62	68	62	57	61	56	52	55	51	47	44
3	80	69	59	52	76	65	57	50	59	52	46	53	47	42	47	43	39	35
4	73	60	50	43	69	57	48	41	51	44	38	46	40	35	41	36	32	29
5	67	53	43	36	63	50	42	35	46	38	32	41	35	30	37	32	27	25
6	61	47	38	31	58	45	36	30	41	33	28	37	31	26	33	28	24	21
7	57	43	34	27	54	41	32	26	37	30	24	33	27	23	30	25	21	18
8	53	39	30	24	50	37	29	23	34	27	22	31	24	20	28	22	18	16
9	49	35	27	21	46	34	26	21	31	24	19	28	22	18	26	20	17	14
10	46	32	24	19	43	31	23	18	28	22	17	26	20	16	24	19	15	13

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Unified Glare Rating Table

Lum.Name: F21A-24V-5050-60-5700K	Lum.Catelog:	Test ID: 001
Lamp Name: LED	Lamp Catelog: F21A-24V-5050-60-5	Test Lab: LAB001
Manufacture: Olympia Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2018/11/19

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	13.4	14.7	14.1	15.4	16.3	10.7	12.0	11.4	12.7	13.5
	Y=3H	16.6	17.8	17.3	18.5	19.4	12.6	13.8	13.2	14.5	15.3
	Y=4H	18.4	19.5	19.1	20.3	21.1	13.4	14.5	14.1	15.2	16.1
	Y=6H	20.4	21.4	21.1	22.2	23.1	14.0	15.1	14.7	15.8	16.7
	Y=8H	21.4	22.5	22.2	23.2	24.1	14.3	15.3	15.0	16.1	17.0
	Y=12H	22.7	23.7	23.4	24.4	25.3	14.5	15.5	15.2	16.2	17.1
X=4H	Y=2H	14.2	15.4	14.9	16.1	17.0	12.2	13.4	12.9	14.1	15.0
	Y=3H	17.6	18.6	18.3	19.4	20.3	14.4	15.4	15.1	16.2	17.1
	Y=4H	19.6	20.5	20.3	21.3	22.2	15.4	16.4	16.2	17.1	18.0
	Y=6H	21.8	22.6	22.5	23.4	24.3	16.3	17.2	17.1	18.0	18.9
	Y=8H	23.0	23.7	23.7	24.5	25.5	16.7	17.5	17.5	18.3	19.2
	Y=12H	24.3	25.1	25.1	25.9	26.8	17.0	17.7	17.8	18.5	19.5
X=8H	Y=4H	20.1	20.9	20.8	21.6	22.6	16.8	17.6	17.6	18.4	19.3
	Y=6H	22.5	23.2	23.3	24.0	25.1	18.1	18.8	18.9	19.6	20.7
	Y=8H	23.9	24.5	24.7	25.3	26.3	18.8	19.4	19.6	20.2	21.2
	Y=12H	25.5	26.1	26.3	26.9	27.9	19.3	19.9	20.1	20.7	21.7
X=12H	Y=4H	20.1	20.9	20.9	21.7	22.6	17.2	18.0	18.0	18.8	19.7
	Y=6H	22.7	23.3	23.5	24.1	25.1	18.8	19.5	19.6	20.3	21.2
	Y=8H	24.2	24.8	25.0	25.6	26.6	19.7	20.2	20.5	21.0	22.0
Variations with the objerver position at spacings											
S=1.0H		0.0/-0.1					0.3/-0.4				
S=1.5H		0.1/-0.1					0.4/-0.5				
S=2.0H		0.2/-0.3					0.5/-0.5				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		6.7					5.3				

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

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Candela Tabulation

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
Y 0.0	44.82	44.82	44.82	44.82	44.82	44.82	44.82	44.82
Y 1.0	44.96	44.86	44.71	44.67	44.89	44.78	44.66	44.71
Y 2.0	45.01	44.88	44.70	44.65	44.83	44.72	44.62	44.69
Y 3.0	45.04	44.91	44.68	44.60	44.76	44.65	44.56	44.65
Y 4.0	45.05	44.90	44.64	44.55	44.68	44.57	44.50	44.65
Y 5.0	45.04	44.88	44.58	44.49	44.60	44.47	44.42	44.61
Y 6.0	45.04	44.85	44.51	44.42	44.51	44.35	44.32	44.57
Y 7.0	45.01	44.80	44.43	44.32	44.39	44.24	44.20	44.51
Y 8.0	44.99	44.75	44.32	44.20	44.28	44.11	44.06	44.45
Y 9.0	44.98	44.69	44.23	44.09	44.17	43.97	43.94	44.37
Y 10.0	44.93	44.62	44.11	43.95	44.04	43.81	43.78	44.27
Y 11.0	44.89	44.54	43.98	43.82	43.91	43.64	43.59	44.16
Y 12.0	44.84	44.45	43.82	43.68	43.76	43.47	43.40	44.06
Y 13.0	44.78	44.33	43.64	43.52	43.58	43.27	43.18	43.92
Y 14.0	44.70	44.22	43.48	43.35	43.44	43.08	42.96	43.78
Y 15.0	44.62	44.10	43.28	43.17	43.29	42.86	42.72	43.64
Y 16.0	44.55	43.95	43.08	42.98	43.12	42.64	42.47	43.48
Y 17.0	44.48	43.81	42.85	42.78	42.93	42.40	42.21	43.31
Y 18.0	44.40	43.65	42.60	42.58	42.75	42.14	41.92	43.13
Y 19.0	44.31	43.47	42.35	42.35	42.58	41.89	41.63	42.96
Y 20.0	44.23	43.29	42.06	42.13	42.40	41.62	41.33	42.77
Y 21.0	44.14	43.11	41.79	41.87	42.21	41.33	40.99	42.55
Y 22.0	44.06	42.90	41.47	41.61	42.03	41.04	40.65	42.34
Y 23.0	44.00	42.69	41.16	41.37	41.87	40.74	40.29	42.11
Y 24.0	43.98	42.47	40.83	41.10	41.71	40.43	39.91	41.89
Y 25.0	43.94	42.24	40.49	40.83	41.54	40.11	39.53	41.66
Y 26.0	43.93	42.01	40.13	40.55	41.41	39.80	39.13	41.41
Y 27.0	43.94	41.76	39.75	40.27	41.27	39.47	38.72	41.18
Y 28.0	43.95	41.51	39.37	39.99	41.14	39.12	38.30	40.96
Y 29.0	43.98	41.25	38.97	39.69	41.01	38.78	37.88	40.75
Y 30.0	44.03	41.00	38.56	39.41	40.92	38.44	37.42	40.51
Y 31.0	44.09	40.74	38.13	39.10	40.82	38.09	36.96	40.33
Y 32.0	44.16	40.48	37.68	38.81	40.71	37.73	36.48	40.12
Y 33.0	44.23	40.24	37.21	38.53	40.63	37.40	35.99	39.92
Y 34.0	44.30	39.99	36.75	38.25	40.53	37.04	35.49	39.71
Y 35.0	44.38	39.74	36.26	37.96	40.43	36.70	34.95	39.52
Y 36.0	44.46	39.51	35.78	37.69	40.32	36.37	34.45	39.35
Y 37.0	44.54	39.27	35.26	37.39	40.22	36.00	33.89	39.16
Y 38.0	44.60	39.04	34.76	37.12	40.11	35.66	33.37	38.97
Y 39.0	44.65	38.79	34.23	36.84	40.01	35.32	32.81	38.80
Y 40.0	44.69	38.58	33.68	36.56	39.90	34.98	32.23	38.62
Y 41.0	44.71	38.34	33.13	36.30	39.78	34.64	31.65	38.44
Y 42.0	44.74	38.13	32.56	36.02	39.65	34.30	31.06	38.28
Y 43.0	44.73	37.93	31.99	35.75	39.51	33.97	30.47	38.10
Y 44.0	44.73	37.69	31.41	35.47	39.39	33.64	29.86	37.92
Y 45.0	44.72	37.48	30.82	35.20	39.24	33.30	29.24	37.74
Y 46.0	44.70	37.27	30.22	34.91	39.11	32.96	28.62	37.54

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
Y 47.0	44.65	37.04	29.61	34.63	38.95	32.62	27.97	37.34
Y 48.0	44.62	36.81	28.99	34.34	38.78	32.27	27.33	37.13
Y 49.0	44.57	36.60	28.36	34.04	38.61	31.93	26.68	36.89
Y 50.0	44.49	36.35	27.72	33.73	38.46	31.57	26.02	36.65
Y 51.0	44.40	36.10	27.07	33.44	38.28	31.22	25.35	36.42
Y 52.0	44.31	35.84	26.41	33.12	38.09	30.85	24.66	36.17
Y 53.0	44.19	35.58	25.74	32.82	37.90	30.48	23.97	35.92
Y 54.0	44.08	35.31	25.07	32.51	37.70	30.12	23.26	35.66
Y 55.0	43.96	35.03	24.38	32.20	37.51	29.76	22.56	35.38
Y 56.0	43.82	34.74	23.70	31.87	37.29	29.38	21.87	35.12
Y 57.0	43.66	34.43	23.01	31.53	37.07	29.01	21.14	34.83
Y 58.0	43.50	34.14	22.32	31.21	36.85	28.62	20.43	34.55
Y 59.0	43.32	33.84	21.61	30.88	36.63	28.26	19.69	34.25
Y 60.0	43.15	33.53	20.89	30.54	36.38	27.87	18.97	33.92
Y 61.0	42.93	33.20	20.18	30.19	36.15	27.49	18.23	33.63
Y 62.0	42.72	32.88	19.44	29.85	35.89	27.12	17.49	33.33
Y 63.0	42.51	32.55	18.71	29.49	35.64	26.72	16.73	33.02
Y 64.0	42.29	32.24	17.97	29.14	35.38	26.34	15.98	32.69
Y 65.0	42.05	31.89	17.23	28.80	35.14	25.96	15.21	32.37
Y 66.0	41.79	31.54	16.47	28.44	34.87	25.58	14.45	32.05
Y 67.0	41.54	31.21	15.72	28.09	34.60	25.20	13.70	31.73
Y 68.0	41.29	30.86	14.97	27.72	34.34	24.82	12.93	31.39
Y 69.0	41.03	30.51	14.21	27.37	34.05	24.45	12.16	31.06
Y 70.0	40.74	30.16	13.47	27.02	33.78	24.08	11.41	30.71
Y 71.0	40.47	29.81	12.70	26.67	33.49	23.71	10.64	30.37
Y 72.0	40.18	29.46	11.95	26.31	33.20	23.34	9.91	30.04
Y 73.0	39.89	29.09	11.20	25.96	32.90	22.96	9.15	29.70
Y 74.0	39.59	28.74	10.45	25.59	32.59	22.60	8.41	29.33
Y 75.0	39.28	28.38	9.71	25.25	32.28	22.24	7.68	29.00
Y 76.0	38.95	28.03	8.96	24.90	31.98	21.89	6.97	28.63
Y 77.0	38.61	27.68	8.25	24.57	31.65	21.53	6.24	28.29
Y 78.0	38.27	27.32	7.53	24.19	31.32	21.18	5.59	27.91
Y 79.0	37.92	26.97	6.84	23.86	30.97	20.83	4.93	27.56
Y 80.0	37.54	26.61	6.16	23.52	30.59	20.49	4.29	27.18
Y 81.0	37.15	26.27	5.51	23.16	30.21	20.13	3.68	26.80
Y 82.0	36.76	25.91	4.89	22.81	29.84	19.77	3.11	26.43
Y 83.0	36.35	25.53	4.28	22.45	29.45	19.42	2.58	26.01
Y 84.0	35.90	25.17	3.72	22.08	29.06	19.04	2.10	25.61
Y 85.0	35.44	24.78	3.22	21.71	28.66	18.67	1.68	25.20
Y 86.0	35.00	24.41	2.75	21.35	28.28	18.31	1.34	24.80
Y 87.0	34.54	24.01	2.35	20.97	27.91	17.96	1.07	24.41
Y 88.0	34.11	23.58	2.03	20.59	27.53	17.61	0.88	24.00
Y 89.0	33.67	23.16	1.76	20.24	27.14	17.30	0.76	23.61
Y 90.0	33.22	22.80	1.57	19.89	26.76	16.95	0.67	23.22
Y 91.0	32.81	22.40	1.48	19.55	26.39	16.64	0.61	22.83
Y 92.0	32.35	22.02	1.40	19.22	26.01	16.32	0.55	22.43
Y 93.0	31.90	21.64	1.37	18.89	25.62	15.97	0.60	21.99

IES Indoor Report
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Candela Tabulation - (Cont.)

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
Y 94.0	31.46	21.28	1.37	18.56	25.25	15.54	0.64	21.42
Y 95.0	31.03	20.87	1.38	18.18	24.82	15.06	0.68	20.75
Y 96.0	30.58	20.29	1.38	17.68	24.26	14.58	0.72	20.08
Y 97.0	30.10	19.71	1.41	17.18	23.69	14.10	0.78	19.43
Y 98.0	29.49	19.13	1.44	16.69	23.13	13.63	0.80	18.78
Y 99.0	28.80	18.57	1.47	16.21	22.56	13.19	0.83	18.13
Y 100.0	28.10	18.01	1.48	15.74	22.00	12.81	0.81	17.55
Y 101.0	27.43	17.46	1.49	15.26	21.46	12.51	0.77	17.05
Y 102.0	26.78	16.97	1.51	14.79	20.92	12.24	0.77	16.63
Y 103.0	26.15	16.56	1.48	14.39	20.39	11.98	0.77	16.25
Y 104.0	25.49	16.20	1.46	14.05	19.88	11.74	0.77	15.62
Y 105.0	24.87	15.88	1.46	13.72	19.42	11.51	0.78	15.19
Y 106.0	24.26	15.58	1.48	13.35	18.84	10.98	0.73	14.57
Y 107.0	23.68	15.27	1.49	13.05	18.23	10.59	0.67	13.55
Y 108.0	22.86	14.68	1.48	12.48	17.91	10.35	0.64	12.74
Y 109.0	22.29	14.26	1.45	12.15	17.58	9.93	0.63	11.70
Y 110.0	21.90	14.01	1.40	11.87	17.26	9.47	0.63	10.81
Y 111.0	21.50	13.49	1.36	11.40	16.94	9.21	0.65	10.75
Y 112.0	21.13	13.01	1.32	11.00	16.64	9.10	0.64	10.84
Y 113.0	20.75	12.69	1.25	10.78	16.32	9.02	0.67	10.78
Y 114.0	20.37	12.51	1.22	10.63	16.02	8.94	0.64	10.67
Y 115.0	20.00	12.32	1.21	10.48	15.71	8.86	0.63	10.53
Y 116.0	19.64	12.17	1.23	10.35	15.40	8.76	0.62	10.27
Y 117.0	19.28	12.02	1.20	10.20	15.11	8.68	0.63	10.25
Y 118.0	18.92	11.85	1.20	10.06	14.80	8.57	0.60	10.28
Y 119.0	18.57	11.67	1.17	9.91	14.51	8.46	0.58	10.24
Y 120.0	18.21	11.52	1.15	9.77	14.22	8.36	0.52	10.63
Y 121.0	17.83	11.36	1.14	9.65	13.93	8.27	0.47	10.85
Y 122.0	17.48	11.16	1.13	9.51	13.64	8.14	0.44	10.80
Y 123.0	17.13	10.87	1.12	9.37	13.36	8.03	0.40	10.73
Y 124.0	16.77	10.56	1.13	9.24	13.09	7.93	0.29	10.60
Y 125.0	16.40	10.37	1.10	9.10	12.82	7.81	0.05	10.41
Y 126.0	16.05	10.34	1.06	8.94	12.52	7.69	0.00	10.24
Y 127.0	15.71	10.20	1.01	8.79	12.26	7.58	0.00	10.08
Y 128.0	15.35	9.90	0.95	8.62	12.00	7.44	0.00	9.93
Y 129.0	14.97	9.59	0.68	8.46	11.72	7.31	0.00	9.74
Y 130.0	14.56	9.48	0.30	8.31	11.46	7.20	0.00	9.53
Y 131.0	14.14	9.26	0.00	8.15	11.21	7.07	0.00	9.31
Y 132.0	13.77	8.83	0.00	7.99	10.97	6.93	0.00	8.92
Y 133.0	13.47	8.46	0.00	7.83	10.70	6.81	0.00	8.54
Y 134.0	13.18	8.12	0.00	7.68	10.45	6.67	0.00	8.27
Y 135.0	12.92	7.83	0.00	7.53	10.20	6.35	0.00	7.87
Y 136.0	12.65	7.53	0.00	7.37	9.96	6.12	0.00	7.44
Y 137.0	12.36	7.12	0.00	7.21	9.72	5.99	0.00	6.91
Y 138.0	12.08	6.87	0.00	6.98	9.50	5.82	0.00	6.45
Y 139.0	11.80	6.49	0.00	6.54	9.25	5.68	0.00	6.19
Y 140.0	11.54	6.23	0.00	6.30	9.02	5.58	0.00	5.89

IES Indoor Report
Photometric Filename:F21A-24V-5050-60-5700K.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0
Y 141.0	11.26	6.02	0.00	6.16	8.79	5.47	0.00	5.53
Y 142.0	10.96	5.84	0.00	5.94	8.56	5.33	0.00	5.19
Y 143.0	10.70	5.66	0.00	5.75	8.35	5.20	0.00	4.91
Y 144.0	10.42	5.50	0.00	5.62	8.13	5.09	0.00	4.71
Y 145.0	10.15	5.30	0.02	5.49	7.91	5.00	0.00	4.52
Y 146.0	9.89	5.11	0.04	5.38	7.69	4.89	0.00	4.31
Y 147.0	9.56	4.93	0.06	5.26	7.46	4.80	0.00	4.11
Y 148.0	9.12	4.80	0.09	5.17	7.09	4.71	0.00	4.03
Y 149.0	8.88	4.69	0.14	5.07	6.69	4.62	0.00	3.99
Y 150.0	8.36	4.63	0.14	4.92	6.44	4.51	0.00	3.93
Y 151.0	8.02	4.56	0.13	4.81	6.25	4.41	0.00	3.92
Y 152.0	7.75	4.46	0.11	4.69	6.04	4.31	0.00	3.88
Y 153.0	7.51	4.36	0.12	4.57	5.89	4.21	0.00	3.84
Y 154.0	7.29	4.27	0.16	4.45	5.76	4.13	0.00	3.81
Y 155.0	7.13	4.22	0.17	4.33	5.55	4.04	0.00	3.67
Y 156.0	6.82	4.09	0.19	4.23	5.30	3.94	0.00	3.59
Y 157.0	6.22	3.91	0.20	4.12	5.10	3.82	0.00	3.61
Y 158.0	6.04	3.72	0.23	4.03	4.91	3.71	0.00	3.53
Y 159.0	5.96	3.59	0.24	3.94	4.74	3.61	0.05	3.34
Y 160.0	5.84	3.48	0.25	3.84	4.53	3.52	0.11	3.21
Y 161.0	5.73	3.35	0.29	3.71	4.34	3.31	0.18	3.07
Y 162.0	5.55	3.23	0.33	3.58	4.21	3.00	0.24	2.96
Y 163.0	5.34	3.12	0.37	3.46	4.07	2.90	0.29	2.69
Y 164.0	5.17	2.78	0.42	3.09	3.88	2.79	0.34	2.31
Y 165.0	4.96	2.61	0.47	2.86	3.67	2.68	0.42	2.18
Y 166.0	4.70	2.55	0.52	2.76	3.49	2.57	0.47	2.08
Y 167.0	4.32	2.51	0.56	2.65	2.95	2.47	0.54	2.06
Y 168.0	4.03	2.47	0.58	2.56	2.77	2.35	0.58	2.10
Y 169.0	3.48	2.41	0.62	2.46	2.63	2.02	0.63	2.11
Y 170.0	3.17	2.35	0.66	2.37	2.51	1.88	0.63	2.05
Y 171.0	2.92	2.08	0.69	2.05	2.39	1.79	0.64	1.69
Y 172.0	2.81	1.77	0.72	1.92	2.06	1.70	0.66	1.62
Y 173.0	2.38	1.72	0.75	1.84	1.69	1.59	0.66	1.63
Y 174.0	1.72	1.67	0.79	1.71	1.26	1.46	0.67	1.62
Y 175.0	1.10	1.63	0.81	1.61	0.71	1.28	0.69	1.53
Y 176.0	1.00	1.60	0.81	1.40	0.37	1.03	0.68	1.13
Y 177.0	0.91	1.22	0.79	1.13	0.00	0.73	0.70	0.79
Y 178.0	0.88	0.88	0.77	0.83	0.00	0.68	0.71	0.78
Y 179.0	0.82	0.80	0.77	0.69	0.19	0.78	0.72	0.70
Y 180.0	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73