

Report No.:

Test Time: 2025-12-04 09:00

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 3000K

Number of Lamps:

Luminous Length (mm): 300

Luminous Height (mm):

Current: 0.0710 A

Power Factor: 0.9540

Luminaire Description: L300

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 300

Voltage: 232.10 V

Power: 15.69 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 1757.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H113.4

Vertical Diffuse Angle(50%): V113.5

Luminous Efficacy (lm/w): 112.02

Max. Intensity: 345.16 cd/klm

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1757.6 lm

Efficiency: 100%

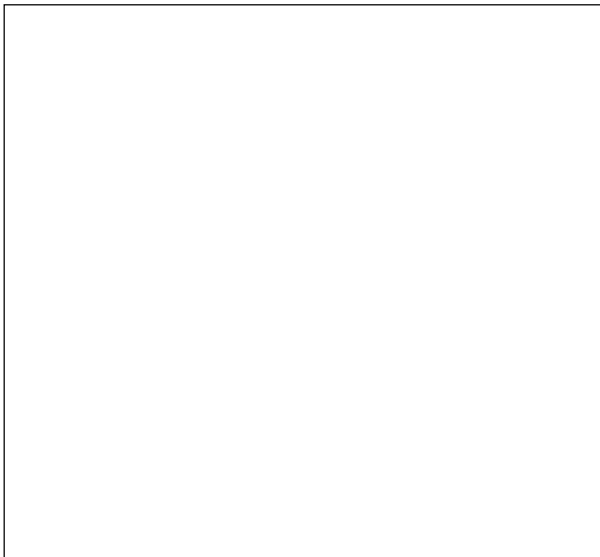
Upward Ratio: 0%

C0r0 Intensity: 345.16 cd/klm

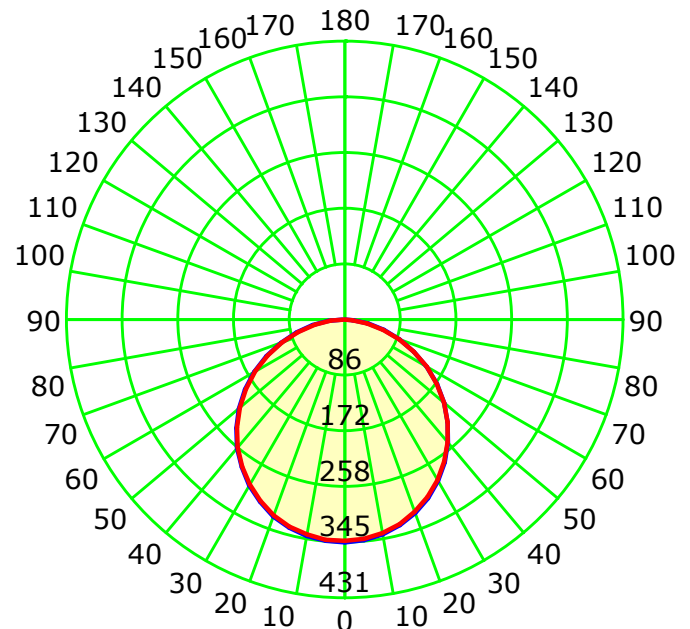
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 113.4°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:5.0

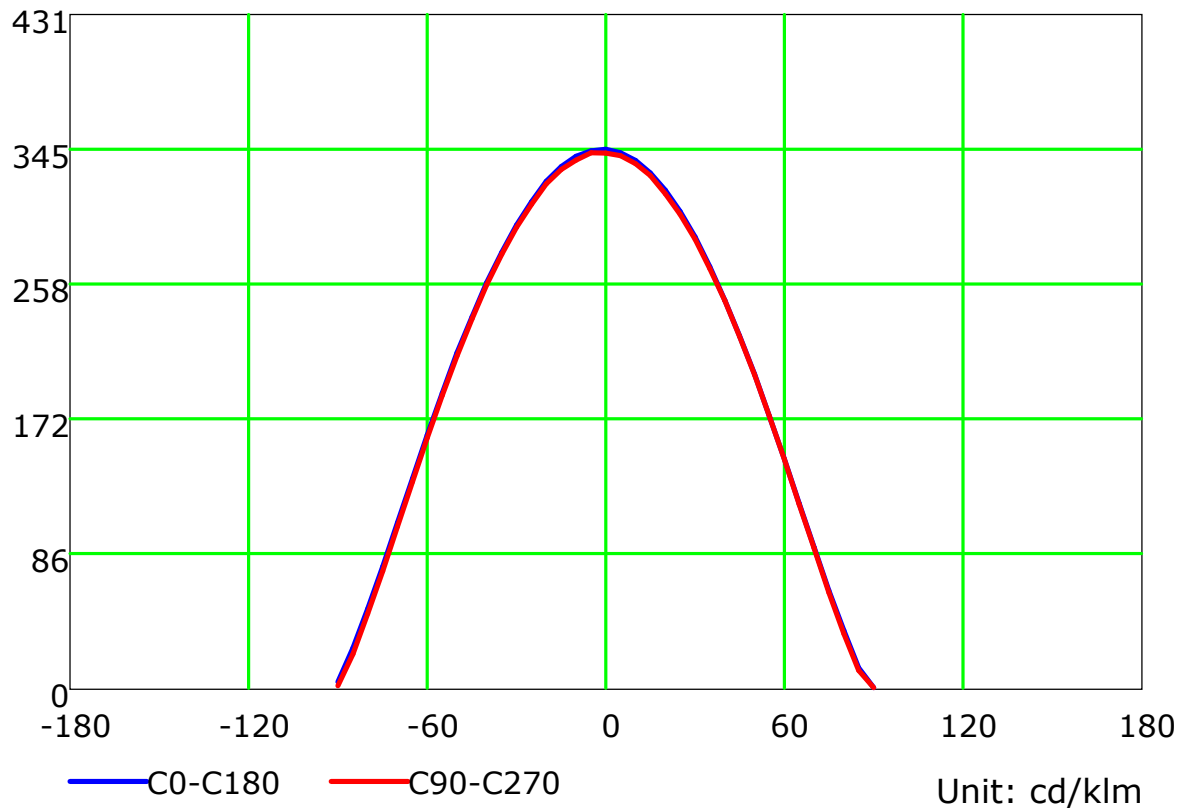
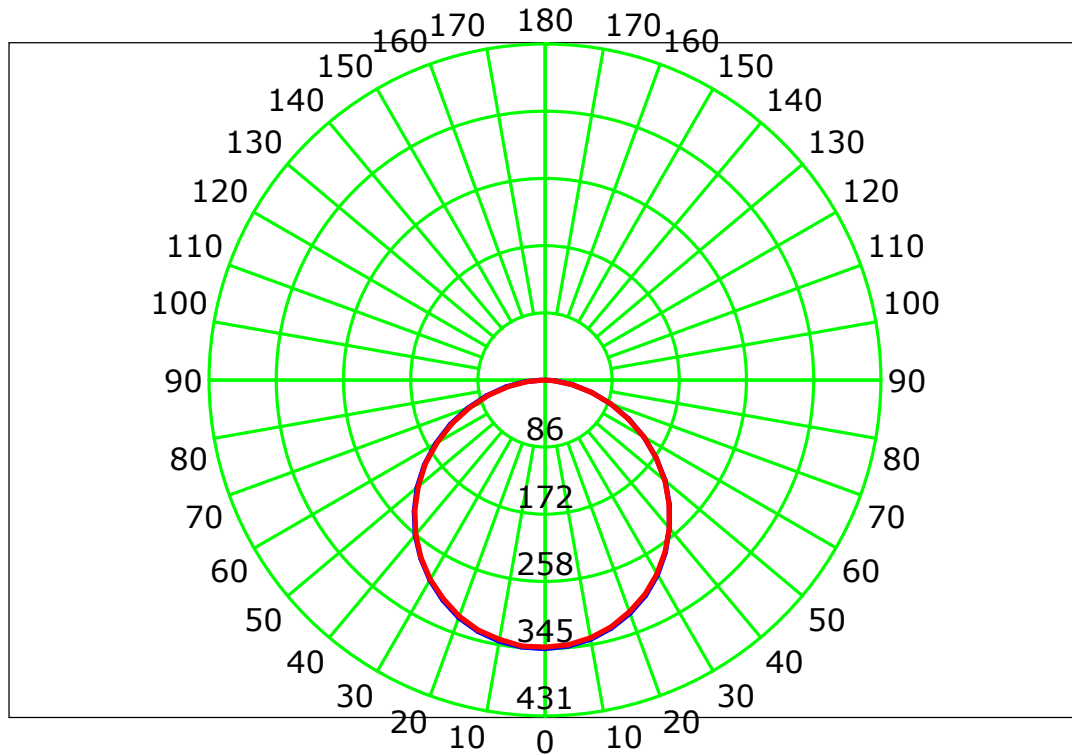
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

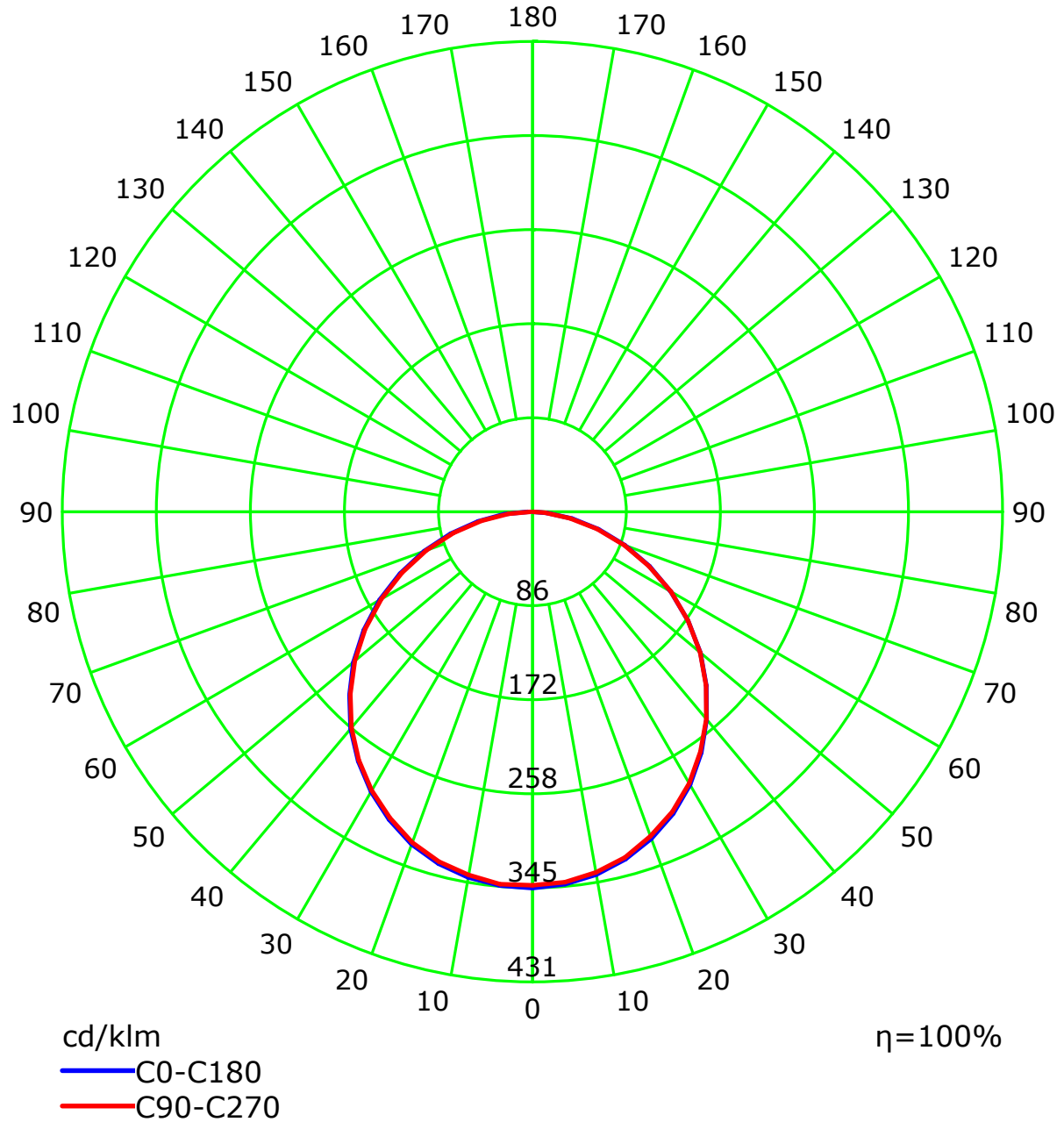
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



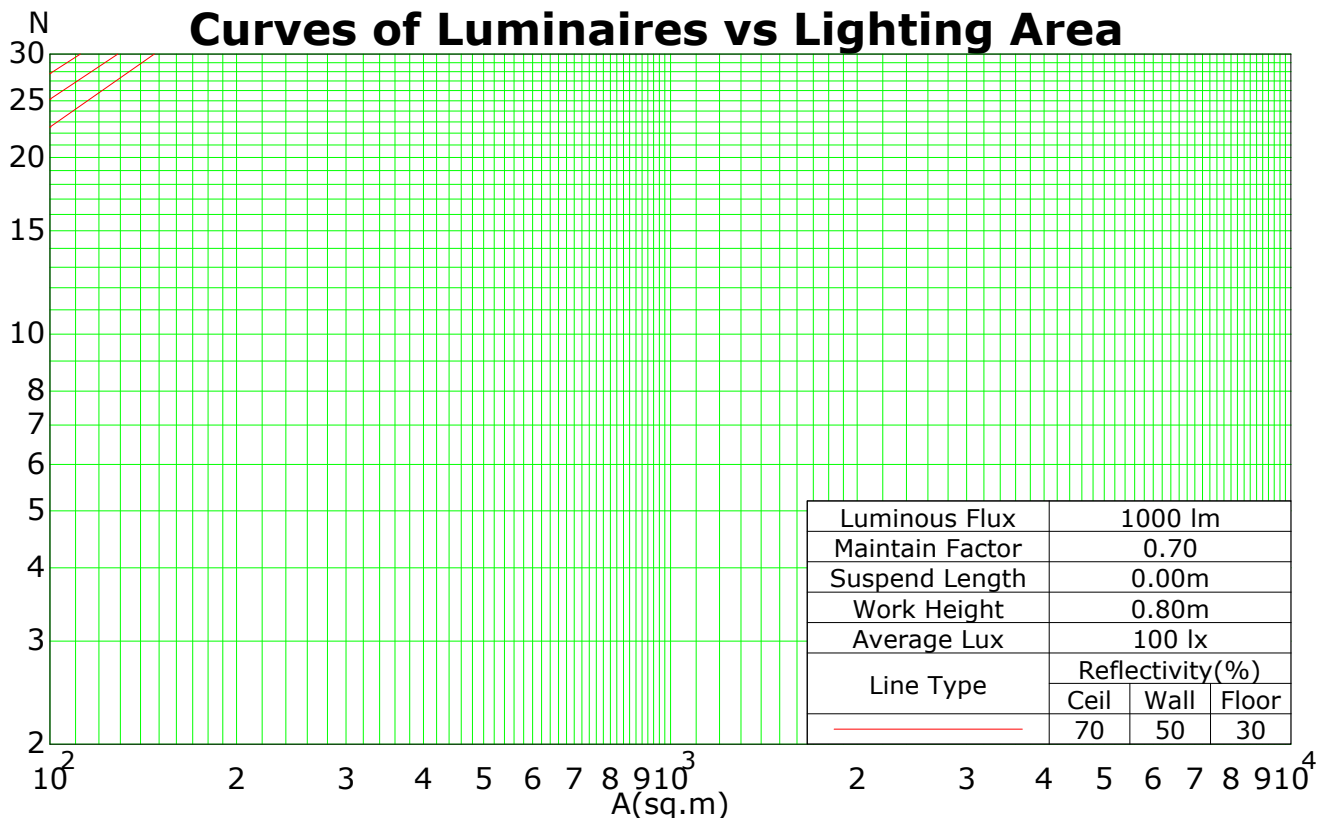
C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.04	0.99	0.95	1.06	1.01	0.97	0.94	0.97	0.94	0.91	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.98	0.90	0.83	0.77	0.96	0.88	0.82	0.76	0.85	0.79	0.75	0.81	0.77	0.73	0.78	0.75	0.71	0.69
3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.63	0.74	0.68	0.62	0.72	0.66	0.61	0.69	0.64	0.60	0.58
4	0.82	0.70	0.61	0.54	0.80	0.68	0.60	0.54	0.66	0.59	0.53	0.64	0.57	0.52	0.61	0.56	0.52	0.49
5	0.75	0.62	0.53	0.46	0.73	0.61	0.53	0.46	0.59	0.52	0.46	0.57	0.50	0.45	0.55	0.49	0.45	0.43
6	0.70	0.56	0.47	0.41	0.68	0.55	0.47	0.40	0.53	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.39	0.37
7	0.64	0.51	0.42	0.36	0.63	0.50	0.42	0.36	0.48	0.41	0.35	0.47	0.40	0.35	0.46	0.39	0.35	0.33
8	0.60	0.46	0.38	0.32	0.58	0.46	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.29
9	0.56	0.43	0.34	0.29	0.55	0.42	0.34	0.29	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.26
10	0.53	0.39	0.31	0.26	0.51	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.25	0.24

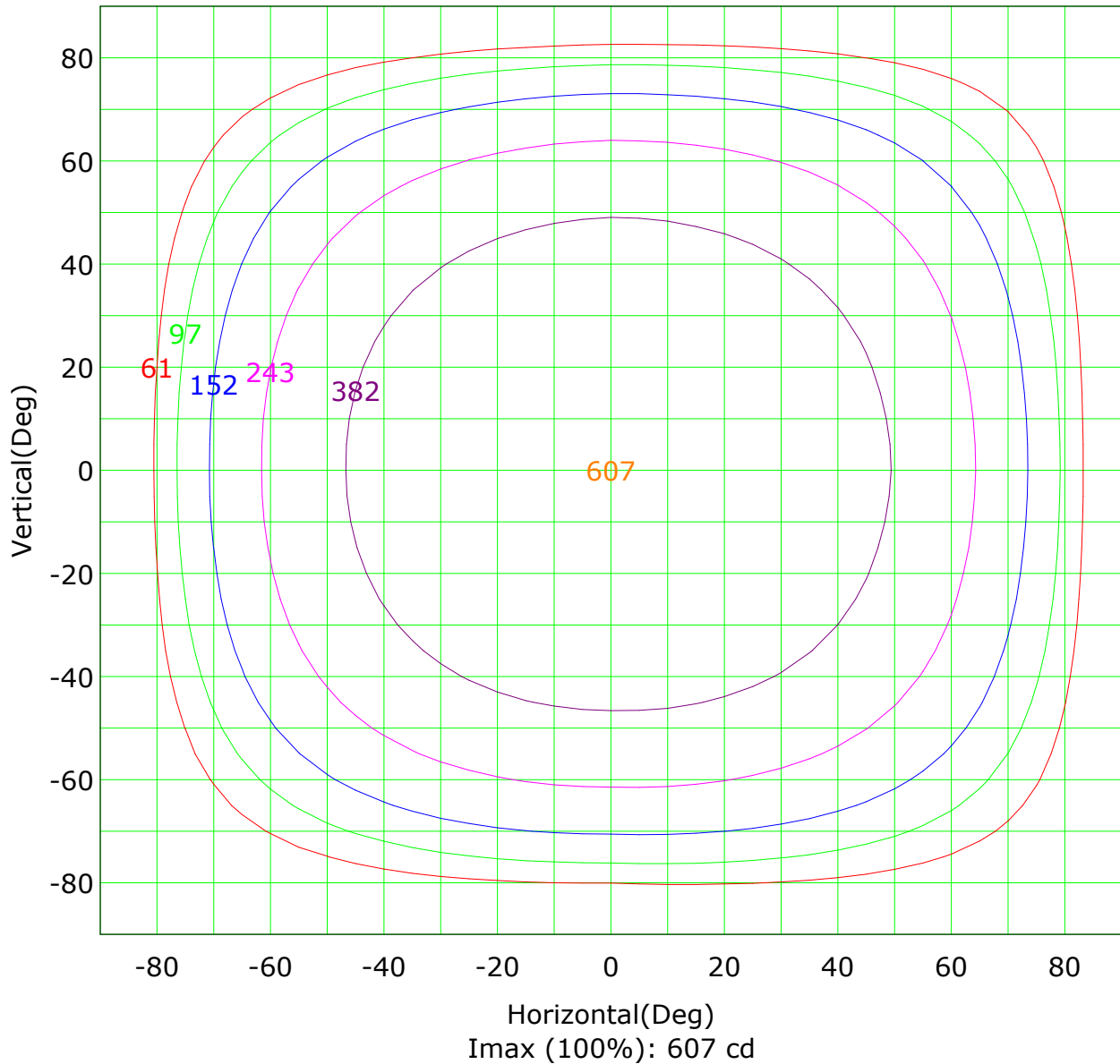
Spacing Criteria (0-180): 1.26  
Spacing Criteria (90-270): 1.26  
Spacing Criteria (Diagonal): 1.38



C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:5.0  
Test Device: GPM-1600L  
Distance: 7.172 m [K=1.0000]  
Humidity:  
Inspector:

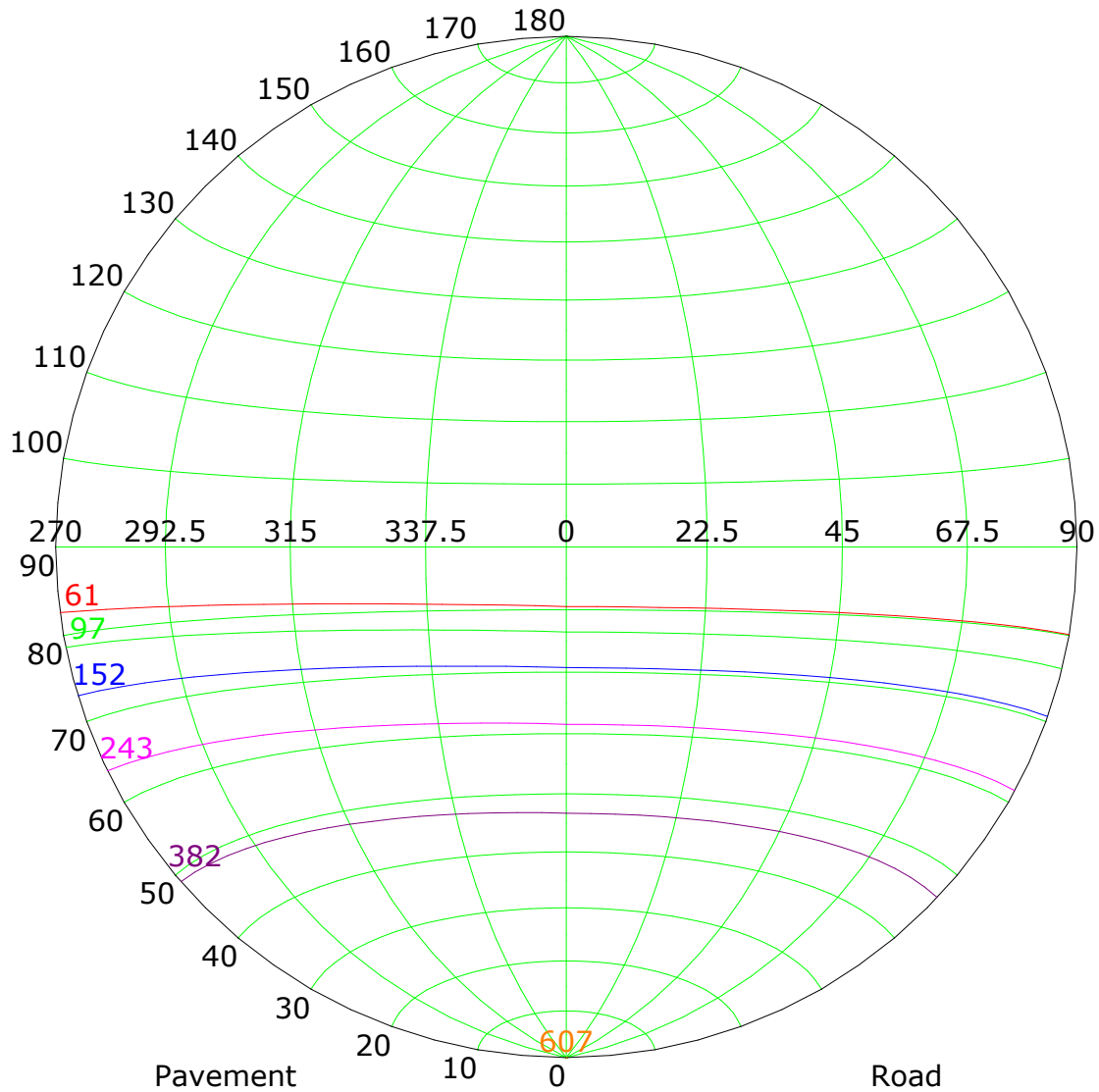
## Isocandela (rectangle)



C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## Isocandela (sphere)



Imax (100%): 607 cd

( 10%): 61 cd  
( 25%): 152 cd  
( 63%): 382 cd

( 16%): 97 cd  
( 40%): 243 cd  
(100%): 607 cd

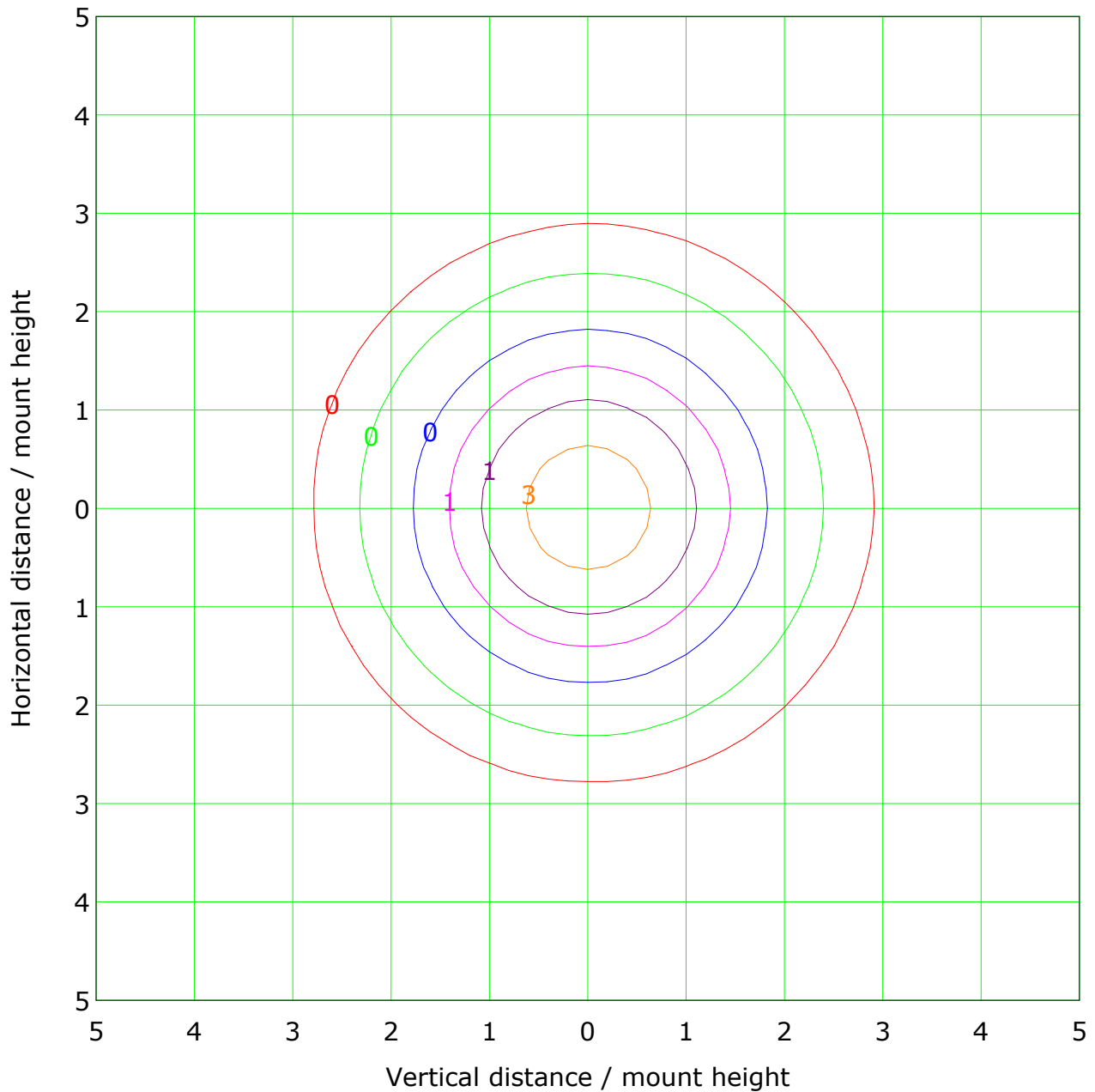
CIE: narrow - short  
CIE: Non-cut-off luminaire  
Max.At90: 51.412 cd/klm

IES: Non-cut-off  
Max.At80: 181.564 cd/klm  
Max.80-90: 23042512020408712000000000000.0

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:5.0  
Test Device: GPM-1600L  
Distance: 7.172 m [K=1.0000]  
Humidity:  
Inspector:

## IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 6.1 lx

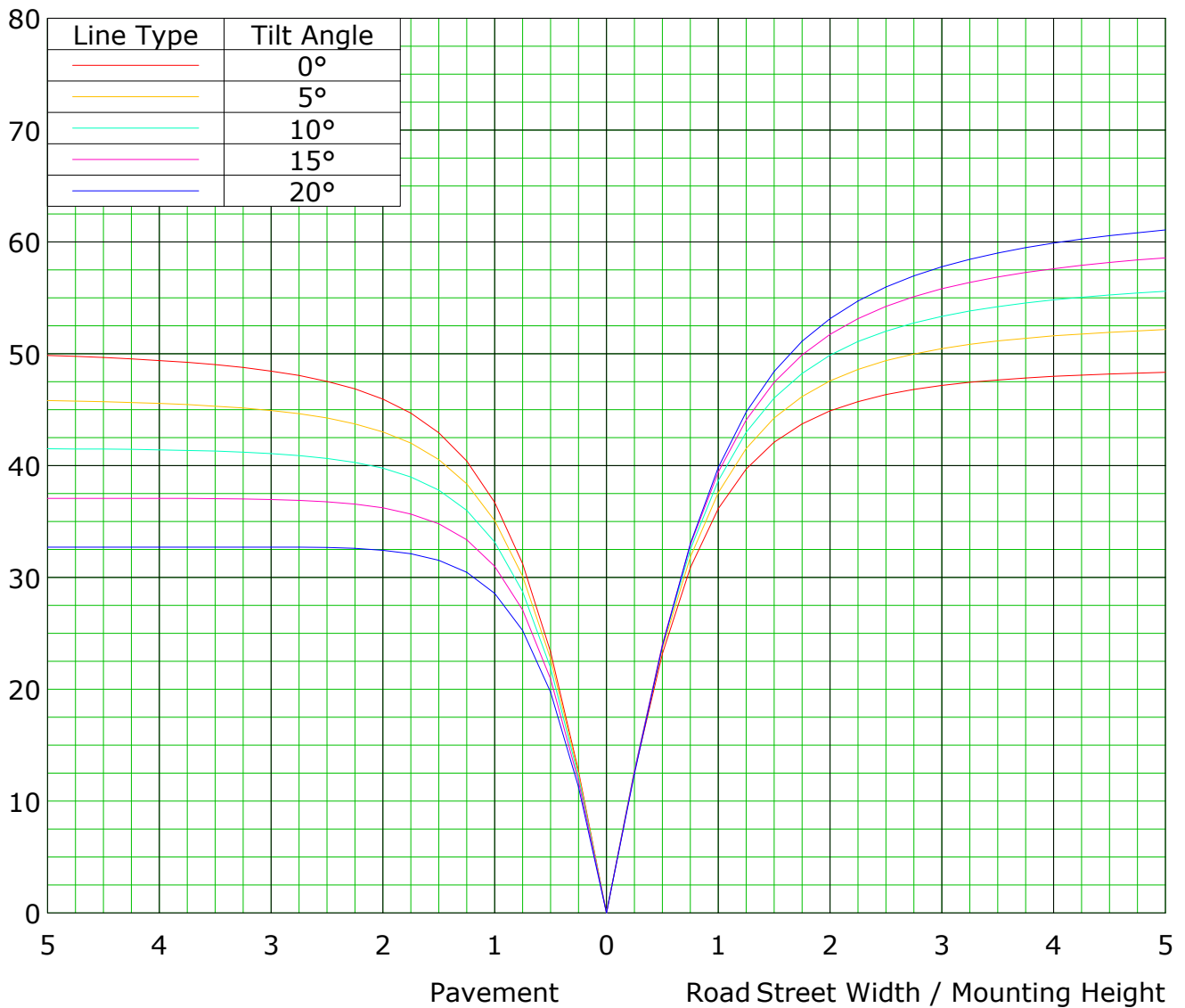
( 1%): 0.1 lx	( 2%): 0.1 lx
( 5%): 0.3 lx	( 10%): 0.6 lx
( 20%): 1.2 lx	( 50%): 3.0 lx
(100%): 6.1 lx	

C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## Roadway CU Curve

Efficiency(%)



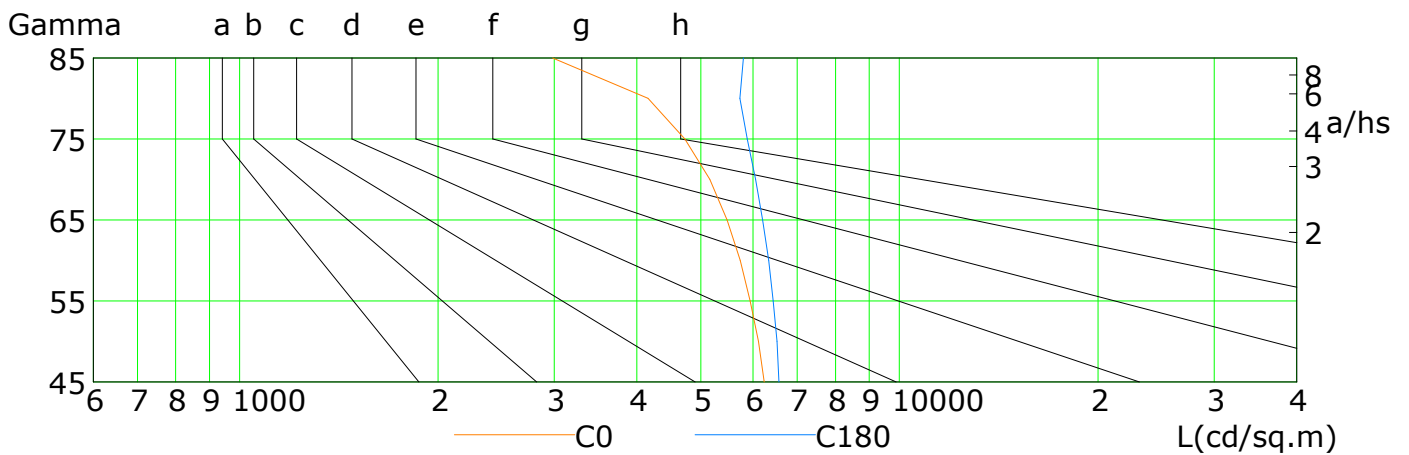
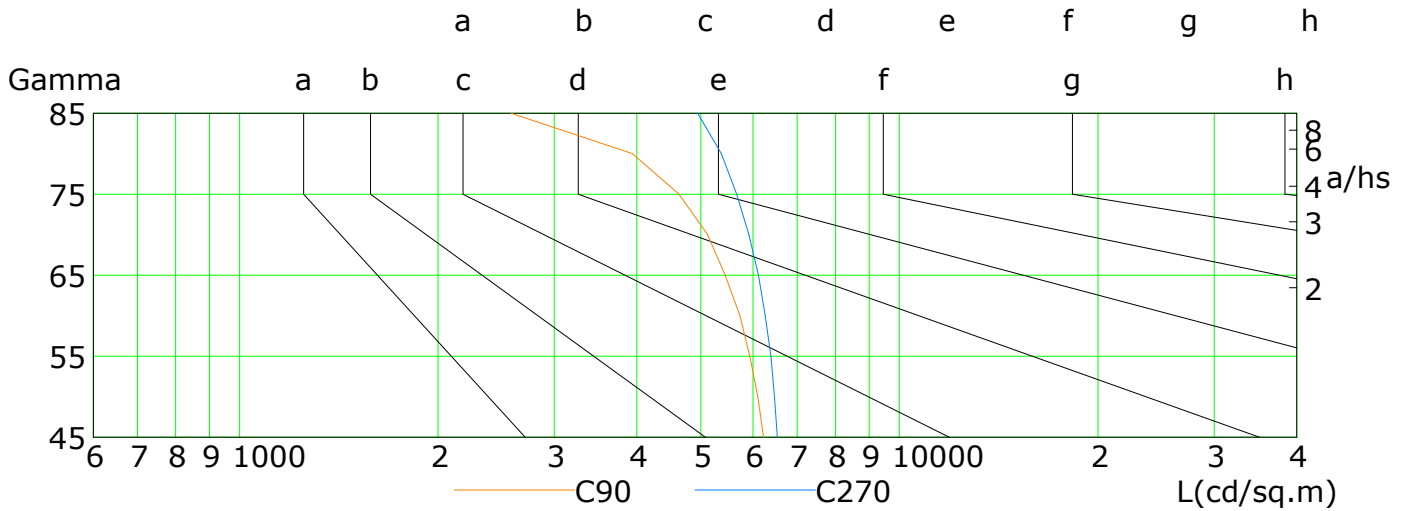
C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6236	6115	5938	5735	5480	5160	4729	4159	2981
C90	6224	6100	5934	5728	5446	5121	4634	3938	2578
C180	6567	6528	6440	6334	6204	6051	5882	5731	5804
C270	6533	6467	6390	6263	6114	5916	5670	5375	4945

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:5.0

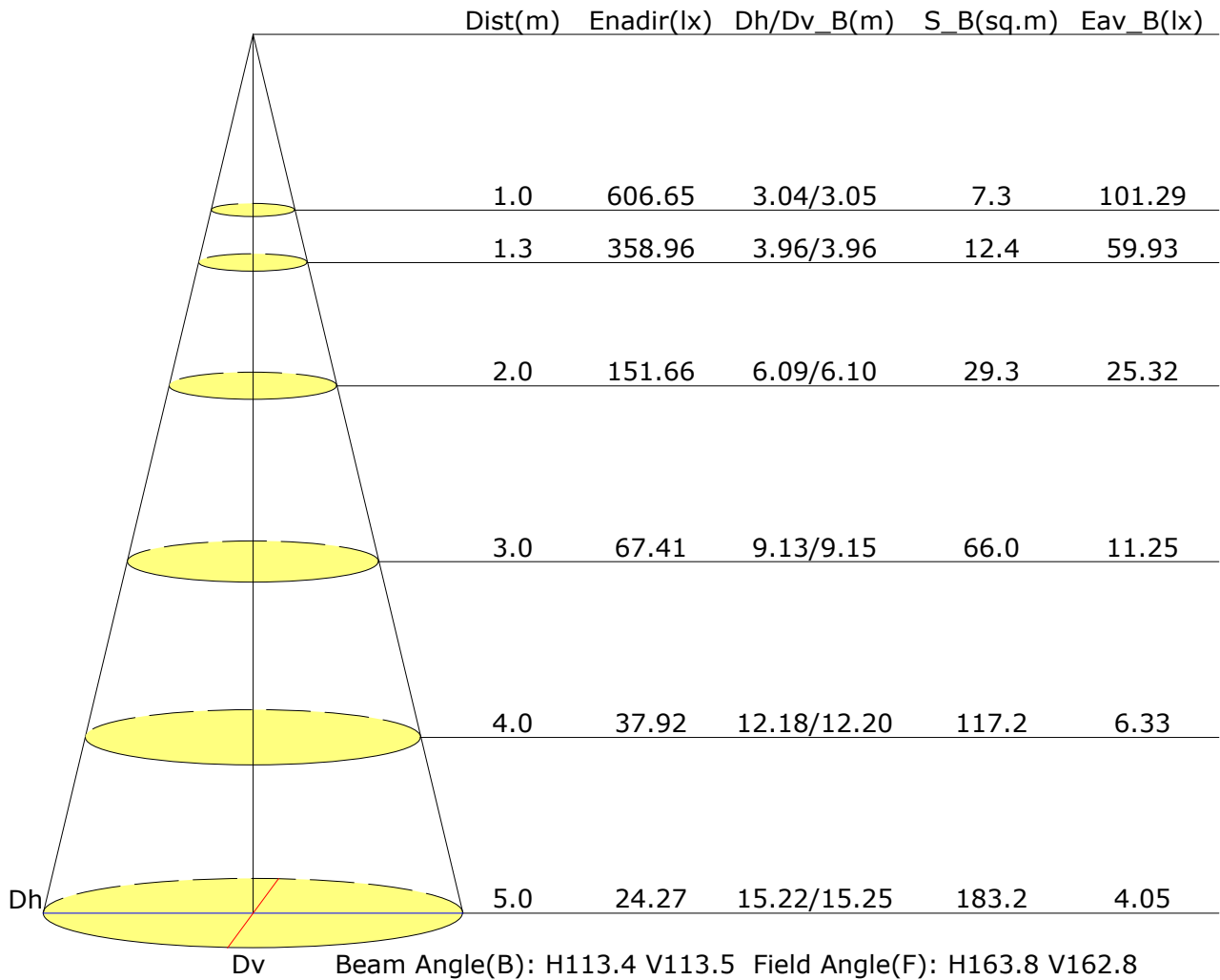
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

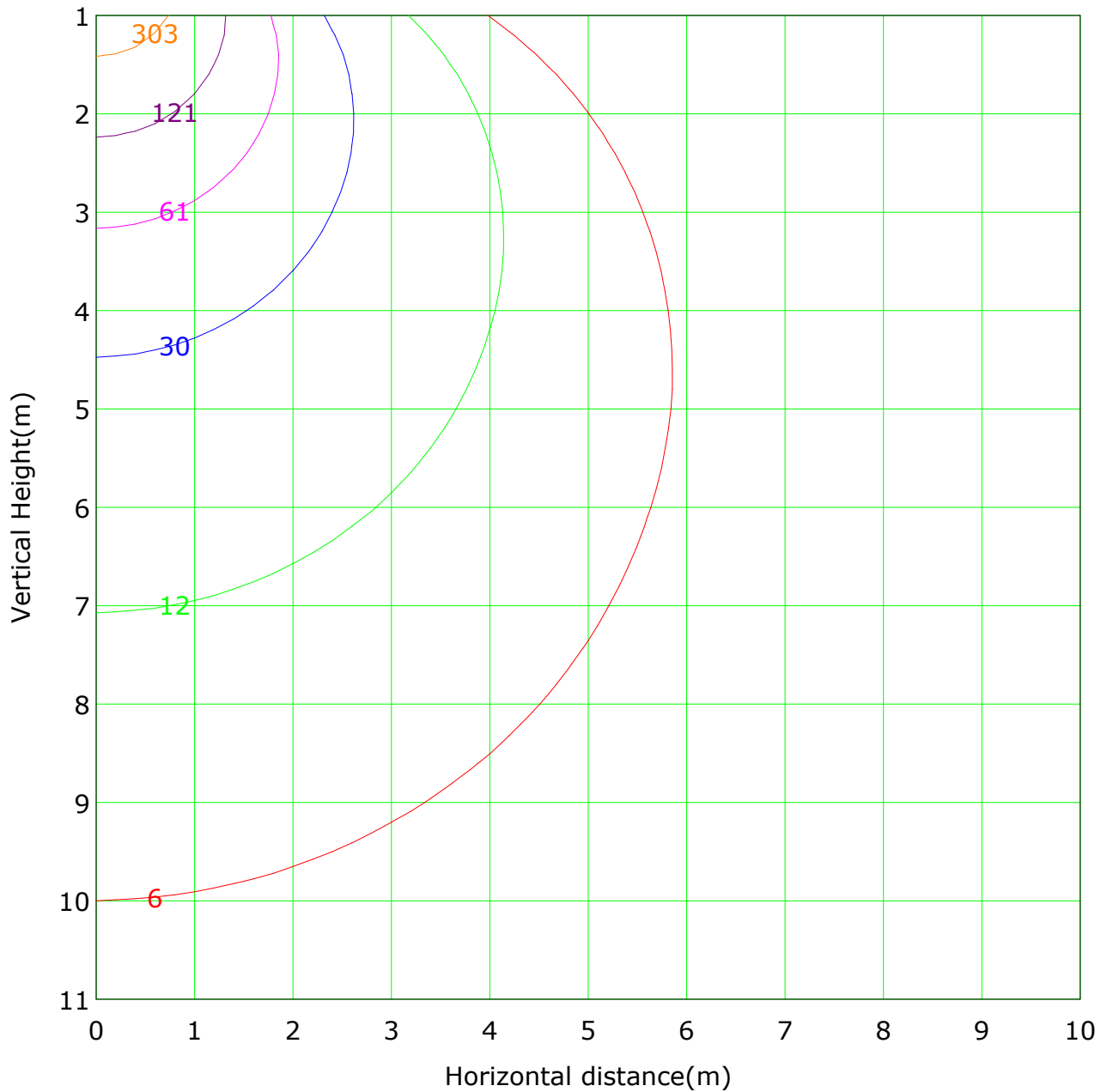
## Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 606.7 lx

( 1%): 6.1 lx    ( 2%): 12.1 lx  
 ( 5%): 30.3 lx    ( 10%): 60.7 lx  
 ( 20%): 121.3 lx    ( 50%): 303.3 lx  
 (100%): 606.7 lx

C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## Area Flux Table

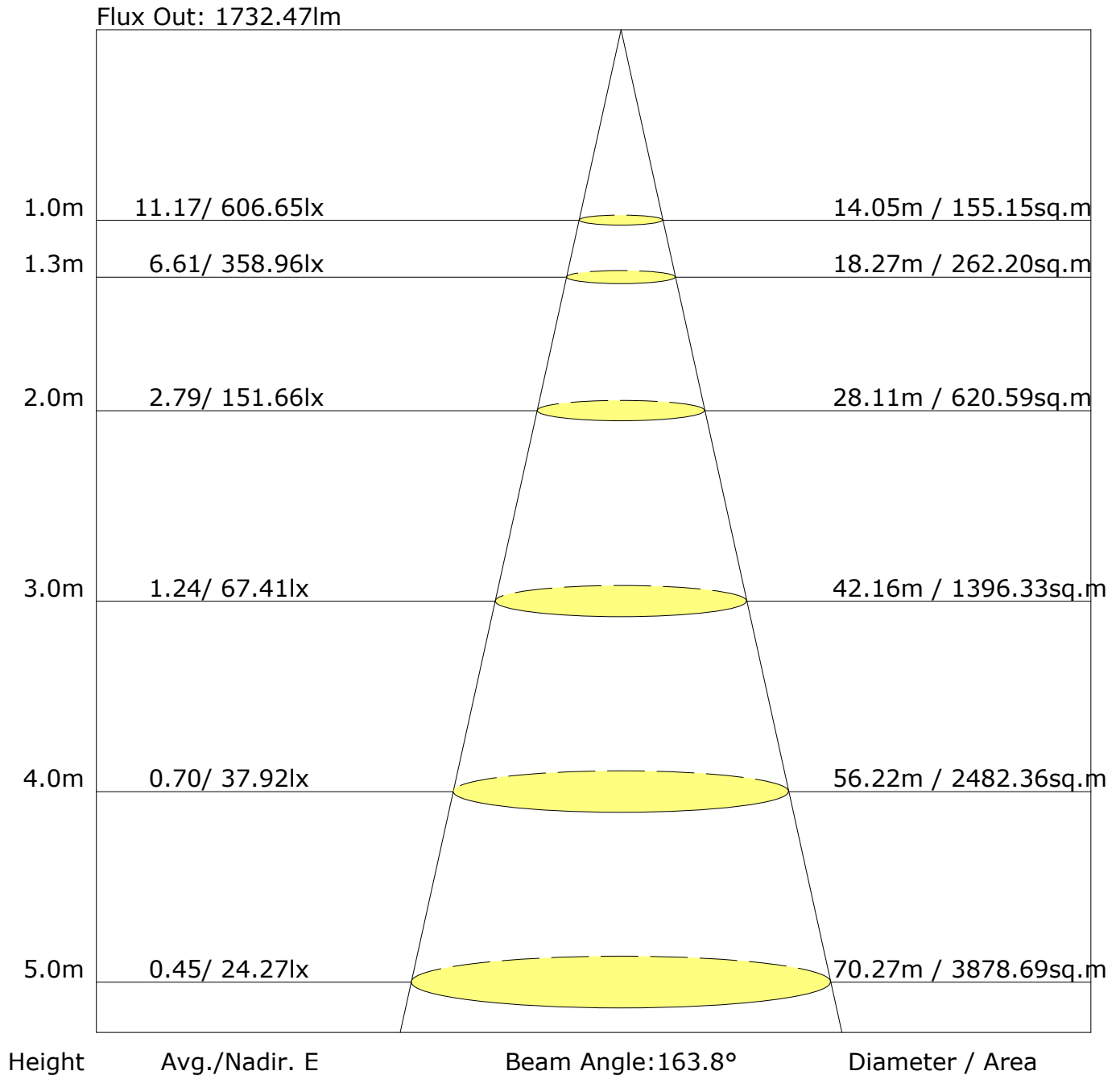
Unit: lm/klm

Vertical plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	6.3	1.6	
	0.0	0.2	0.4	0.7	1.1	1.5	1.9	2.1	2.3	2.3	2.1	1.8	1.4	1.0	0.6	0.3	0.1	0.0	19.7	18.4	
	0.0	0.3	0.7	1.3	1.9	2.6	3.3	3.7	4.0	4.0	3.7	3.1	2.5	1.8	1.1	0.5	0.2	0.0	34.6	34.2	
	0.1	0.4	0.9	1.8	2.7	3.7	4.6	5.3	5.6	5.6	5.2	4.5	3.6	2.6	1.6	0.8	0.3	0.0	49.2	49.0	
	0.1	0.4	1.2	2.2	3.5	4.7	5.9	6.7	7.1	7.1	6.6	5.7	4.6	3.3	2.0	1.0	0.3	0.0	62.4	62.3	
	0.1	0.5	1.4	2.6	4.1	5.6	6.9	7.9	8.4	8.3	7.8	6.7	5.4	3.9	2.4	1.2	0.4	0.0	73.6	73.5	
	0.1	0.6	1.6	3.0	4.6	6.2	7.7	8.8	9.3	9.3	8.7	7.6	6.0	4.4	2.7	1.4	0.5	0.1	82.4	82.3	
	0.1	0.6	1.7	3.2	4.9	6.7	8.2	9.4	10.0	10.0	9.3	8.1	6.5	4.7	3.0	1.5	0.5	0.1	88.4	88.3	
	0.1	0.6	1.7	3.3	5.1	6.9	8.5	9.7	10.3	10.3	9.6	8.4	6.7	4.8	3.0	1.5	0.5	0.1	91.4	91.3	
	0.1	0.6	1.7	3.3	5.1	6.9	8.5	9.7	10.3	10.3	9.6	8.4	6.7	4.8	3.0	1.5	0.5	0.1	91.2	91.1	
	0.1	0.6	1.7	3.2	4.9	6.6	8.2	9.3	9.9	9.9	9.2	8.0	6.4	4.7	2.9	1.5	0.5	0.1	87.6	87.5	
	0.1	0.6	1.5	2.9	4.5	6.1	7.6	8.6	9.2	9.1	8.5	7.4	6.0	4.3	2.7	1.4	0.5	0.1	81.1	81.0	
	0.1	0.5	1.4	2.6	4.0	5.4	6.7	7.6	8.1	8.1	7.6	6.6	5.3	3.8	2.4	1.2	0.4	0.0	71.8	71.6	
	0.1	0.4	1.1	2.2	3.4	4.6	5.6	6.4	6.8	6.8	6.3	5.5	4.4	3.2	2.0	1.0	0.3	0.0	60.1	59.9	
	0.1	0.3	0.9	1.7	2.6	3.5	4.4	5.0	5.3	5.2	4.9	4.2	3.4	2.4	1.5	0.7	0.2	0.0	46.4	46.2	
	0.0	0.2	0.6	1.2	1.8	2.4	3.0	3.4	3.6	3.6	3.3	2.9	2.3	1.6	1.0	0.5	0.2	0.0	31.6	31.1	
	0.0	0.2	0.4	0.7	1.0	1.3	1.6	1.8	1.9	1.9	1.7	1.5	1.2	0.8	0.5	0.2	0.1	0.0	16.9	15.0	
	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	4.5	0.0	
Flux(T)	1.1	7.2	19.2	36.2	55.9	75.9	93.6	106.7	113.3	112.8	105.2	91.3	72.9	52.5	32.8	16.5	5.5	0.6	999		
Flux(E)	0.4	6.3	18.4	35.4	55.1	75.1	92.8	105.8	112.5	111.9	104.4	90.4	72.0	51.6	32.0	15.6	4.5	0.0		984	
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane																					

Gamma Plane (°):0.0-90.0:5.0  
Test Device: GPM-1600L  
Distance: 7.172 m [K=1.0000]  
Humidity:  
Inspector:

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## UGR Table

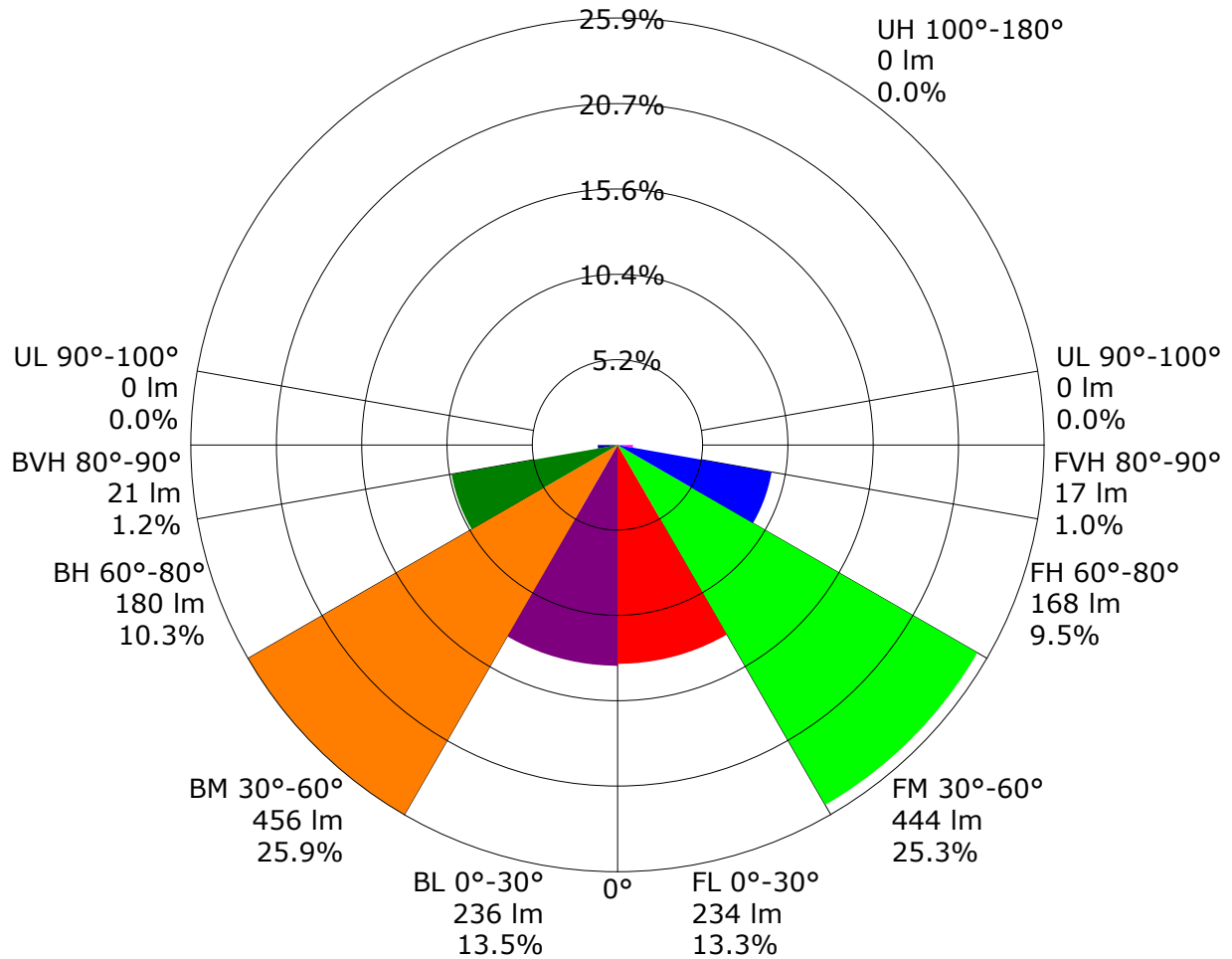
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	18.7	20.1	19.0	20.4	20.6	18.9	20.3	19.2	20.5	20.8
3H	20.2	21.5	20.6	21.8	22.1	20.5	21.8	20.8	22.0	22.3
4H	20.8	22.1	21.2	22.3	22.6	21.1	22.3	21.5	22.6	22.9
6H	21.3	22.4	21.6	22.7	23.0	21.6	22.7	22.0	23.0	23.4
8H	21.4	22.5	21.8	22.8	23.2	21.8	22.9	22.1	23.2	23.5
12H	21.5	22.5	21.9	22.8	23.2	21.9	22.9	22.3	23.2	23.6
X=4H Y=2H	19.4	20.6	19.8	20.9	21.2	19.5	20.7	19.9	21.0	21.3
3H	21.1	22.2	21.5	22.5	22.9	21.3	22.4	21.7	22.7	23.0
4H	21.9	22.8	22.3	23.2	23.5	22.1	23.0	22.5	23.4	23.8
6H	22.4	23.2	22.8	23.6	24.0	22.7	23.5	23.1	23.9	24.3
8H	22.6	23.4	23.0	23.8	24.2	22.9	23.7	23.4	24.1	24.5
12H	22.7	23.4	23.2	23.8	24.3	23.1	23.8	23.5	24.2	24.6
X=8H Y=4H	22.2	22.9	22.6	23.3	23.8	22.4	23.2	22.8	23.6	24.0
6H	22.9	23.5	23.3	23.9	24.4	23.2	23.8	23.6	24.2	24.7
8H	23.1	23.7	23.6	24.1	24.6	23.5	24.0	23.9	24.5	24.9
12H	23.3	23.8	23.8	24.2	24.7	23.7	24.1	24.2	24.6	25.1
X=12H Y=4H	22.2	22.9	22.7	23.3	23.8	22.4	23.1	22.9	23.5	24.0
6H	23.0	23.5	23.4	24.0	24.4	23.2	23.8	23.7	24.2	24.7
8H	23.2	23.7	23.7	24.2	24.7	23.5	24.0	24.0	24.5	25.0
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.4/-0.5					+0.3/-0.4				
S=2.0H	+0.5/-0.9					+0.5/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 1758lm ( $8\log(F/F_0) = 2.0$ ).

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:5.0  
Test Device: GPM-1600L  
Distance: 7.172 m [K=1.0000]  
Humidity:  
Inspector:

## LCS Graph



**Back Light**

**Forward Light**

Scale= MAX LCS%

Trapped Light:NA,NA

C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
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 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
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 Humidity:  
 Inspector:

## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.56	0.66	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99	
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.96	
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.63	0.69	0.76	0.81	0.84	0.89	0.92	
	0.20		0.42	0.51	0.59	0.64	0.72	0.77	0.81	0.87	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.69	0.74	0.77	0.82	0.85	
Rating:16W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												



## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.01	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.43	0.36	0.32	0.25	0.20	
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.20	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
Rating:16W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: GPM-1600L  
 Distance: 7.172 m [K=1.0000]  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.04	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.04	0.06	0.07	0.09	0.11	0.12	0.13	0.15	0.16	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:16W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Zonal Lumen

[illegible]

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:5.0  
Test Device: GPM-1600L  
Distance: 7.172 m [K=1.0000]  
Humidity:  
Inspector:

## Zonal Lumen (Continue 1)

cone flux(90°): 930.12 lm

%lum = 52.9%  
%lamp = 52.9%

cone flux(120°): 1370.80 lm

%lum = 78.0%  
%lamp = 78.0%

## Unit: cd/klm

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:5.0  
Test Device: GPM-1600L  
Distance: 7.172 m [K=1.0000]  
Humidity:  
Inspector:

## LED Average Luminance Report

Avg.L	cd/m <sup>2</sup>
L 0-180(65) av	5841.89
L 0-180(75) av	5305.51
L 0-180(85) av	4392.52
L 90-270(65) av	5780.10
L 90-270(75) av	5152.25
L 90-270(85) av	3761.47
L 45(65) av	5811.00
L 45(75) av	5228.88
L 45(85) av	4076.99

Standard: GB/T 29293-2012