

Report No.:

Test Time: 2021/8/4 16:54

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Lamp Catalog: 5050RGBW 4IN1

Number of Lamps: 120

Luminous Width (mm): 12

Voltage: 24.0 V

Power: 6.83 W

Luminaire Description: 120LED 244.4RGBW

Lamp Description: R+G+B+W

Luminous Length (mm): 500

Luminous Height (mm): 3

Current: 0.285 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 321.6 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H161.4,H115.3

Vertical Diffuse Angle(10%,50%): V160.7,V117.1

Luminaire Efficacy Rating (LER): 47

Max. Intensity: 107.63 cd

Total Rated Lamp Lumens: 321.6 lm

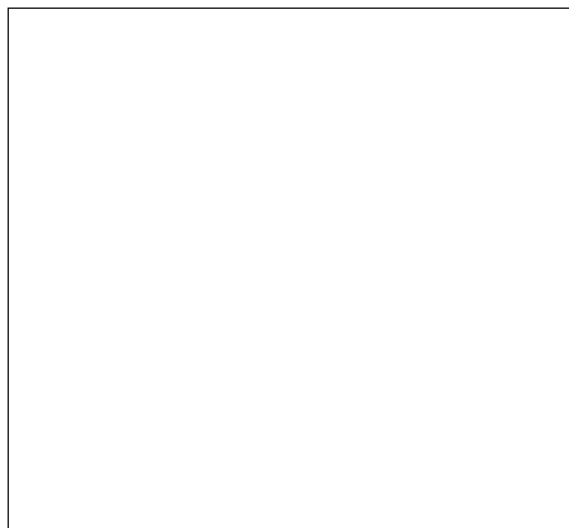
Efficiency: 100%

Upward Ratio: 1%

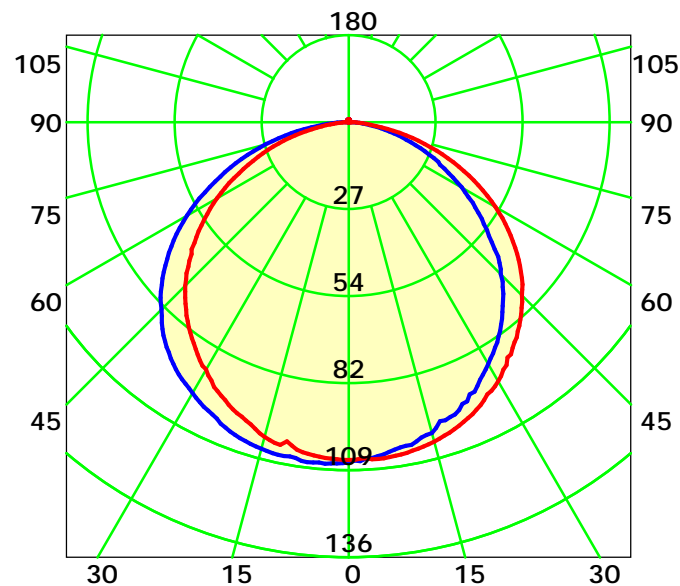
Central Intensity: 106.88 cd

Pos of Max. Intensity: H180 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 116.2° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

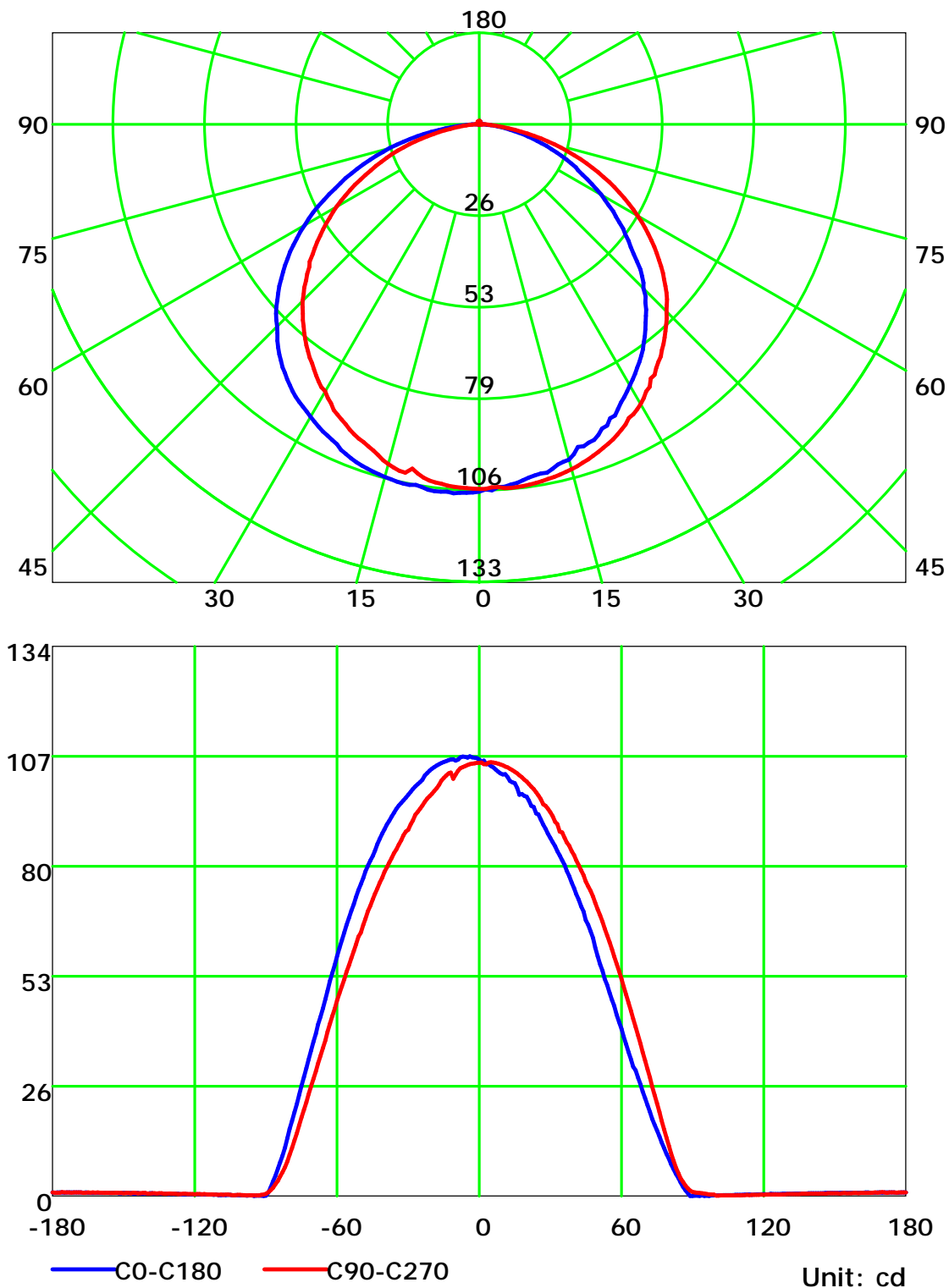
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

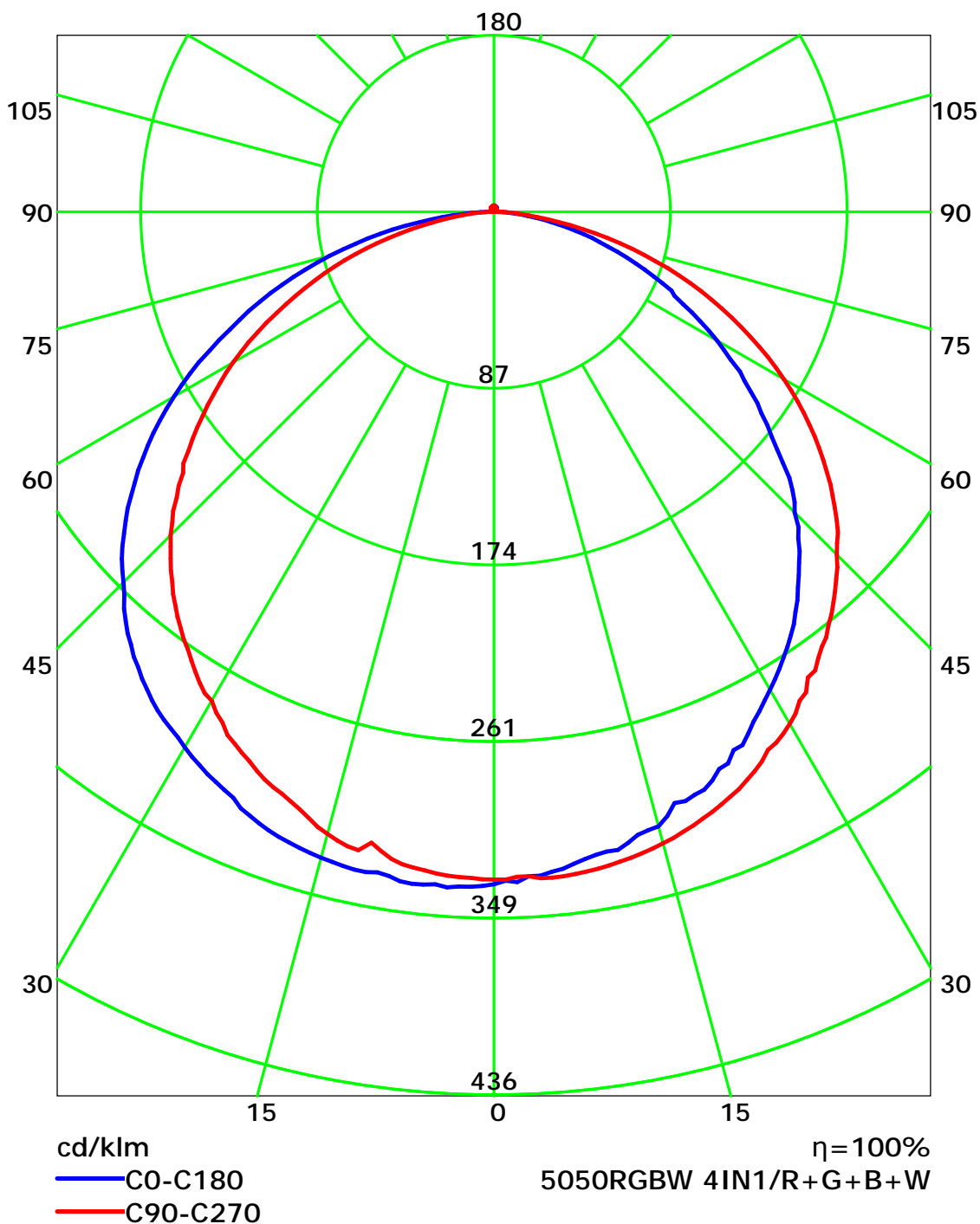
## Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

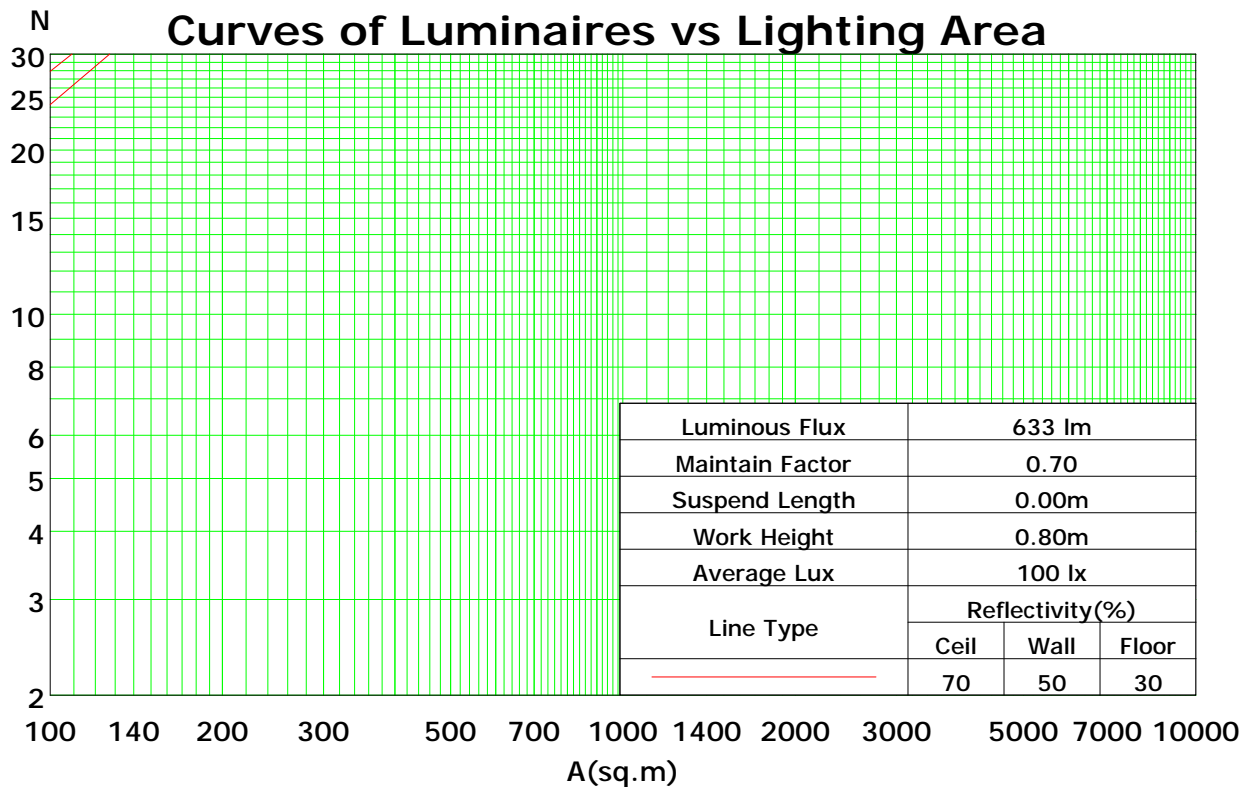
## Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	76	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	68	64	60	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

Spacing Criteria (0-180): 1.30

Spacing Criteria (90-270): 1.29

Spacing Criteria (Diagonal): 1.41



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

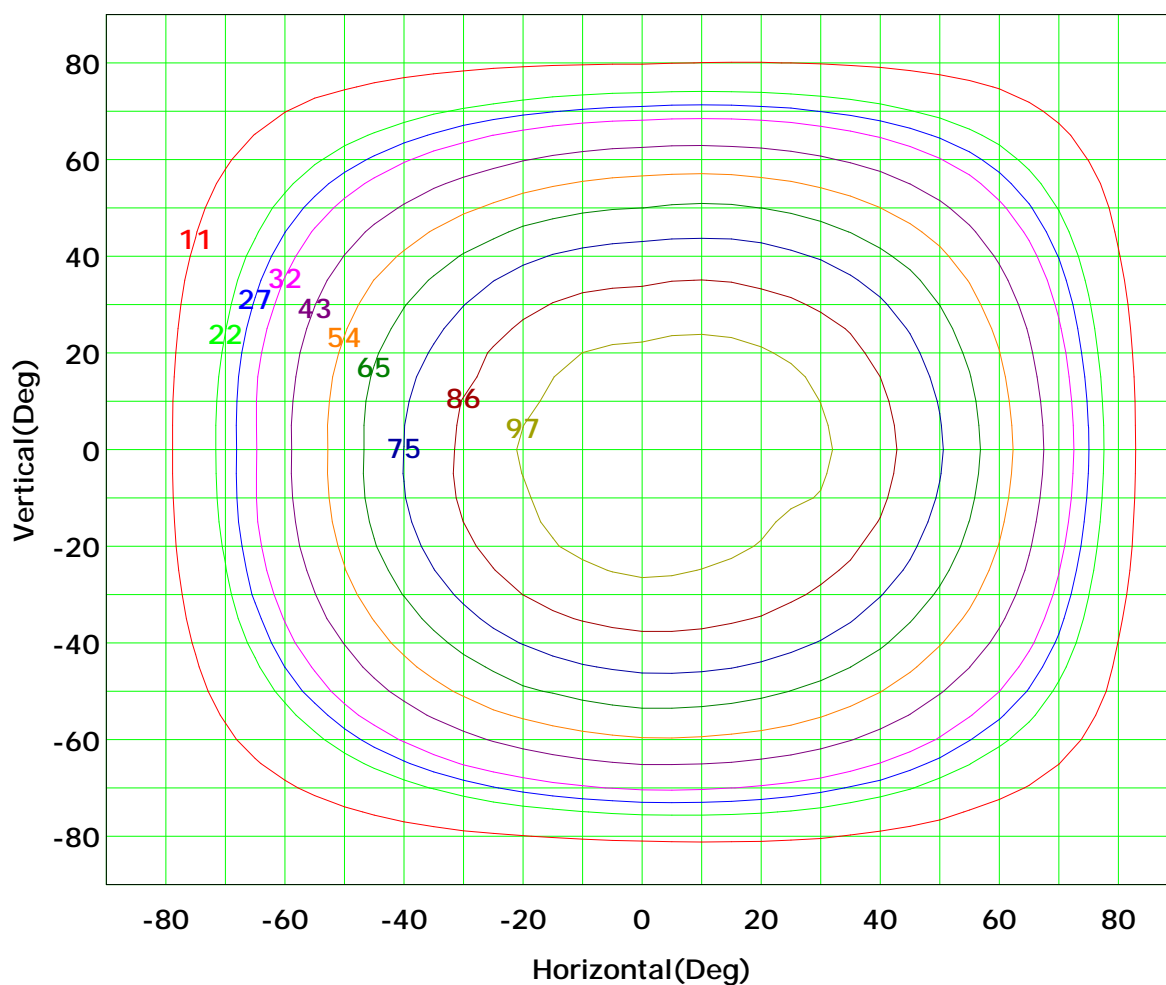
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



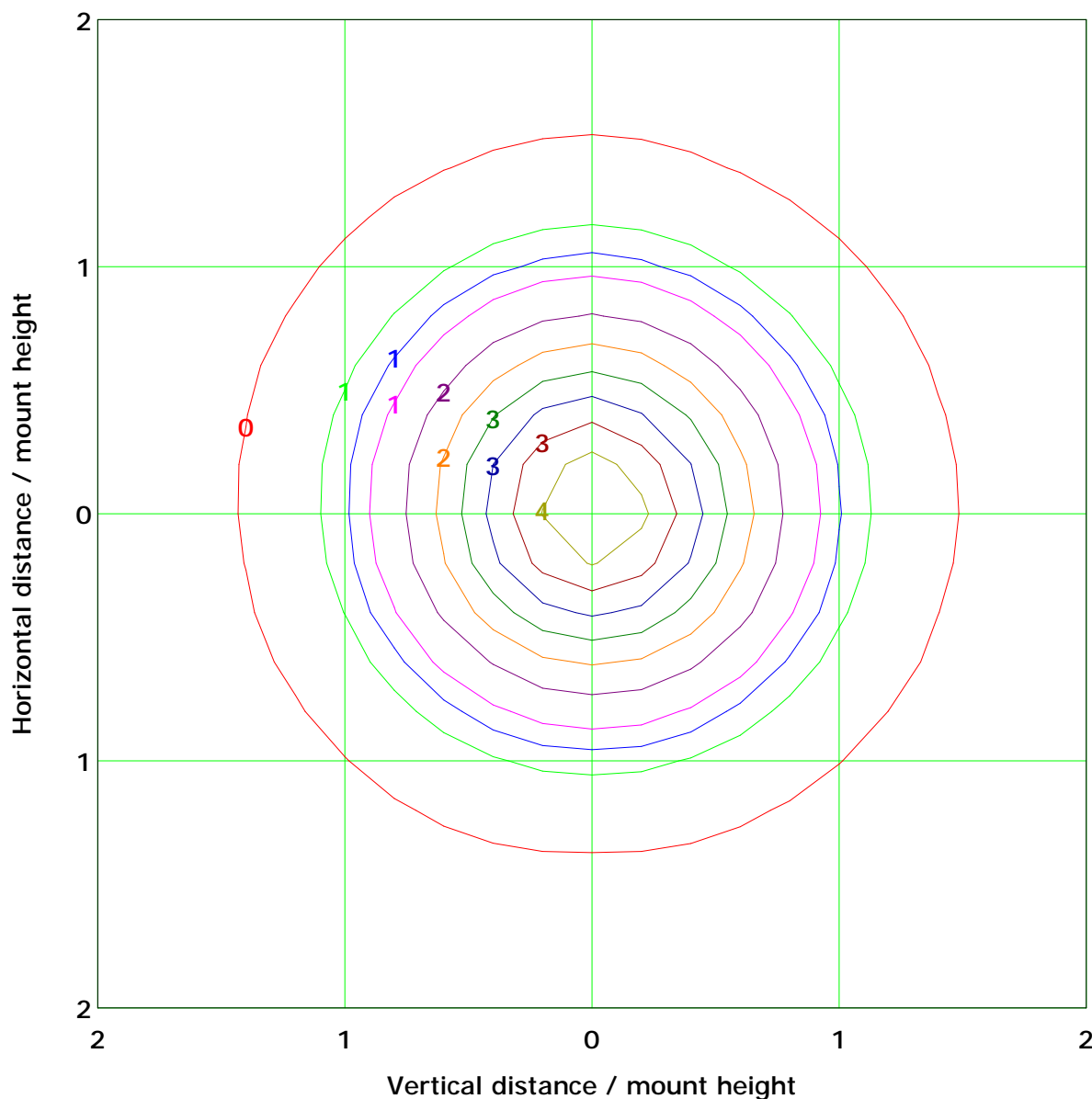
I<sub>max</sub> (100%): 108 cd

( 10%):	11 cd	( 20%):	22 cd
( 25%):	27 cd	( 30%):	32 cd
( 40%):	43 cd	( 50%):	54 cd
( 60%):	65 cd	( 70%):	75 cd
( 80%):	86 cd	( 90%):	97 cd

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 4.3 lx

( 10%): 0.4 lx	( 20%): 0.9 lx
( 25%): 1.1 lx	( 30%): 1.3 lx
( 40%): 1.7 lx	( 50%): 2.1 lx
( 60%): 2.6 lx	( 70%): 3.0 lx
( 80%): 3.4 lx	( 90%): 3.9 lx

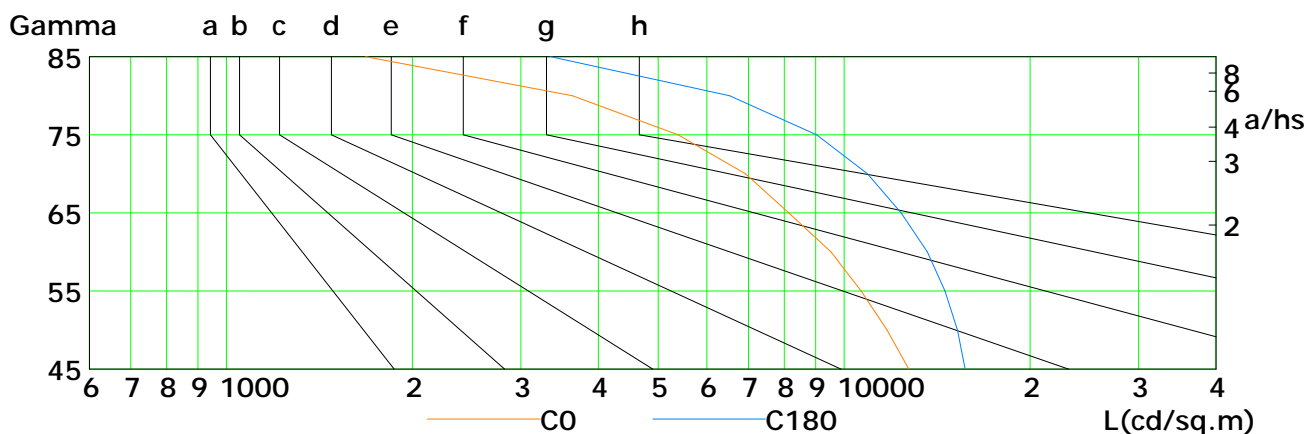
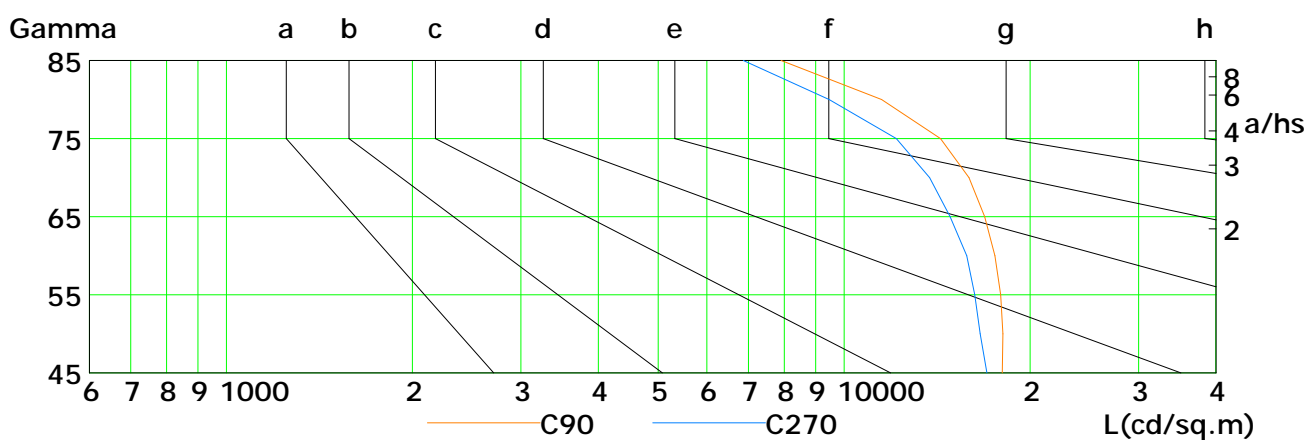
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
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

a b c d e f g h

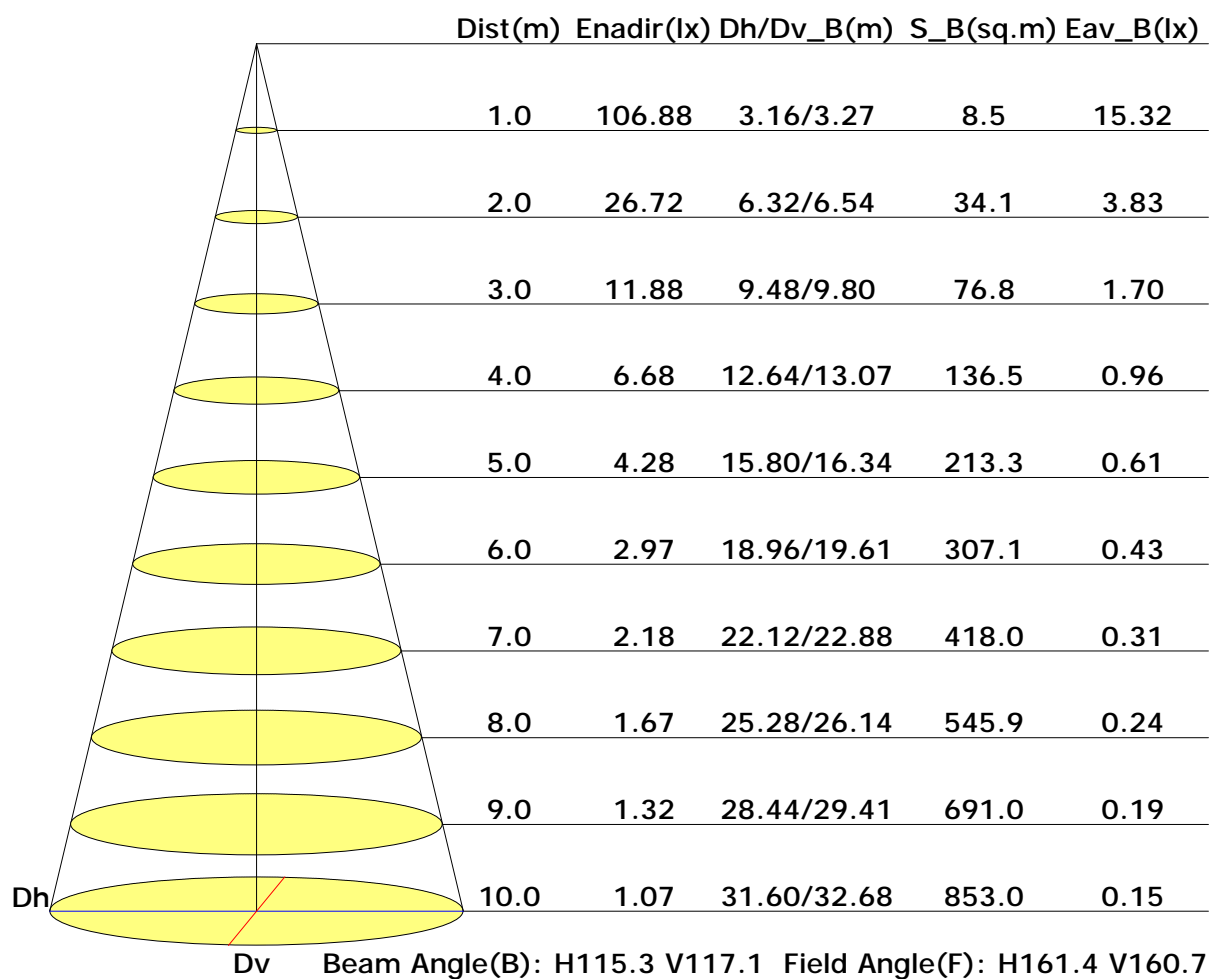


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	12737	11734	10657	9532	8136	6930	5383	3632	1681
C90	18048	18080	17923	17544	16902	15926	14323	11501	7910
C180	15700	15262	14573	13650	12379	10920	9028	6530	3351
C270	17031	16610	16281	15796	14850	13764	12150	9458	6872

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

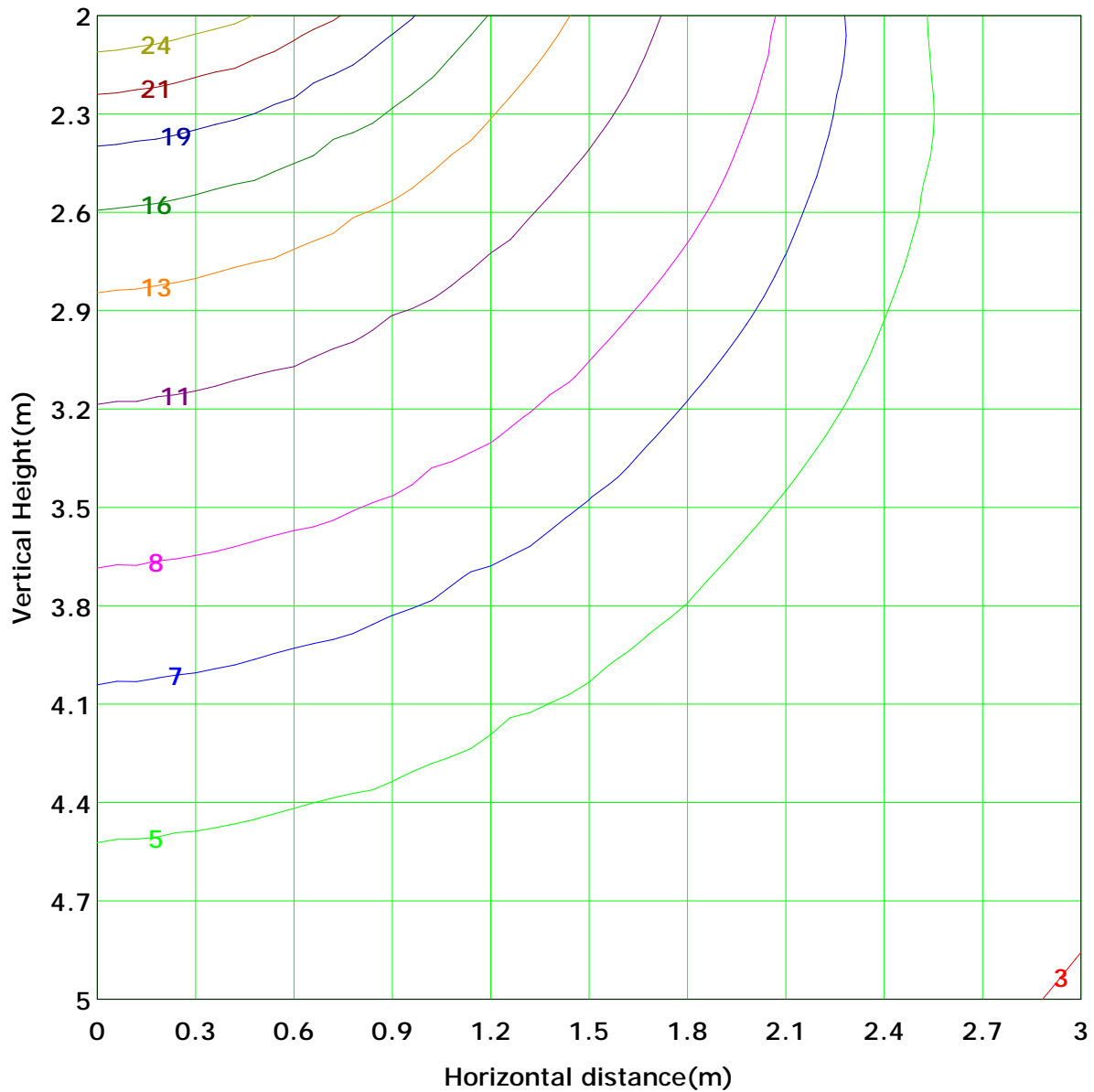
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 26.7 lx
( 10%): 2.7 lx	( 20%): 5.3 lx	
( 25%): 6.7 lx	( 30%): 8.0 lx	
( 40%): 10.7 lx	( 50%): 13.4 lx	
( 60%): 16.0 lx	( 70%): 18.7 lx	
( 80%): 21.4 lx	( 90%): 24.0 lx	

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Area Flux Table

Unit: lm

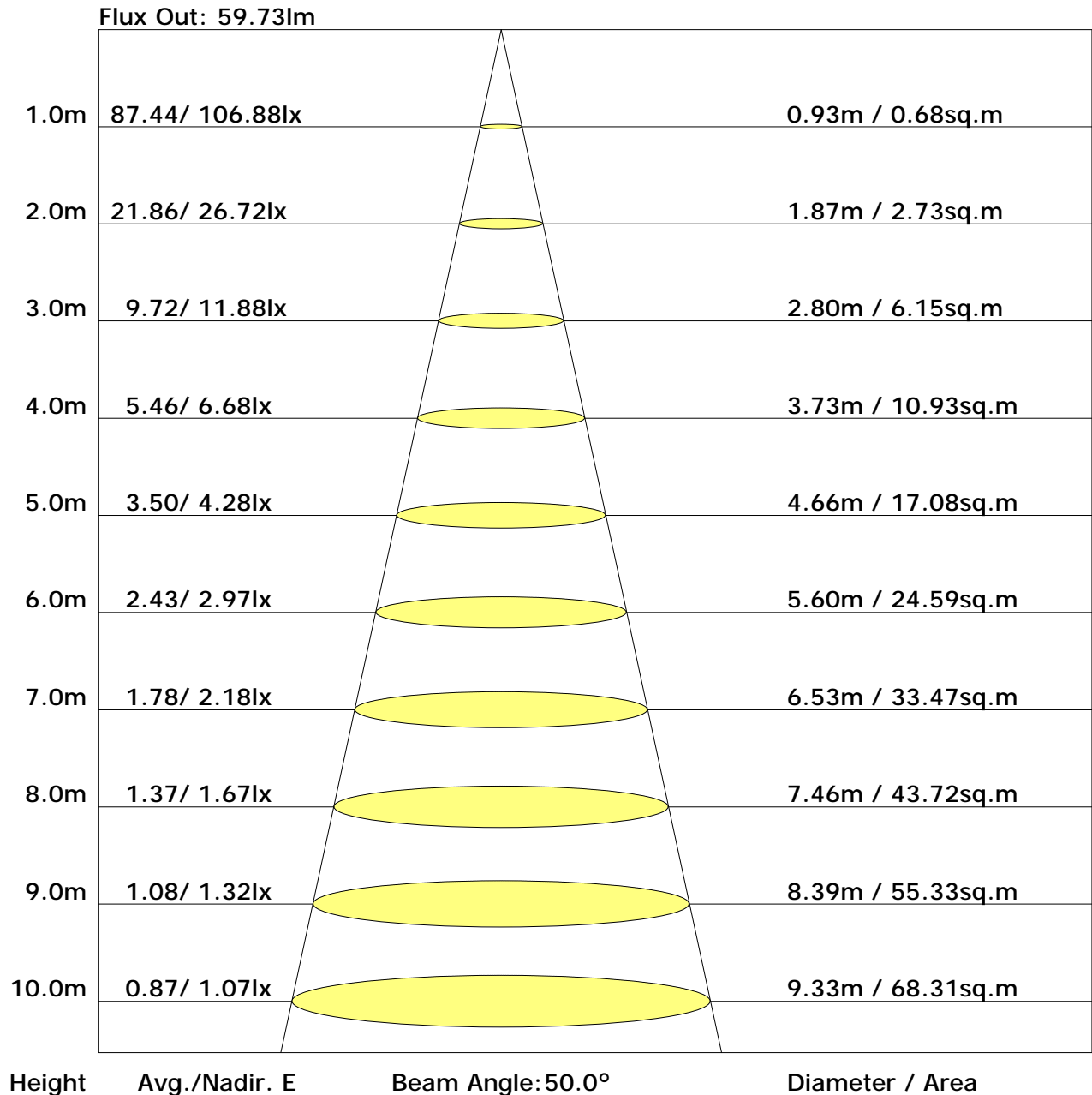
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3	0.1
	-80	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	2.3	2.0
	-70	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	6.5	6.3
	-60	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	12.5	12.3
	-50	0.0	0.1	0.4	0.8	1.2	1.6	1.9	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	19.3	19.1
	-40	0.0	0.1	0.5	0.9	1.4	1.9	2.3	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	25.8	25.5
	-30	0.0	0.2	0.6	1.1	1.6	2.1	2.5	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0	31.0	30.7
	-20	0.0	0.2	0.6	1.1	1.6	2.1	2.5	2.8	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	34.5	34.2
	-10	0.0	0.2	0.6	1.1	1.7	2.3	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	36.0	35.7
	0	0.0	0.2	0.6	1.2	1.8	2.3	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	35.5	35.2
	10	0.0	0.2	0.6	1.2	1.8	2.3	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	32.8	32.5
	20	0.0	0.2	0.6	1.1	1.7	2.2	2.7	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	28.2	28.0
	30	0.0	0.2	0.5	1.0	1.6	2.1	2.5	2.8	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0	22.3	22.0
	40	0.0	0.2	0.5	0.9	1.4	1.9	2.3	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	15.7	15.4
	50	0.0	0.1	0.4	0.8	1.2	1.6	2.0	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	9.4	9.1
	60	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.8	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	4.5	4.2
	70	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.4	1.0
	80	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.1	0.0
	90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	318	313
	Flux(E)	0.1	2.0	6.3	12.3	19.1	25.5	30.7	34.2	35.7	35.2	32.5	28.0	22.0	15.4	9.1	4.2	1.0	0.0	0.0		313

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:



## The Average Illuminance Effective Figure



## 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	24.6	26.2	25.0	26.6	26.9	25.2	26.8	25.6	27.2	27.5
3H	26.2	27.7	26.6	28.0	28.4	26.8	28.3	27.2	28.6	29.0
4H	26.7	28.1	27.1	28.5	28.9	27.3	28.7	27.7	29.1	29.5
6H	27.1	28.4	27.5	28.8	29.2	27.6	28.9	28.0	29.3	29.7
8H	27.2	28.4	27.6	28.8	29.3	27.7	28.9	28.1	29.3	29.7
12H	27.3	28.4	27.7	28.8	29.3	27.7	28.8	28.1	29.2	29.7
X=4H Y=2H	25.1	26.5	25.6	26.9	27.3	25.8	27.2	26.2	27.5	27.9
3H	26.9	28.1	27.3	28.5	28.9	27.6	28.8	28.0	29.2	29.6
4H	27.6	28.6	28.0	29.0	29.5	28.2	29.3	28.7	29.7	30.2
6H	28.0	29.0	28.5	29.4	29.9	28.6	29.5	29.1	30.0	30.5
8H	28.2	29.0	28.6	29.5	30.0	28.7	29.5	29.2	30.0	30.5
12H	28.3	29.0	28.7	29.5	30.0	28.7	29.5	29.2	30.0	30.5
X=8H Y=4H	27.8	28.6	28.2	29.1	29.6	28.5	29.3	28.9	29.8	30.3
6H	28.3	29.0	28.8	29.5	30.0	28.9	29.6	29.4	30.1	30.6
8H	28.5	29.2	29.0	29.7	30.2	29.0	29.7	29.6	30.2	30.7
12H	28.6	29.2	29.2	29.7	30.3	29.1	29.7	29.6	30.2	30.8
X=12H Y=4H	27.8	28.6	28.3	29.0	29.5	28.5	29.3	29.0	29.7	30.2
6H	28.4	29.0	28.9	29.5	30.0	29.0	29.6	29.5	30.1	30.6
8H	28.6	29.1	29.1	29.6	30.2	29.1	29.7	29.6	30.2	30.8

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50								
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	0.59	0.68	0.75	0.80	0.88	0.92	0.96	1.00	1.03
	0.30		0.51	0.60	0.68	0.74	0.82	0.87	0.91	0.96	1.00
	0.20		0.46	0.54	0.62	0.68	0.76	0.82	0.87	0.93	0.97
0.50	0.50	0.20	0.57	0.65	0.73	0.78	0.84	0.89	0.92	0.96	0.99
	0.30		0.51	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96
	0.20		0.46	0.54	0.61	0.67	0.75	0.80	0.84	0.90	0.94
0.30	0.50	0.20	0.56	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.50	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.45	0.53	0.60	0.66	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.43	0.50	0.58	0.63	0.70	0.74	0.78	0.83	0.86
Rating: 7W 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 = 1.50									
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	0.96	0.81	0.68	0.60	0.48	0.39	0.34	0.26	0.21	
	0.30		0.80	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.68	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.92	0.78	0.66	0.57	0.45	0.41	0.32	0.25	0.20	
	0.30		0.78	0.68	0.58	0.51	0.41	0.35	0.30	0.24	0.19	
	0.20		0.68	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.19	
0.30	0.50	0.20	0.89	0.75	0.63	0.55	0.43	0.36	0.31	0.24	0.19	
	0.30		0.76	0.66	0.56	0.49	0.40	0.34	0.29	0.23	0.18	
	0.20		0.67	0.59	0.51	0.45	0.37	0.31	0.27	0.22	0.18	
0.00	0.00	0.00	0.56	0.49	0.42	0.36	0.29	0.25	0.21	0.17	0.14	
Rating: 7W 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(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating: 7W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	105.9	0.1	0.1	0.03	0.03
1.0-2.0	105.8	0.3	0.4	0.09	0.13
2.0-3.0	105.8	0.5	0.9	0.16	0.28
3.0-4.0	105.8	0.7	1.6	0.22	0.50
4.0-5.0	105.7	0.9	2.5	0.28	0.79
5.0-6.0	105.5	1.1	3.6	0.35	1.13
6.0-7.0	105.4	1.3	4.9	0.41	1.54
7.0-8.0	105.1	1.5	6.5	0.47	2.01
8.0-9.0	104.8	1.7	8.2	0.53	2.53
9.0-10.0	104.5	1.9	10.0	0.59	3.12
10.0-11.0	104.2	2.1	12.1	0.65	3.77
11.0-12.0	104.0	2.3	14.4	0.71	4.48
12.0-13.0	103.7	2.5	16.9	0.77	5.24
13.0-14.0	103.4	2.6	19.5	0.82	6.07
14.0-15.0	103.0	2.8	22.3	0.88	6.95
15.0-16.0	102.5	3.0	25.3	0.93	7.88
16.0-17.0	102.1	3.2	28.5	0.99	8.87
17.0-18.0	101.6	3.4	31.9	1.04	9.91
18.0-19.0	101.0	3.5	35.4	1.09	11.00
19.0-20.0	100.5	3.7	39.1	1.14	12.15
20.0-21.0	99.9	3.8	42.9	1.19	13.34
21.0-22.0	99.2	4.0	46.9	1.24	14.58
22.0-23.0	98.6	4.1	51.0	1.29	15.87
23.0-24.0	98.0	4.3	55.3	1.33	17.20
24.0-25.0	97.2	4.4	59.7	1.38	18.58
25.0-26.0	96.4	4.6	64.3	1.42	19.99
26.0-27.0	95.6	4.7	69.0	1.45	21.45
27.0-28.0	94.8	4.8	73.8	1.49	22.94
28.0-29.0	94.0	4.9	78.7	1.53	24.47
29.0-30.0	93.1	5.0	83.7	1.56	26.03
30.0-31.0	92.4	5.1	88.8	1.60	27.63
31.0-32.0	91.5	5.2	94.1	1.63	29.26
32.0-33.0	90.5	5.3	99.4	1.66	30.92
33.0-34.0	89.4	5.4	104.8	1.68	32.60
34.0-35.0	88.3	5.5	110.3	1.71	34.31
35.0-36.0	87.3	5.6	115.9	1.73	36.04

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:



## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	86.2	5.6	121.5	1.75	37.78
37.0-38.0	85.1	5.7	127.2	1.77	39.55
38.0-39.0	83.9	5.7	132.9	1.78	41.33
39.0-40.0	82.7	5.8	138.7	1.80	43.13
40.0-41.0	81.5	5.8	144.5	1.81	44.93
41.0-42.0	80.3	5.8	150.3	1.81	46.75
42.0-43.0	78.9	5.8	156.2	1.82	48.57
43.0-44.0	77.5	5.9	162.0	1.82	50.39
44.0-45.0	76.1	5.8	167.9	1.82	52.20
45.0-46.0	74.7	5.8	173.7	1.82	54.02
46.0-47.0	73.3	5.8	179.5	1.81	55.83
47.0-48.0	71.8	5.8	185.3	1.81	57.64
48.0-49.0	70.3	5.8	191.1	1.79	59.43
49.0-50.0	68.6	5.7	196.8	1.78	61.21
50.0-51.0	67.0	5.7	202.5	1.76	62.97
51.0-52.0	65.3	5.6	208.1	1.74	64.72
52.0-53.0	63.7	5.5	213.6	1.72	66.44
53.0-54.0	62.0	5.5	219.1	1.70	68.14
54.0-55.0	60.2	5.4	224.5	1.67	69.81
55.0-56.0	58.4	5.3	229.8	1.64	71.45
56.0-57.0	56.7	5.2	234.9	1.61	73.07
57.0-58.0	54.9	5.1	240.0	1.58	74.65
58.0-59.0	53.1	5.0	245.0	1.54	76.19
59.0-60.0	51.2	4.8	249.8	1.51	77.70
60.0-61.0	49.3	4.7	254.5	1.46	79.16
61.0-62.0	47.5	4.6	259.1	1.42	80.58
62.0-63.0	45.5	4.4	263.5	1.38	81.96
63.0-64.0	43.6	4.3	267.8	1.33	83.29
64.0-65.0	41.6	4.1	271.9	1.28	84.57
65.0-66.0	39.7	4.0	275.9	1.23	85.80
66.0-67.0	37.7	3.8	279.7	1.18	86.98
67.0-68.0	35.8	3.6	283.3	1.13	88.11
68.0-69.0	33.9	3.5	286.8	1.07	89.18
69.0-70.0	31.8	3.3	290.0	1.02	90.20
70.0-71.0	29.9	3.1	293.1	0.96	91.16
71.0-72.0	27.9	2.9	296.0	0.90	92.06

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	25.9	2.7	298.7	0.84	92.91
73.0-74.0	24.0	2.5	301.3	0.79	93.69
74.0-75.0	22.2	2.3	303.6	0.73	94.42
75.0-76.0	20.3	2.2	305.8	0.67	95.09
76.0-77.0	18.4	2.0	307.7	0.61	95.70
77.0-78.0	16.6	1.8	309.5	0.55	96.25
78.0-79.0	14.8	1.6	311.1	0.49	96.75
79.0-80.0	13.0	1.4	312.5	0.44	97.19
80.0-81.0	11.3	1.2	313.7	0.38	97.57
81.0-82.0	9.7	1.0	314.8	0.33	97.89
82.0-83.0	8.1	0.9	315.7	0.27	98.17
83.0-84.0	6.7	0.7	316.4	0.23	98.39
84.0-85.0	5.4	0.6	317.0	0.18	98.58
85.0-86.0	4.2	0.5	317.4	0.14	98.72
86.0-87.0	3.1	0.3	317.8	0.11	98.82
87.0-88.0	2.2	0.2	318.0	0.07	98.90
88.0-89.0	1.4	0.2	318.2	0.05	98.95
89.0-90.0	0.9	0.1	318.3	0.03	98.97
90.0-91.0	0.6	0.1	318.3	0.02	99.00
91.0-92.0	0.5	0.1	318.4	0.02	99.01
92.0-93.0	0.4	0.0	318.4	0.01	99.03
93.0-94.0	0.3	0.0	318.5	0.01	99.04
94.0-95.0	0.3	0.0	318.5	0.01	99.05
95.0-96.0	0.3	0.0	318.5	0.01	99.06
96.0-97.0	0.3	0.0	318.5	0.01	99.06
97.0-98.0	0.2	0.0	318.6	0.01	99.07
98.0-99.0	0.2	0.0	318.6	0.01	99.08
99.0-100.0	0.2	0.0	318.6	0.01	99.09
100.0-101.0	0.2	0.0	318.6	0.01	99.10
101.0-102.0	0.3	0.0	318.7	0.01	99.10
102.0-103.0	0.3	0.0	318.7	0.01	99.11
103.0-104.0	0.3	0.0	318.7	0.01	99.12
104.0-105.0	0.3	0.0	318.8	0.01	99.13
105.0-106.0	0.3	0.0	318.8	0.01	99.14
106.0-107.0	0.3	0.0	318.8	0.01	99.15
107.0-108.0	0.3	0.0	318.9	0.01	99.16

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.3	0.0	318.9	0.01	99.17
109.0-110.0	0.3	0.0	318.9	0.01	99.19
110.0-111.0	0.4	0.0	319.0	0.01	99.20
111.0-112.0	0.4	0.0	319.0	0.01	99.21
112.0-113.0	0.4	0.0	319.0	0.01	99.22
113.0-114.0	0.4	0.0	319.1	0.01	99.23
114.0-115.0	0.4	0.0	319.1	0.01	99.25
115.0-116.0	0.4	0.0	319.2	0.01	99.26
116.0-117.0	0.5	0.0	319.2	0.01	99.27
117.0-118.0	0.5	0.0	319.3	0.01	99.29
118.0-119.0	0.5	0.0	319.3	0.01	99.30
119.0-120.0	0.5	0.0	319.3	0.01	99.32
120.0-121.0	0.5	0.0	319.4	0.01	99.33
121.0-122.0	0.5	0.0	319.4	0.01	99.34
122.0-123.0	0.5	0.0	319.5	0.01	99.36
123.0-124.0	0.5	0.0	319.5	0.02	99.37
124.0-125.0	0.5	0.0	319.6	0.02	99.39
125.0-126.0	0.5	0.0	319.6	0.01	99.40
126.0-127.0	0.6	0.0	319.7	0.02	99.42
127.0-128.0	0.6	0.1	319.7	0.02	99.44
128.0-129.0	0.6	0.1	319.8	0.02	99.45
129.0-130.0	0.6	0.1	319.8	0.02	99.47
130.0-131.0	0.6	0.1	319.9	0.02	99.48
131.0-132.0	0.6	0.1	319.9	0.02	99.50
132.0-133.0	0.6	0.1	320.0	0.02	99.52
133.0-134.0	0.7	0.1	320.0	0.02	99.53
134.0-135.0	0.7	0.1	320.1	0.02	99.55
135.0-136.0	0.7	0.1	320.1	0.02	99.56
136.0-137.0	0.7	0.1	320.2	0.02	99.58
137.0-138.0	0.7	0.1	320.2	0.02	99.59
138.0-139.0	0.7	0.1	320.3	0.02	99.61
139.0-140.0	0.7	0.0	320.3	0.02	99.63
140.0-141.0	0.7	0.0	320.4	0.02	99.64
141.0-142.0	0.7	0.1	320.4	0.02	99.66
142.0-143.0	0.7	0.0	320.5	0.02	99.67
143.0-144.0	0.7	0.0	320.5	0.01	99.69

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Nick

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.8	0.0	320.6	0.01	99.70
145.0-146.0	0.8	0.0	320.6	0.01	99.72
146.0-147.0	0.8	0.0	320.7	0.01	99.73
147.0-148.0	0.8	0.0	320.7	0.01	99.75
148.0-149.0	0.8	0.0	320.8	0.01	99.76
149.0-150.0	0.8	0.0	320.8	0.01	99.77
150.0-151.0	0.8	0.0	320.9	0.01	99.79
151.0-152.0	0.8	0.0	320.9	0.01	99.80
152.0-153.0	0.8	0.0	320.9	0.01	99.81
153.0-154.0	0.8	0.0	321.0	0.01	99.83
154.0-155.0	0.8	0.0	321.0	0.01	99.84
155.0-156.0	0.8	0.0	321.1	0.01	99.85
156.0-157.0	0.8	0.0	321.1	0.01	99.86
157.0-158.0	0.8	0.0	321.1	0.01	99.87
158.0-159.0	0.9	0.0	321.2	0.01	99.88
159.0-160.0	0.9	0.0	321.2	0.01	99.89
160.0-161.0	0.9	0.0	321.2	0.01	99.90
161.0-162.0	0.9	0.0	321.3	0.01	99.91
162.0-163.0	0.9	0.0	321.3	0.01	99.92
163.0-164.0	0.9	0.0	321.3	0.01	99.93
164.0-165.0	0.9	0.0	321.4	0.01	99.94
165.0-166.0	0.9	0.0	321.4	0.01	99.95
166.0-167.0	0.9	0.0	321.4	0.01	99.95
167.0-168.0	0.9	0.0	321.4	0.01	99.96
168.0-169.0	0.9	0.0	321.4	0.01	99.97
169.0-170.0	0.9	0.0	321.5	0.01	99.97
170.0-171.0	0.9	0.0	321.5	0.01	99.98
171.0-172.0	0.9	0.0	321.5	0.00	99.98
172.0-173.0	0.9	0.0	321.5	0.00	99.99
173.0-174.0	0.9	0.0	321.5	0.00	99.99
174.0-175.0	1.0	0.0	321.5	0.00	99.99
175.0-176.0	0.9	0.0	321.5	0.00	100.00
176.0-177.0	0.9	0.0	321.5	0.00	100.00
177.0-178.0	1.0	0.0	321.5	0.00	100.00
178.0-179.0	1.0	0.0	321.5	0.00	100.00
179.0-180.0	1.0	0.0	321.5	0.00	100.00

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector: