

Report No.:

Test Time: 2021/1/25 12:22

## Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Lamp Catalog: RIBBONLYTE

Number of Lamps: 2 ROWS

Luminous Width (mm): 38

Voltage: 24.0 V

Power: 10.44 W

Luminaire Description: AW38

Lamp Description: RB90SWS2203.030

Luminous Length (mm): 500

Luminous Height (mm): 31.8

Current: 0.435 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 333.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H160.5,H111.6

Vertical Diffuse Angle(10%,50%): V162.7,V111.6

Luminaire Efficacy Rating (LER): 32

Max. Intensity: 117.16 cd

Total Rated Lamp Lumens: 333.9 lm

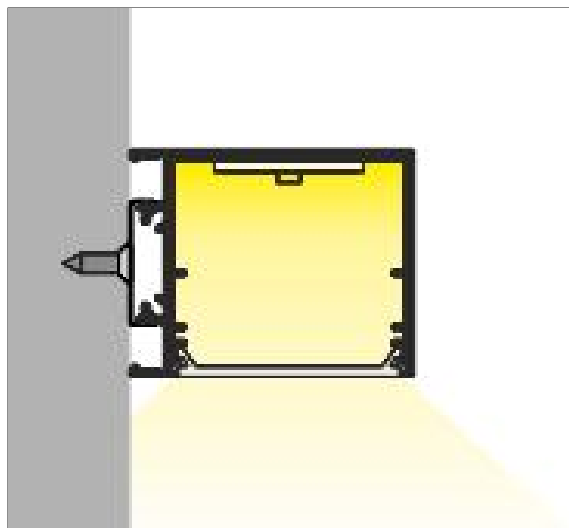
Efficiency: 100%

Upward Ratio: 1%

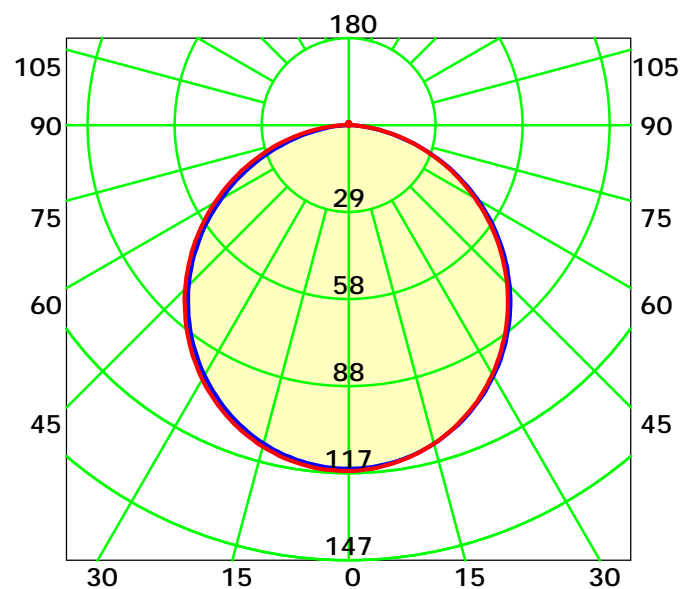
Central Intensity: 116.03 cd

Pos of Max. Intensity: H330 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 111.6° 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

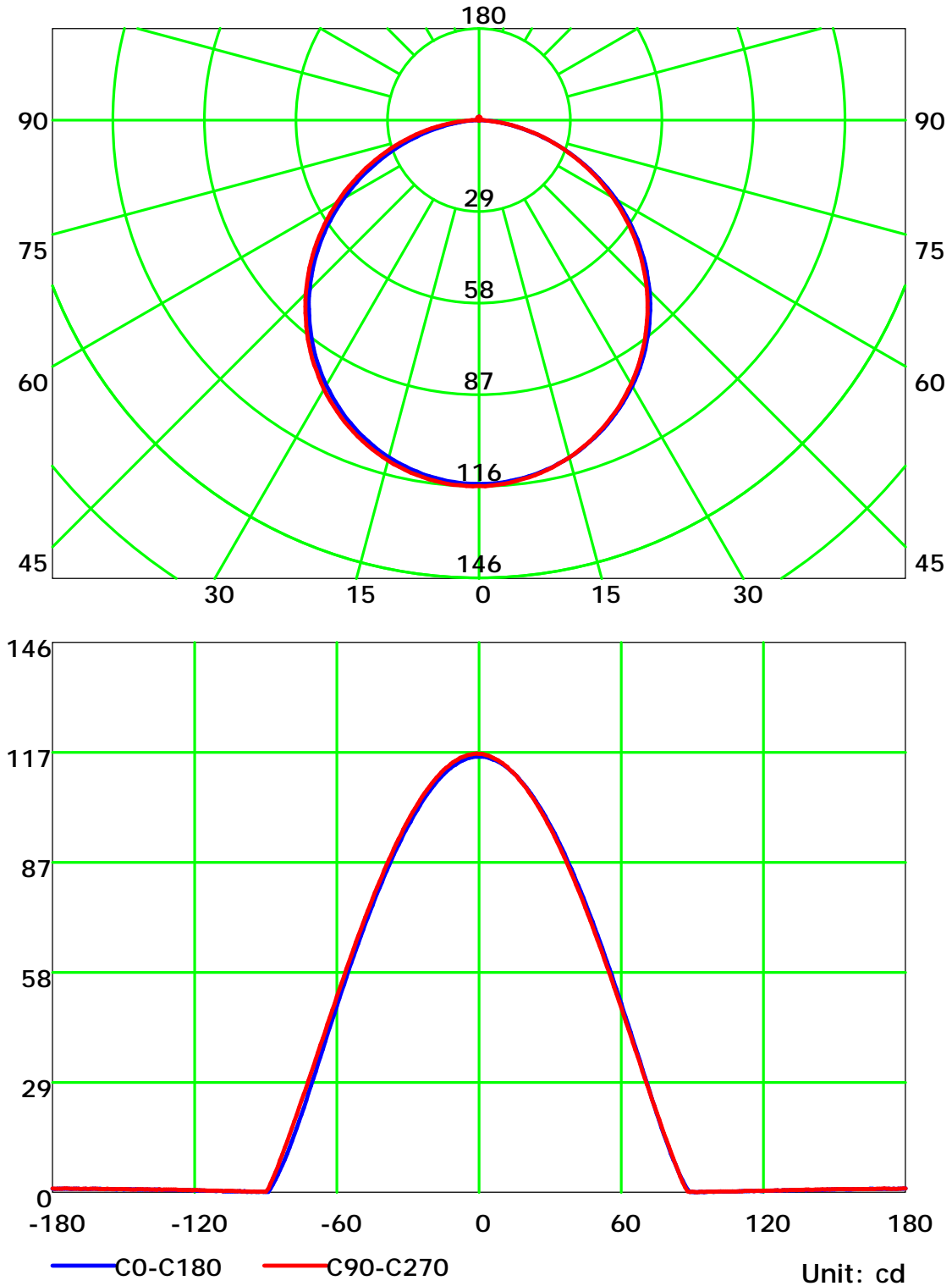
Distance: 9.028 m

Humidity: 60%

Inspector:



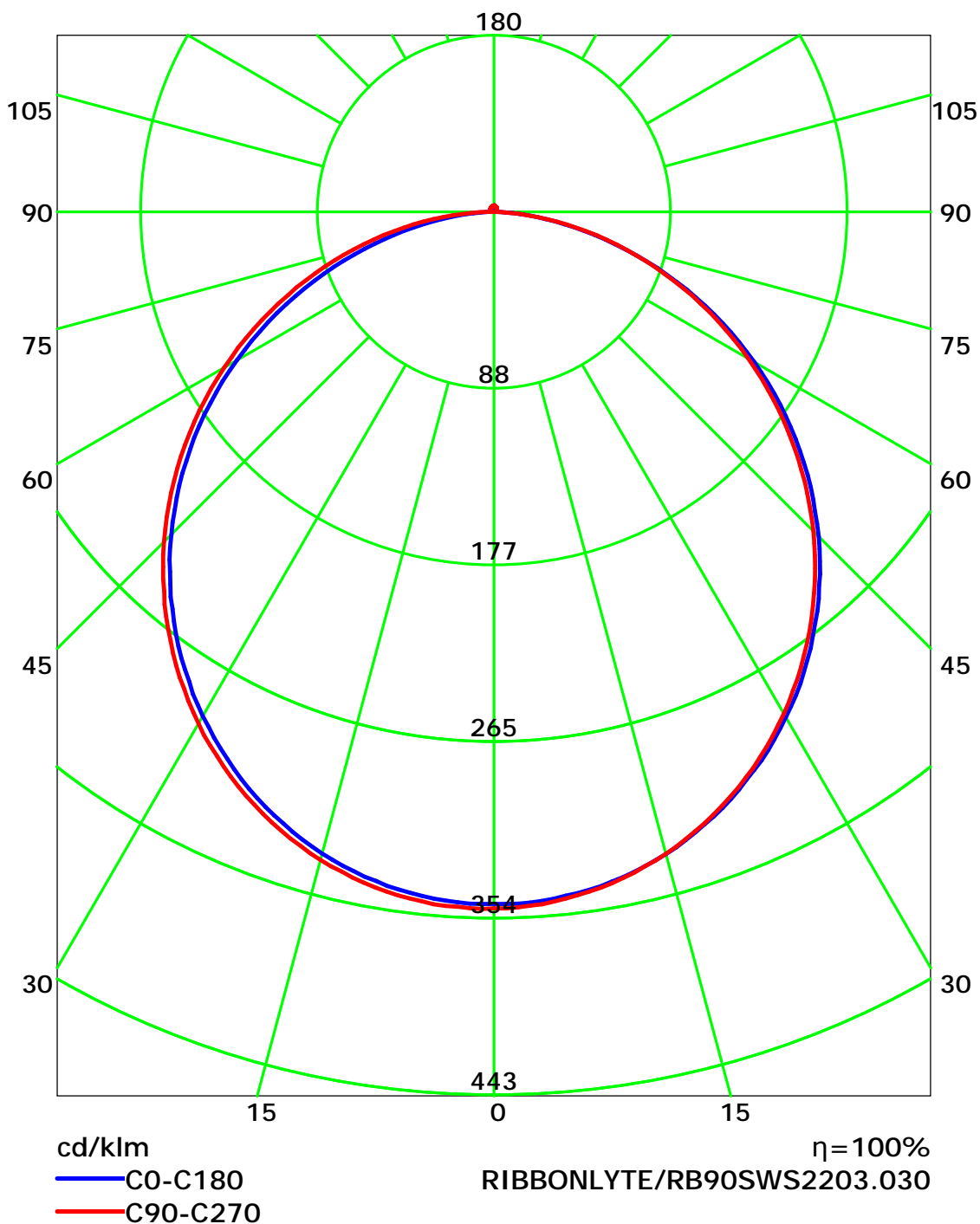
## Luminous Intensity Distribution Curve



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:

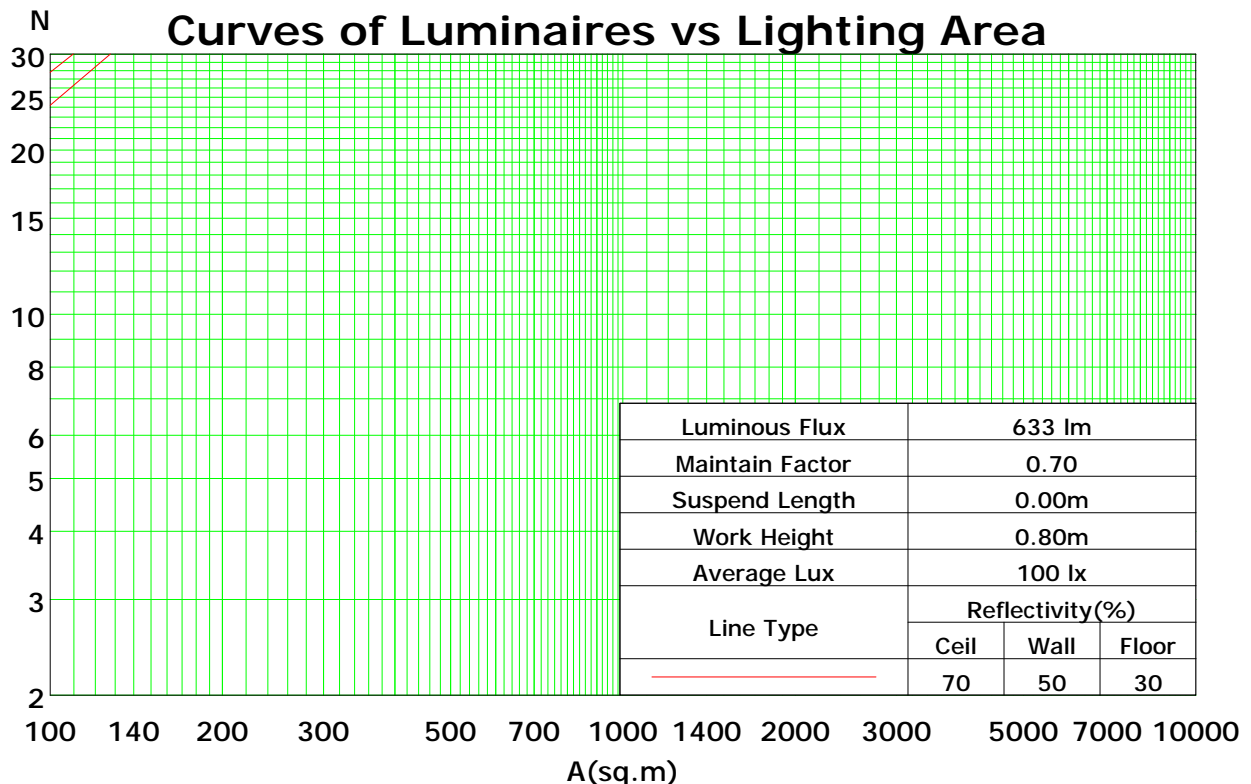
## Coefficients Of Utilization - Zonal Cavity Method

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	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	61	55	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.25

Spacing Criteria (Diagonal): 1.37



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

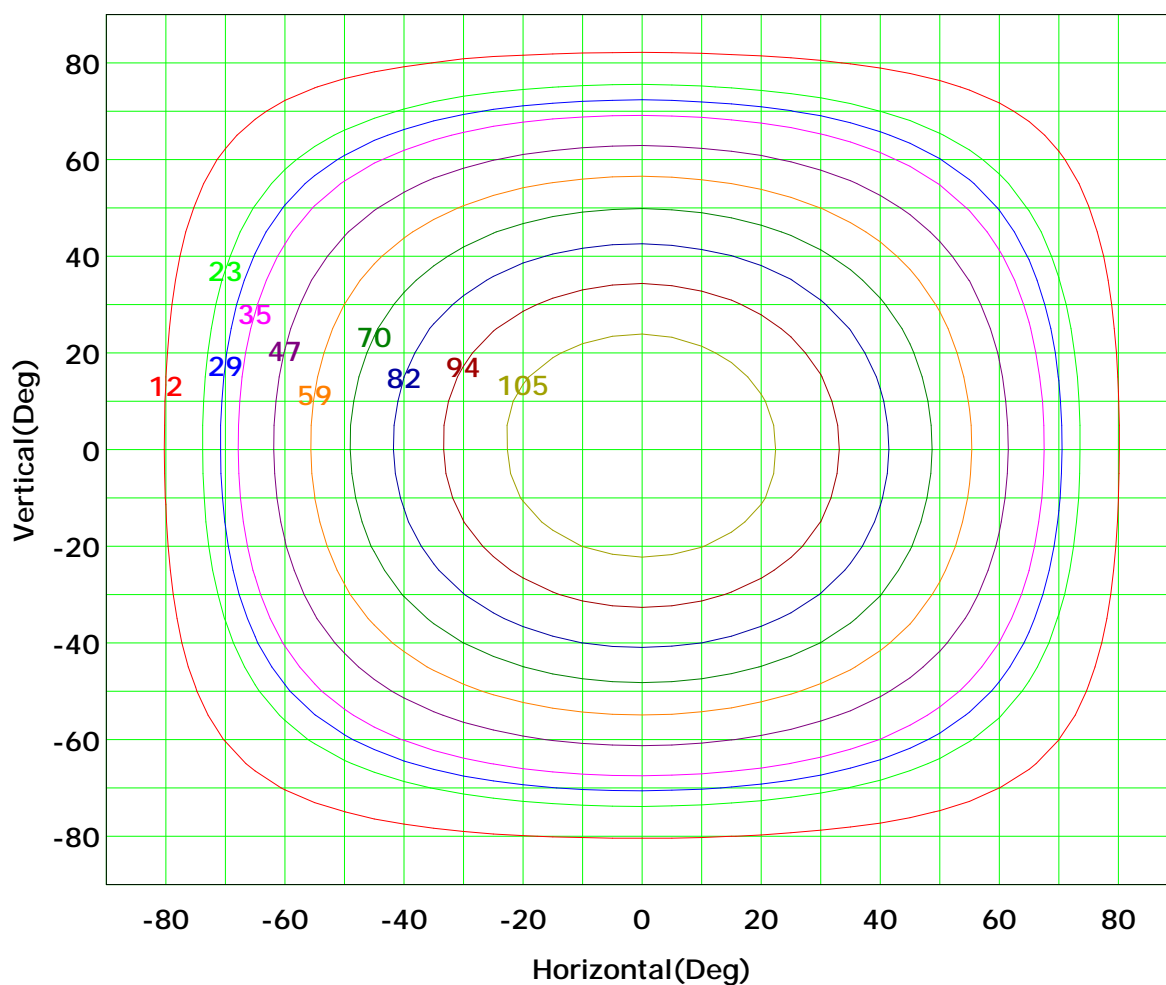
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



Imax (100%): 117 cd

( 10%):	12 cd	( 20%):	23 cd
( 25%):	29 cd	( 30%):	35 cd
( 40%):	47 cd	( 50%):	59 cd
( 60%):	70 cd	( 70%):	82 cd
( 80%):	94 cd	( 90%):	105 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

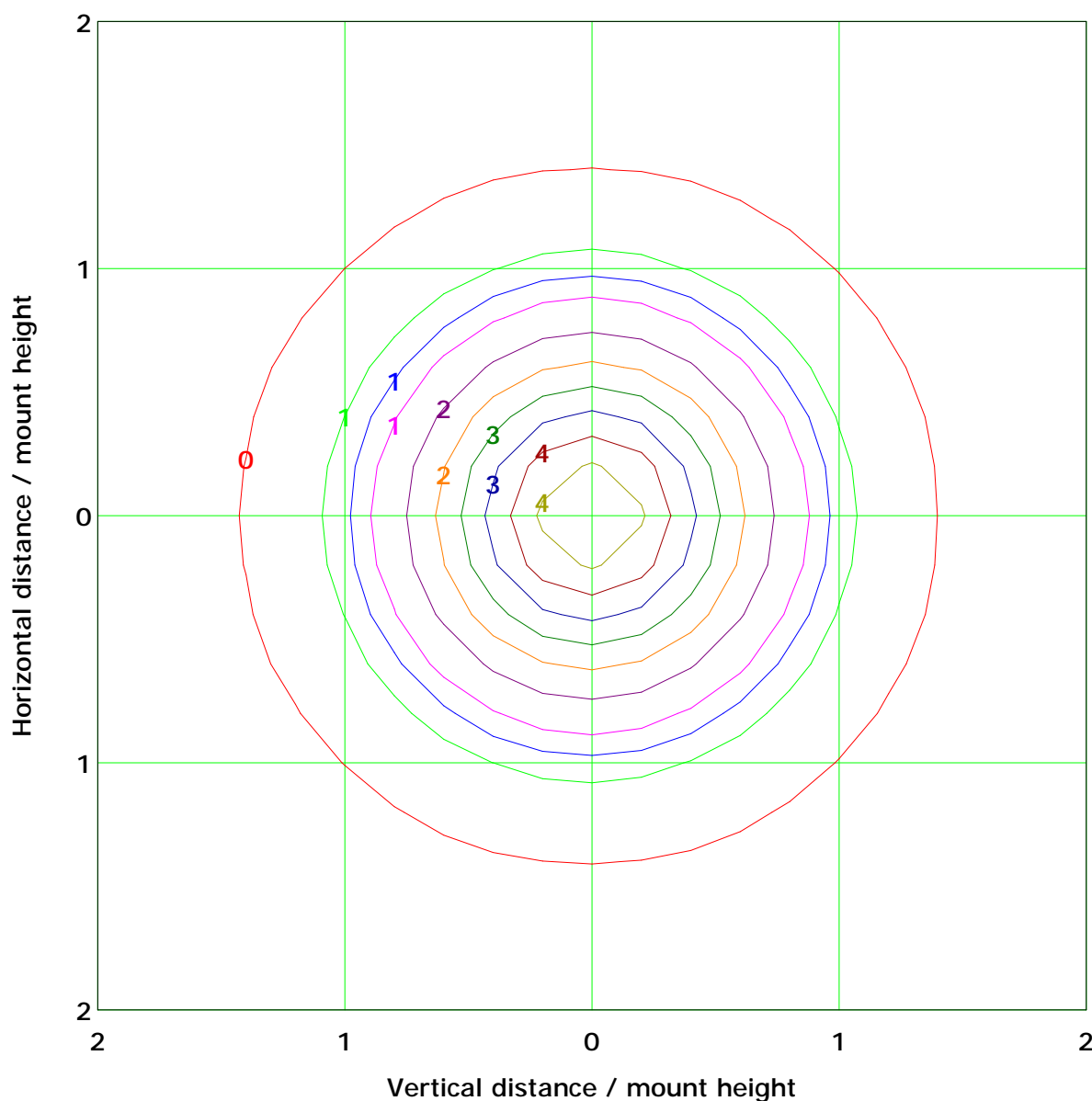
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 4.7 lx

( 10%): 0.5 lx	( 20%): 0.9 lx
( 25%): 1.2 lx	( 30%): 1.4 lx
( 40%): 1.9 lx	( 50%): 2.3 lx
( 60%): 2.8 lx	( 70%): 3.3 lx
( 80%): 3.7 lx	( 90%): 4.2 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%

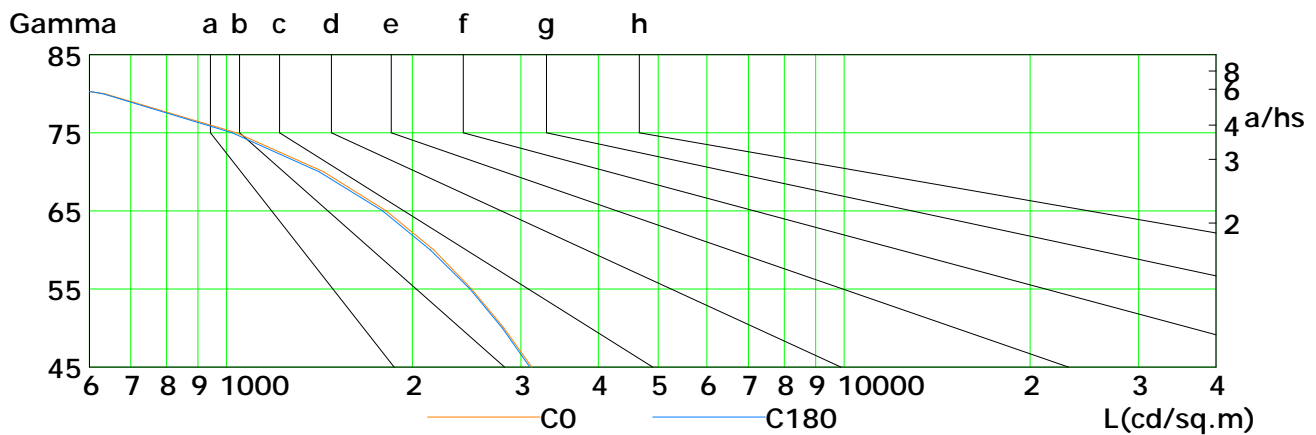
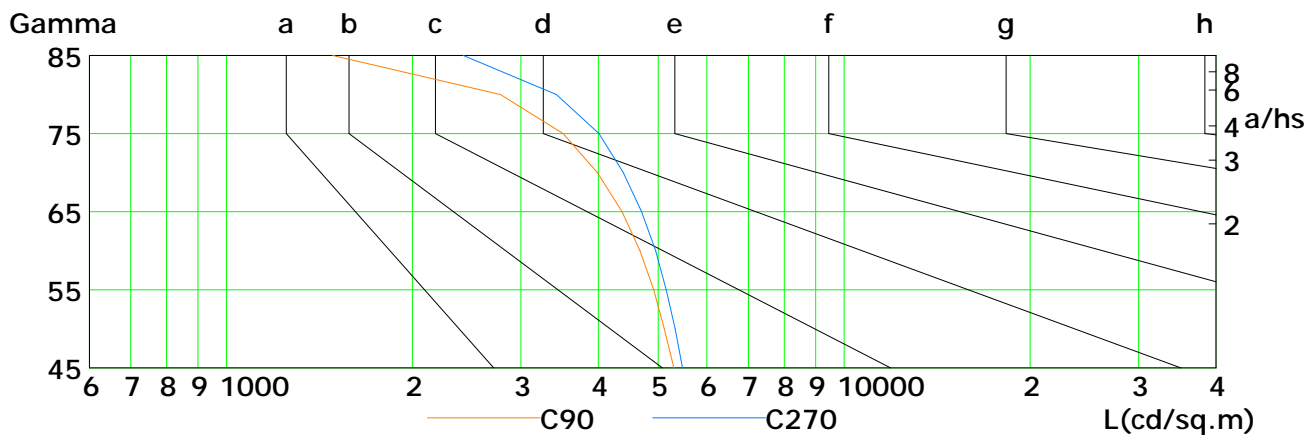
Inspector:



## 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	3121	2814	2496	2166	1815	1437	1039	636	254
C90	5300	5120	4919	4671	4374	3987	3509	2778	1486
C180	3099	2796	2480	2139	1791	1414	1022	631	269
C270	5477	5328	5156	4953	4699	4392	4013	3421	2420

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

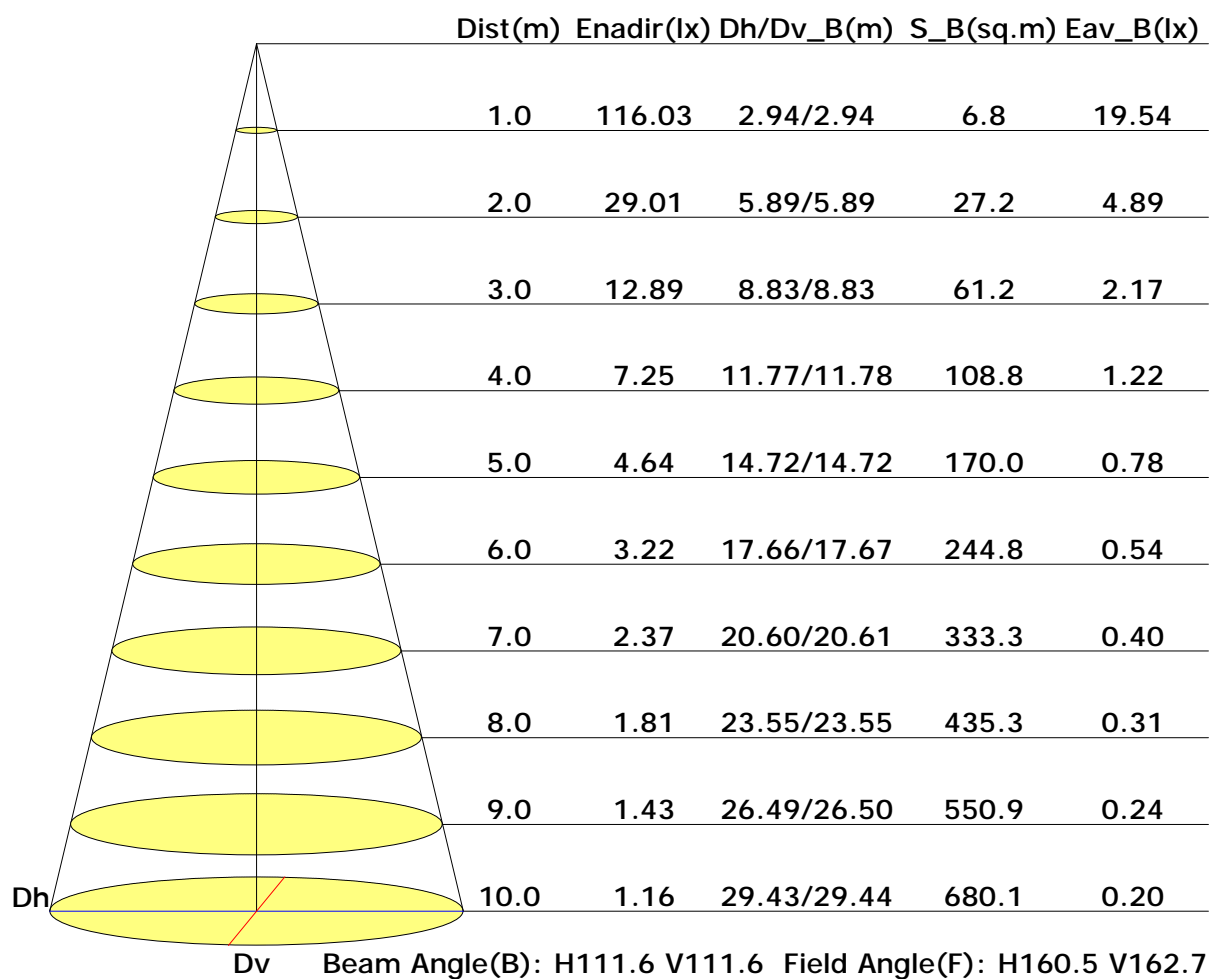
Test Device: GPM-1800B

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

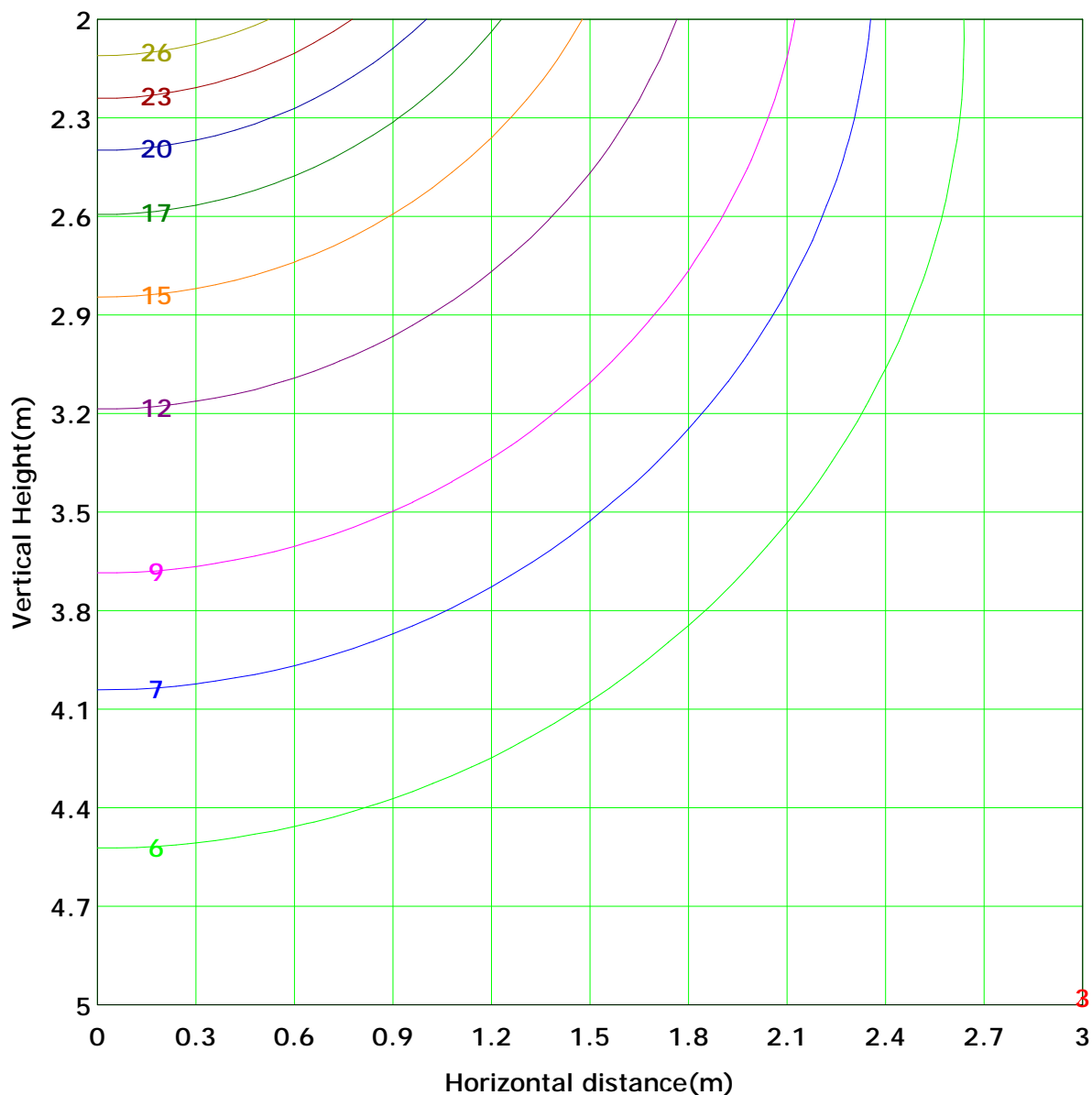
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 29.0 lx
( 10%): 2.9 lx	( 20%): 5.8 lx	
( 25%): 7.3 lx	( 30%): 8.7 lx	
( 40%): 11.6 lx	( 50%): 14.5 lx	
( 60%): 17.4 lx	( 70%): 20.3 lx	
( 80%): 23.2 lx	( 90%): 26.1 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:

## 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)
		0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.0
		0.0	0.0	0.1	0.2	0.3	0.5	0.9	1.0	1.0	1.6	1.6	1.6	1.3	0.8	0.7	0.5	0.3	0.1	0.0	1.8	1.5
		0.0	0.0	0.2	0.4	0.6	0.8	1.3	1.6	1.6	2.2	2.2	2.2	1.8	1.1	0.7	0.5	0.3	0.1	0.0	5.5	5.2
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	11.0	10.8
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	17.7	17.4
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	24.5	24.2
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	30.7	30.4
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	35.4	35.1
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	37.9	37.6
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	37.9	37.7
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	35.5	35.2
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	30.9	30.6
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	24.7	24.4
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	17.9	17.6
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	11.2	10.9
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	5.6	5.3
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	1.8	1.5
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	0.2	0.0
		0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.5	1.6	2.0	2.0	2.0	1.5	0.8	0.5	0.3	0.2	0.1	0.0	330	325

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

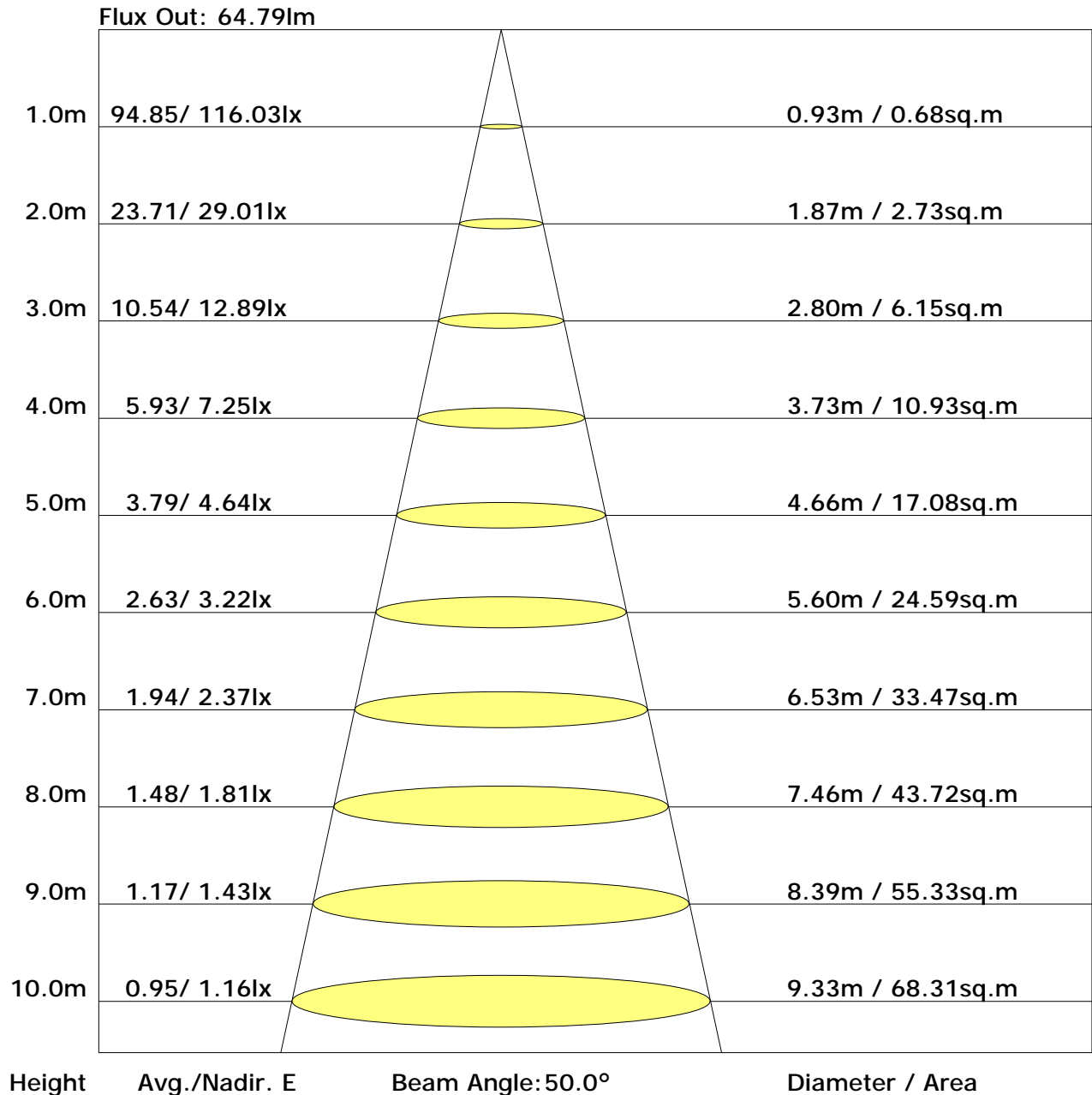
Distance: 9.028 m

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	20.4	22.0	20.8	22.3	22.7	18.8	20.4	19.1	20.7	21.1
3H	22.1	23.6	22.5	23.9	24.3	20.1	21.6	20.5	21.9	22.3
4H	22.7	24.1	23.1	24.4	24.8	20.6	21.9	21.0	22.3	22.7
6H	23.1	24.4	23.5	24.8	25.2	20.8	22.1	21.2	22.5	22.9
8H	23.2	24.4	23.6	24.8	25.2	20.8	22.1	21.3	22.5	22.9
12H	23.2	24.4	23.7	24.8	25.3	20.8	22.0	21.3	22.4	22.9
X=4H Y=2H	20.7	22.1	21.2	22.5	22.9	19.4	20.7	19.8	21.1	21.5
3H	22.6	23.8	23.1	24.2	24.6	20.9	22.1	21.3	22.5	22.9
4H	23.3	24.4	23.8	24.8	25.3	21.4	22.5	21.9	22.9	23.4
6H	23.8	24.7	24.3	25.2	25.7	21.8	22.7	22.2	23.1	23.6
8H	23.9	24.8	24.4	25.3	25.7	21.8	22.7	22.3	23.1	23.6
12H	24.0	24.8	24.5	25.3	25.8	21.8	22.6	22.3	23.1	23.6
X=8H Y=4H	23.4	24.3	23.9	24.8	25.3	21.7	22.5	22.2	23.0	23.5
6H	24.0	24.7	24.5	25.2	25.7	22.1	22.8	22.6	23.3	23.8
8H	24.2	24.8	24.7	25.3	25.8	22.2	22.8	22.7	23.3	23.8
12H	24.3	24.8	24.8	25.3	25.9	22.2	22.8	22.7	23.3	23.9
X=12H Y=4H	23.4	24.2	23.9	24.7	25.2	21.7	22.5	22.2	23.0	23.5
6H	24.0	24.6	24.5	25.1	25.7	22.1	22.7	22.6	23.2	23.8
8H	24.2	24.7	24.7	25.3	25.8	22.2	22.8	22.7	23.3	23.9

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	0.56	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.30		0.48	0.59	0.67	0.72	0.81	0.86	0.90	0.96	0.99
	0.20		0.43	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.55	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99
	0.30		0.47	0.58	0.65	0.70	0.78	0.83	0.87	0.92	0.96
	0.20		0.42	0.52	0.60	0.66	0.74	0.79	0.84	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		0.47	0.56	0.64	0.69	0.76	0.81	0.84	0.89	0.92
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.87	0.90
0.00	0.00	0.00	0.40	0.49	0.56	0.61	0.69	0.74	0.77	0.82	0.85
Rating: 10W 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	1.00	0.83	0.70	0.61	0.49	0.41	0.35	0.27	0.22
	0.30		0.83	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.21
	0.20		0.72	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20
0.50	0.50	0.20	0.96	0.79	0.67	0.59	0.47	0.42	0.33	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.24	0.20
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19
0.30	0.50	0.20	0.93	0.76	0.65	0.56	0.45	0.37	0.31	0.24	0.20
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19
	0.20		0.70	0.60	0.52	0.47	0.38	0.32	0.28	0.22	0.18
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14
Rating: 10W 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	0.19	0.19	0.20	0.21	0.22	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	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	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	0.08	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: 10W 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	116.6	0.1	0.1	0.03	0.03
1.0-2.0	116.6	0.3	0.4	0.10	0.13
2.0-3.0	116.5	0.6	1.0	0.17	0.30
3.0-4.0	116.4	0.8	1.8	0.23	0.53
4.0-5.0	116.2	1.0	2.8	0.30	0.83
5.0-6.0	116.0	1.2	4.0	0.37	1.20
6.0-7.0	115.7	1.4	5.4	0.43	1.63
7.0-8.0	115.4	1.7	7.1	0.49	2.12
8.0-9.0	115.1	1.9	9.0	0.56	2.68
9.0-10.0	114.7	2.1	11.0	0.62	3.30
10.0-11.0	114.3	2.3	13.3	0.68	3.99
11.0-12.0	113.8	2.5	15.8	0.75	4.73
12.0-13.0	113.3	2.7	18.5	0.81	5.54
13.0-14.0	112.7	2.9	21.4	0.86	6.40
14.0-15.0	112.2	3.1	24.5	0.92	7.32
15.0-16.0	111.5	3.3	27.7	0.98	8.30
16.0-17.0	110.8	3.5	31.2	1.03	9.34
17.0-18.0	110.1	3.6	34.8	1.09	10.43
18.0-19.0	109.4	3.8	38.6	1.14	11.57
19.0-20.0	108.6	4.0	42.6	1.19	12.76
20.0-21.0	107.7	4.1	46.7	1.24	13.99
21.0-22.0	106.9	4.3	51.0	1.29	15.28
22.0-23.0	106.0	4.4	55.5	1.33	16.61
23.0-24.0	105.0	4.6	60.1	1.38	17.99
24.0-25.0	104.1	4.7	64.8	1.42	19.41
25.0-26.0	103.0	4.9	69.7	1.46	20.86
26.0-27.0	102.0	5.0	74.6	1.49	22.36
27.0-28.0	100.9	5.1	79.8	1.53	23.89
28.0-29.0	99.8	5.2	85.0	1.56	25.45
29.0-30.0	98.6	5.3	90.3	1.60	27.05
30.0-31.0	97.5	5.4	95.7	1.62	28.67
31.0-32.0	96.2	5.5	101.2	1.65	30.32
32.0-33.0	95.0	5.6	106.8	1.68	32.00
33.0-34.0	93.7	5.7	112.5	1.70	33.70
34.0-35.0	92.4	5.7	118.3	1.72	35.42
35.0-36.0	91.1	5.8	124.1	1.74	37.16

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 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	89.7	5.9	129.9	1.75	38.91
37.0-38.0	88.3	5.9	135.8	1.77	40.67
38.0-39.0	86.9	5.9	141.7	1.78	42.45
39.0-40.0	85.4	6.0	147.7	1.78	44.23
40.0-41.0	83.9	6.0	153.7	1.79	46.02
41.0-42.0	82.4	6.0	159.7	1.79	47.82
42.0-43.0	80.9	6.0	165.6	1.79	49.61
43.0-44.0	79.3	6.0	171.6	1.79	51.41
44.0-45.0	77.7	6.0	177.6	1.79	53.20
45.0-46.0	76.1	6.0	183.6	1.78	54.98
46.0-47.0	74.5	5.9	189.5	1.77	56.75
47.0-48.0	72.8	5.9	195.4	1.76	58.52
48.0-49.0	71.2	5.8	201.2	1.75	60.27
49.0-50.0	69.5	5.8	207.0	1.74	62.00
50.0-51.0	67.7	5.7	212.7	1.72	63.72
51.0-52.0	66.0	5.7	218.4	1.70	65.42
52.0-53.0	64.2	5.6	224.0	1.67	67.09
53.0-54.0	62.4	5.5	229.5	1.65	68.74
54.0-55.0	60.7	5.4	234.9	1.62	70.36
55.0-56.0	58.8	5.3	240.2	1.59	71.95
56.0-57.0	57.0	5.2	245.4	1.56	73.51
57.0-58.0	55.2	5.1	250.6	1.53	75.04
58.0-59.0	53.3	5.0	255.5	1.49	76.53
59.0-60.0	51.4	4.9	260.4	1.45	77.99
60.0-61.0	49.5	4.7	265.1	1.42	79.41
61.0-62.0	47.7	4.6	269.7	1.38	80.78
62.0-63.0	45.8	4.5	274.2	1.33	82.12
63.0-64.0	43.9	4.3	278.5	1.29	83.41
64.0-65.0	42.0	4.2	282.6	1.24	84.65
65.0-66.0	40.0	4.0	286.6	1.20	85.85
66.0-67.0	38.1	3.8	290.5	1.15	86.99
67.0-68.0	36.2	3.7	294.1	1.10	88.09
68.0-69.0	34.3	3.5	297.6	1.05	89.14
69.0-70.0	32.4	3.3	301.0	1.00	90.14
70.0-71.0	30.5	3.2	304.1	0.94	91.08
71.0-72.0	28.6	3.0	307.1	0.89	91.97

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	26.7	2.8	309.9	0.84	92.81
73.0-74.0	24.8	2.6	312.5	0.78	93.59
74.0-75.0	23.0	2.4	314.9	0.73	94.32
75.0-76.0	21.1	2.2	317.2	0.67	94.99
76.0-77.0	19.3	2.1	319.2	0.62	95.61
77.0-78.0	17.6	1.9	321.1	0.56	96.17
78.0-79.0	15.8	1.7	322.8	0.51	96.68
79.0-80.0	14.0	1.5	324.3	0.45	97.13
80.0-81.0	12.3	1.3	325.6	0.40	97.53
81.0-82.0	10.7	1.2	326.8	0.35	97.88
82.0-83.0	9.0	1.0	327.8	0.29	98.18
83.0-84.0	7.5	0.8	328.6	0.24	98.42
84.0-85.0	5.9	0.6	329.3	0.19	98.61
85.0-86.0	4.5	0.5	329.7	0.15	98.76
86.0-87.0	3.1	0.3	330.1	0.10	98.86
87.0-88.0	1.8	0.2	330.3	0.06	98.92
88.0-89.0	0.8	0.1	330.4	0.03	98.94
89.0-90.0	0.3	0.0	330.4	0.01	98.96
90.0-91.0	0.2	0.0	330.4	0.01	98.96
91.0-92.0	0.2	0.0	330.4	0.01	98.97
92.0-93.0	0.2	0.0	330.5	0.01	98.97
93.0-94.0	0.2	0.0	330.5	0.01	98.98
94.0-95.0	0.2	0.0	330.5	0.01	98.99
95.0-96.0	0.2	0.0	330.5	0.01	99.00
96.0-97.0	0.2	0.0	330.6	0.01	99.00
97.0-98.0	0.3	0.0	330.6	0.01	99.01
98.0-99.0	0.3	0.0	330.6	0.01	99.02
99.0-100.0	0.3	0.0	330.6	0.01	99.03
100.0-101.0	0.3	0.0	330.7	0.01	99.04
101.0-102.0	0.3	0.0	330.7	0.01	99.05
102.0-103.0	0.3	0.0	330.7	0.01	99.06
103.0-104.0	0.3	0.0	330.8	0.01	99.07
104.0-105.0	0.3	0.0	330.8	0.01	99.08
105.0-106.0	0.3	0.0	330.8	0.01	99.09
106.0-107.0	0.3	0.0	330.9	0.01	99.10
107.0-108.0	0.4	0.0	330.9	0.01	99.11

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	0.4	0.0	331.0	0.01	99.12
109.0-110.0	0.4	0.0	331.0	0.01	99.14
110.0-111.0	0.4	0.0	331.0	0.01	99.15
111.0-112.0	0.4	0.0	331.1	0.01	99.16
112.0-113.0	0.4	0.0	331.1	0.01	99.18
113.0-114.0	0.5	0.0	331.2	0.01	99.19
114.0-115.0	0.5	0.0	331.2	0.01	99.20
115.0-116.0	0.5	0.0	331.3	0.01	99.22
116.0-117.0	0.5	0.0	331.3	0.01	99.23
117.0-118.0	0.5	0.1	331.4	0.02	99.25
118.0-119.0	0.5	0.1	331.4	0.02	99.26
119.0-120.0	0.5	0.1	331.5	0.02	99.28
120.0-121.0	0.6	0.1	331.5	0.02	99.29
121.0-122.0	0.6	0.1	331.6	0.02	99.31
122.0-123.0	0.6	0.1	331.6	0.02	99.32
123.0-124.0	0.6	0.1	331.7	0.02	99.34
124.0-125.0	0.6	0.1	331.7	0.02	99.36
125.0-126.0	0.6	0.1	331.8	0.02	99.37
126.0-127.0	0.6	0.1	331.8	0.02	99.39
127.0-128.0	0.6	0.1	331.9	0.02	99.41
128.0-129.0	0.7	0.1	332.0	0.02	99.42
129.0-130.0	0.7	0.1	332.0	0.02	99.44
130.0-131.0	0.7	0.1	332.1	0.02	99.46
131.0-132.0	0.7	0.1	332.1	0.02	99.47
132.0-133.0	0.7	0.1	332.2	0.02	99.49
133.0-134.0	0.7	0.1	332.2	0.02	99.51
134.0-135.0	0.7	0.1	332.3	0.02	99.52
135.0-136.0	0.7	0.1	332.3	0.02	99.54
136.0-137.0	0.8	0.1	332.4	0.02	99.56
137.0-138.0	0.8	0.1	332.5	0.02	99.57
138.0-139.0	0.8	0.1	332.5	0.02	99.59
139.0-140.0	0.8	0.1	332.6	0.02	99.61
140.0-141.0	0.8	0.1	332.6	0.02	99.62
141.0-142.0	0.8	0.1	332.7	0.02	99.64
142.0-143.0	0.8	0.1	332.7	0.02	99.66
143.0-144.0	0.8	0.1	332.8	0.02	99.67

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 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	0.1	332.8	0.02	99.69
145.0-146.0	0.8	0.1	332.9	0.02	99.70
146.0-147.0	0.8	0.1	332.9	0.02	99.72
147.0-148.0	0.9	0.1	333.0	0.02	99.73
148.0-149.0	0.9	0.0	333.0	0.01	99.75
149.0-150.0	0.9	0.0	333.1	0.01	99.76
150.0-151.0	0.9	0.0	333.1	0.01	99.78
151.0-152.0	0.9	0.0	333.2	0.01	99.79
152.0-153.0	0.9	0.0	333.2	0.01	99.80
153.0-154.0	0.9	0.0	333.3	0.01	99.82
154.0-155.0	0.9	0.0	333.3	0.01	99.83
155.0-156.0	0.9	0.0	333.4	0.01	99.84
156.0-157.0	0.9	0.0	333.4	0.01	99.85
157.0-158.0	0.9	0.0	333.4	0.01	99.87
158.0-159.0	0.9	0.0	333.5	0.01	99.88
159.0-160.0	0.9	0.0	333.5	0.01	99.89
160.0-161.0	1.0	0.0	333.5	0.01	99.90
161.0-162.0	1.0	0.0	333.6	0.01	99.91
162.0-163.0	1.0	0.0	333.6	0.01	99.92
163.0-164.0	1.0	0.0	333.6	0.01	99.93
164.0-165.0	1.0	0.0	333.7	0.01	99.94
165.0-166.0	1.0	0.0	333.7	0.01	99.94
166.0-167.0	1.0	0.0	333.7	0.01	99.95
167.0-168.0	1.0	0.0	333.7	0.01	99.96
168.0-169.0	1.0	0.0	333.8	0.01	99.96
169.0-170.0	1.0	0.0	333.8	0.01	99.97
170.0-171.0	1.0	0.0	333.8	0.01	99.98
171.0-172.0	1.0	0.0	333.8	0.00	99.98
172.0-173.0	1.0	0.0	333.8	0.00	99.99
173.0-174.0	1.0	0.0	333.8	0.00	99.99
174.0-175.0	1.0	0.0	333.9	0.00	99.99
175.0-176.0	1.0	0.0	333.9	0.00	100.00
176.0-177.0	1.0	0.0	333.9	0.00	100.00
177.0-178.0	1.0	0.0	333.9	0.00	100.00
178.0-179.0	1.0	0.0	333.9	0.00	100.00
179.0-180.0	1.1	0.0	333.9	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: