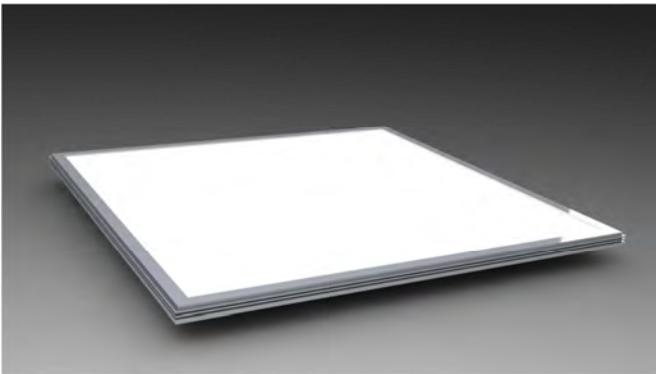


## LED Panel Light 600X600



## DATASHEET LED PANEL 600X600

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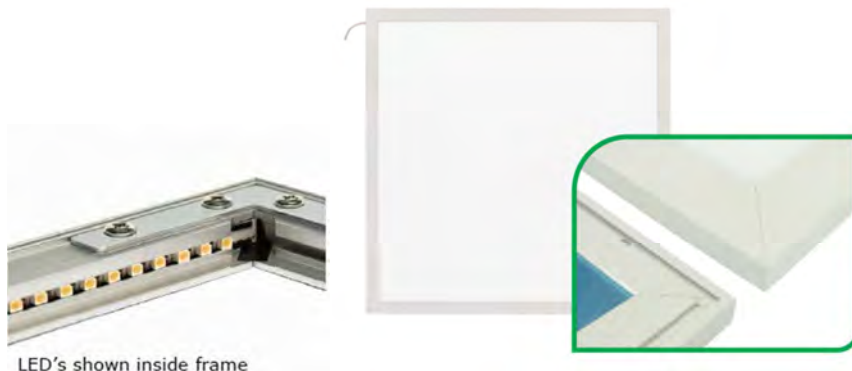
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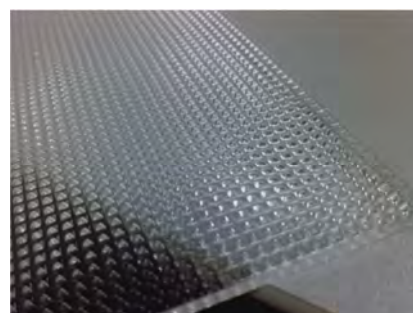
# Product Pictures



LED's shown inside frame

## PRISMATIC COVER FOR VIDEO-TERMINAL ENVIRONMENT:

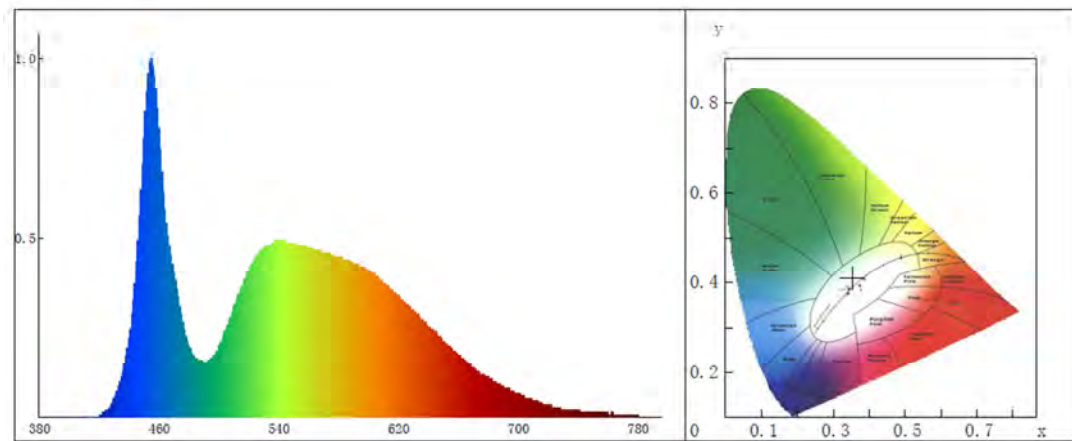
- Complies with EN 12464-1:2011
- UGR<19
- Luminances above 65° and under 1500 cd/m<sup>2</sup>





# Technology Parameter

Spectrum Of Light:

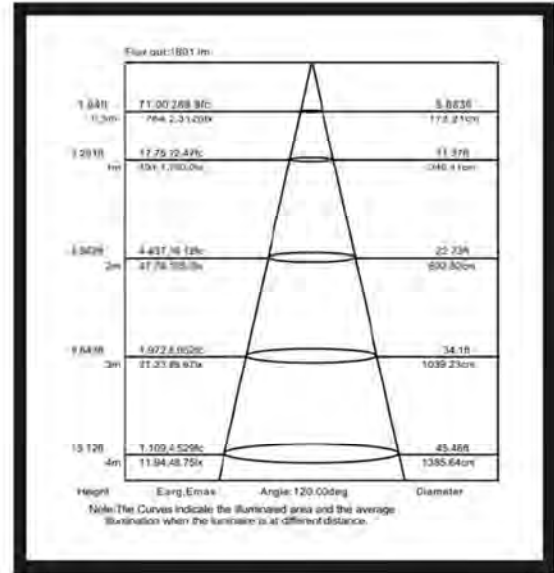
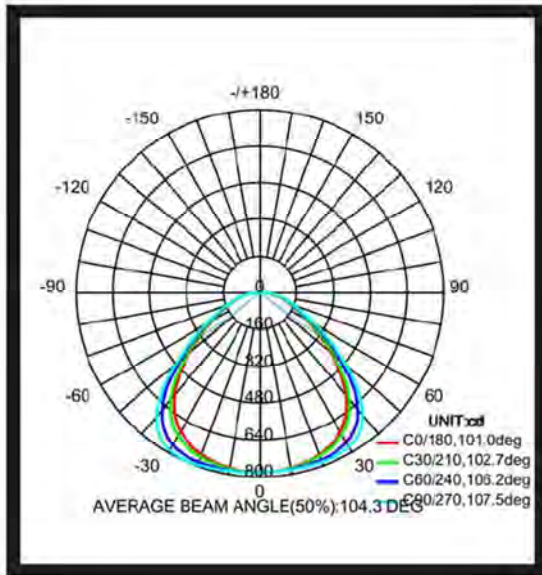


## LED Panel 600x600-32W

<b>Model:</b>	LED Panel 600x600-32W	<b>Type:</b>	Indoor Lighting
<b>Product Name:</b>	LED Panel 600x600-32W	<b>Std&amp;AUT:</b>	CE (VOP, SGS), ROHS
<b>Application:</b>	Office/Commercial		
<b>Product Speciality</b>			
Input Voltage	AC 100-277 V		
Panel Light Input Voltage	DC 24-40 V		
Color Temperature	2800K - 3200K / 4000K - 4500K / 5500K - 6500K		
Total Power (W)	32		
Total Flux (Lm)	2560		
Efficacy (Lm/W)	80		
CRI	>80		
Beam Angle	120°		
Power Factor	0,98		
IP	IP20		
Operating Temperature	-20 °C to +50 °C		
Storage Temperature	-20 °C to +60 °C		
Life	50.000 Hours		
Dimming Options	PWM, 0-10V, DALI, CCT Adjustable		



Light Distribution Graph:

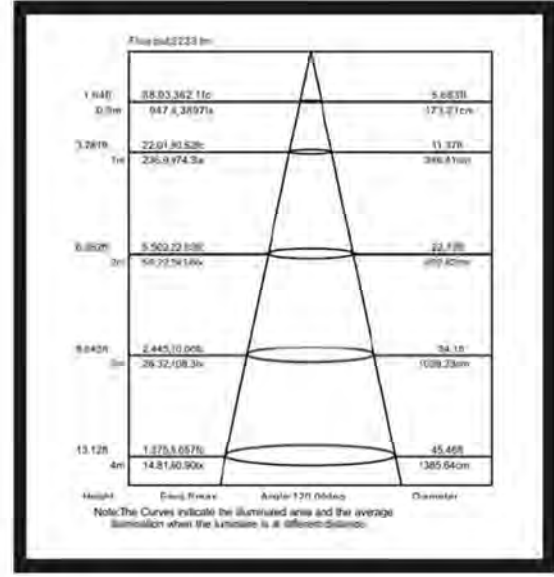
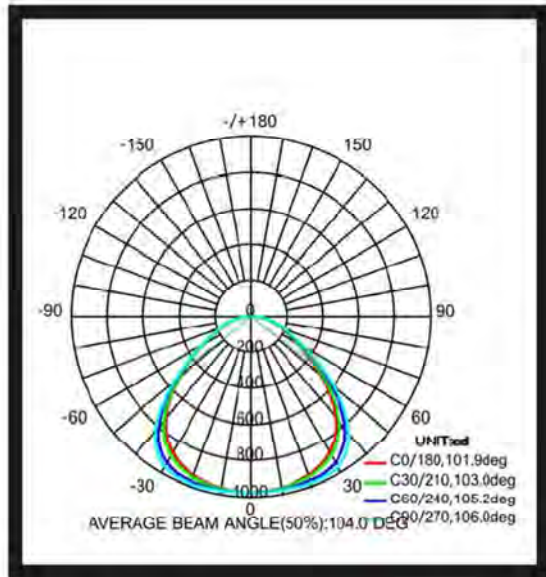


LED Panel 600x600-40W

<b>Model:</b>	LED panel 600x600-40W	<b>Type:</b>	Indoor Lighting
<b>Product Name:</b>	LED Panel 600x600-40W	<b>Std&amp;AUT:</b>	CE (VOP, SGS), ROHS
<b>Application:</b>	Office/Commercial		
<b>Product Speciality</b>			
Input Voltage	AC 100-277 V		
Panel Light Input Voltage	DC 24-40 V		
Color Temperature	2800K - 3200K / 4000K - 4500K / 5500K - 6500K		
Total Power (W)	40		
Total Flux (Lm)	3200		
Efficacy (Lm/W)	80		
CRI	>80		
Beam Angle	120°		
Power Factor	0,98		
IP	IP20		
Operating Temperature	-20 °C to +50 °C		
Storage Temperature	-20 °C to +60 °C		
Life	50.000 Hours		
Dimming Options	PWM, 0-10V, DALI, CCT Adjustable		



Light Distribution Graph:

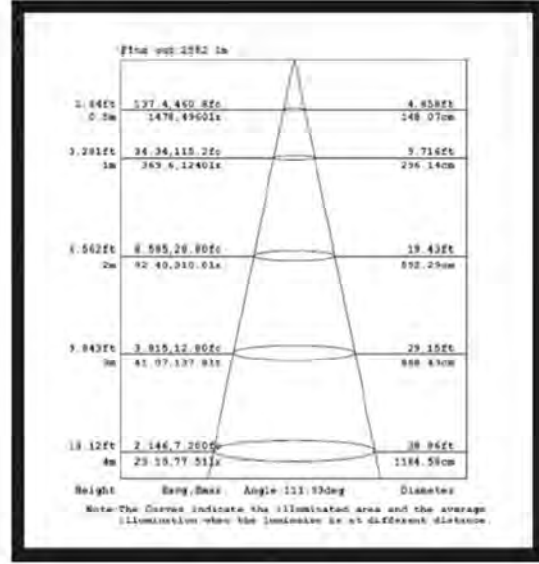
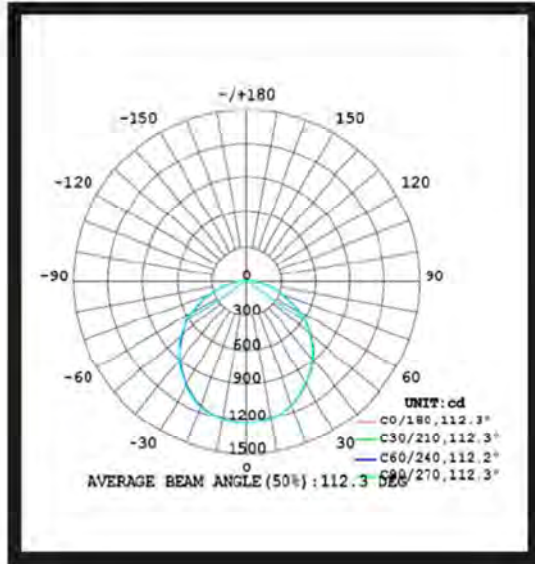


## LED Panel 600x600-60W

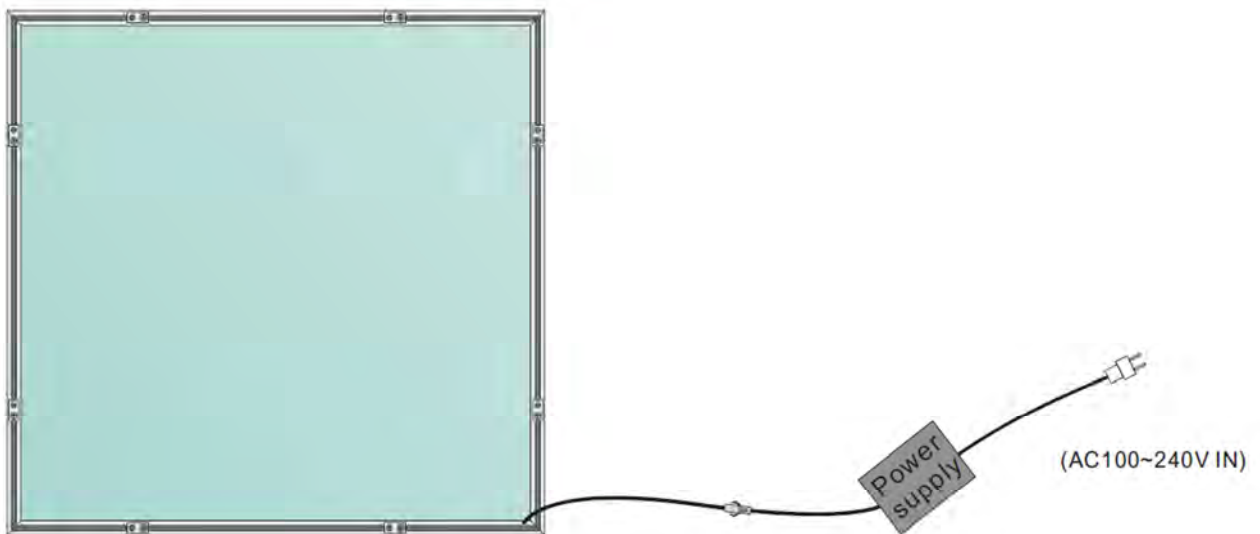
<b>Model:</b>	LED Panel 600x600-60W	<b>Type:</b>	Indoor Lighting
<b>Product Name:</b>	LED Panel 600x600-60W	<b>Std&amp;AUT:</b>	CE (VOP, SGS), ROHS
<b>Application:</b>	Office/Commercial		
<b>Product Speciality</b>			
Input Voltage	AC 100-277 V		
Panel Light Input Voltage	DC 24-60 V		
Color Temperature	2800K - 3200K / 4000K - 4500K / 5500K - 6500K		
Total Power (W)	60		
Total Flux (Lm)	4800		
Efficacy (Lm/W)	80		
CRI	>80		
Beam Angle	120°		
Power Factor	0,98		
IP	IP20		
Operating Temperature	-20 °C to +50 °C		
Storage Temperature	-20 °C to +60 °C		
Life	50.000 Hours		
Dimming Options	PWM, 0-10V, DALI, CCT Adjustable		



Light Distribution Graph:



## Panel Power Supply Connection





## Dimming Options: DALI, PUSH, PWM by 1-10V

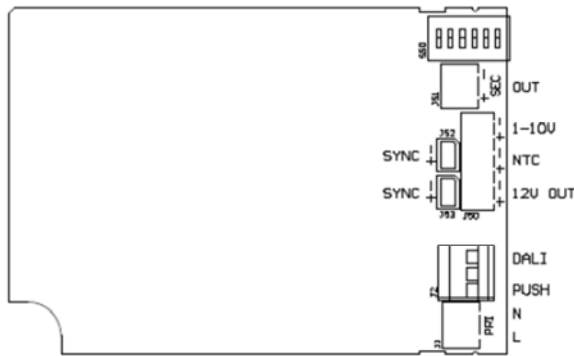


**INPUT:**

- Nominal: 110/240 VAC, 50/60 Hz
- Max input current: 0.55 A/ 0.25 A
- Power factor:  $\lambda = 0.95 @ P_{out} > 25W$

**OUTPUT:**

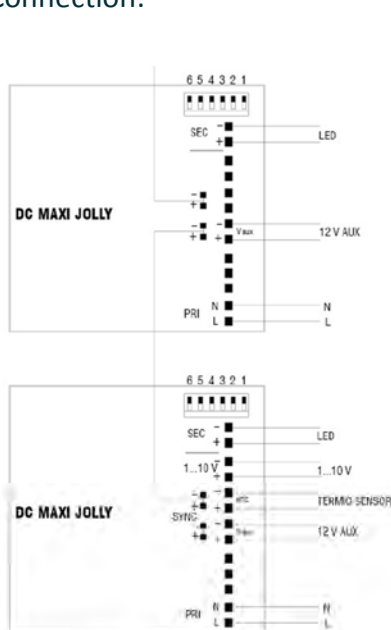
- SELV insulation on output
- Max output power and current precision:
  - 25W@350mA  $\rightarrow$  2...74V
  - 35W@500mA  $\rightarrow$  2...72V
  - 50W@700mA  $\rightarrow$  2...71V
  - 50W@900mA  $\rightarrow$  2...55V
  - 50W@1050mA  $\rightarrow$  2...48V
- Max output voltage: 90VDC
- 12V isolated auxiliary output max 50mA



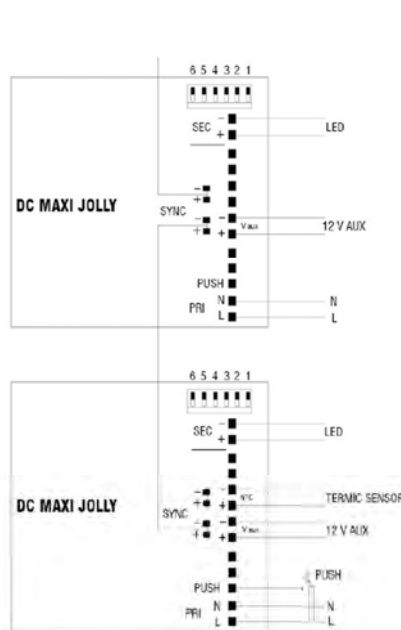
**DIMMING:**

- PWV controller by 1-10V signal, 100K potentiometer, push button or DALI signal
- Dedicate terminal block for DALI signal
- Header for other power supplier synchronization (1master + 9 slaves max)
- Select Softstart

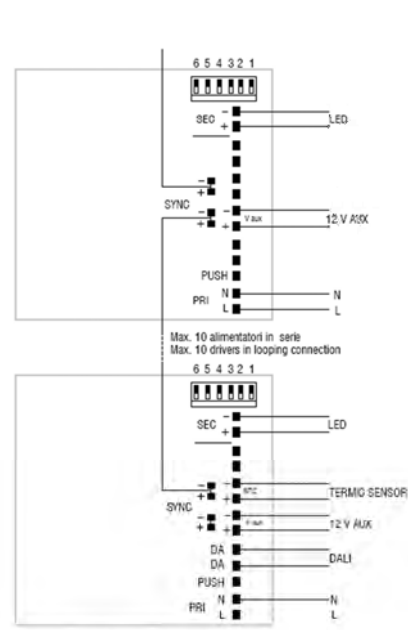
**Connection:**



PWM by 1-10V



PUSH and synchronization cable



DALI signal





## Sensors

### 1.Light Sensor (wall and recessed)



SensLights Model Specification	SLL 1436A Wall Mount Sensor
Power Supply	AC 100V~240V
Power Frequency	50 ~ 60Hz
Rated Load	3000W Max.tungsten(220-240V/AC)
Ambient Light	< 10 LUX ~ Sunshine ( Adjustable )
Sensing Angle	180 degrees
Sensing Distance	24° C < 15 meters
Time Delay	10 sec~ 6.Min to 9Min Max
Work Temperature	-20 ~ +50 °C
Power Consumption	0. 45 w (working ) 0.1 1W (static )
Installation Height	1.5 M ~ 3.5 M

### 2.Presence Sensor



#### Sensor ( Occupation Sensor )

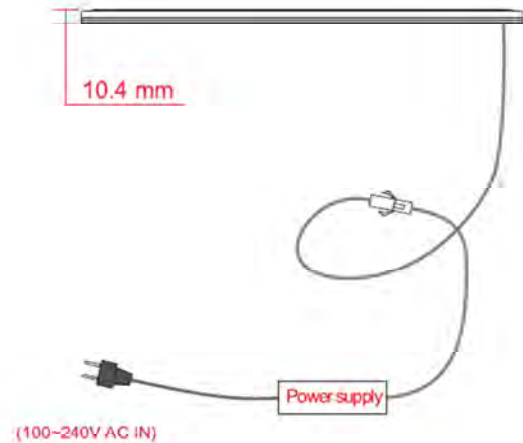
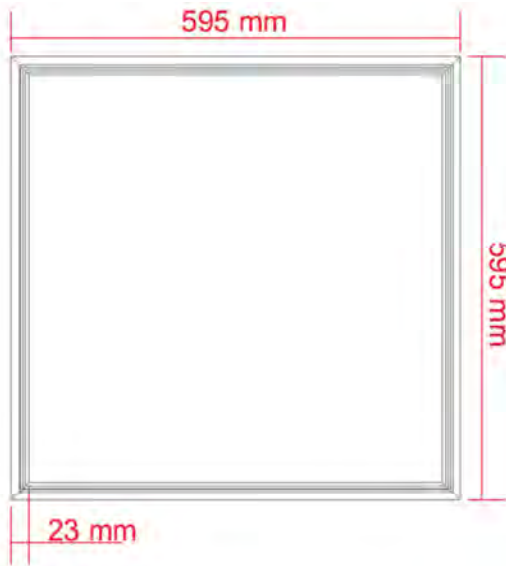
SensLights Model Specification	SLL 1224J Ceiling Mount Sensor
Power Supply	AC 100V~240V
Power Consumption	Max. 2000W incandescent bulb (resister-load) or 600W fluorescent load
Power Consumption	0.45W(static 0.1W)
Sensing Angle	25° C < 360 degrees
Sensing Distance	360°, radius 4.5 meters with installation height of 2.8 meters
Off Delay	From (10±5) seconds to (4±1) minutes adjustable
Illumination	<3LUX-daylight ( Adjustable in 0-50LUX inaction for over 50LUX )
Preparation	After electrifying up to the light flushes 3 times

### 3. Light And Presence Sensor



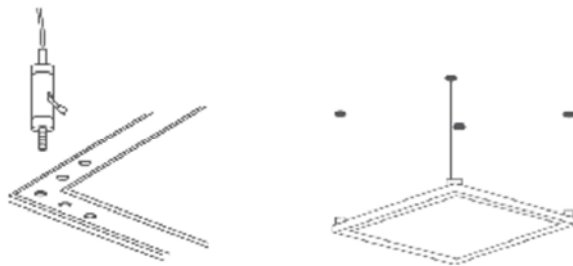
SensLights Model Specification	SLL1227J Ceiling Mount Sensor ( Occupation Sensor )
Power Supply	AC 100V~240V
Load	Max. 3000W incandescent bulb (resister-load) or 800W fluorescent load
Power Consumption	<10mW (static 0.1W)
Sensing Angle	25° C < 360 degrees
Sensing Distance	360°, radius 2 to 15 meters depends on installation height
HF system	5.8GHz CW radar
Off Delay	From (10±5) seconds to (30 ±1) minutes adjustable
Illumination	light control: 10~500LUX,
Preparation	After electrifying up to the light flushes 3 times
Measurement	10*4.5 CM(Round)

# Product Drawing



## Installation

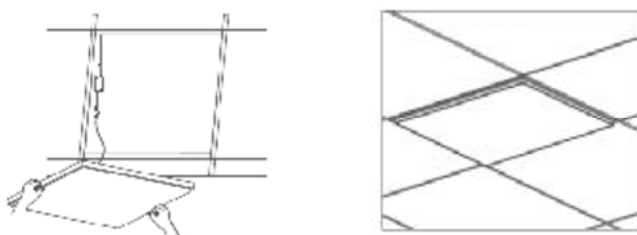
### 1. SUSPENDING TYPE



Steps:

- Fixed one end of stainless steel onto the ceiling with anchor bolt.
- Screw the other end of stainless steel into the back cover of LED panel light.

### 2. EMBEDDED TYPE

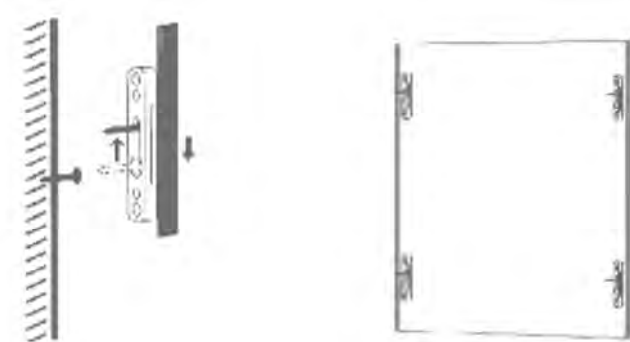


Steps:

- Taked of the false ceiling panel, put in the panel from diagonal.
- Fix the panel at the right place.



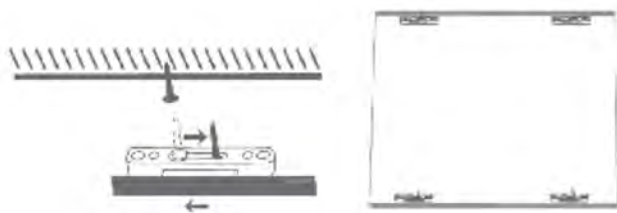
3. WALL MOUNTING TYPE



Steps:

- Knock the screws into the wall, then installed the fixed parts into the back cover of the LED panel light.
- Slide the integrity of LED panel light and the fixed parts and lock with the screws.

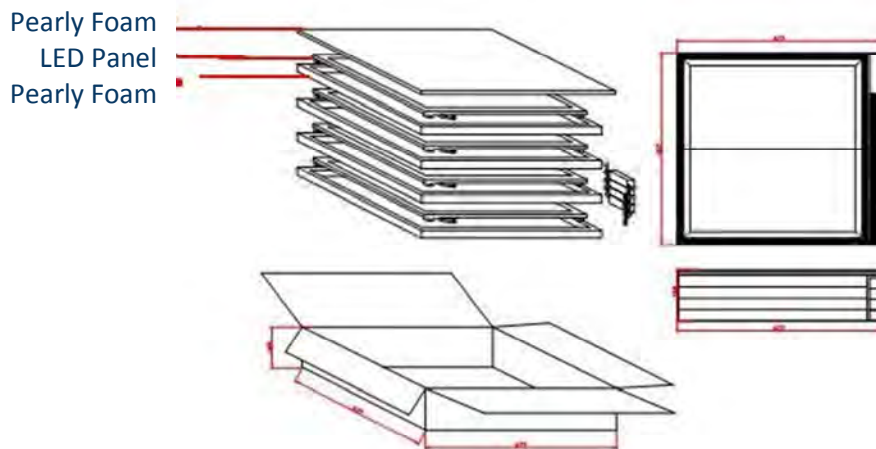
4. CEILING TYPE



Steps:

- Knock the screws into the wall, then installed the fixed parts onto the back cover of the LED panel light.
- Slide the integrity of LED panel light and the fixed parts and lock with the nail.

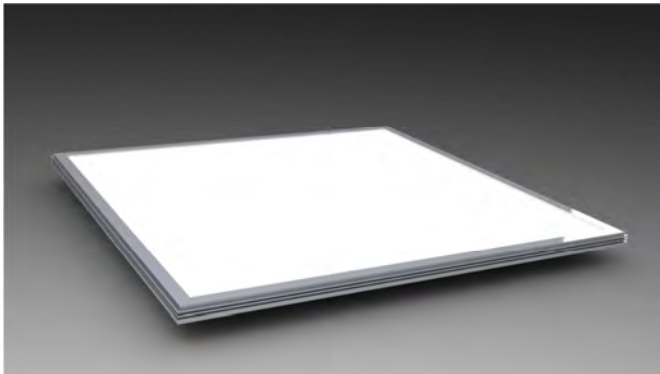
# Packaging



# Application

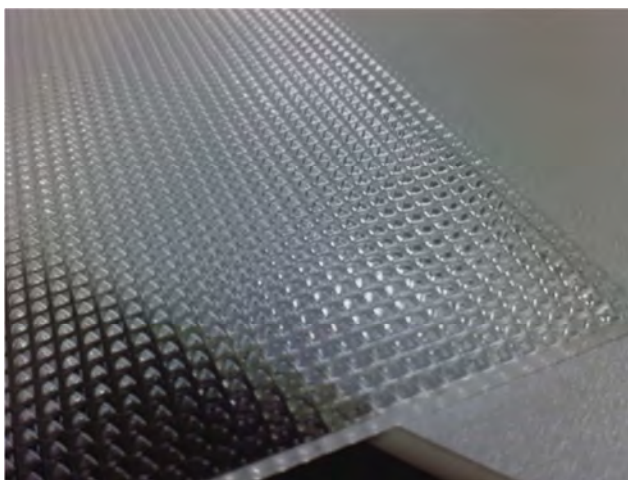


LED Panel With Opal Diffusor



- Office
- Shop
- Hospital
- Hotel

LED Panel With Prismatic Diffusor



- Video-Terminal Environment



## Description Information(From Photometric File)

Photometric File: SLED527-42W.IES

IES Format: IESNA:LM-63-2002

[TEST] YS

[TESTLAB] YS

[ISSUEDATE] 2015/02/12

[MANUFAC]

[LUMCAT] 1

[LUMINAIRE]

[LAMPCAT] LED

[LAMP]

[BALLASTCAT]

[BALLAST]

[OTHER] YS00908GON-1800

[MORE] Temperature:25, Humidity:40

[More] Frequency:50.0 Voltage:220.6 Current:0.395 Power:42.6 PF:0.488

## Character

Lamp Power(w):	42.6
Total Rated Lamp Lumens(lm):	4200.00
Luminair Lumens(lm):	2689.55
Total Luminair Efficiency:	64.04%
Luminaire Efficacy Rating(LER):	63.13
Maximum Intencity(cd):	957.17
Max Cd Angle(deg):	C=0.0 $\gamma$ =1.0
Downward Lumens(lm):	2688.90
Downward Total Efficiency:	99.98%
Spacing Criteria:	C0_180=0.62 C90_270=0.61
CIE Type:	Semi-Direct
Beam Angle(50%Imax):	Left=-55.9 Right=55.8
Field Angle(10%Imax):	163.7
ErP $\phi$ use(120deg):	2097.84lm



**Candela Tabulation**



	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>y 0.0</u>	955.54	955.54	955.54	955.54	955.54	955.54	955.54
<u>y 1.0</u>	957.17	954.95	955.08	954.94	955.10	954.15	954.06
<u>y 2.0</u>	956.76	954.74	954.75	954.66	954.76	953.82	954.04
<u>y 3.0</u>	956.01	953.68	953.60	953.39	953.93	953.02	953.31
<u>y 4.0</u>	954.44	951.81	952.03	951.62	952.24	951.30	951.76
<u>y 5.0</u>	953.29	950.42	950.63	949.80	950.89	949.81	950.64
<u>y 6.0</u>	950.87	947.74	948.09	947.29	948.35	947.45	948.40
<u>y 7.0</u>	948.60	945.21	945.80	944.84	946.06	944.72	946.04
<u>y 8.0</u>	945.89	942.23	942.74	941.51	943.07	942.13	943.66
<u>y 9.0</u>	942.98	938.91	939.42	938.28	939.77	938.62	940.67
<u>y 10.0</u>	939.83	935.60	936.30	934.03	936.63	935.12	937.51
<u>y 11.0</u>	935.75	931.41	931.81	930.14	932.40	930.98	933.42
<u>y 12.0</u>	931.59	926.77	927.52	925.34	927.92	927.00	929.77
<u>y 13.0</u>	927.43	922.38	923.16	920.12	923.56	922.03	925.27
<u>y 14.0</u>	922.28	916.76	917.54	915.16	918.26	916.91	920.22
<u>y 15.0</u>	917.09	911.78	912.36	908.99	912.59	911.78	915.52
<u>y 16.0</u>	911.96	906.11	906.80	903.00	907.23	905.83	909.93
<u>y 17.0</u>	905.75	899.46	900.14	897.03	900.96	899.87	904.06
<u>y 18.0</u>	899.53	893.36	893.97	889.79	894.21	893.49	898.20
<u>y 19.0</u>	893.15	886.12	886.69	882.86	887.70	886.36	891.22
<u>y 20.0</u>	886.20	879.18	879.54	875.84	880.55	879.79	884.82
<u>y 21.0</u>	879.01	872.12	872.49	867.72	872.78	872.41	877.86
<u>y 22.0</u>	871.72	863.85	864.19	859.66	865.40	864.33	870.05
<u>y 23.0</u>	863.46	856.07	856.20	851.42	856.79	856.68	862.76
<u>y 24.0</u>	855.66	848.03	847.74	842.69	848.49	848.36	854.22
<u>y 25.0</u>	847.50	838.84	838.91	833.75	840.14	839.53	846.13
<u>y 26.0</u>	838.35	830.26	830.11	824.59	830.69	830.93	837.84
<u>y 27.0</u>	829.69	820.66	820.57	814.61	821.52	821.26	828.48
<u>y 28.0</u>	820.20	811.28	810.71	805.27	812.01	812.28	819.68
<u>y 29.0</u>	810.77	801.91	801.48	795.28	802.11	802.72	810.49
<u>y 30.0</u>	801.17	791.36	791.04	784.44	792.07	792.20	800.31
<u>y 31.0</u>	790.95	781.20	780.47	774.24	781.71	782.38	790.65
<u>y 32.0</u>	780.45	770.72	770.08	762.98	770.68	771.47	780.15
<u>y 33.0</u>	770.50	759.86	759.14	752.08	760.34	760.95	769.77
<u>y 34.0</u>	759.55	749.16	748.07	741.17	749.38	750.38	759.45
<u>y 35.0</u>	748.31	737.73	736.82	729.19	737.57	738.73	748.13
<u>y 36.0</u>	737.38	726.02	724.89	717.53	726.48	727.49	737.10
<u>y 37.0</u>	725.94	714.95	713.65	706.11	714.93	716.35	726.06
<u>y 38.0</u>	714.01	702.80	701.64	693.56	702.53	704.04	714.11
<u>y 39.0</u>	702.44	690.71	689.16	681.43	690.82	692.30	702.33
<u>y 40.0</u>	689.84	678.60	677.22	668.92	678.11	679.82	690.42
<u>y 41.0</u>	677.89	666.20	664.18	656.35	665.68	667.51	677.73
<u>y 42.0</u>	665.77	653.65	651.91	643.69	653.63	655.28	665.92
<u>y 43.0</u>	652.51	640.80	639.31	630.64	640.30	642.16	653.34
<u>y 44.0</u>	639.88	627.52	625.79	617.31	627.42	629.17	640.15
<u>y 45.0</u>	627.43	614.72	613.04	604.74	614.46	616.32	627.65
<u>y 46.0</u>	613.79	601.65	600.27	591.15	601.28	603.14	614.86

**Candela Tabulation (Cont.)**



	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>Y 47.0</u>	600.69	587.96	586.34	577.44	588.00	589.89	601.20
<u>Y 48.0</u>	587.25	574.63	573.23	564.11	574.59	576.33	588.19
<u>Y 49.0</u>	573.19	560.47	559.20	549.91	560.53	562.39	574.24
<u>Y 50.0</u>	560.08	547.25	545.70	536.66	547.40	549.35	560.93
<u>Y 51.0</u>	546.32	533.71	532.34	523.14	533.72	535.42	547.60
<u>Y 52.0</u>	532.04	519.23	518.05	508.71	519.46	521.23	533.31
<u>Y 53.0</u>	518.35	505.53	504.21	495.13	505.93	507.56	519.48
<u>Y 54.0</u>	504.54	491.67	490.79	481.44	492.20	493.52	506.01
<u>Y 55.0</u>	489.87	476.97	476.14	466.81	477.68	479.19	491.44
<u>Y 56.0</u>	475.91	463.10	462.09	453.05	463.86	465.25	477.27
<u>Y 57.0</u>	461.12	448.31	447.93	438.40	449.20	450.43	463.09
<u>Y 58.0</u>	447.04	434.24	433.31	424.52	435.19	436.69	448.30
<u>Y 59.0</u>	432.91	420.19	419.68	410.66	421.39	422.36	434.50
<u>Y 60.0</u>	417.88	405.11	405.27	395.77	406.61	407.39	420.07
<u>Y 61.0</u>	403.26	390.75	390.47	381.73	392.40	393.30	404.99
<u>Y 62.0</u>	389.24	376.09	376.44	367.38	377.80	378.30	390.82
<u>Y 63.0</u>	374.16	361.62	362.26	353.13	363.57	364.16	376.58
<u>Y 64.0</u>	359.48	347.29	347.53	339.12	349.55	349.95	361.46
<u>Y 65.0</u>	344.91	332.46	333.46	324.67	334.89	334.79	347.24
<u>Y 66.0</u>	329.68	317.57	318.60	309.96	320.35	320.49	332.23
<u>Y 67.0</u>	315.40	303.73	304.51	296.29	306.56	306.36	317.74
<u>Y 68.0</u>	300.82	288.72	290.41	281.83	291.77	291.32	303.41
<u>Y 69.0</u>	285.64	274.07	275.60	267.34	277.45	277.12	288.43
<u>Y 70.0</u>	271.31	259.71	261.36	253.35	263.19	262.28	273.81
<u>Y 71.0</u>	257.03	245.23	247.45	239.24	248.84	247.98	259.79
<u>Y 72.0</u>	241.93	230.76	232.65	224.92	234.68	233.83	244.92
<u>Y 73.0</u>	227.60	216.37	218.35	211.06	220.24	219.04	230.20
<u>Y 74.0</u>	212.66	201.58	204.16	196.50	205.61	204.70	215.95
<u>Y 75.0</u>	198.43	188.01	190.04	183.12	192.10	191.04	201.63
<u>Y 76.0</u>	184.36	173.58	176.02	169.40	177.85	176.45	187.19
<u>Y 77.0</u>	169.57	159.09	162.09	154.97	163.61	162.31	173.15
<u>Y 78.0</u>	155.16	145.09	147.57	141.55	149.87	148.26	158.37
<u>Y 79.0</u>	141.47	130.34	133.87	127.40	135.20	133.63	144.39
<u>Y 80.0</u>	126.92	116.87	120.30	114.10	121.92	120.23	130.68
<u>Y 81.0</u>	112.83	103.17	106.02	101.07	108.28	106.25	116.17
<u>Y 82.0</u>	99.14	88.89	92.65	87.32	94.19	92.15	102.52
<u>Y 83.0</u>	84.93	75.53	78.85	74.25	80.99	78.79	88.69
<u>Y 84.0</u>	71.82	62.10	65.52	61.63	67.70	65.25	75.14
<u>Y 85.0</u>	58.47	48.38	52.36	48.11	53.90	51.43	61.72
<u>Y 86.0</u>	44.61	35.41	39.23	35.60	41.17	38.51	48.37
<u>Y 87.0</u>	31.83	22.19	26.55	22.70	28.17	24.93	34.83
<u>Y 88.0</u>	19.33	10.27	15.27	10.03	16.80	13.48	22.44
<u>Y 89.0</u>	7.86	1.72	5.10	0.80	6.19	3.30	10.89
<u>Y 90.0</u>	0.93	0.00	0.00	0.00	0.00	0.00	1.64
<u>Y 91.0</u>	0.00	0.22	0.28	0.00	0.34	0.08	0.28
<u>Y 92.0</u>	0.00	0.01	0.20	0.13	0.14	0.19	0.25
<u>Y 93.0</u>	0.28	0.00	0.00	0.00	0.00	0.00	0.00

**Candela Tabulation - (Cont.)**



	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>Y 94.0</u>	0.00	0.20	0.14	0.00	0.22	0.13	0.19
<u>Y 95.0</u>	0.05	0.00	0.05	0.06	0.00	0.00	0.00
<u>Y 96.0</u>	0.26	0.10	0.00	0.00	0.18	0.00	0.00
<u>Y 97.0</u>	0.00	0.17	0.07	0.03	0.25	0.17	0.13
<u>Y 98.0</u>	0.16	0.00	0.08	0.00	0.00	0.00	0.05
<u>Y 99.0</u>	0.10	0.14	0.00	0.00	0.25	0.00	0.00
<u>Y 100.0</u>	0.00	0.00	0.25	0.15	0.00	0.16	0.23
<u>Y 101.0</u>	0.16	0.00	0.10	0.00	0.00	0.00	0.09
<u>Y 102.0</u>	0.00	0.20	0.00	0.00	0.24	0.00	0.00
<u>Y 103.0</u>	0.00	0.00	0.18	0.16	0.00	0.15	0.19
<u>Y 104.0</u>	0.20	0.00	0.00	0.00	0.12	0.00	0.00
<u>Y 105.0</u>	0.00	0.19	0.00	0.00	0.22	0.00	0.00
<u>Y 106.0</u>	0.00	0.00	0.26	0.10	0.00	0.15	0.23
<u>Y 107.0</u>	0.19	0.00	0.00	0.00	0.22	0.00	0.00
<u>Y 108.0</u>	0.00	0.09	0.00	0.25	0.00	0.20	0.00
<u>Y 109.0</u>	0.07	0.00	0.14	0.07	0.00	0.17	0.19
<u>Y 110.0</u>	0.13	0.03	0.04	0.00	0.28	0.00	0.00
<u>Y 111.0</u>	0.00	0.10	0.00	0.22	0.00	0.20	0.00
<u>Y 112.0</u>	0.26	0.00	0.25	0.00	0.06	0.00	0.22
<u>Y 113.0</u>	0.01	0.24	0.00	0.12	0.22	0.05	0.00
<u>Y 114.0</u>	0.00	0.06	0.00	0.22	0.00	0.26	0.00
<u>Y 115.0</u>	0.22	0.00	0.24	0.00	0.15	0.00	0.25
<u>Y 116.0</u>	0.00	0.23	0.00	0.21	0.02	0.08	0.00
<u>Y 117.0</u>	0.00	0.00	0.00	0.00	0.00	0.11	0.12
<u>Y 118.0</u>	0.21	0.00	0.22	0.00	0.25	0.00	0.29
<u>Y 119.0</u>	0.00	0.21	0.00	0.24	0.00	0.11	0.00
<u>Y 120.0</u>	0.28	0.00	0.00	0.00	0.00	0.06	0.04
<u>Y 121.0</u>	0.00	0.15	0.22	0.03	0.20	0.00	0.19
<u>Y 122.0</u>	0.00	0.25	0.00	0.26	0.00	0.12	0.00
<u>Y 123.0</u>	0.28	0.00	0.00	0.00	0.06	0.04	0.03
<u>Y 124.0</u>	0.00	0.14	0.27	0.10	0.14	0.00	0.19
<u>Y 125.0</u>	0.25	0.06	0.00	0.11	0.00	0.27	0.00
<u>Y 126.0</u>	0.24	0.00	0.00	0.00	0.19	0.03	0.00
<u>Y 127.0</u>	0.00	0.11	0.31	0.14	0.05	0.00	0.24
<u>Y 128.0</u>	0.27	0.08	0.00	0.06	0.00	0.23	0.00
<u>Y 129.0</u>	0.00	0.00	0.11	0.00	0.27	0.00	0.21
<u>Y 130.0</u>	0.00	0.27	0.28	0.29	0.00	0.18	0.28
<u>Y 131.0</u>	0.31	0.12	0.01	0.05	0.05	0.32	0.00
<u>Y 132.0</u>	0.00	0.00	0.00	0.00	0.17	0.00	0.19
<u>Y 133.0</u>	0.22	0.28	0.25	0.25	0.00	0.18	0.10
<u>Y 134.0</u>	0.29	0.00	0.00	0.00	0.33	0.08	0.00
<u>Y 135.0</u>	0.00	0.00	0.00	0.00	0.15	0.00	0.18
<u>Y 136.0</u>	0.32	0.23	0.30	0.24	0.00	0.18	0.18
<u>Y 137.0</u>	0.00	0.00	0.00	0.00	0.30	0.11	0.00
<u>Y 138.0</u>	0.12	0.10	0.10	0.28	0.00	0.00	0.28
<u>Y 139.0</u>	0.36	0.29	0.30	0.22	0.01	0.18	0.16
<u>Y 140.0</u>	0.00	0.00	0.00	0.00	0.27	0.14	0.00



**Candela Tabulation - (Cont.)**



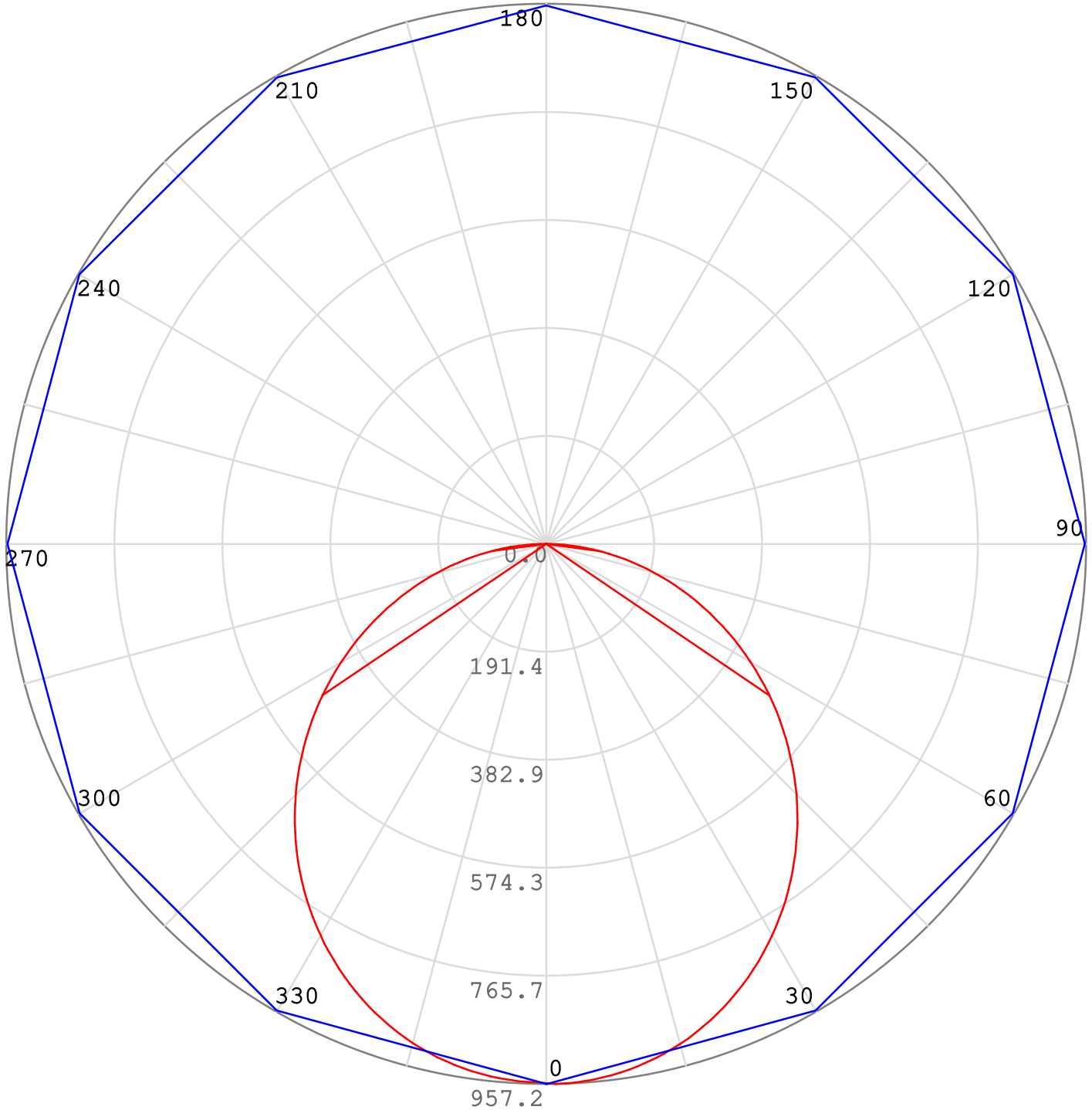
	<u>C0.0</u>	<u>C30.0</u>	<u>C60.0</u>	<u>C90.0</u>	<u>C120.0</u>	<u>C150.0</u>	<u>C180.0</u>
<u>Y 141.0</u>	0.11	0.10	0.04	0.31	0.00	0.00	0.30
<u>Y 142.0</u>	0.19	0.19	0.26	0.00	0.29	0.31	0.00
<u>Y 143.0</u>	0.00	0.00	0.00	0.00	0.25	0.16	0.00
<u>Y 144.0</u>	0.25	0.08	0.03	0.32	0.00	0.00	0.32
<u>Y 145.0</u>	0.05	0.23	0.29	0.00	0.33	0.29	0.00
<u>Y 146.0</u>	0.00	0.00	0.00	0.12	0.00	0.00	0.03
<u>Y 147.0</u>	0.34	0.31	0.00	0.13	0.00	0.08	0.28
<u>Y 148.0</u>	0.04	0.22	0.33	0.00	0.34	0.31	0.04
<u>Y 149.0</u>	0.04	0.00	0.00	0.22	0.00	0.00	0.00
<u>Y 150.0</u>	0.29	0.29	0.15	0.12	0.27	0.05	0.32
<u>Y 151.0</u>	0.00	0.00	0.17	0.00	0.00	0.29	0.00
<u>Y 152.0</u>	0.10	0.00	0.00	0.24	0.00	0.00	0.00
<u>Y 153.0</u>	0.24	0.31	0.12	0.08	0.35	0.03	0.35
<u>Y 154.0</u>	0.00	0.00	0.24	0.00	0.00	0.29	0.00
<u>Y 155.0</u>	0.20	0.07	0.00	0.38	0.15	0.00	0.21
<u>Y 156.0</u>	0.16	0.34	0.05	0.10	0.38	0.00	0.36
<u>Y 157.0</u>	0.00	0.00	0.29	0.01	0.00	0.34	0.00
<u>Y 158.0</u>	0.43	0.05	0.00	0.33	0.24	0.00	0.18
<u>Y 159.0</u>	0.00	0.28	0.30	0.00	0.13	0.26	0.28
<u>Y 160.0</u>	0.02	0.00	0.37	0.00	0.00	0.33	0.00
<u>Y 161.0</u>	0.38	0.03	0.00	0.34	0.35	0.00	0.15
<u>Y 162.0</u>	0.00	0.28	0.31	0.00	0.05	0.30	0.29
<u>Y 163.0</u>	0.31	0.00	0.09	0.34	0.08	0.15	0.00
<u>Y 164.0</u>	0.32	0.31	0.00	0.00	0.37	0.00	0.08
<u>Y 165.0</u>	0.00	0.35	0.29	0.00	0.00	0.25	0.37
<u>Y 166.0</u>	0.38	0.00	0.21	0.34	0.17	0.20	0.00
<u>Y 167.0</u>	0.00	0.32	0.00	0.07	0.19	0.00	0.33
<u>Y 168.0</u>	0.00	0.15	0.22	0.10	0.00	0.39	0.36
<u>Y 169.0</u>	0.40	0.00	0.28	0.41	0.26	0.20	0.00
<u>Y 170.0</u>	0.00	0.29	0.00	0.00	0.22	0.00	0.33
<u>Y 171.0</u>	0.29	0.19	0.46	0.16	0.03	0.39	0.08
<u>Y 172.0</u>	0.00	0.22	0.20	0.17	0.00	0.37	0.35
<u>Y 173.0</u>	0.42	0.00	0.35	0.40	0.35	0.27	0.00
<u>Y 174.0</u>	0.30	0.21	0.40	0.18	0.09	0.39	0.08
<u>Y 175.0</u>	0.08	0.21	0.00	0.00	0.00	0.00	0.35
<u>Y 176.0</u>	0.35	0.25	0.37	0.20	0.18	0.40	0.09
<u>Y 177.0</u>	0.00	0.16	0.00	0.00	0.00	0.00	0.38
<u>Y 178.0</u>	0.32	0.00	0.20	0.24	0.23	0.00	0.05
<u>Y 179.0</u>	0.22	0.32	0.00	0.22	0.00	0.40	0.32
<u>Y 180.0</u>	0.10	0.10	0.10	0.10	0.10	0.10	0.10

**2D Light Intensity Distribution Curve**



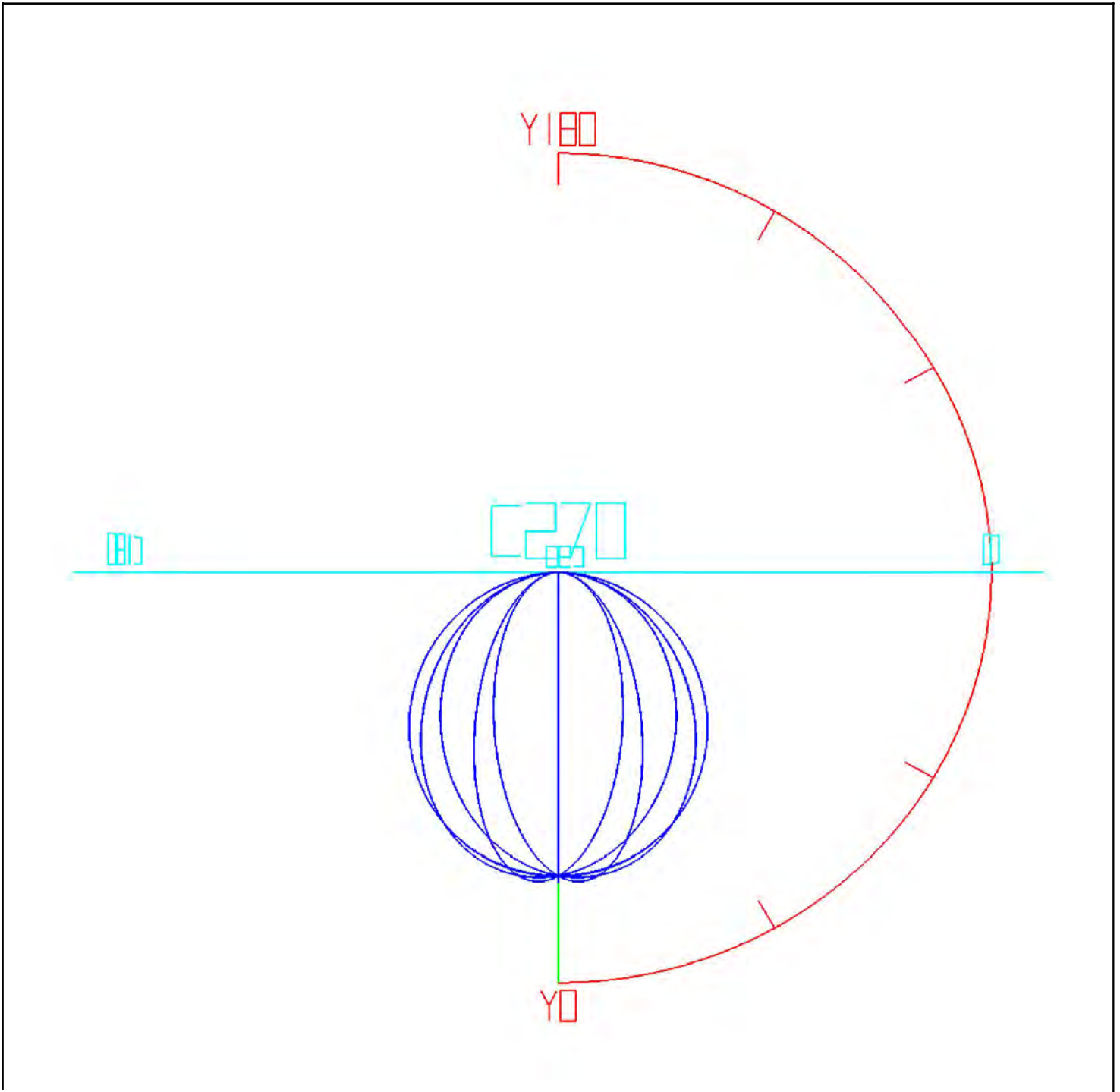
Plane [50%Ang.] [10%Ang.]  
 C0.0: 111.7 164.7

Polar Graph



C Plane: C0.0 ———  
 γ Cone: γ1.0 ———

3D Light Intensity Distribution Curve



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



**Zonal Liumens Tabulation**

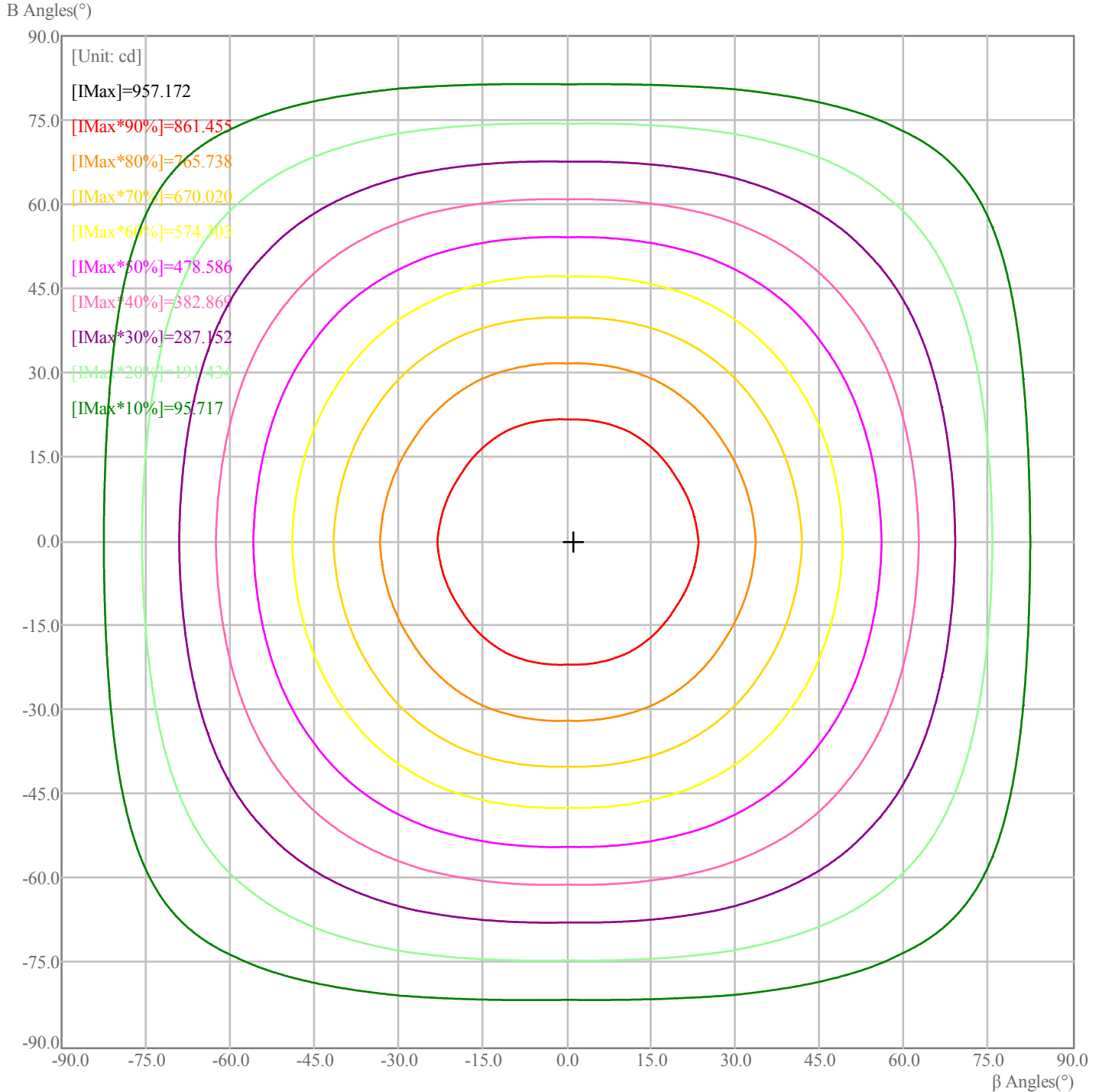
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.91	0.91	0.03	0.03	47.0-48.0	47.04	47.04	1.75	1.75
1.0-2.0	2.74	3.66	0.10	0.14	48.0-49.0	46.66	93.69	1.73	3.48
2.0-3.0	4.56	8.22	0.17	0.31	49.0-50.0	46.23	139.92	1.72	5.20
3.0-4.0	6.38	14.60	0.24	0.54	50.0-51.0	45.78	185.70	1.70	6.90
4.0-5.0	8.18	22.78	0.30	0.85	51.0-52.0	45.23	230.94	1.68	8.59
5.0-6.0	9.98	32.76	0.37	1.22	52.0-53.0	44.64	275.57	1.66	10.25
6.0-7.0	11.75	44.52	0.44	1.66	53.0-54.0	44.02	319.59	1.64	11.88
7.0-8.0	13.51	58.03	0.50	2.16	54.0-55.0	43.32	362.91	1.61	13.49
8.0-9.0	15.25	73.29	0.57	2.72	55.0-56.0	42.56	405.47	1.58	15.08
9.0-10.0	16.97	90.26	0.63	3.36	56.0-57.0	41.76	447.23	1.55	16.63
10.0-11.0	18.66	108.92	0.69	4.05	57.0-58.0	40.91	488.14	1.52	18.15
11.0-12.0	20.33	129.25	0.76	4.81	58.0-59.0	40.05	528.19	1.49	19.64
12.0-13.0	21.96	151.21	0.82	5.62	59.0-60.0	39.11	567.30	1.45	21.09
13.0-14.0	23.56	174.77	0.88	6.50	60.0-61.0	38.11	605.41	1.42	22.51
14.0-15.0	25.12	199.89	0.93	7.43	61.0-62.0	37.09	642.50	1.38	23.89
15.0-16.0	26.65	226.54	0.99	8.42	62.0-63.0	36.04	678.54	1.34	25.23
16.0-17.0	28.14	254.68	1.05	9.47	63.0-64.0	34.95	713.50	1.30	26.53
17.0-18.0	29.58	284.27	1.10	10.57	64.0-65.0	33.82	747.32	1.26	27.79
18.0-19.0	30.98	315.25	1.15	11.72	65.0-66.0	32.63	779.95	1.21	29.00
19.0-20.0	32.34	347.60	1.20	12.92	66.0-67.0	31.44	811.39	1.17	30.17
20.0-21.0	33.66	381.25	1.25	14.18	67.0-68.0	30.23	841.62	1.12	31.29
21.0-22.0	34.91	416.16	1.30	15.47	68.0-69.0	28.95	870.57	1.08	32.37
22.0-23.0	36.12	452.29	1.34	16.82	69.0-70.0	27.66	898.22	1.03	33.40
23.0-24.0	37.28	489.56	1.39	18.20	70.0-71.0	26.36	924.58	0.98	34.38
24.0-25.0	38.38	527.95	1.43	19.63	71.0-72.0	25.02	949.60	0.93	35.31
25.0-26.0	39.43	567.38	1.47	21.10	72.0-73.0	23.66	973.26	0.88	36.19
26.0-27.0	40.42	607.80	1.50	22.60	73.0-74.0	22.26	995.52	0.83	37.01
27.0-28.0	41.35	649.14	1.54	24.14	74.0-75.0	20.88	1016.40	0.78	37.79
28.0-29.0	42.23	691.38	1.57	25.71	75.0-76.0	19.49	1035.90	0.72	38.52
29.0-30.0	43.05	734.43	1.60	27.31	76.0-77.0	18.06	1053.96	0.67	39.19
30.0-31.0	43.80	778.22	1.63	28.94	77.0-78.0	16.62	1070.58	0.62	39.81
31.0-32.0	44.49	822.71	1.65	30.59	78.0-79.0	15.16	1085.73	0.56	40.37
32.0-33.0	45.12	867.83	1.68	32.27	79.0-80.0	13.71	1099.44	0.51	40.88
33.0-34.0	45.70	913.52	1.70	33.97	80.0-81.0	12.27	1111.71	0.46	41.33
34.0-35.0	46.20	959.72	1.72	35.68	81.0-82.0	10.80	1122.51	0.40	41.74
35.0-36.0	46.63	1006.36	1.73	37.42	82.0-83.0	9.34	1131.86	0.35	42.08
36.0-37.0	47.03	1053.39	1.75	39.17	83.0-84.0	7.91	1139.77	0.29	42.38
37.0-38.0	47.35	1100.73	1.76	40.93	84.0-85.0	6.46	1146.22	0.24	42.62
38.0-39.0	47.59	1148.32	1.77	42.70	85.0-86.0	5.02	1151.24	0.19	42.80
39.0-40.0	47.78	1196.10	1.78	44.47	86.0-87.0	3.60	1154.84	0.13	42.94
40.0-41.0	47.90	1244.00	1.78	46.25	87.0-88.0	2.23	1157.07	0.08	43.02
41.0-42.0	47.97	1291.97	1.78	48.04	88.0-89.0	1.03	1158.10	0.04	43.06
42.0-43.0	47.97	1339.94	1.78	49.82	89.0-90.0	0.25	1158.36	0.01	43.07
43.0-44.0	47.89	1387.83	1.78	51.60	90.0-91.0	0.02	1158.38	0.00	43.07
44.0-45.0	47.77	1435.60	1.78	53.38	91.0-92.0	0.02	1158.40	0.00	43.07
45.0-46.0	47.60	1483.20	1.77	55.15	92.0-93.0	0.01	1158.41	0.00	43.07
46.0-47.0	47.35	1530.54	1.76	56.91	93.0-94.0	0.01	1158.41	0.00	43.07



**Zonal Liumens Tabulation - (Cont.)**

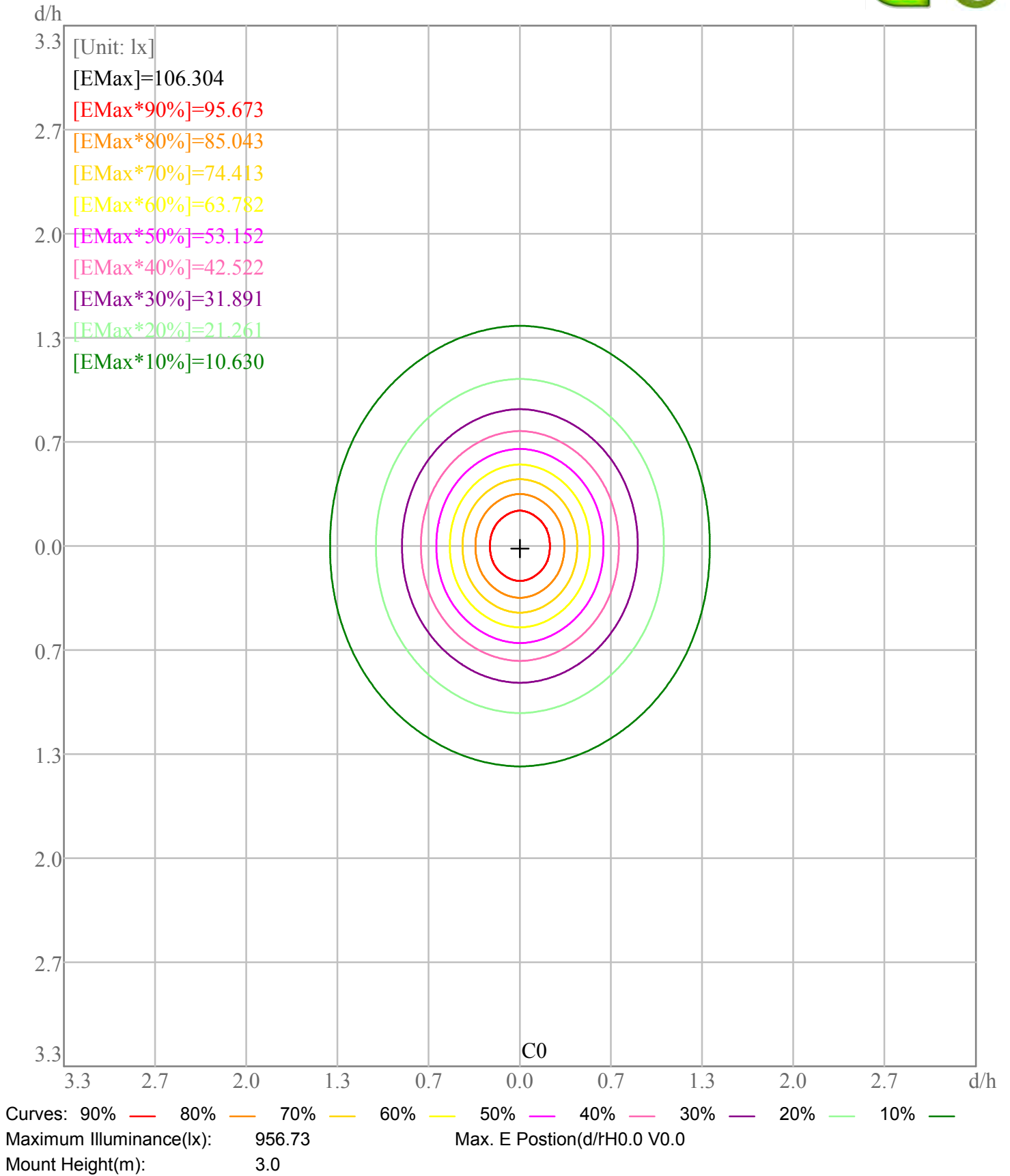
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.01	0.01	0.00	0.00	141.0-142.0	0.01	0.01	0.00	0.00
95.0-96.0	0.00	0.01	0.00	0.00	142.0-143.0	0.01	0.02	0.00	0.00
96.0-97.0	0.01	0.02	0.00	0.00	143.0-144.0	0.01	0.03	0.00	0.00
97.0-98.0	0.01	0.03	0.00	0.00	144.0-145.0	0.01	0.04	0.00	0.00
98.0-99.0	0.01	0.04	0.00	0.00	145.0-146.0	0.01	0.04	0.00	0.00
99.0-100.0	0.01	0.05	0.00	0.00	146.0-147.0	0.00	0.05	0.00	0.00
100.0-101.0	0.01	0.06	0.00	0.00	147.0-148.0	0.01	0.06	0.00	0.00
101.0-102.0	0.01	0.06	0.00	0.00	148.0-149.0	0.01	0.06	0.00	0.00
102.0-103.0	0.01	0.07	0.00	0.00	149.0-150.0	0.01	0.07	0.00	0.00
103.0-104.0	0.01	0.08	0.00	0.00	150.0-151.0	0.01	0.08	0.00	0.00
104.0-105.0	0.01	0.08	0.00	0.00	151.0-152.0	0.00	0.08	0.00	0.00
105.0-106.0	0.01	0.09	0.00	0.00	152.0-153.0	0.01	0.09	0.00	0.00
106.0-107.0	0.01	0.10	0.00	0.00	153.0-154.0	0.01	0.09	0.00	0.00
107.0-108.0	0.01	0.11	0.00	0.00	154.0-155.0	0.01	0.10	0.00	0.00
108.0-109.0	0.01	0.12	0.00	0.00	155.0-156.0	0.01	0.11	0.00	0.00
109.0-110.0	0.01	0.13	0.00	0.00	156.0-157.0	0.01	0.11	0.00	0.00
110.0-111.0	0.01	0.13	0.00	0.00	157.0-158.0	0.01	0.12	0.00	0.00
111.0-112.0	0.01	0.14	0.00	0.01	158.0-159.0	0.01	0.13	0.00	0.00
112.0-113.0	0.01	0.15	0.00	0.01	159.0-160.0	0.01	0.13	0.00	0.00
113.0-114.0	0.01	0.16	0.00	0.01	160.0-161.0	0.01	0.14	0.00	0.01
114.0-115.0	0.01	0.17	0.00	0.01	161.0-162.0	0.01	0.14	0.00	0.01
115.0-116.0	0.01	0.18	0.00	0.01	162.0-163.0	0.01	0.15	0.00	0.01
116.0-117.0	0.01	0.19	0.00	0.01	163.0-164.0	0.00	0.15	0.00	0.01
117.0-118.0	0.01	0.20	0.00	0.01	164.0-165.0	0.00	0.16	0.00	0.01
118.0-119.0	0.01	0.21	0.00	0.01	165.0-166.0	0.00	0.16	0.00	0.01
119.0-120.0	0.01	0.21	0.00	0.01	166.0-167.0	0.00	0.17	0.00	0.01
120.0-121.0	0.01	0.22	0.00	0.01	167.0-168.0	0.00	0.17	0.00	0.01
121.0-122.0	0.01	0.23	0.00	0.01	168.0-169.0	0.00	0.17	0.00	0.01
122.0-123.0	0.01	0.24	0.00	0.01	169.0-170.0	0.00	0.18	0.00	0.01
123.0-124.0	0.01	0.24	0.00	0.01	170.0-171.0	0.00	0.18	0.00	0.01
124.0-125.0	0.01	0.25	0.00	0.01	171.0-172.0	0.00	0.18	0.00	0.01
125.0-126.0	0.01	0.26	0.00	0.01	172.0-173.0	0.00	0.19	0.00	0.01
126.0-127.0	0.01	0.27	0.00	0.01	173.0-174.0	0.00	0.19	0.00	0.01
127.0-128.0	0.01	0.28	0.00	0.01	174.0-175.0	0.00	0.19	0.00	0.01
128.0-129.0	0.01	0.28	0.00	0.01	175.0-176.0	0.00	0.19	0.00	0.01
129.0-130.0	0.01	0.30	0.00	0.01	176.0-177.0	0.00	0.19	0.00	0.01
130.0-131.0	0.01	0.31	0.00	0.01	177.0-178.0	0.00	0.20	0.00	0.01
131.0-132.0	0.01	0.32	0.00	0.01	178.0-179.0	0.00	0.20	0.00	0.01
132.0-133.0	0.01	0.33	0.00	0.01	179.0-180.0	0.00	0.20	0.00	0.01
133.0-134.0	0.01	0.34	0.00	0.01					
134.0-135.0	0.01	0.34	0.00	0.01					
135.0-136.0	0.01	0.35	0.00	0.01					
136.0-137.0	0.01	0.36	0.00	0.01					
137.0-138.0	0.01	0.37	0.00	0.01					
138.0-139.0	0.01	0.38	0.00	0.01					
139.0-140.0	0.01	0.39	0.00	0.01					
140.0-141.0	0.01	0.40	0.00	0.01					

**Rectangle ISO Light Intensity Curve**

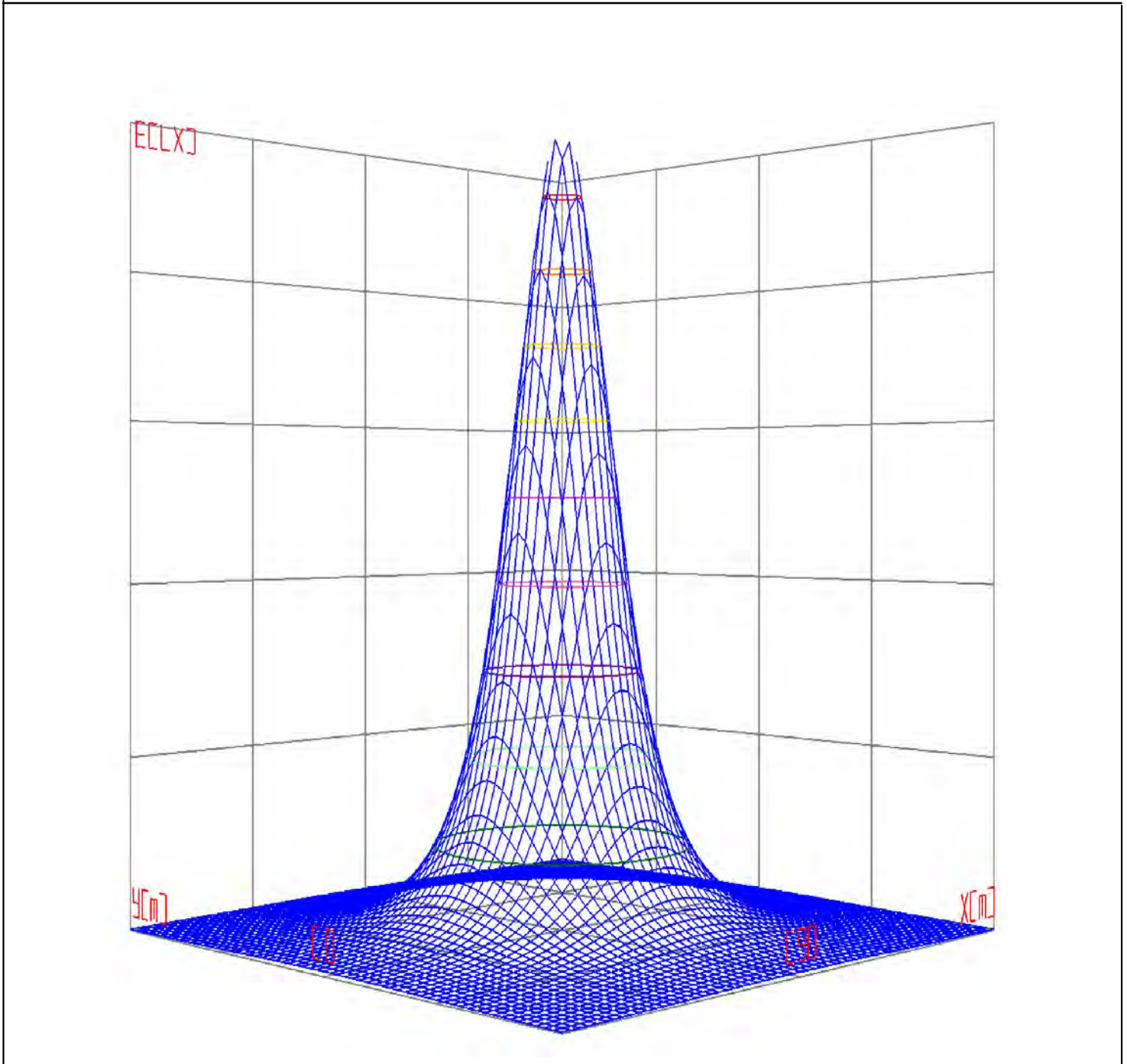


Curves: 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
 Maximum Light Intensity(cd): 957.17      Maximum Cd. Angles: H1.0 V0.0

Plane ISO-Illuminance Curve



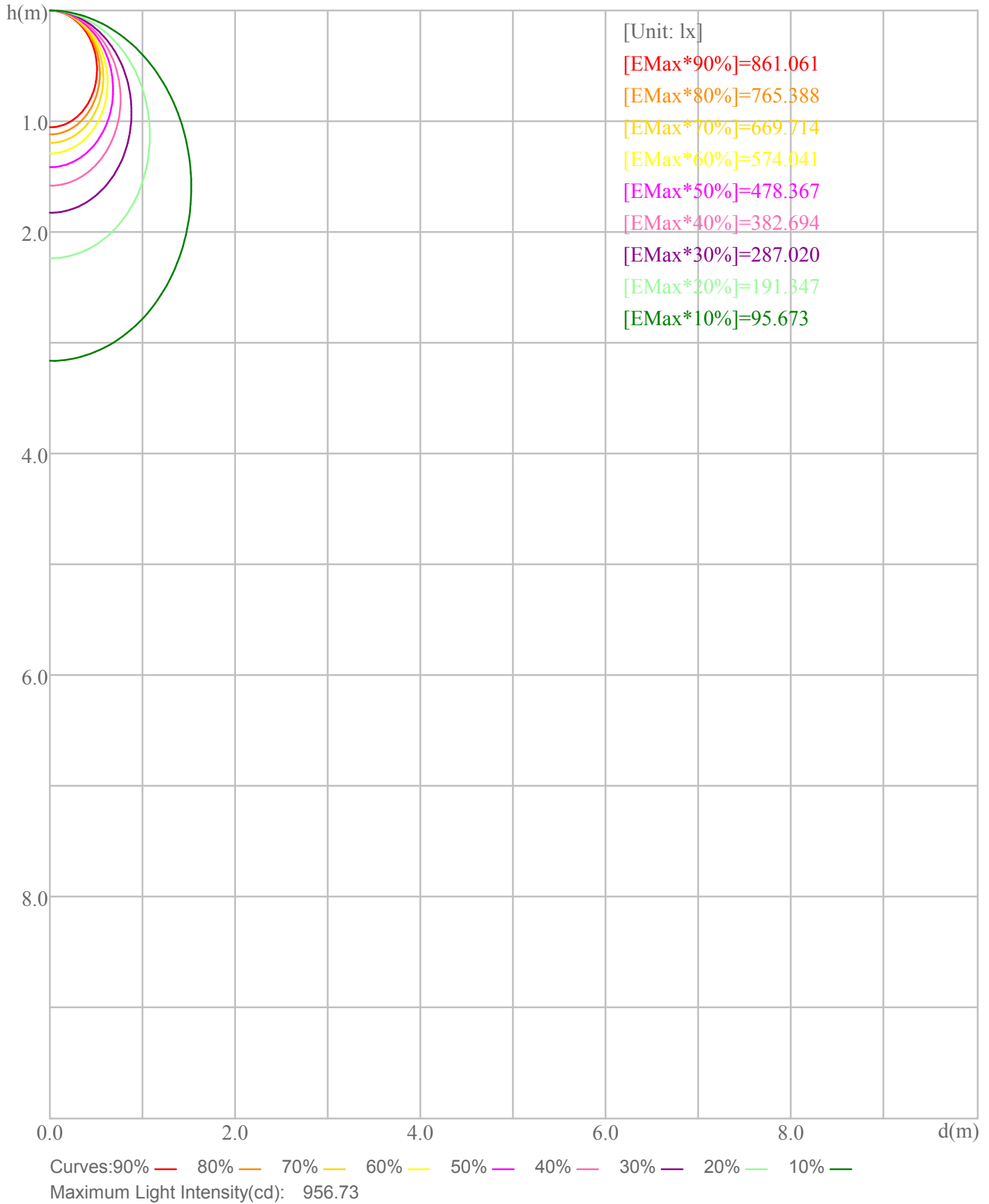
### 3D Plane ISO Illuminance Curve



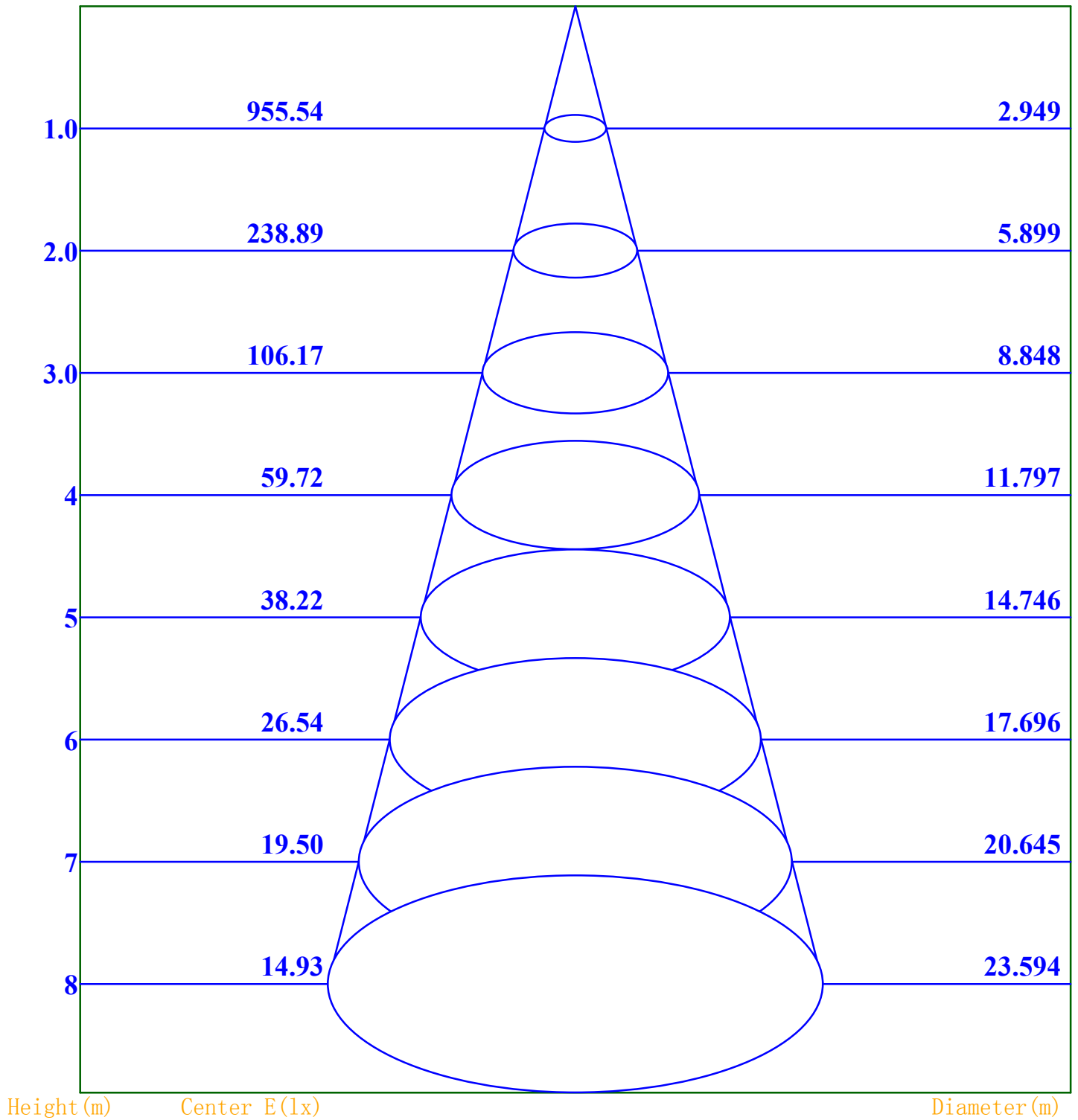
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0      Height(m): 3.0      Distance(m): 10.0



Space ISO Illuminance Curve



### Illuminance-Distance Curve



**Beam Angle:111.7**

Indoor Luminance Limiting Curve



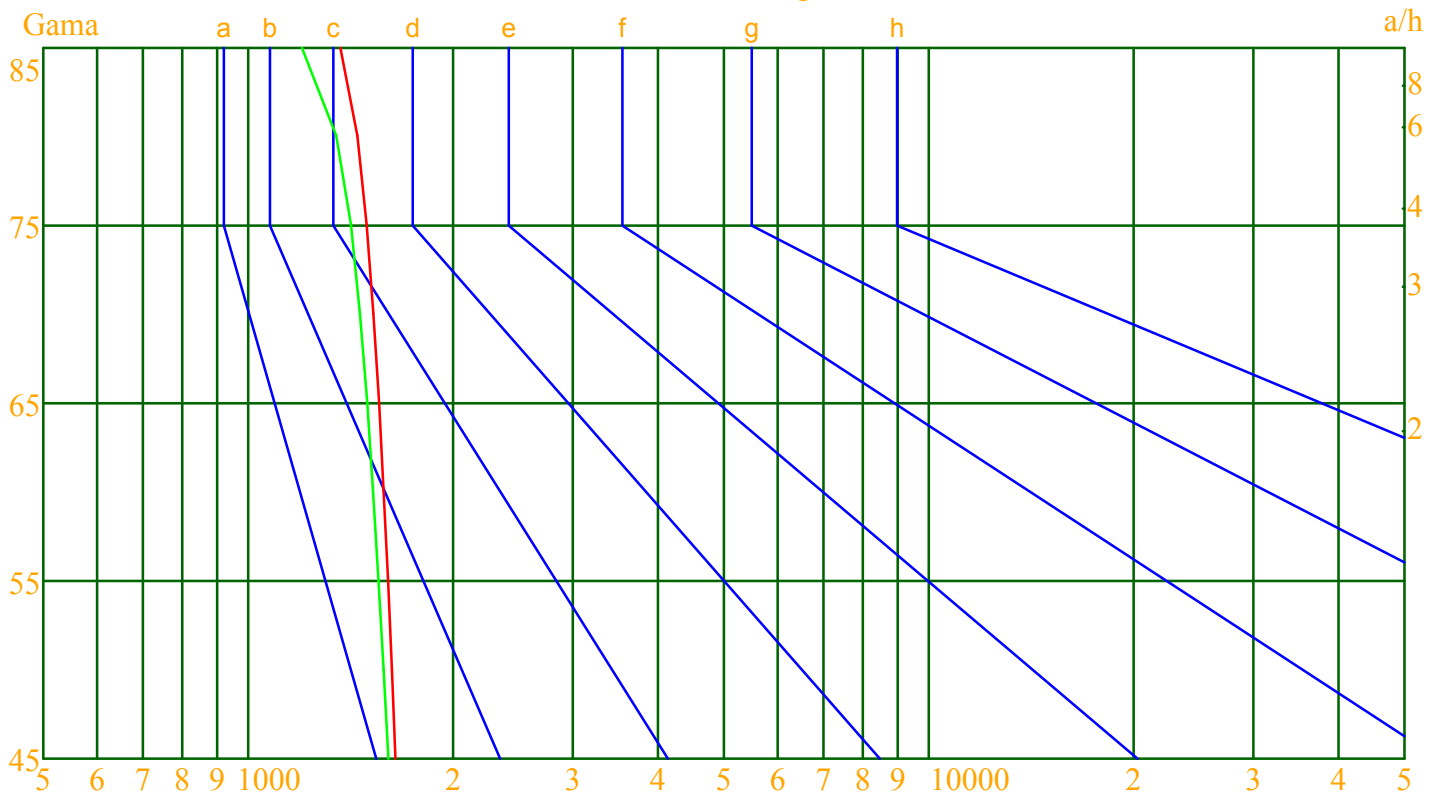
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
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					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Table

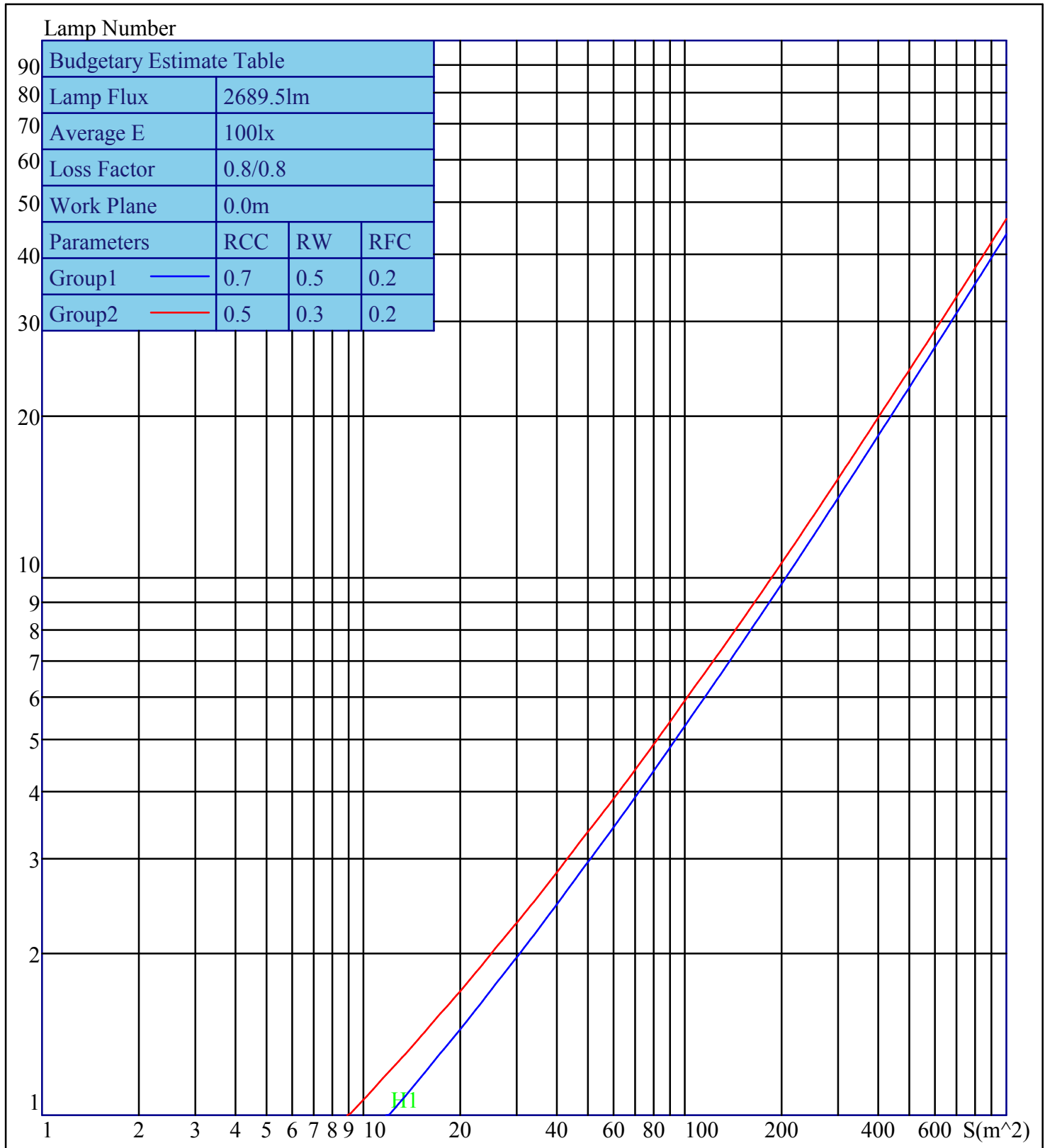
Gama(deg)	45	50	55	60	65	70	75	80	85
C0	2987	2934	2875	2814	2748	2671	2581	2461	2259
C90	2879	2811	2740	2665	2586	2494	2382	2212	1858

Luminance Limiting Curve



Luminous Size: Length(m)=0.545    Width(m)=0.545    Height(m)=0.000    Area(m<sup>2</sup>)=0.297025  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: —    C90-C270 Color: —

Indoor Budgetary Estimate Table



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8  
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8  
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

Indoor Coefficient of Utilization Table



Coefficients of Utilization - Zonal Cavity Method																																			
Coefficient 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	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR	Coefficient of Utilization(%)																																		
0	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64																	
1	69	66	64	61	68	65	62	60	62	60	58	60	58	56	57	56	55	53																	
2	63	58	53	50	61	57	52	49	54	51	48	52	49	47	50	48	46	44																	
3	57	51	45	41	56	50	45	41	48	43	40	46	42	39	44	41	39	37																	
4	53	45	39	35	51	44	39	35	42	38	34	41	37	34	39	36	33	32																	
5	48	40	34	30	47	39	34	30	38	33	29	37	32	29	35	32	29	27																	
6	45	36	30	26	43	35	30	26	34	29	26	33	29	26	32	28	25	24																	
7	41	33	27	23	40	32	27	23	31	26	23	30	26	23	29	25	22	21																	
8	39	30	24	21	38	29	24	21	29	24	20	28	23	20	27	23	20	19																	
9	36	27	22	19	35	27	22	18	26	22	18	26	21	18	25	21	18	17																	
10	34	25	20	17	33	25	20	17	24	20	17	24	20	17	23	19	17	15																	



Unified Glare Rating



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	15.5	19.2	16.2	19.8	20.4	15.3	19.0	16.0	19.6	20.2
	Y=3H	20.2	23.9	20.9	24.5	25.1	19.9	23.6	20.6	24.2	24.8
	Y=4H	23.2	26.4	23.9	27.0	27.6	22.8	26.0	23.5	26.7	27.2
	Y=6H	25.1	28.3	25.8	28.9	29.4	24.6	27.8	25.4	28.4	29.0
	Y=8H	25.8	28.9	26.6	29.6	30.1	25.3	28.4	26.0	29.0	29.6
	Y=12H	26.3	29.4	27.1	30.0	30.6	25.7	28.8	26.4	29.4	30.0
X=4H	Y=2H	17.2	20.4	17.9	21.0	21.6	17.0	20.3	17.7	20.9	21.4
	Y=3H	22.1	25.3	22.8	26.0	26.5	21.9	25.1	22.6	25.7	26.3
	Y=4H	23.7	25.7	24.7	26.5	27.3	23.4	25.4	24.4	26.2	27.0
	Y=6H	26.2	27.9	27.1	28.7	29.5	25.8	27.5	26.8	28.4	29.2
	Y=8H	27.1	28.8	28.1	29.6	30.4	26.7	28.4	27.7	29.2	30.0
	Y=12H	27.0	28.3	28.0	29.3	30.2	26.5	27.8	27.5	28.8	29.7
X=8H	Y=4H	24.3	25.9	25.2	26.8	27.5	24.0	25.6	25.0	26.5	27.3
	Y=6H	26.1	27.2	27.2	28.2	29.1	25.8	26.9	26.9	27.9	28.7
	Y=8H	26.8	27.7	27.9	28.7	29.6	26.5	27.3	27.6	28.4	29.3
	Y=12H	27.7	28.5	28.8	29.5	30.5	27.3	28.1	28.4	29.1	30.1
X=12H	Y=4H	23.4	24.8	24.4	25.7	26.6	23.1	24.5	24.2	25.5	26.3
	Y=6H	25.7	26.6	26.8	27.7	28.6	25.4	26.3	26.5	27.3	28.3
	Y=8H	26.9	27.7	28.0	28.7	29.7	26.6	27.4	27.7	28.4	29.3
Variations with the objerver position at spacings											
S=1.0H	2.4/-1.2					2.4/-1.0					
S=1.5H	-1.2/-18.8					-1.0/-18.6					
S=2.0H	-1.2/-18.8					-1.0/-18.6					





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ISO 14001



ISO 9001

