

Report No.:

Test Time: 2020/12/29 17:54

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: CHANNEL

Lamp Catalog: RIBBONLYTE

Number of Lamps: 1 ROW

Luminous Width (mm): 18.7

Voltage: 24.0 V

Power: 5.32 W

Luminaire Description: AS12

Lamp Description: RB90SWS2203.030

Luminous Length (mm): 500

Luminous Height (mm): 12

Current: 0.222 A

Power Factor: 1.000

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 340.4 lm

Downward Ratio: 88%

Horizontal Diffuse Angle(10%,50%): H159.2,H106.1

Vertical Diffuse Angle(10%,50%): V251.5,V136.3

Luminaire Efficacy Rating (LER): 64

Max. Intensity: 91.14 cd

Total Rated Lamp Lumens: 340.4 lm

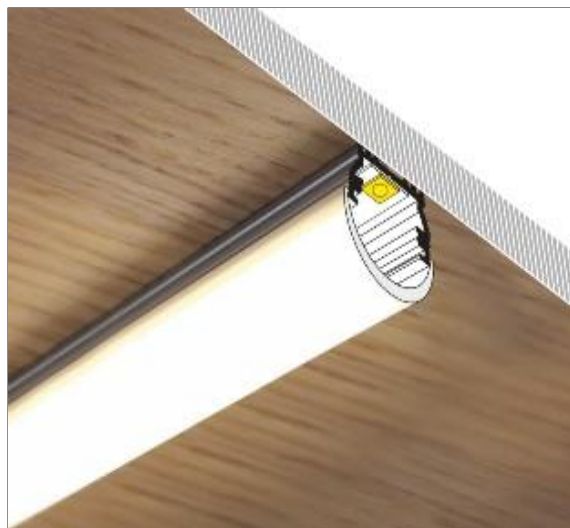
Efficiency: 100%

Upward Ratio: 12%

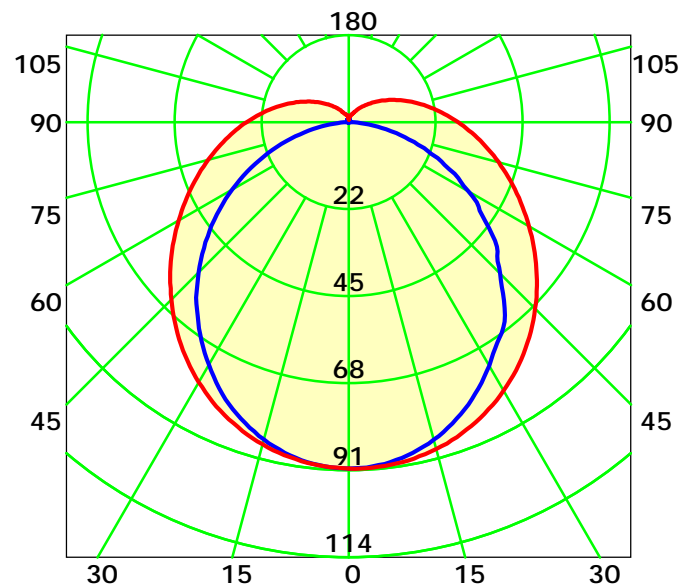
Central Intensity: 91.06 cd

Pos of Max. Intensity: H90 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 121.2° 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

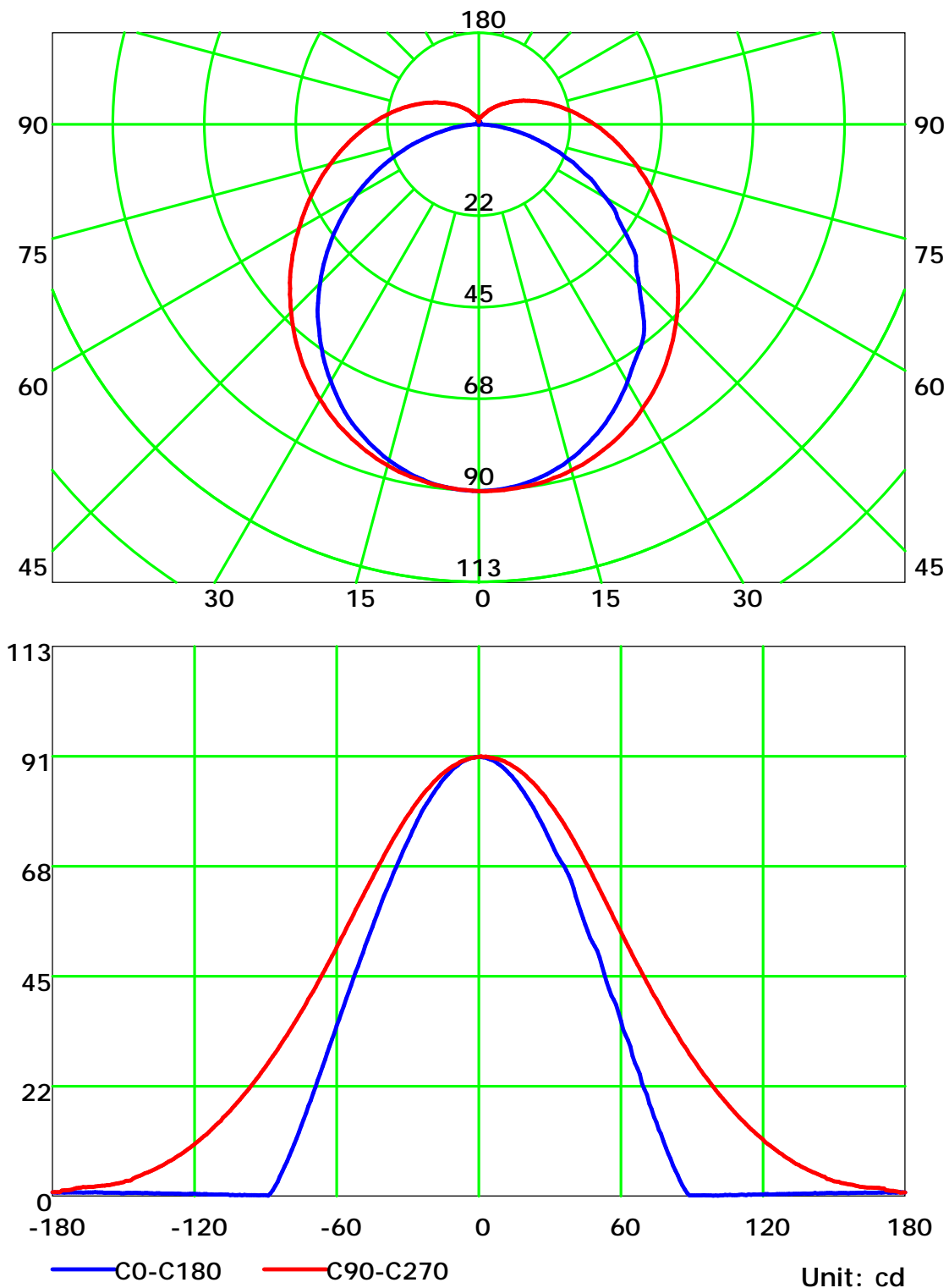
Test Device: GPM-1800B

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

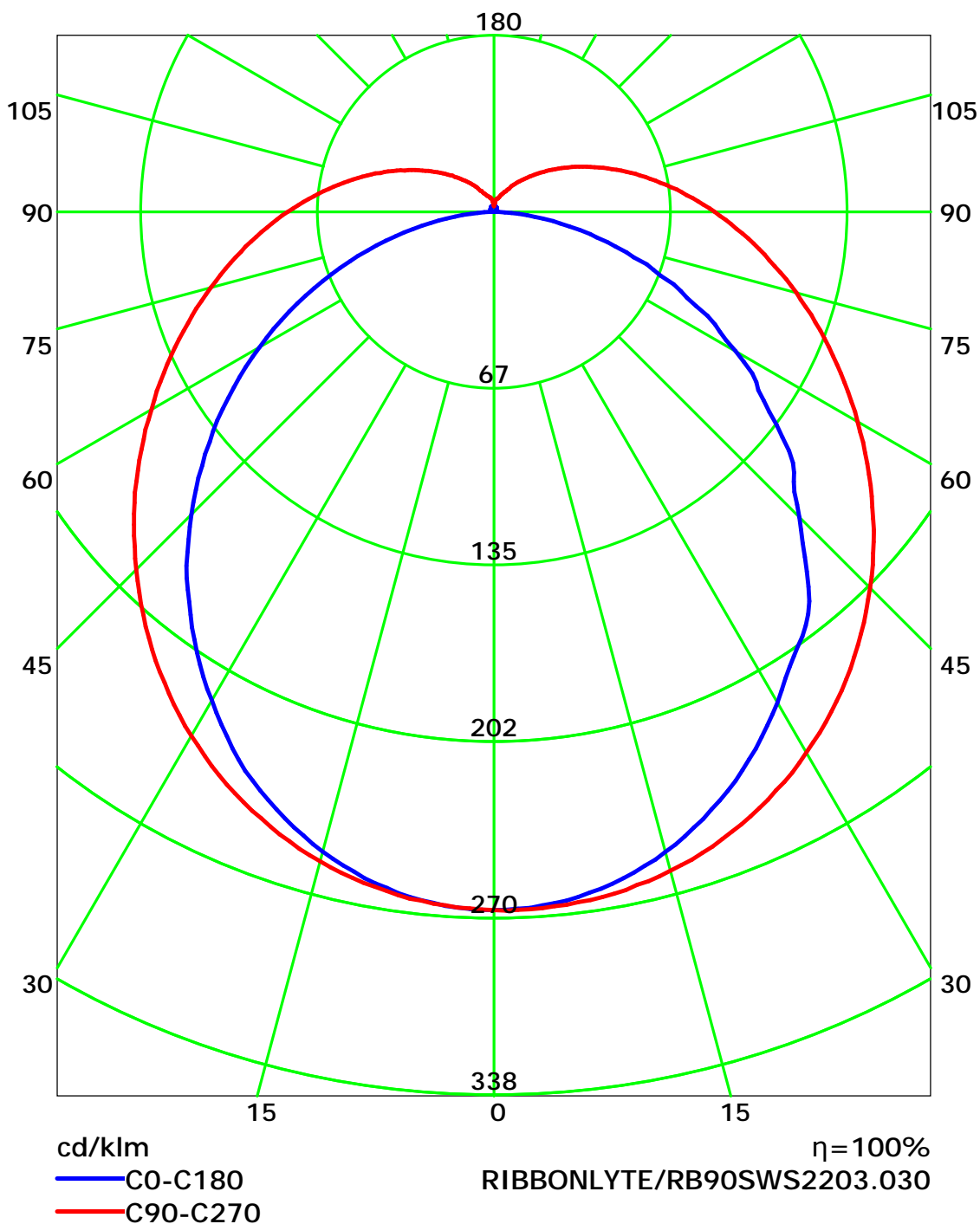
Test Device: GPM-1800B

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:

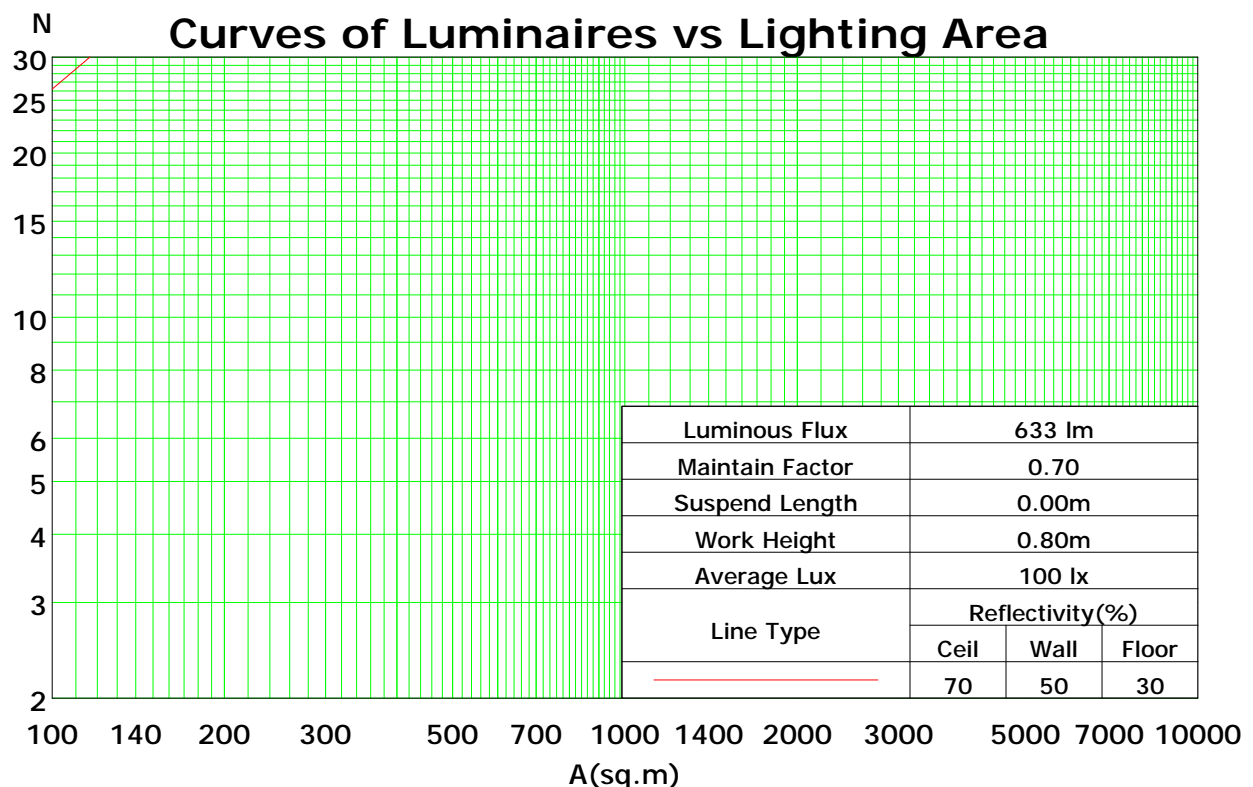
## Coefficients Of Utilization - Zonal Cavity Method

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	104	98	93	88	100	95	90	86	88	84	81	82	79	76	76	74	72	69
2	94	84	77	70	90	81	74	69	76	70	65	71	66	62	66	62	59	56
3	85	73	65	58	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	63	54	47	58	51	45	55	48	43	51	46	42	39
5	71	58	48	41	68	56	47	41	52	45	39	49	43	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	40	34	44	38	33	42	36	31	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	43	34	28	54	41	33	27	39	32	27	37	30	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	32	27	22	20
10	49	36	28	23	47	35	27	22	33	26	22	31	25	21	30	24	20	18

Spacing Criteria (0-180): 1.21

Spacing Criteria (90-270): 1.31

Spacing Criteria (Diagonal): 1.39



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

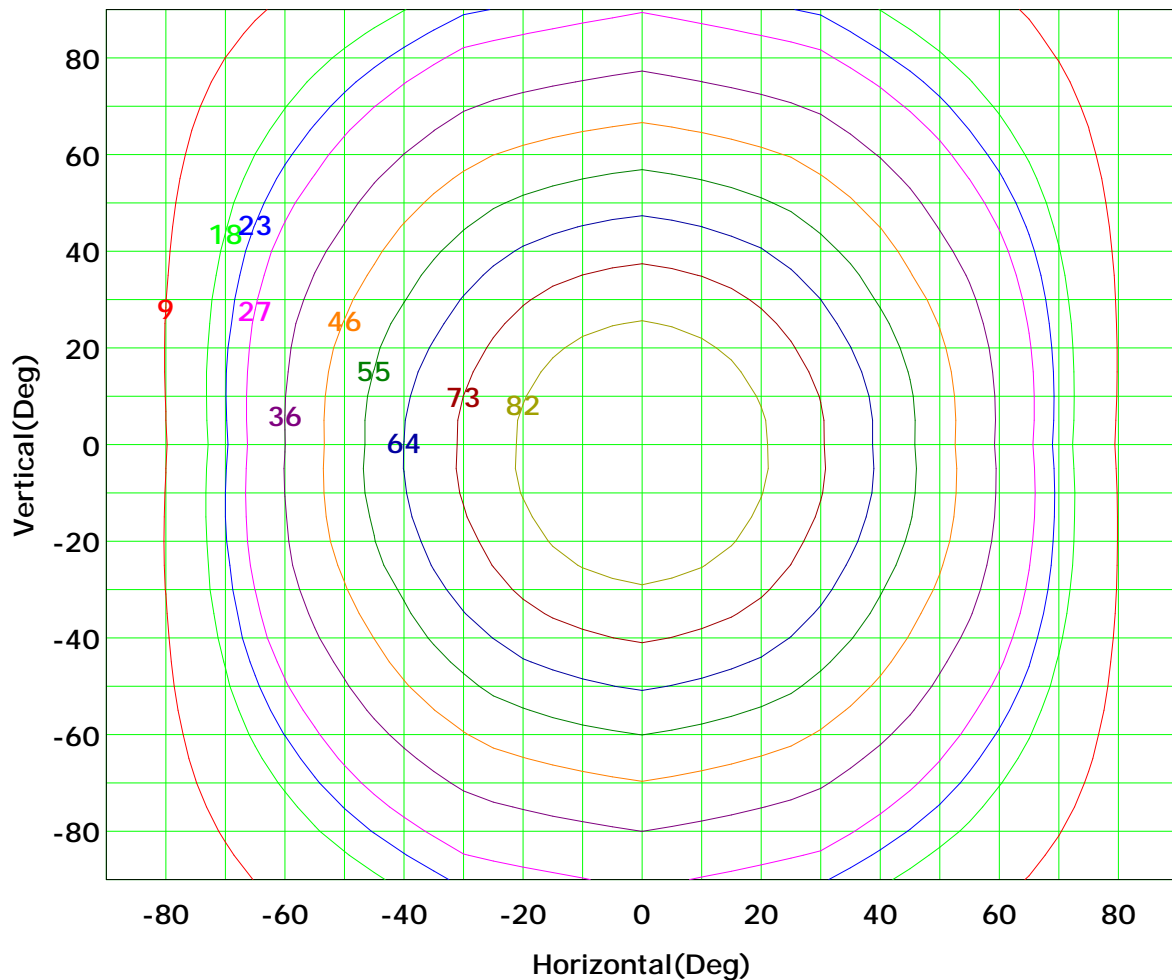
Distance: 9.028 m

Humidity: 60%

Inspector:



## Isocandela (rectangle)



Imax (100%): 91 cd

( 10%):	9 cd	( 20%):	18 cd
( 25%):	23 cd	( 30%):	27 cd
( 40%):	36 cd	( 50%):	46 cd
( 60%):	55 cd	( 70%):	64 cd
( 80%):	73 cd	( 90%):	82 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

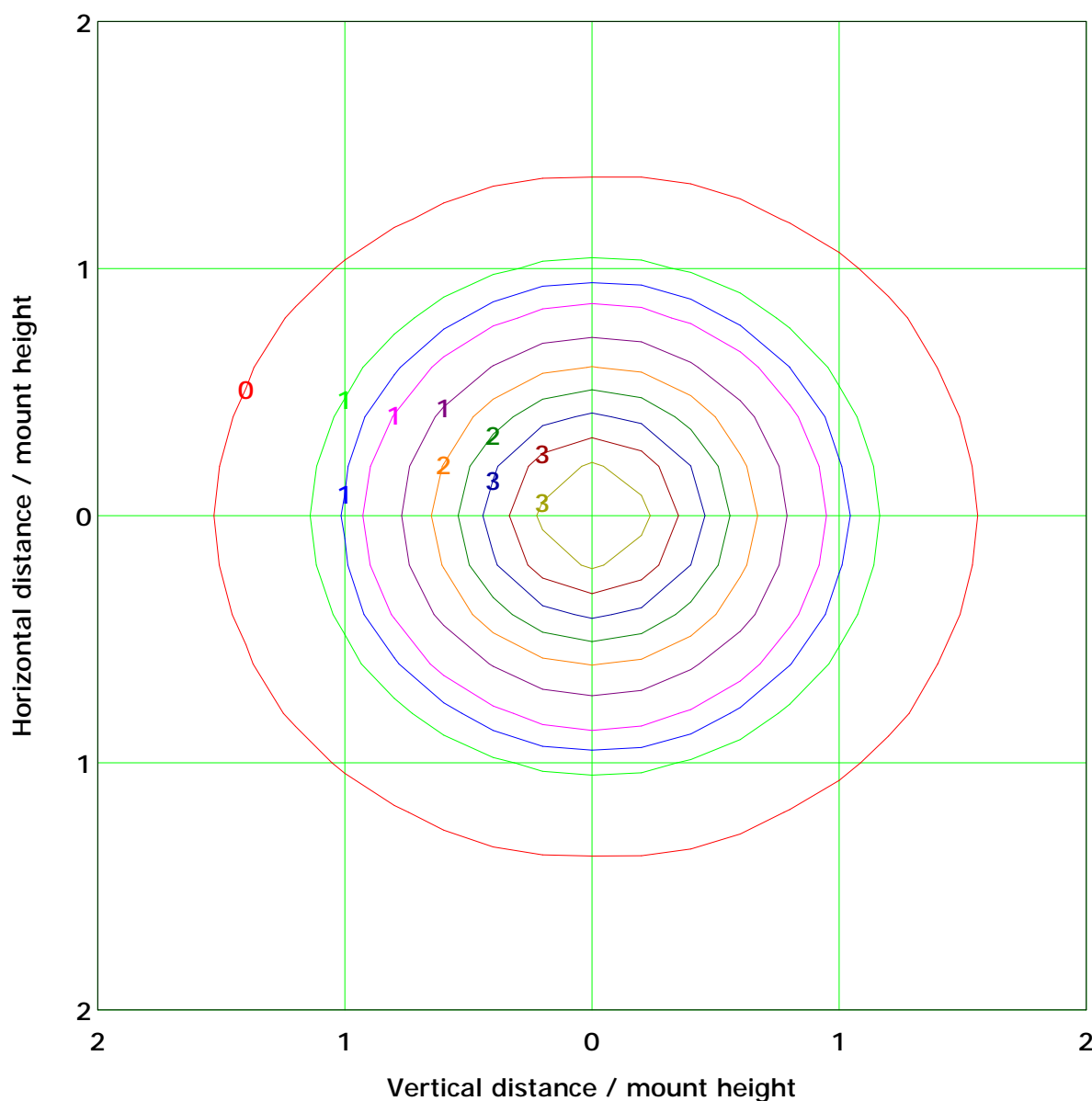
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 3.6 lx

( 10%): 0.4 lx	( 20%): 0.7 lx
( 25%): 0.9 lx	( 30%): 1.1 lx
( 40%): 1.5 lx	( 50%): 1.8 lx
( 60%): 2.2 lx	( 70%): 2.6 lx
( 80%): 2.9 lx	( 90%): 3.3 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

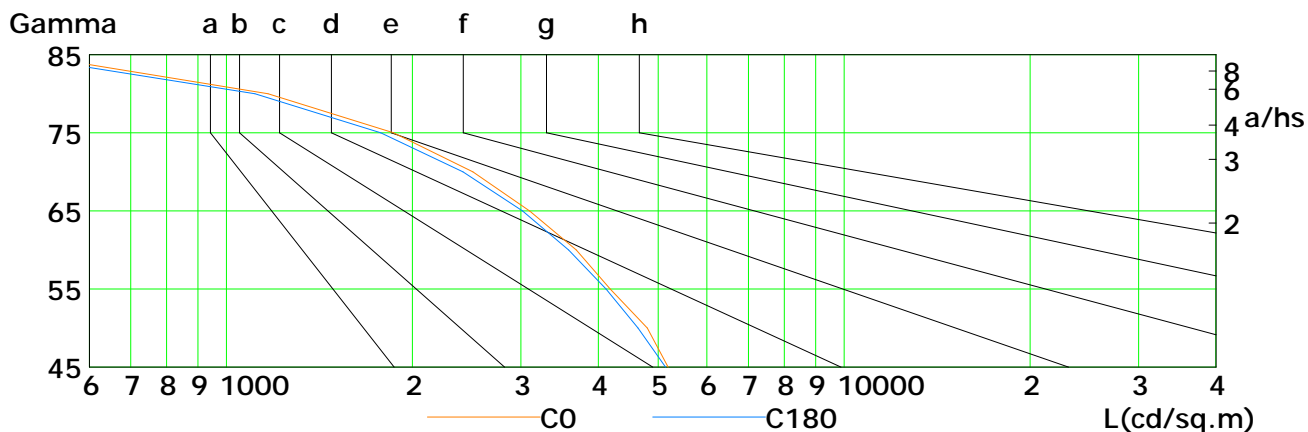
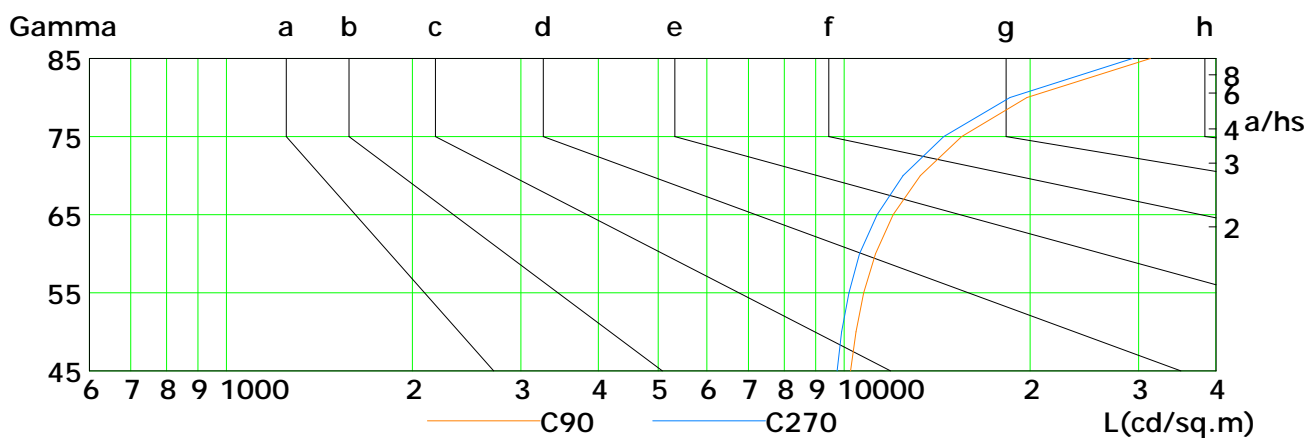
Humidity: 60%

Inspector:

## 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	5191	4801	4181	3684	3095	2507	1866	1168	481
C90	10242	10459	10765	11246	12015	13295	15500	19777	31325
C180	5142	4638	4117	3582	3015	2417	1777	1113	446
C270	9747	9914	10184	10595	11312	12459	14503	18551	29322

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

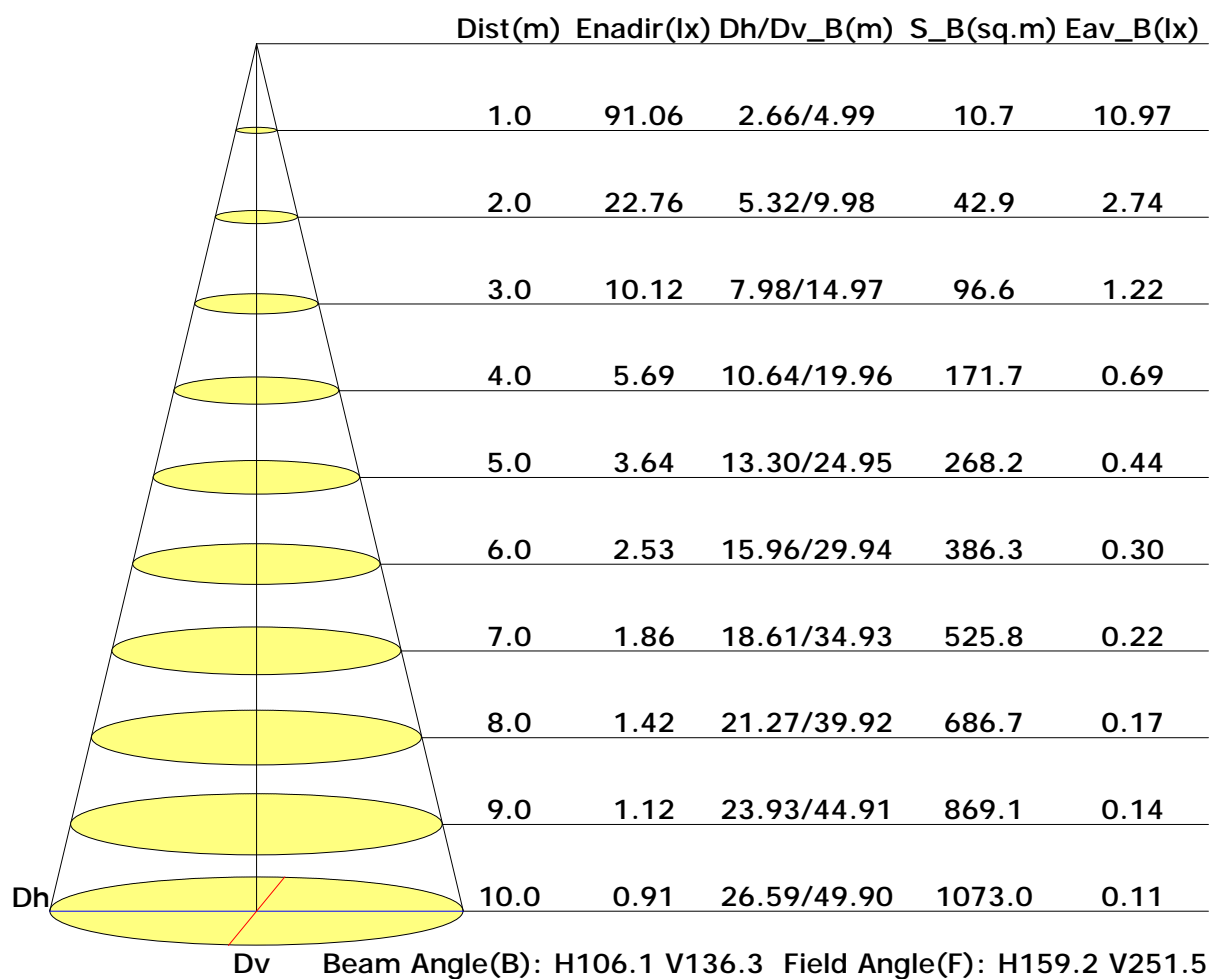
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Illuminance at a Distance



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

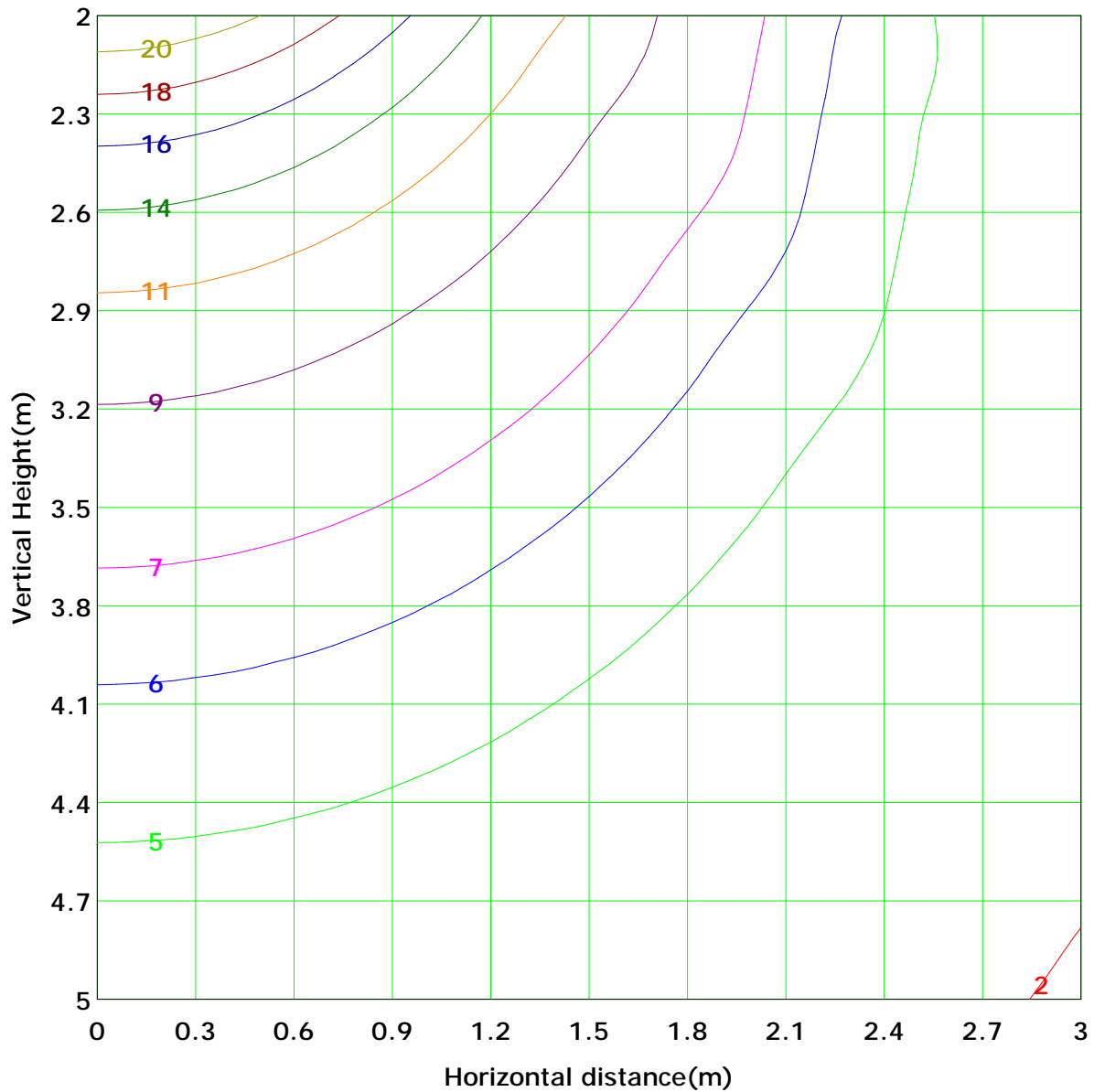
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 22.8 lx
( 10%): 2.3 lx	( 20%): 4.6 lx	
( 25%): 5.7 lx	( 30%): 6.8 lx	
( 40%): 9.1 lx	( 50%): 11.4 lx	
( 60%): 13.7 lx	( 70%): 15.9 lx	
( 80%): 18.2 lx	( 90%): 20.5 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(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0
	-80	1.5	1.7	0.1	5.0	0.1	5.0	0.1	5.0	0.1	5.0	0.1	5.0	0.1	5.0	0.1	5.0	0.1	5.0	0.1
	-70	4.9	5.0	0.3	9.7	0.3	9.7	0.3	9.7	0.3	9.7	0.3	9.7	0.3	9.7	0.3	9.7	0.3	9.7	0.3
	-60	9.7	9.7	0.4	15.6	0.4	15.6	0.4	15.6	0.4	15.6	0.4	15.6	0.4	15.6	0.4	15.6	0.4	15.6	0.4
	-50	15.6	15.6	0.5	21.9	0.5	21.9	0.5	21.9	0.5	21.9	0.5	21.9	0.5	21.9	0.5	21.9	0.5	21.9	0.5
	-40	21.9	21.9	0.6	27.8	0.6	27.8	0.6	27.8	0.6	27.8	0.6	27.8	0.6	27.8	0.6	27.8	0.6	27.8	0.6
	-30	27.8	27.8	0.7	32.3	0.7	32.3	0.7	32.3	0.7	32.3	0.7	32.3	0.7	32.3	0.7	32.3	0.7	32.3	0.7
	-20	32.3	32.3	0.8	34.9	0.8	34.9	0.8	34.9	0.8	34.9	0.8	34.9	0.8	34.9	0.8	34.9	0.8	34.9	0.8
	-10	34.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9
	0	34.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9	34.9	0.9
	10	34.9	34.9	0.8	32.4	0.8	32.4	0.8	32.4	0.8	32.4	0.8	32.4	0.8	32.4	0.8	32.4	0.8	32.4	0.8
	20	32.4	32.4	0.7	28.0	0.7	28.0	0.7	28.0	0.7	28.0	0.7	28.0	0.7	28.0	0.7	28.0	0.7	28.0	0.7
	30	28.0	28.0	0.6	22.2	0.6	22.2	0.6	22.2	0.6	22.2	0.6	22.2	0.6	22.2	0.6	22.2	0.6	22.2	0.6
	40	22.2	22.2	0.4	15.8	0.4	15.8	0.4	15.8	0.4	15.8	0.4	15.8	0.4	15.8	0.4	15.8	0.4	15.8	0.4
	50	15.8	15.8	0.3	9.9	0.3	9.9	0.3	9.9	0.3	9.9	0.3	9.9	0.3	9.9	0.3	9.9	0.3	9.9	0.3
	60	9.9	9.9	0.1	5.1	0.1	5.1	0.1	5.1	0.1	5.1	0.1	5.1	0.1	5.1	0.1	5.1	0.1	5.1	0.1
	70	5.1	5.1	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0	1.5	0.0
	80	1.5	1.8	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
	90	0.0	0.2	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
		Flux(T)Flux(E)																		
		298																		

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

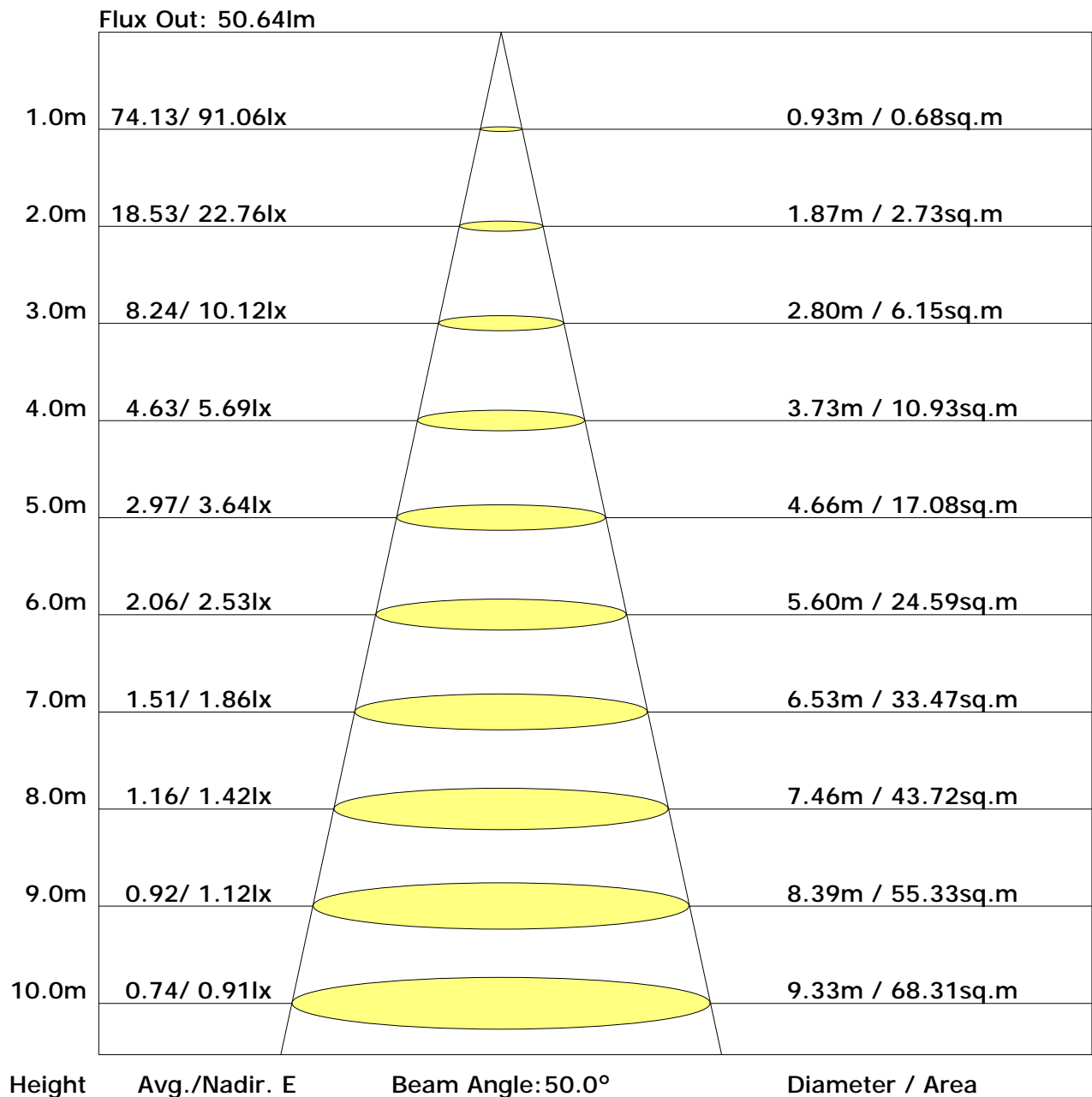
Distance: 9.028 m

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	20.8	22.3	21.3	22.8	23.4	21.3	22.7	21.8	23.3	23.9
3H	22.6	23.9	23.2	24.5	25.1	23.5	24.8	24.1	25.4	26.0
4H	23.3	24.5	23.8	25.1	25.7	24.5	25.8	25.1	26.4	27.0
6H	23.8	24.9	24.4	25.5	26.2	25.5	26.7	26.1	27.3	27.9
8H	23.9	25.0	24.5	25.6	26.3	26.0	27.1	26.6	27.7	28.4
12H	24.0	25.1	24.6	25.7	26.4	26.4	27.5	27.1	28.1	28.8
X=4H Y=2H	21.5	22.7	22.0	23.3	23.9	21.9	23.1	22.4	23.7	24.3
3H	23.5	24.6	24.1	25.2	25.8	24.4	25.4	24.9	26.0	26.7
4H	24.3	25.3	24.9	25.9	26.6	25.6	26.6	26.2	27.2	27.9
6H	24.9	25.8	25.6	26.5	27.2	26.7	27.6	27.4	28.3	29.0
8H	25.2	26.0	25.8	26.6	27.4	27.3	28.1	27.9	28.8	29.5
12H	25.3	26.1	26.0	26.7	27.5	27.8	28.6	28.5	29.3	30.0
X=8H Y=4H	24.8	25.6	25.4	26.3	27.0	25.9	26.7	26.5	27.4	28.1
6H	25.6	26.3	26.3	27.0	27.7	27.3	28.0	27.9	28.7	29.4
8H	26.0	26.6	26.6	27.3	28.0	28.0	28.6	28.7	29.3	30.1
12H	26.2	26.8	26.9	27.5	28.3	28.7	29.3	29.4	30.0	30.8
X=12H Y=4H	24.9	25.7	25.6	26.3	27.0	25.9	26.7	26.6	27.3	28.1
6H	25.8	26.5	26.5	27.1	27.9	27.4	28.0	28.1	28.7	29.5
8H	26.3	26.8	26.9	27.5	28.3	28.2	28.7	28.8	29.4	30.2

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	0.50	0.60	0.66	0.72	0.79	0.84	0.88	0.92	0.96
	0.30		0.42	0.51	0.58	0.64	0.72	0.78	0.82	0.87	0.91
	0.20		0.36	0.45	0.52	0.58	0.66	0.72	0.77	0.83	0.87
0.50	0.50	0.20	0.47	0.56	0.62	0.67	0.74	0.78	0.82	0.86	0.89
	0.30		0.40	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.86
	0.20		0.35	0.44	0.50	0.55	0.63	0.69	0.73	0.79	0.82
0.30	0.50	0.20	0.45	0.53	0.59	0.63	0.69	0.73	0.76	0.81	0.83
	0.30		0.38	0.47	0.53	0.58	0.64	0.69	0.72	0.77	0.80
	0.20		0.34	0.42	0.48	0.53	0.60	0.65	0.69	0.74	0.78
0.00	0.00	0.00	0.30	0.38	0.44	0.48	0.55	0.59	0.63	0.67	0.70
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	1.03	0.87	0.76	0.67	0.55	0.46	0.40	0.32	0.27	
	0.30		0.86	0.75	0.66	0.59	0.49	0.43	0.37	0.30	0.26	
	0.20		0.74	0.65	0.58	0.53	0.45	0.39	0.35	0.29	0.24	
0.50	0.50	0.20	0.97	0.82	0.71	0.63	0.51	0.46	0.38	0.30	0.25	
	0.30		0.82	0.71	0.63	0.56	0.47	0.40	0.35	0.29	0.24	
	0.20		0.71	0.63	0.56	0.51	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.92	0.77	0.67	0.59	0.48	0.41	0.36	0.28	0.24	
	0.30		0.79	0.68	0.60	0.53	0.44	0.38	0.33	0.27	0.23	
	0.20		0.69	0.60	0.54	0.49	0.41	0.36	0.32	0.26	0.22	
0.00	0.00	0.00	0.58	0.50	0.44	0.40	0.33	0.29	0.25	0.21	0.18	
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	0.28	0.30	0.30	0.31	0.32	0.32	0.33	0.33	0.34
	0.30		0.21	0.23	0.24	0.25	0.26	0.28	0.28	0.30	0.30
	0.20		0.16	0.18	0.19	0.20	0.22	0.23	0.25	0.26	0.27
0.50	0.50	0.20	0.27	0.28	0.29	0.30	0.31	0.31	0.31	0.32	0.32
	0.30		0.21	0.22	0.23	0.24	0.26	0.27	0.27	0.29	0.29
	0.20		0.16	0.17	0.19	0.20	0.21	0.23	0.24	0.25	0.27
0.30	0.50	0.20	0.26	0.28	0.28	0.29	0.30	0.30	0.30	0.31	0.31
	0.30		0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.28
	0.20		0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.26
0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
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	91.1	0.1	0.1	0.03	0.03
1.0-2.0	91.0	0.3	0.3	0.08	0.10
2.0-3.0	90.9	0.4	0.8	0.13	0.23
3.0-4.0	90.8	0.6	1.4	0.18	0.41
4.0-5.0	90.7	0.8	2.2	0.23	0.64
5.0-6.0	90.5	1.0	3.1	0.28	0.92
6.0-7.0	90.3	1.1	4.2	0.33	1.25
7.0-8.0	90.1	1.3	5.5	0.38	1.63
8.0-9.0	89.8	1.5	7.0	0.43	2.05
9.0-10.0	89.6	1.6	8.6	0.48	2.53
10.0-11.0	89.2	1.8	10.4	0.52	3.05
11.0-12.0	88.9	1.9	12.3	0.57	3.62
12.0-13.0	88.5	2.1	14.4	0.62	4.24
13.0-14.0	88.0	2.3	16.7	0.66	4.90
14.0-15.0	87.6	2.4	19.1	0.71	5.61
15.0-16.0	87.1	2.6	21.6	0.75	6.36
16.0-17.0	86.6	2.7	24.3	0.79	7.15
17.0-18.0	86.1	2.8	27.2	0.83	7.99
18.0-19.0	85.5	3.0	30.2	0.87	8.86
19.0-20.0	84.9	3.1	33.3	0.91	9.77
20.0-21.0	84.2	3.2	36.5	0.95	10.72
21.0-22.0	83.6	3.4	39.9	0.99	11.71
22.0-23.0	82.9	3.5	43.3	1.02	12.73
23.0-24.0	82.2	3.6	46.9	1.06	13.79
24.0-25.0	81.5	3.7	50.6	1.09	14.88
25.0-26.0	80.7	3.8	54.4	1.12	15.99
26.0-27.0	79.9	3.9	58.4	1.15	17.14
27.0-28.0	79.1	4.0	62.4	1.18	18.32
28.0-29.0	78.2	4.1	66.5	1.20	19.52
29.0-30.0	77.4	4.2	70.6	1.23	20.75
30.0-31.0	76.5	4.3	74.9	1.25	22.00
31.0-32.0	75.6	4.3	79.2	1.27	23.27
32.0-33.0	74.7	4.4	83.6	1.29	24.57
33.0-34.0	73.8	4.5	88.1	1.31	25.88
34.0-35.0	72.8	4.5	92.6	1.33	27.21
35.0-36.0	71.9	4.6	97.2	1.34	28.55

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	70.9	4.6	101.8	1.36	29.91
37.0-38.0	69.9	4.7	106.5	1.37	31.28
38.0-39.0	68.9	4.7	111.2	1.38	32.66
39.0-40.0	67.9	4.7	115.9	1.39	34.06
40.0-41.0	66.8	4.8	120.7	1.40	35.45
41.0-42.0	65.8	4.8	125.5	1.40	36.86
42.0-43.0	64.7	4.8	130.3	1.41	38.27
43.0-44.0	63.5	4.8	135.1	1.41	39.67
44.0-45.0	62.4	4.8	139.9	1.41	41.08
45.0-46.0	61.3	4.8	144.6	1.41	42.49
46.0-47.0	60.2	4.8	149.4	1.41	43.90
47.0-48.0	59.0	4.8	154.2	1.40	45.30
48.0-49.0	57.9	4.8	159.0	1.40	46.70
49.0-50.0	56.8	4.7	163.7	1.39	48.09
50.0-51.0	55.7	4.7	168.4	1.39	49.48
51.0-52.0	54.6	4.7	173.1	1.38	50.85
52.0-53.0	53.4	4.6	177.7	1.36	52.22
53.0-54.0	52.2	4.6	182.4	1.35	53.57
54.0-55.0	51.1	4.6	186.9	1.34	54.91
55.0-56.0	49.9	4.5	191.4	1.33	56.23
56.0-57.0	48.8	4.5	195.9	1.31	57.54
57.0-58.0	47.7	4.4	200.3	1.30	58.84
58.0-59.0	46.5	4.4	204.6	1.28	60.12
59.0-60.0	45.4	4.3	208.9	1.26	61.38
60.0-61.0	44.2	4.2	213.2	1.24	62.62
61.0-62.0	43.1	4.2	217.3	1.22	63.84
62.0-63.0	42.0	4.1	221.4	1.20	65.04
63.0-64.0	40.9	4.0	225.4	1.18	66.22
64.0-65.0	39.7	3.9	229.3	1.16	67.37
65.0-66.0	38.6	3.9	233.2	1.13	68.50
66.0-67.0	37.5	3.8	237.0	1.11	69.61
67.0-68.0	36.5	3.7	240.7	1.09	70.70
68.0-69.0	35.4	3.6	244.3	1.06	71.76
69.0-70.0	34.3	3.5	247.8	1.04	72.79
70.0-71.0	33.3	3.4	251.2	1.01	73.80
71.0-72.0	32.2	3.4	254.6	0.98	74.79

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	31.2	3.3	257.8	0.96	75.74
73.0-74.0	30.1	3.2	261.0	0.93	76.68
74.0-75.0	29.1	3.1	264.1	0.90	77.58
75.0-76.0	28.2	3.0	267.1	0.88	78.46
76.0-77.0	27.2	2.9	270.0	0.85	79.31
77.0-78.0	26.2	2.8	272.8	0.83	80.14
78.0-79.0	25.3	2.7	275.5	0.80	80.93
79.0-80.0	24.4	2.6	278.1	0.77	81.71
80.0-81.0	23.4	2.5	280.7	0.74	82.45
81.0-82.0	22.5	2.4	283.1	0.72	83.17
82.0-83.0	21.7	2.4	285.5	0.69	83.86
83.0-84.0	20.8	2.3	287.7	0.67	84.53
84.0-85.0	20.0	2.2	289.9	0.64	85.17
85.0-86.0	19.1	2.1	292.0	0.61	85.78
86.0-87.0	18.3	2.0	294.0	0.59	86.37
87.0-88.0	17.5	1.9	295.9	0.56	86.93
88.0-89.0	16.8	1.8	297.8	0.54	87.47
89.0-90.0	16.1	1.8	299.5	0.52	87.99
90.0-91.0	15.5	1.7	301.2	0.50	88.49
91.0-92.0	14.9	1.6	302.9	0.48	88.97
92.0-93.0	14.4	1.6	304.4	0.46	89.43
93.0-94.0	13.9	1.5	306.0	0.45	89.88
94.0-95.0	13.5	1.5	307.4	0.43	90.31
95.0-96.0	13.0	1.4	308.9	0.42	90.73
96.0-97.0	12.6	1.4	310.2	0.40	91.13
97.0-98.0	12.2	1.3	311.5	0.39	91.52
98.0-99.0	11.8	1.3	312.8	0.37	91.90
99.0-100.0	11.4	1.2	314.0	0.36	92.26
100.0-101.0	11.0	1.2	315.2	0.35	92.60
101.0-102.0	10.6	1.1	316.4	0.34	92.94
102.0-103.0	10.3	1.1	317.5	0.32	93.26
103.0-104.0	9.9	1.1	318.5	0.31	93.57
104.0-105.0	9.6	1.0	319.6	0.30	93.87
105.0-106.0	9.3	1.0	320.5	0.29	94.16
106.0-107.0	9.0	0.9	321.5	0.28	94.44
107.0-108.0	8.7	0.9	322.4	0.27	94.70

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	8.4	0.9	323.3	0.26	94.96
109.0-110.0	8.1	0.8	324.1	0.25	95.21
110.0-111.0	7.8	0.8	324.9	0.24	95.44
111.0-112.0	7.6	0.8	325.7	0.23	95.67
112.0-113.0	7.3	0.7	326.4	0.22	95.89
113.0-114.0	7.0	0.7	327.1	0.21	96.09
114.0-115.0	6.8	0.7	327.8	0.20	96.29
115.0-116.0	6.6	0.7	328.4	0.19	96.48
116.0-117.0	6.4	0.6	329.1	0.18	96.67
117.0-118.0	6.1	0.6	329.7	0.18	96.84
118.0-119.0	5.9	0.6	330.2	0.17	97.01
119.0-120.0	5.7	0.5	330.8	0.16	97.17
120.0-121.0	5.5	0.5	331.3	0.15	97.32
121.0-122.0	5.3	0.5	331.8	0.15	97.47
122.0-123.0	5.1	0.5	332.3	0.14	97.61
123.0-124.0	5.0	0.5	332.7	0.13	97.74
124.0-125.0	4.8	0.4	333.2	0.13	97.87
125.0-126.0	4.6	0.4	333.6	0.12	97.99
126.0-127.0	4.5	0.4	334.0	0.12	98.11
127.0-128.0	4.3	0.4	334.3	0.11	98.22
128.0-129.0	4.2	0.4	334.7	0.10	98.32
129.0-130.0	4.0	0.3	335.0	0.10	98.42
130.0-131.0	3.8	0.3	335.4	0.09	98.52
131.0-132.0	3.7	0.3	335.7	0.09	98.60
132.0-133.0	3.6	0.3	335.9	0.08	98.69
133.0-134.0	3.4	0.3	336.2	0.08	98.77
134.0-135.0	3.3	0.3	336.5	0.08	98.85
135.0-136.0	3.2	0.2	336.7	0.07	98.92
136.0-137.0	3.1	0.2	337.0	0.07	98.99
137.0-138.0	3.0	0.2	337.2	0.07	99.05
138.0-139.0	2.9	0.2	337.4	0.06	99.12
139.0-140.0	2.8	0.2	337.6	0.06	99.17
140.0-141.0	2.7	0.2	337.8	0.06	99.23
141.0-142.0	2.6	0.2	338.0	0.05	99.28
142.0-143.0	2.5	0.2	338.1	0.05	99.33
143.0-144.0	2.4	0.2	338.3	0.05	99.38

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	2.4	0.2	338.4	0.04	99.42
145.0-146.0	2.3	0.1	338.6	0.04	99.47
146.0-147.0	2.2	0.1	338.7	0.04	99.50
147.0-148.0	2.1	0.1	338.8	0.04	99.54
148.0-149.0	2.1	0.1	339.0	0.03	99.58
149.0-150.0	2.0	0.1	339.1	0.03	99.61
150.0-151.0	1.9	0.1	339.2	0.03	99.64
151.0-152.0	1.9	0.1	339.3	0.03	99.67
152.0-153.0	1.9	0.1	339.4	0.03	99.70
153.0-154.0	1.8	0.1	339.5	0.03	99.72
154.0-155.0	1.8	0.1	339.6	0.02	99.75
155.0-156.0	1.7	0.1	339.6	0.02	99.77
156.0-157.0	1.7	0.1	339.7	0.02	99.79
157.0-158.0	1.7	0.1	339.8	0.02	99.81
158.0-159.0	1.6	0.1	339.8	0.02	99.83
159.0-160.0	1.6	0.1	339.9	0.02	99.85
160.0-161.0	1.6	0.1	340.0	0.02	99.87
161.0-162.0	1.6	0.1	340.0	0.02	99.88
162.0-163.0	1.5	0.0	340.1	0.01	99.90
163.0-164.0	1.5	0.0	340.1	0.01	99.91
164.0-165.0	1.4	0.0	340.2	0.01	99.92
165.0-166.0	1.4	0.0	340.2	0.01	99.93
166.0-167.0	1.3	0.0	340.2	0.01	99.94
167.0-168.0	1.3	0.0	340.3	0.01	99.95
168.0-169.0	1.3	0.0	340.3	0.01	99.96
169.0-170.0	1.3	0.0	340.3	0.01	99.97
170.0-171.0	1.2	0.0	340.3	0.01	99.98
171.0-172.0	1.2	0.0	340.3	0.01	99.98
172.0-173.0	1.1	0.0	340.4	0.00	99.99
173.0-174.0	1.1	0.0	340.4	0.00	99.99
174.0-175.0	1.0	0.0	340.4	0.00	99.99
175.0-176.0	1.0	0.0	340.4	0.00	100.00
176.0-177.0	0.9	0.0	340.4	0.00	100.00
177.0-178.0	0.8	0.0	340.4	0.00	100.00
178.0-179.0	0.8	0.0	340.4	0.00	100.00
179.0-180.0	0.8	0.0	340.4	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: