

Report No.:

Test Time: 2021/1/5 14:16

## Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Luminaire Description: CHAS23MRB90SWS2203.030

Lamp Catalog: RIBBONLYTE

Number of Lamps: 1 ROW

Luminous Width (mm): 23

Voltage: 24.0 V

Power: 5.21 W

Lamp Description: RB90SWS2203.030

Luminous Length (mm): 500

Luminous Height (mm): 25.1

Current: 0.217 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 218 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H157.3,H101.8

Vertical Diffuse Angle(10%,50%): V158.8,V99.9

Luminaire Efficacy Rating (LER): 42

Max. Intensity: 85.8 cd

Total Rated Lamp Lumens: 218.0 lm

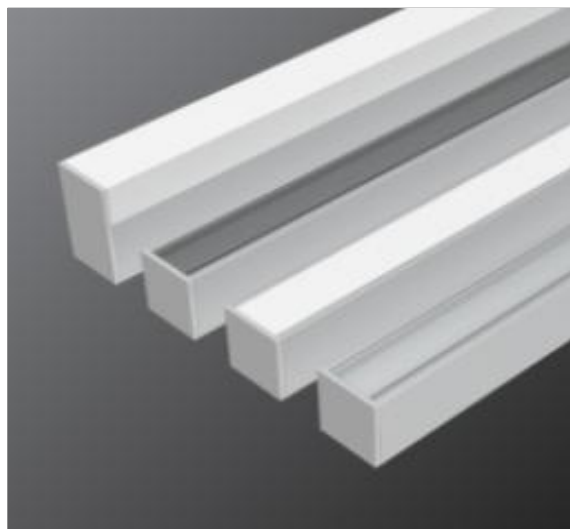
Efficiency: 100%

Upward Ratio: 1%

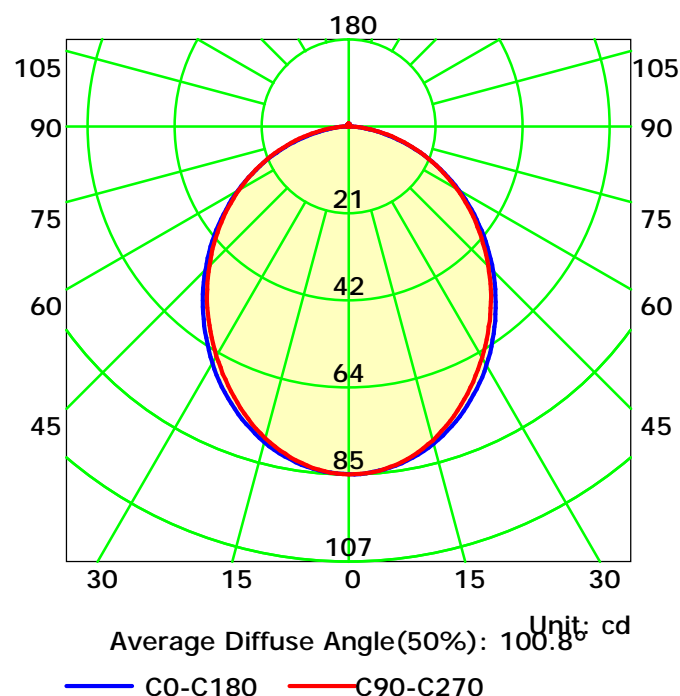
Central Intensity: 85.7 cd

Pos of Max. Intensity: H120 V0

Picture Of Luminaire



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

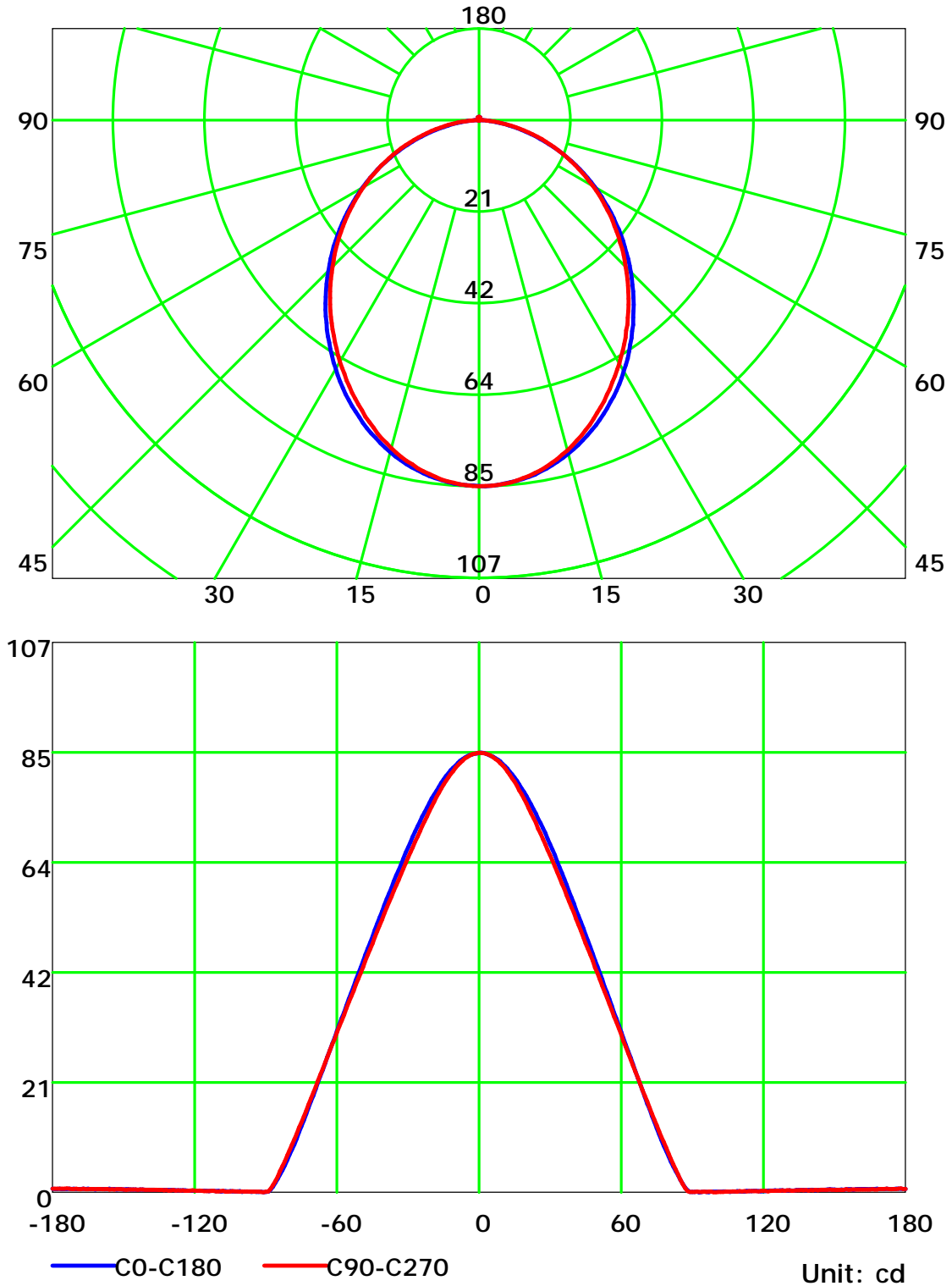
Distance: 9.028 m

Humidity: 60%

Inspector:



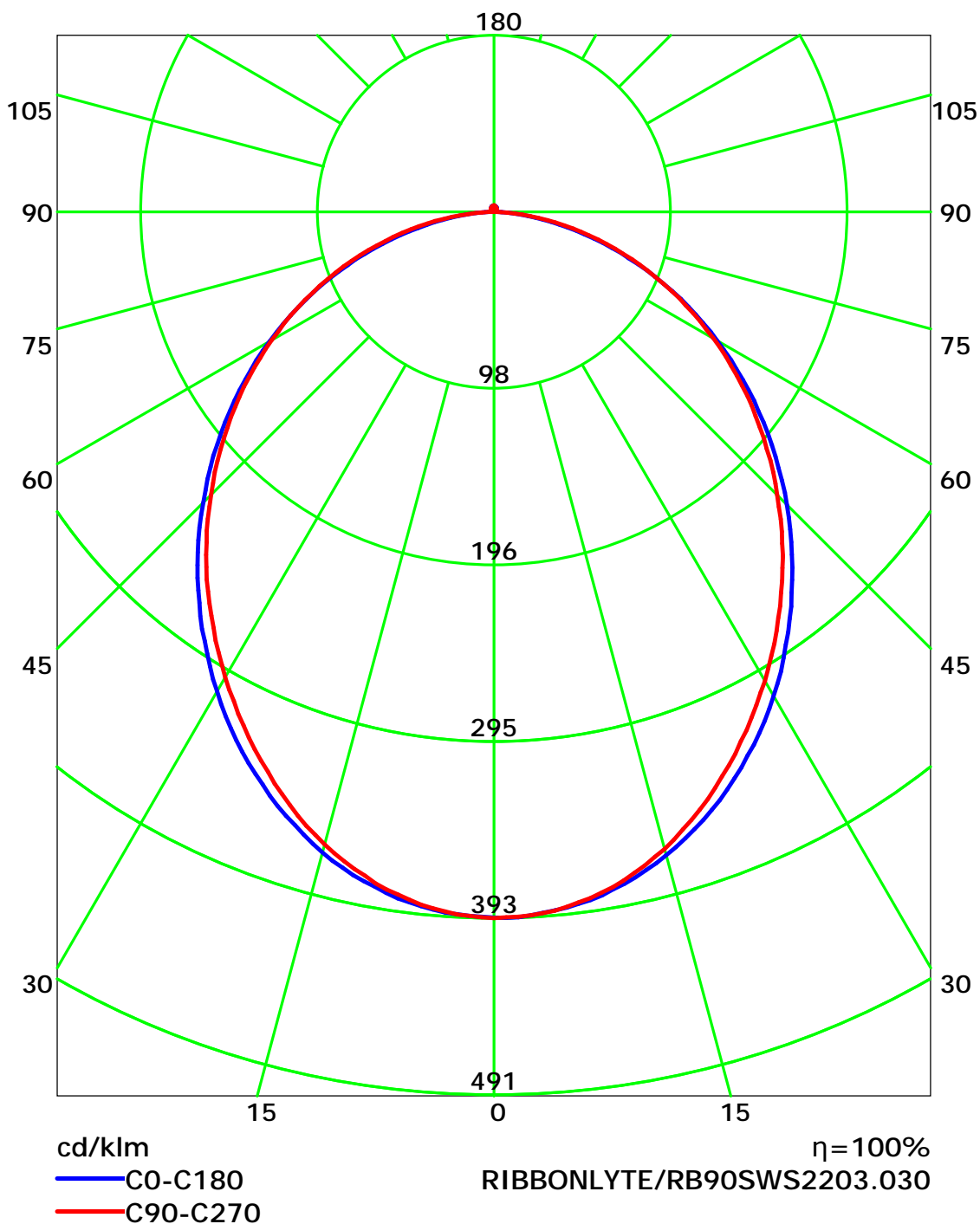
## Luminous Intensity Distribution Curve



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:

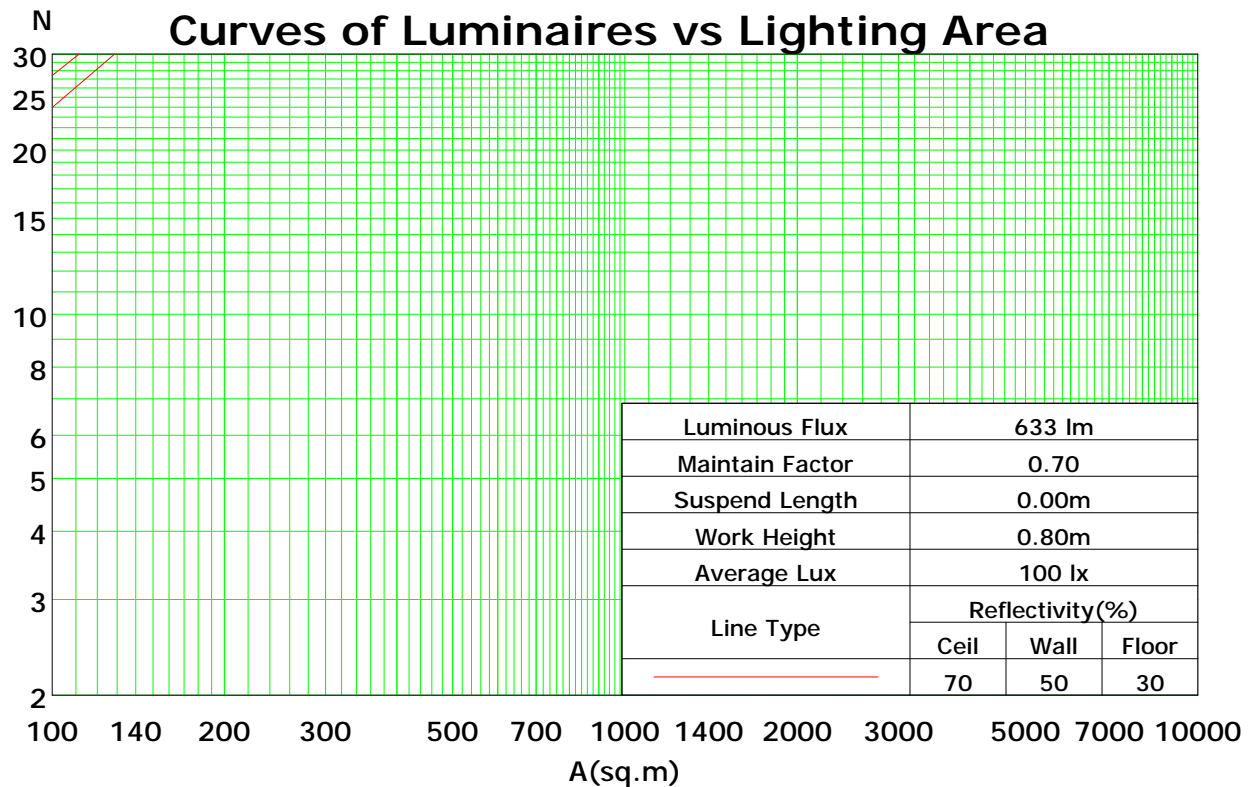
## Coefficients Of Utilization - Zonal Cavity Method

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	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	88	86	83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	91	80	72	66	88	79	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	57	53	51
5	77	64	55	49	74	63	54	48	60	53	48	58	52	47	56	51	46	44
6	71	58	49	43	69	57	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	38	64	52	43	37	50	43	37	48	42	37	47	41	36	34
8	61	48	39	34	60	47	39	34	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

Spacing Criteria (0-180): 1.18

Spacing Criteria (90-270): 1.15

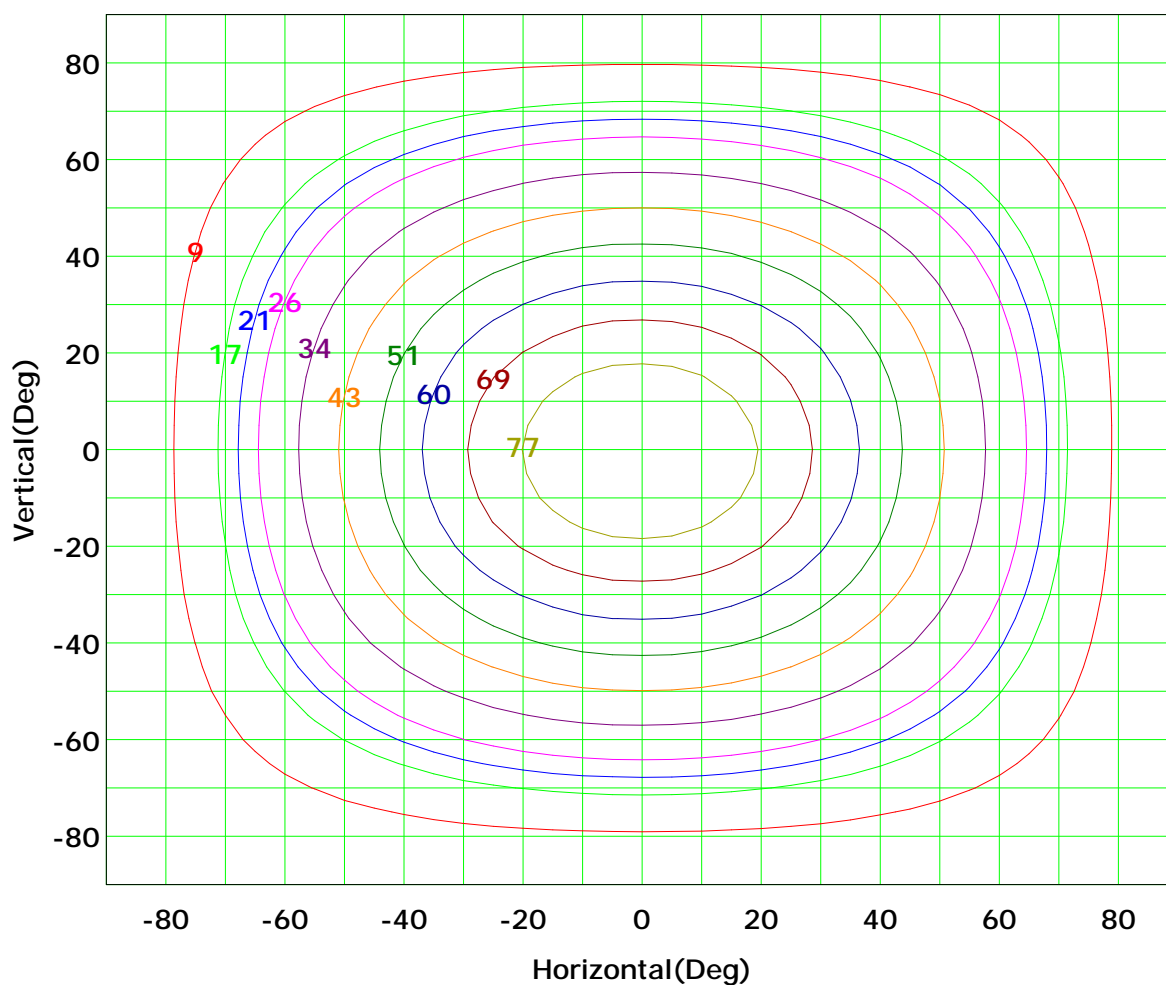
Spacing Criteria (Diagonal): 1.28



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)



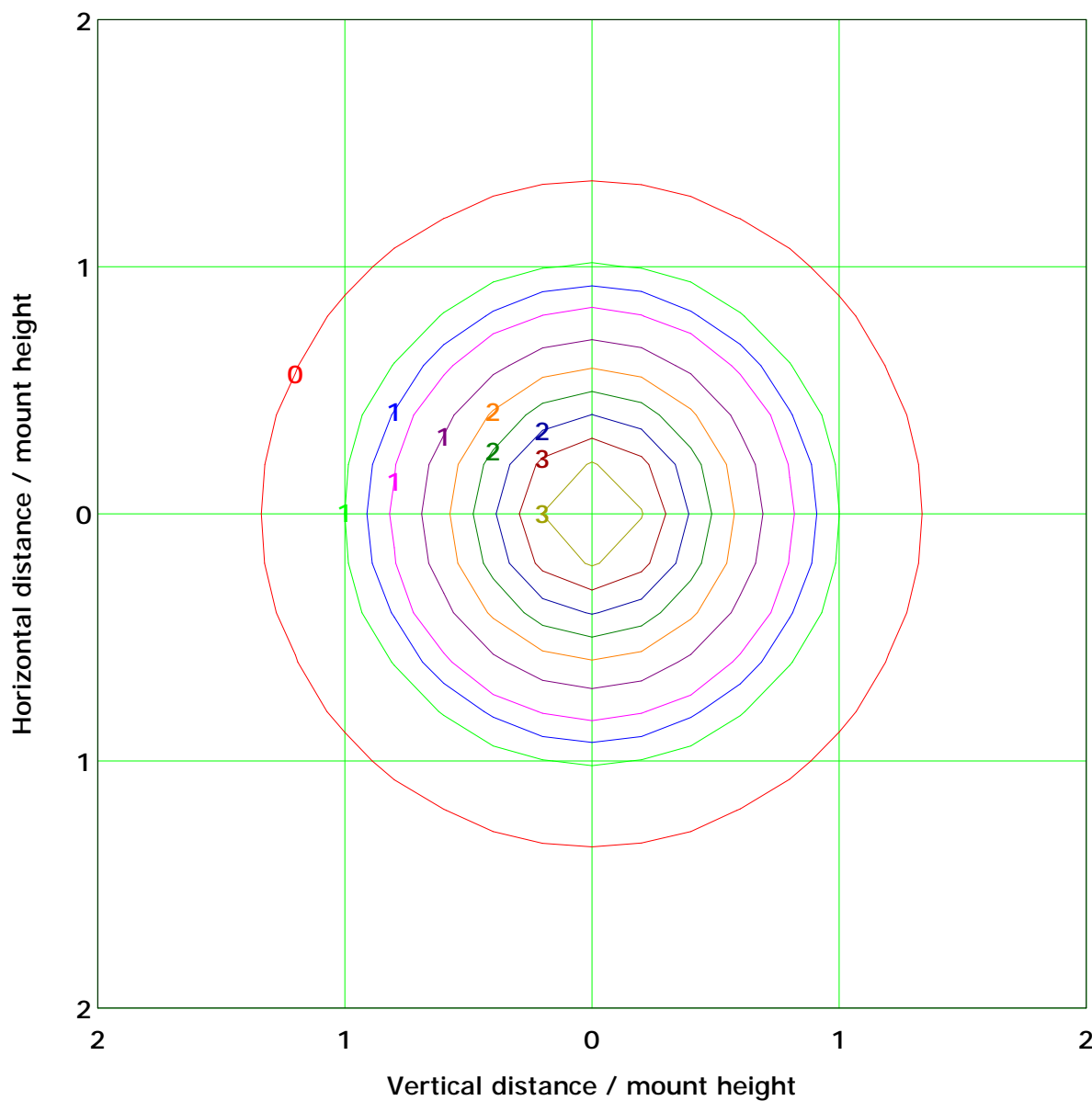
Imax (100%): 86 cd

( 10%):	9 cd	( 20%):	17 cd
( 25%):	21 cd	( 30%):	26 cd
( 40%):	34 cd	( 50%):	43 cd
( 60%):	51 cd	( 70%):	60 cd
( 80%):	69 cd	( 90%):	77 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%): 3.4 lx

( 10%): 0.3 lx	( 20%): 0.7 lx
( 25%): 0.9 lx	( 30%): 1.0 lx
( 40%): 1.4 lx	( 50%): 1.7 lx
( 60%): 2.1 lx	( 70%): 2.4 lx
( 80%): 2.7 lx	( 90%): 3.1 lx

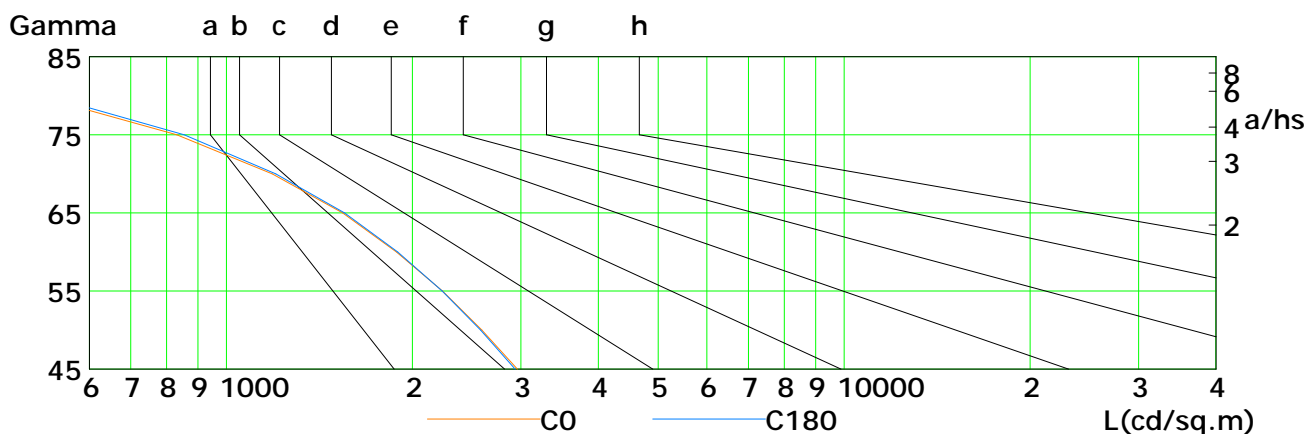
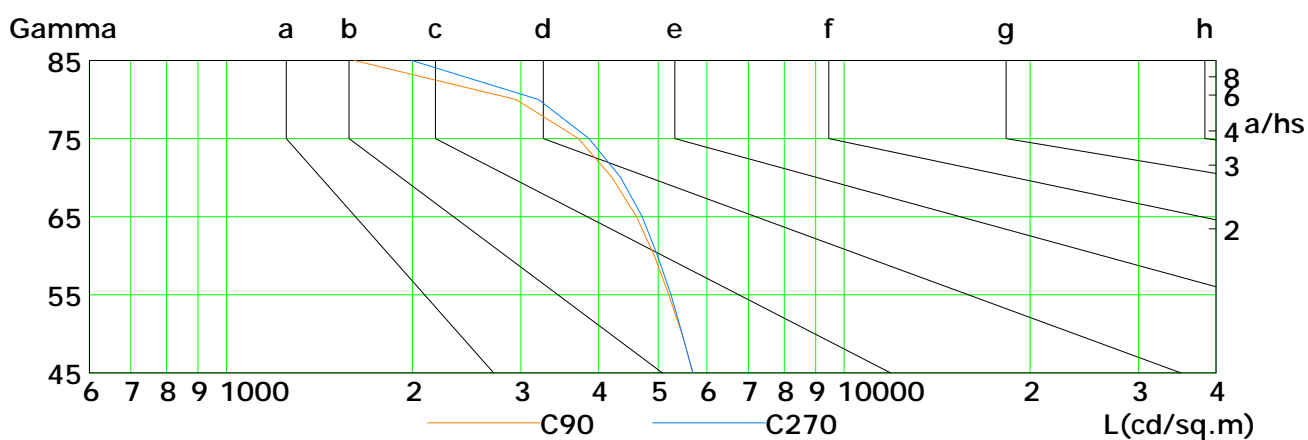
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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



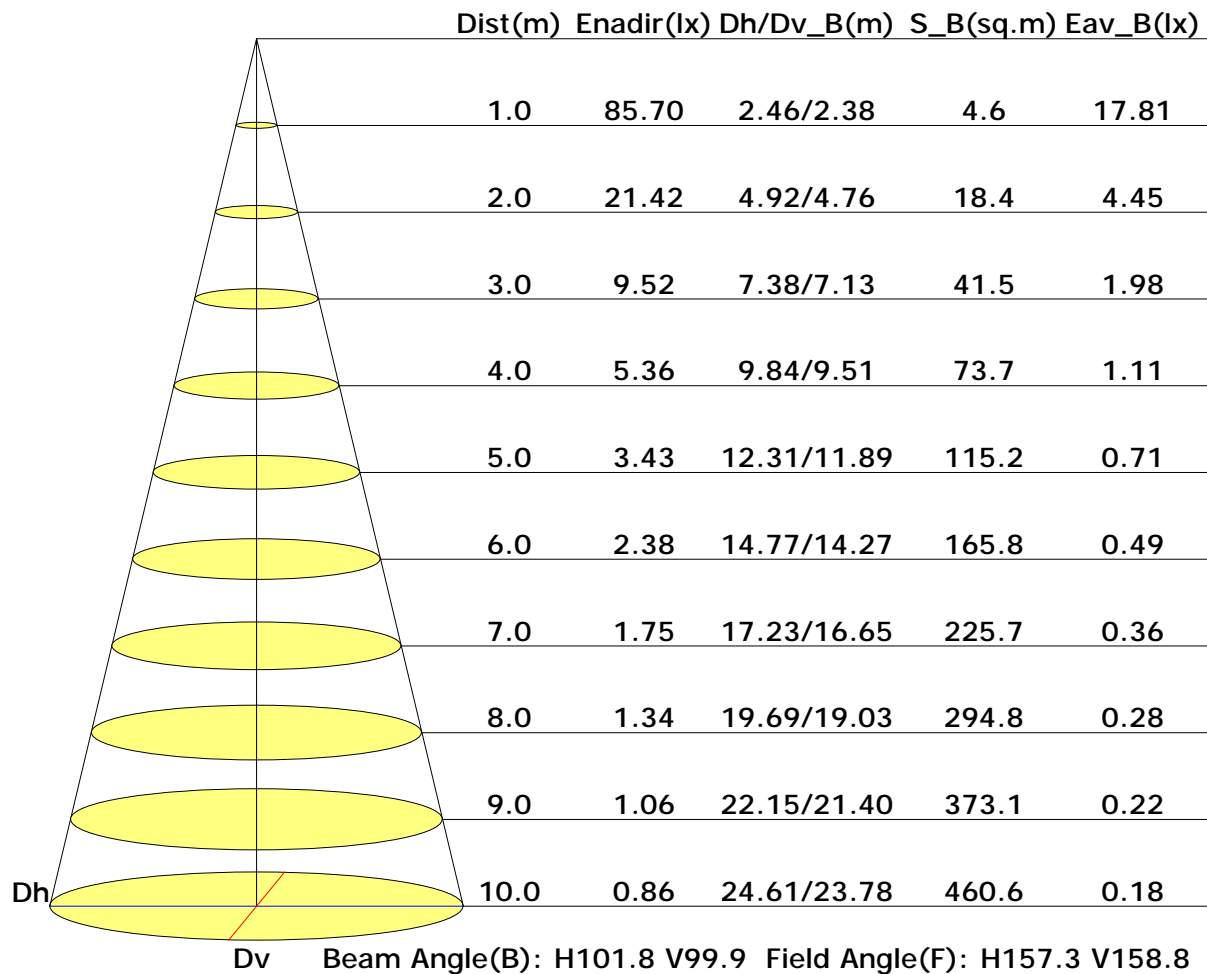
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2958	2591	2237	1885	1542	1186	831	492	185
C90	5694	5462	5203	4930	4611	4214	3715	2947	1610
C180	2936	2579	2235	1893	1553	1202	855	513	200
C270	5690	5468	5247	4990	4711	4352	3865	3200	1997

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:

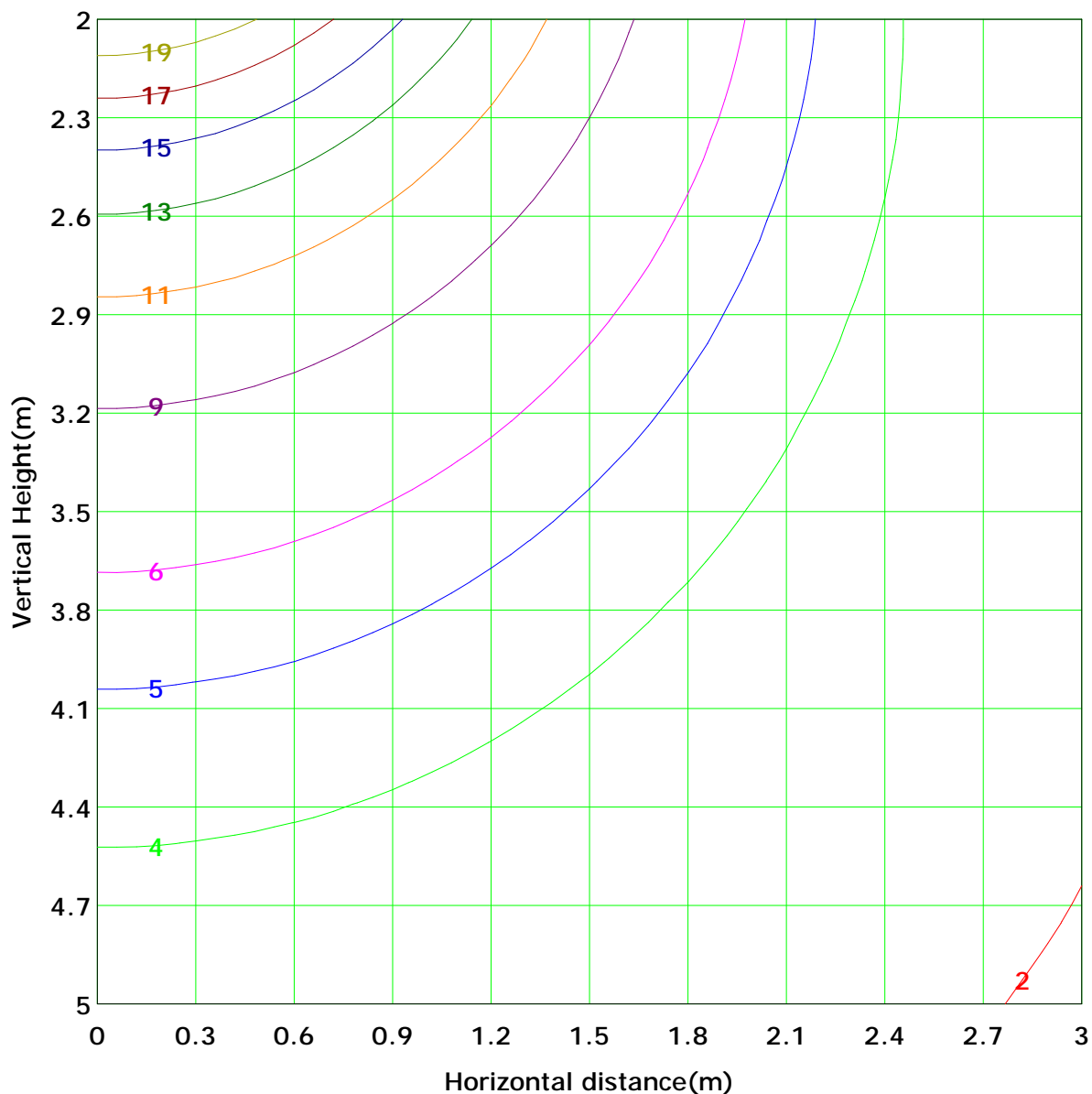


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 21.4 lx
( 10%): 2.1 lx	( 20%): 4.3 lx	
( 25%): 5.4 lx	( 30%): 6.4 lx	
( 40%): 8.6 lx	( 50%): 10.7 lx	
( 60%): 12.9 lx	( 70%): 15.0 lx	
( 80%): 17.1 lx	( 90%): 19.3 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

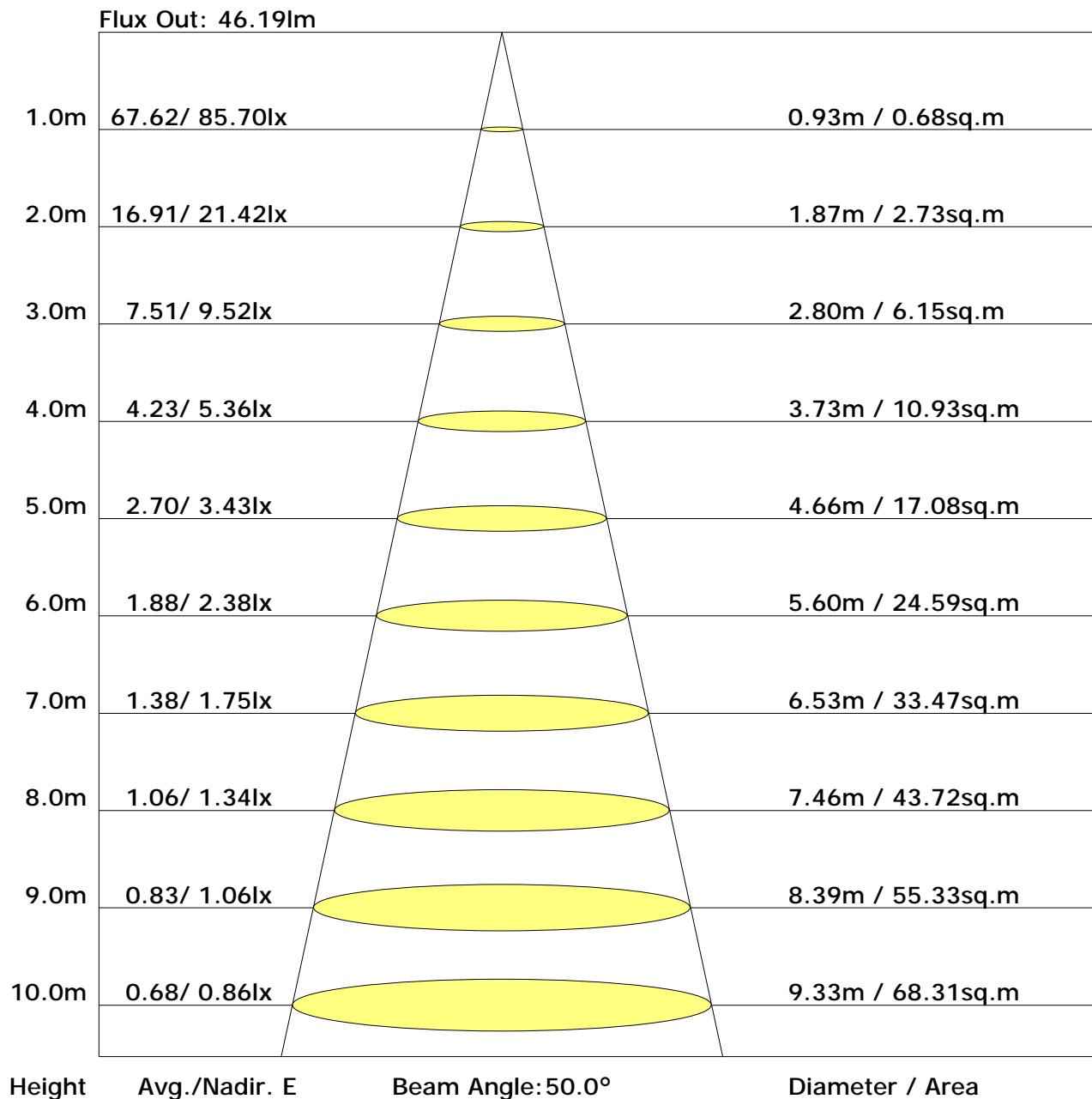
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	-80	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.8	1.1	1.5	2.0	2.3	2.5	2.6	2.4	2.2	2.0	1.7	1.5	1.1	0.8
	-70	0.0	0.1	0.1	0.2	0.4	0.7	1.1	1.5	2.0	2.4	2.6	2.4	2.2	2.0	1.7	1.5	1.3	1.1	0.9	0.7	0.5
	-60	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.5	1.4	1.2	1.0	0.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0
	-50	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.5	1.4	1.2	1.0	0.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0
	-40	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.5	1.4	1.2	1.0	0.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0
	-30	0.0	0.1	0.3	0.5	0.8	1.1	1.4	1.7	2.0	2.1	2.0	1.7	1.5	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0.0
	-20	0.0	0.1	0.3	0.6	1.0	1.5	1.9	2.2	2.4	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5	0.3	0.1
	-10	0.0	0.1	0.3	0.6	1.0	1.5	1.9	2.2	2.4	2.5	2.3	2.0	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5	0.3
	0	0.0	0.1	0.3	0.7	1.1	1.5	2.0	2.3	2.5	2.5	2.3	2.0	2.0	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5
	10	0.0	0.1	0.3	0.7	1.1	1.5	2.0	2.3	2.5	2.6	2.4	2.2	2.0	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5
	20	0.0	0.1	0.3	0.6	1.0	1.5	1.9	2.2	2.4	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5	0.3	0.1
	30	0.0	0.1	0.3	0.6	0.9	1.3	1.7	2.0	2.1	2.1	2.0	1.7	1.5	1.2	0.9	0.7	0.5	0.3	0.2	0.1	0.0
	40	0.0	0.1	0.3	0.5	0.8	1.1	1.5	1.7	1.8	1.8	1.7	1.5	1.2	0.8	0.5	0.3	0.2	0.1	0.0	0.0	0.0
	50	0.0	0.1	0.2	0.4	0.7	0.9	1.2	1.4	1.5	1.5	1.4	1.2	0.9	0.7	0.4	0.2	0.1	0.0	0.0	0.0	0.0
	60	0.0	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.1	1.1	1.0	0.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0
	70	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
	80	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	90	0.1	1.1	3.4	6.9	11.2	15.8	20.1	23.5	25.4	25.4	23.6	20.3	15.9	11.2	6.9	3.4	1.1	0.1	0.0	0.7	0.0
	Flux(E)	0.0	0.8	3.2	6.7	11.0	15.6	19.9	23.3	25.2	25.2	23.4	20.0	15.7	11.0	6.7	3.1	0.7	0.0	0.0	216	211

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



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:

## 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	21.6	23.2	22.0	23.5	23.9	19.8	21.3	20.1	21.7	22.0
3H	23.3	24.7	23.7	25.0	25.4	21.1	22.5	21.4	22.8	23.2
4H	23.8	25.2	24.2	25.5	25.9	21.4	22.8	21.9	23.2	23.6
6H	24.2	25.4	24.6	25.8	26.2	21.7	22.9	22.1	23.3	23.7
8H	24.3	25.5	24.7	25.9	26.3	21.7	22.9	22.1	23.3	23.7
12H	24.3	25.5	24.8	25.9	26.3	21.7	22.8	22.1	23.2	23.7
X=4H Y=2H	21.9	23.3	22.3	23.6	24.0	20.4	21.7	20.8	22.1	22.5
3H	23.7	24.8	24.1	25.3	25.7	21.8	23.0	22.3	23.4	23.8
4H	24.4	25.4	24.8	25.8	26.3	22.3	23.3	22.8	23.8	24.2
6H	24.8	25.7	25.3	26.2	26.6	22.6	23.5	23.1	24.0	24.4
8H	24.9	25.8	25.4	26.2	26.7	22.7	23.5	23.1	23.9	24.4
12H	25.0	25.7	25.5	26.2	26.7	22.7	23.4	23.2	23.9	24.4
X=8H Y=4H	24.5	25.3	24.9	25.7	26.2	22.6	23.4	23.0	23.8	24.3
6H	24.9	25.6	25.5	26.1	26.6	22.9	23.6	23.4	24.1	24.6
8H	25.1	25.7	25.6	26.2	26.7	23.0	23.6	23.5	24.1	24.6
12H	25.2	25.7	25.7	26.2	26.8	23.0	23.6	23.5	24.1	24.7
X=12H Y=4H	24.4	25.2	24.9	25.7	26.2	22.6	23.3	23.1	23.8	24.3
6H	24.9	25.6	25.5	26.0	26.6	22.9	23.6	23.5	24.0	24.6
8H	25.1	25.7	25.6	26.2	26.8	23.0	23.6	23.6	24.1	24.7

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 = 1.25								
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	0.58	0.68	0.76	0.81	0.88	0.93	0.96	1.01	1.04
	0.30		0.51	0.61	0.68	0.74	0.82	0.87	0.91	0.97	1.00
	0.20		0.45	0.55	0.63	0.69	0.77	0.83	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99
	0.30		0.50	0.60	0.67	0.72	0.80	0.85	0.88	0.93	0.96
	0.20		0.45	0.55	0.62	0.67	0.75	0.81	0.85	0.90	0.94
0.30	0.50	0.20	0.55	0.64	0.71	0.75	0.82	0.86	0.89	0.93	0.95
	0.30		0.49	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.44	0.54	0.61	0.66	0.74	0.79	0.83	0.88	0.91
0.00	0.00	0.00	0.42	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86
Rating:5W 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	0.97	0.80	0.68	0.59	0.47	0.39	0.33	0.26	0.21	
	0.30		0.81	0.68	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.69	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.93	0.77	0.65	0.57	0.45	0.41	0.32	0.24	0.20	
	0.30		0.79	0.67	0.57	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.69	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.91	0.74	0.62	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.77	0.65	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.68	0.58	0.50	0.45	0.37	0.31	0.27	0.21	0.18	
0.00	0.00	0.00	0.57	0.48	0.41	0.36	0.29	0.24	0.21	0.16	0.13	
Rating:5W 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 = 1.25									
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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.11	0.12	0.13	0.15	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	0.17	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	0.18	0.19	0.20	
	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:5W 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	85.7	0.1	0.1	0.04	0.04
1.0-2.0	85.6	0.2	0.3	0.11	0.15
2.0-3.0	85.6	0.4	0.7	0.19	0.34
3.0-4.0	85.4	0.6	1.3	0.26	0.60
4.0-5.0	85.2	0.7	2.0	0.34	0.94
5.0-6.0	85.0	0.9	2.9	0.41	1.35
6.0-7.0	84.7	1.1	4.0	0.48	1.83
7.0-8.0	84.3	1.2	5.2	0.55	2.38
8.0-9.0	83.9	1.4	6.6	0.62	3.01
9.0-10.0	83.5	1.5	8.1	0.69	3.70
10.0-11.0	83.0	1.7	9.7	0.76	4.46
11.0-12.0	82.4	1.8	11.5	0.83	5.29
12.0-13.0	81.9	1.9	13.5	0.89	6.18
13.0-14.0	81.3	2.1	15.5	0.95	7.13
14.0-15.0	80.6	2.2	17.8	1.02	8.15
15.0-16.0	79.9	2.3	20.1	1.07	9.22
16.0-17.0	79.2	2.5	22.6	1.13	10.35
17.0-18.0	78.4	2.6	25.2	1.19	11.54
18.0-19.0	77.6	2.7	27.9	1.24	12.78
19.0-20.0	76.8	2.8	30.7	1.29	14.07
20.0-21.0	75.9	2.9	33.6	1.34	15.41
21.0-22.0	75.0	3.0	36.6	1.38	16.79
22.0-23.0	74.1	3.1	39.7	1.43	18.22
23.0-24.0	73.2	3.2	42.9	1.47	19.68
24.0-25.0	72.2	3.3	46.2	1.51	21.19
25.0-26.0	71.2	3.4	49.6	1.54	22.73
26.0-27.0	70.2	3.4	53.0	1.58	24.31
27.0-28.0	69.2	3.5	56.5	1.61	25.92
28.0-29.0	68.2	3.6	60.1	1.64	27.55
29.0-30.0	67.1	3.6	63.7	1.66	29.22
30.0-31.0	66.0	3.7	67.4	1.69	30.90
31.0-32.0	65.0	3.7	71.1	1.71	32.61
32.0-33.0	63.9	3.8	74.8	1.73	34.34
33.0-34.0	62.7	3.8	78.6	1.74	36.08
34.0-35.0	61.6	3.8	82.5	1.76	37.84
35.0-36.0	60.5	3.9	86.3	1.77	39.60

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	59.4	3.9	90.2	1.78	41.38
37.0-38.0	58.2	3.9	94.1	1.78	43.16
38.0-39.0	57.1	3.9	98.0	1.79	44.95
39.0-40.0	55.9	3.9	101.9	1.79	46.74
40.0-41.0	54.8	3.9	105.8	1.79	48.53
41.0-42.0	53.6	3.9	109.7	1.79	50.32
42.0-43.0	52.4	3.9	113.6	1.78	52.10
43.0-44.0	51.2	3.9	117.4	1.77	53.87
44.0-45.0	50.0	3.8	121.3	1.76	55.64
45.0-46.0	48.8	3.8	125.1	1.75	57.39
46.0-47.0	47.6	3.8	128.9	1.74	59.13
47.0-48.0	46.4	3.8	132.6	1.72	60.85
48.0-49.0	45.2	3.7	136.4	1.70	62.55
49.0-50.0	44.0	3.7	140.0	1.68	64.24
50.0-51.0	42.8	3.6	143.6	1.66	65.90
51.0-52.0	41.6	3.6	147.2	1.64	67.54
52.0-53.0	40.4	3.5	150.7	1.61	69.15
53.0-54.0	39.2	3.5	154.2	1.58	70.73
54.0-55.0	38.0	3.4	157.6	1.56	72.29
55.0-56.0	36.8	3.3	160.9	1.52	73.81
56.0-57.0	35.5	3.2	164.1	1.49	75.30
57.0-58.0	34.3	3.2	167.3	1.46	76.76
58.0-59.0	33.1	3.1	170.4	1.42	78.18
59.0-60.0	31.9	3.0	173.4	1.38	79.56
60.0-61.0	30.6	2.9	176.3	1.34	80.90
61.0-62.0	29.4	2.8	179.2	1.30	82.20
62.0-63.0	28.2	2.7	181.9	1.26	83.46
63.0-64.0	27.0	2.6	184.6	1.21	84.67
64.0-65.0	25.8	2.5	187.1	1.17	85.84
65.0-66.0	24.5	2.4	189.6	1.12	86.97
66.0-67.0	23.3	2.3	191.9	1.08	88.04
67.0-68.0	22.1	2.2	194.1	1.03	89.07
68.0-69.0	20.9	2.1	196.3	0.98	90.04
69.0-70.0	19.7	2.0	198.3	0.93	90.97
70.0-71.0	18.5	1.9	200.2	0.88	91.85
71.0-72.0	17.3	1.8	202.0	0.82	92.67

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	16.1	1.7	203.7	0.77	93.44
73.0-74.0	14.9	1.6	205.3	0.72	94.16
74.0-75.0	13.8	1.5	206.7	0.67	94.83
75.0-76.0	12.6	1.3	208.0	0.61	95.44
76.0-77.0	11.5	1.2	209.3	0.56	96.01
77.0-78.0	10.4	1.1	210.4	0.51	96.51
78.0-79.0	9.3	1.0	211.4	0.46	96.97
79.0-80.0	8.2	0.9	212.3	0.41	97.38
80.0-81.0	7.2	0.8	213.0	0.36	97.73
81.0-82.0	6.1	0.7	213.7	0.31	98.04
82.0-83.0	5.1	0.6	214.3	0.26	98.29
83.0-84.0	4.2	0.5	214.7	0.21	98.50
84.0-85.0	3.2	0.4	215.1	0.16	98.66
85.0-86.0	2.3	0.3	215.3	0.12	98.78
86.0-87.0	1.5	0.2	215.5	0.08	98.86
87.0-88.0	0.8	0.1	215.6	0.04	98.90
88.0-89.0	0.3	0.0	215.6	0.02	98.91
89.0-90.0	0.2	0.0	215.6	0.01	98.92
90.0-91.0	0.1	0.0	215.6	0.01	98.93
91.0-92.0	0.1	0.0	215.7	0.01	98.93
92.0-93.0	0.1	0.0	215.7	0.01	98.94
93.0-94.0	0.1	0.0	215.7	0.01	98.95
94.0-95.0	0.2	0.0	215.7	0.01	98.96
95.0-96.0	0.2	0.0	215.7	0.01	98.96
96.0-97.0	0.2	0.0	215.7	0.01	98.97
97.0-98.0	0.2	0.0	215.8	0.01	98.98
98.0-99.0	0.2	0.0	215.8	0.01	98.99
99.0-100.0	0.2	0.0	215.8	0.01	99.00
100.0-101.0	0.2	0.0	215.8	0.01	99.01
101.0-102.0	0.2	0.0	215.8	0.01	99.02
102.0-103.0	0.2	0.0	215.9	0.01	99.03
103.0-104.0	0.2	0.0	215.9	0.01	99.04
104.0-105.0	0.2	0.0	215.9	0.01	99.05
105.0-106.0	0.2	0.0	215.9	0.01	99.06
106.0-107.0	0.2	0.0	216.0	0.01	99.07
107.0-108.0	0.2	0.0	216.0	0.01	99.08

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	216.0	0.01	99.09
109.0-110.0	0.3	0.0	216.0	0.01	99.11
110.0-111.0	0.3	0.0	216.1	0.01	99.12
111.0-112.0	0.3	0.0	216.1	0.01	99.13
112.0-113.0	0.3	0.0	216.1	0.01	99.14
113.0-114.0	0.3	0.0	216.1	0.01	99.16
114.0-115.0	0.3	0.0	216.2	0.01	99.17
115.0-116.0	0.3	0.0	216.2	0.01	99.19
116.0-117.0	0.3	0.0	216.2	0.01	99.20
117.0-118.0	0.3	0.0	216.3	0.01	99.22
118.0-119.0	0.3	0.0	216.3	0.01	99.23
119.0-120.0	0.3	0.0	216.3	0.02	99.25
120.0-121.0	0.4	0.0	216.4	0.02	99.26
121.0-122.0	0.4	0.0	216.4	0.02	99.28
122.0-123.0	0.4	0.0	216.4	0.02	99.29
123.0-124.0	0.4	0.0	216.5	0.02	99.31
124.0-125.0	0.4	0.0	216.5	0.02	99.32
125.0-126.0	0.4	0.0	216.5	0.02	99.34
126.0-127.0	0.4	0.0	216.6	0.02	99.36
127.0-128.0	0.4	0.0	216.6	0.02	99.37
128.0-129.0	0.4	0.0	216.7	0.02	99.39
129.0-130.0	0.4	0.0	216.7	0.02	99.41
130.0-131.0	0.4	0.0	216.7	0.02	99.42
131.0-132.0	0.5	0.0	216.8	0.02	99.44
132.0-133.0	0.5	0.0	216.8	0.02	99.46
133.0-134.0	0.5	0.0	216.8	0.02	99.48
134.0-135.0	0.5	0.0	216.9	0.02	99.49
135.0-136.0	0.5	0.0	216.9	0.02	99.51
136.0-137.0	0.5	0.0	217.0	0.02	99.53
137.0-138.0	0.5	0.0	217.0	0.02	99.55
138.0-139.0	0.5	0.0	217.0	0.02	99.56
139.0-140.0	0.5	0.0	217.1	0.02	99.58
140.0-141.0	0.5	0.0	217.1	0.02	99.60
141.0-142.0	0.5	0.0	217.1	0.02	99.61
142.0-143.0	0.5	0.0	217.2	0.02	99.63
143.0-144.0	0.5	0.0	217.2	0.02	99.65

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	0.6	0.0	217.2	0.02	99.66
145.0-146.0	0.6	0.0	217.3	0.02	99.68
146.0-147.0	0.6	0.0	217.3	0.02	99.70
147.0-148.0	0.6	0.0	217.4	0.02	99.71
148.0-149.0	0.6	0.0	217.4	0.02	99.73
149.0-150.0	0.6	0.0	217.4	0.02	99.74
150.0-151.0	0.6	0.0	217.5	0.02	99.76
151.0-152.0	0.6	0.0	217.5	0.01	99.77
152.0-153.0	0.6	0.0	217.5	0.01	99.79
153.0-154.0	0.6	0.0	217.5	0.01	99.80
154.0-155.0	0.6	0.0	217.6	0.01	99.82
155.0-156.0	0.6	0.0	217.6	0.01	99.83
156.0-157.0	0.7	0.0	217.6	0.01	99.84
157.0-158.0	0.7	0.0	217.7	0.01	99.86
158.0-159.0	0.7	0.0	217.7	0.01	99.87
159.0-160.0	0.7	0.0	217.7	0.01	99.88
160.0-161.0	0.7	0.0	217.7	0.01	99.89
161.0-162.0	0.7	0.0	217.8	0.01	99.90
162.0-163.0	0.7	0.0	217.8	0.01	99.91
163.0-164.0	0.7	0.0	217.8	0.01	99.92
164.0-165.0	0.7	0.0	217.8	0.01	99.93
165.0-166.0	0.7	0.0	217.8	0.01	99.94
166.0-167.0	0.7	0.0	217.9	0.01	99.95
167.0-168.0	0.7	0.0	217.9	0.01	99.95
168.0-169.0	0.7	0.0	217.9	0.01	99.96
169.0-170.0	0.7	0.0	217.9	0.01	99.97
170.0-171.0	0.7	0.0	217.9	0.01	99.97
171.0-172.0	0.7	0.0	217.9	0.01	99.98
172.0-173.0	0.7	0.0	217.9	0.00	99.98
173.0-174.0	0.7	0.0	218.0	0.00	99.99
174.0-175.0	0.7	0.0	218.0	0.00	99.99
175.0-176.0	0.7	0.0	218.0	0.00	99.99
176.0-177.0	0.7	0.0	218.0	0.00	100.00
177.0-178.0	0.7	0.0	218.0	0.00	100.00
178.0-179.0	0.7	0.0	218.0	0.00	100.00
179.0-180.0	0.7	0.0	218.0	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: