

Report No.:

Test Time: 2021/1/26 11:13

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: CHANNEL

Lamp Catalog: RIBBONLYTE

Number of Lamps: 2 ROWS

Luminous Width (mm): 40

Voltage: 24.0 V

Power: 10.30 W

Luminaire Description: AW40

Lamp Description: RB90SWS2203.030

Luminous Length (mm): 500

Luminous Height (mm): 13.5

Current: 0.429 A

Power Factor: 1.000

## Photometric Results

CIE Class: Semi-Indirect

Measurement Flux: 489.6 lm

Downward Ratio: 22%

Horizontal Diffuse Angle(10%,50%): H360,H129.3

Vertical Diffuse Angle(10%,50%): V348.4,V315.6

Luminaire Efficacy Rating (LER): 48

Max. Intensity: 121.34 cd

Total Rated Lamp Lumens: 489.6 lm

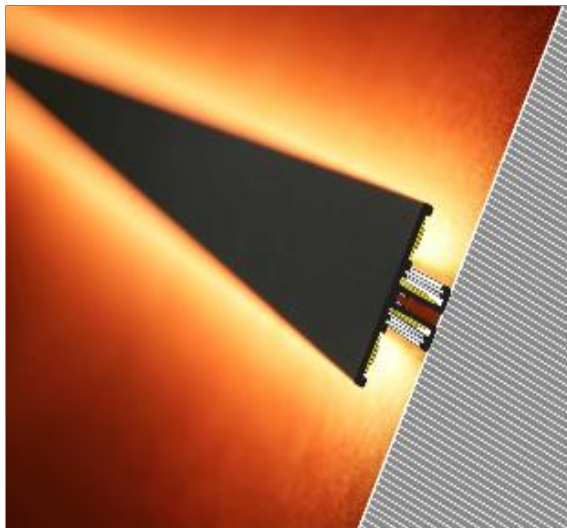
Efficiency: 100%

Upward Ratio: 78%

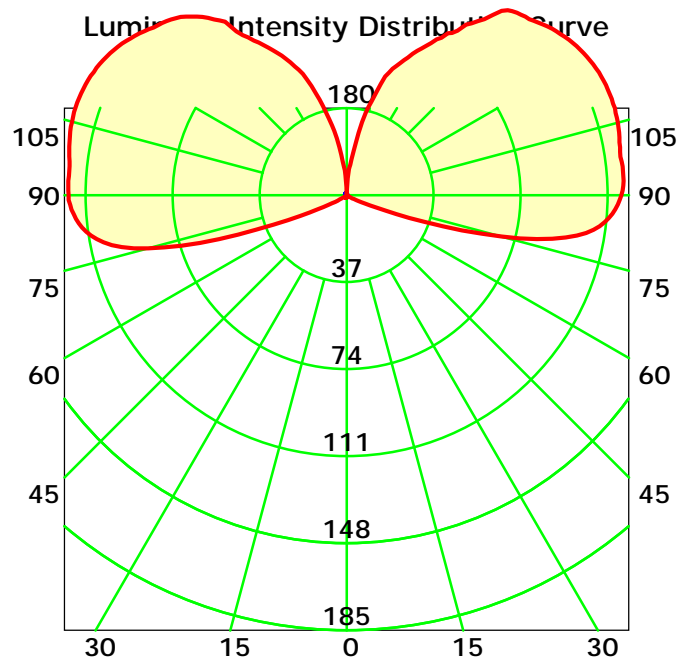
Central Intensity: 0.67 cd

Pos of Max. Intensity: H270 V109

Picture Of Luminaire



Luminaire Intensity Distribution Curve



Average Diffuse Angle(50%): 222.4° 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

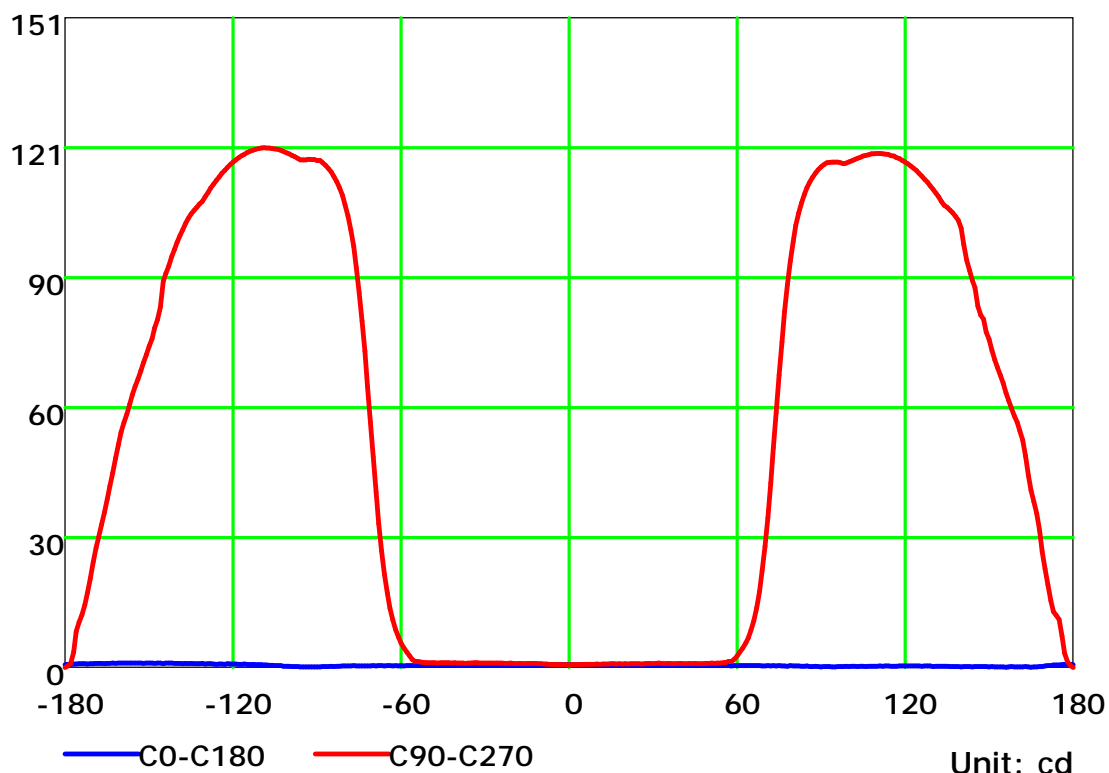
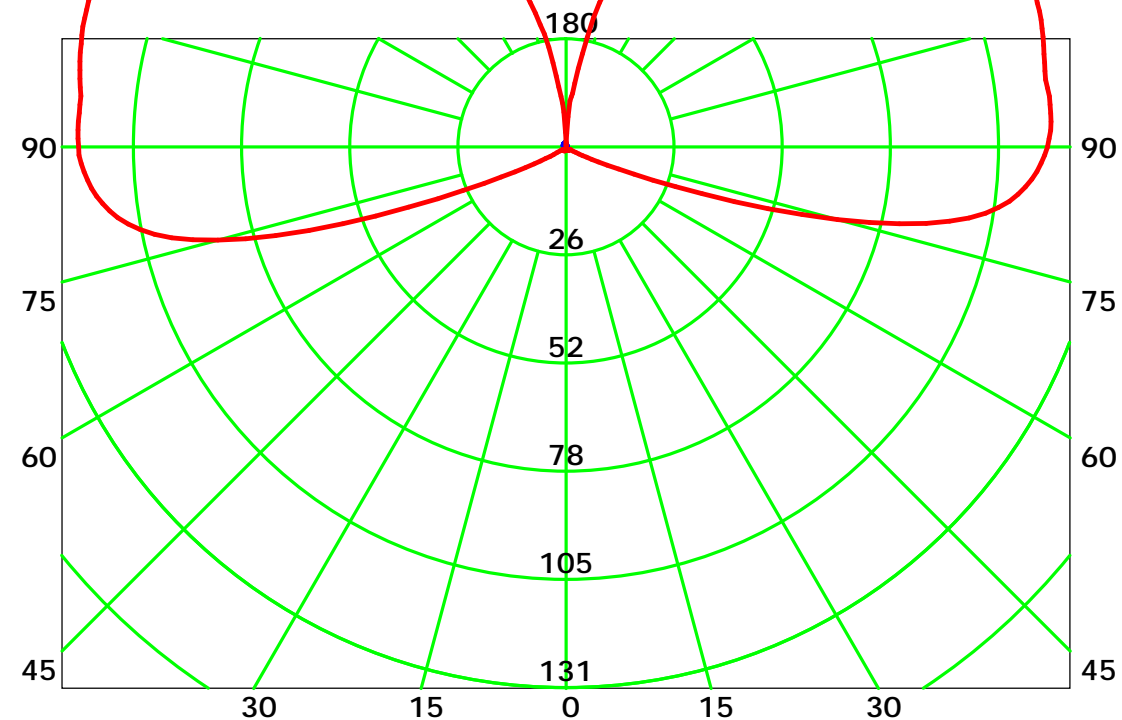
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

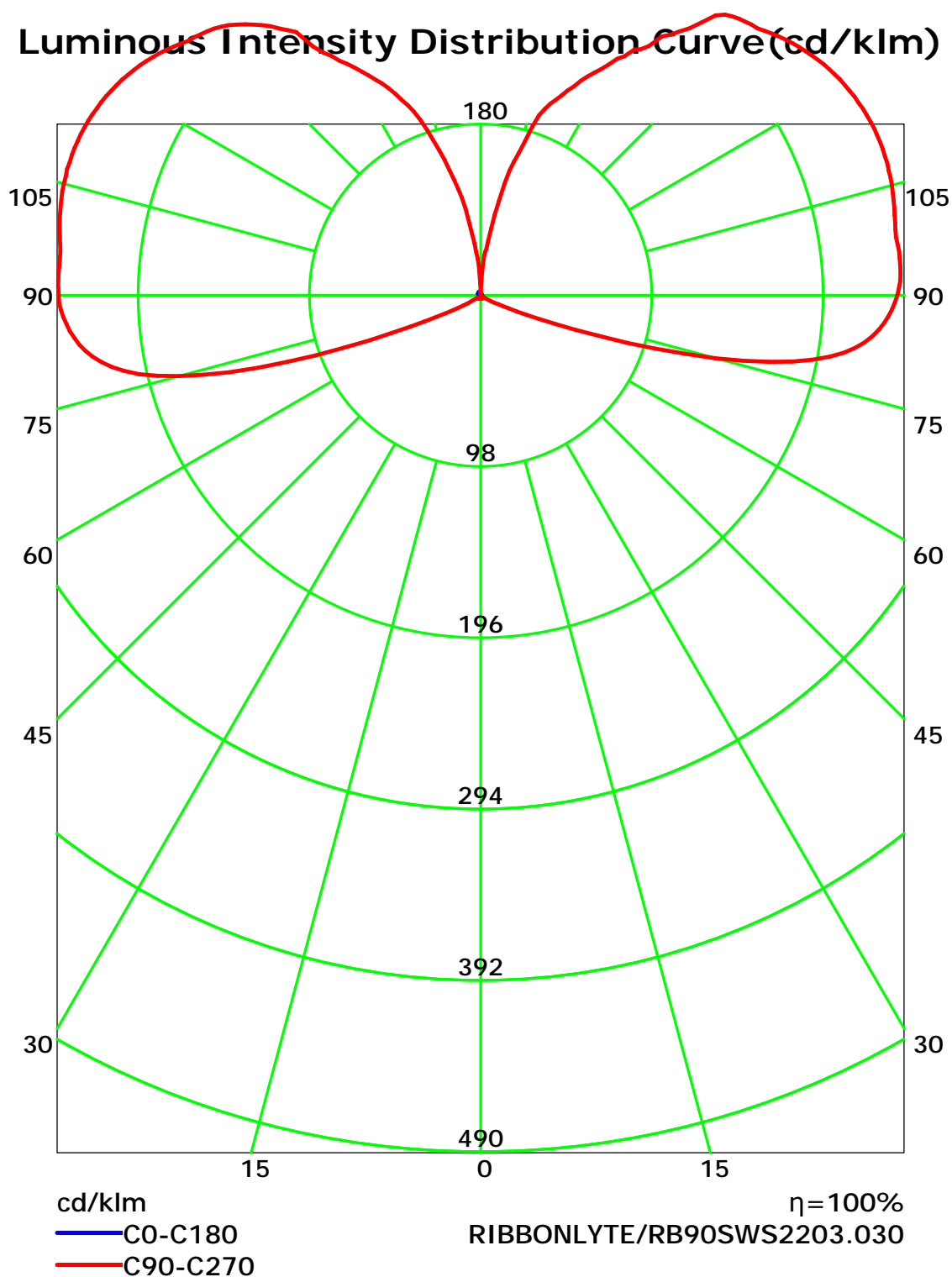
## Luminous Intensity Distribution Curve



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:

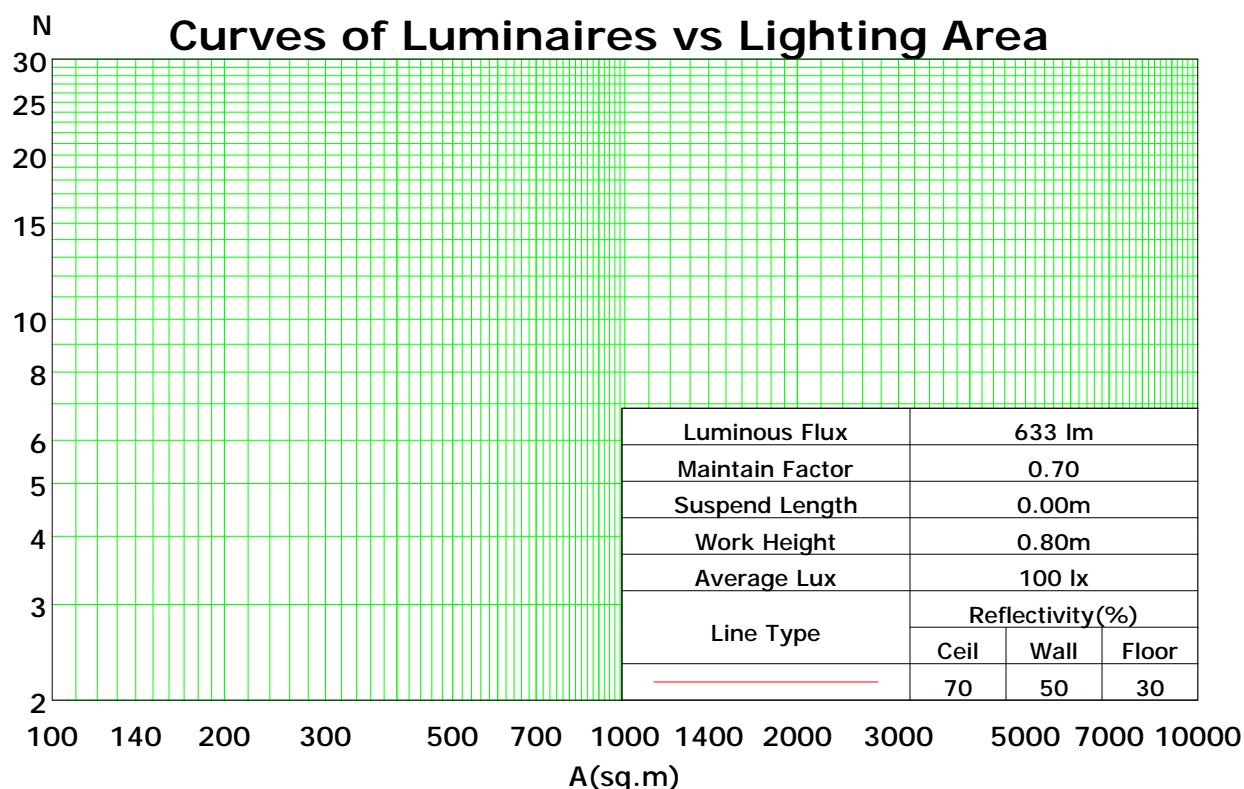
## Coefficients Of Utilization - Zonal Cavity Method

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	101	101	101	101	89	89	89	89	68	68	68	48	48	48	31	31	31	22
1	86	79	73	68	75	69	64	59	51	47	43	33	31	28	18	16	14	7
2	77	67	59	52	67	58	52	46	42	37	33	27	24	21	14	11	9	3
3	69	58	49	43	60	51	43	37	37	31	27	24	20	17	11	9	7	1
4	63	51	42	35	55	44	37	31	32	27	22	21	17	14	10	8	5	1
5	58	45	36	30	50	39	32	26	29	23	19	18	15	12	9	7	5	0
6	53	40	31	25	46	35	28	22	26	20	16	17	13	10	8	6	4	0
7	49	36	28	22	42	31	24	19	23	18	14	15	11	9	8	5	3	0
8	45	32	24	19	39	28	21	17	21	16	12	14	10	7	7	5	3	0
9	42	29	22	17	37	26	19	15	19	14	11	13	9	7	6	4	3	0
10	39	27	19	15	34	24	17	13	17	13	9	12	8	6	6	4	2	0

Spacing Criteria (0-180): 1.48

Spacing Criteria (90-270): 2.25

Spacing Criteria (Diagonal): 2.04



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

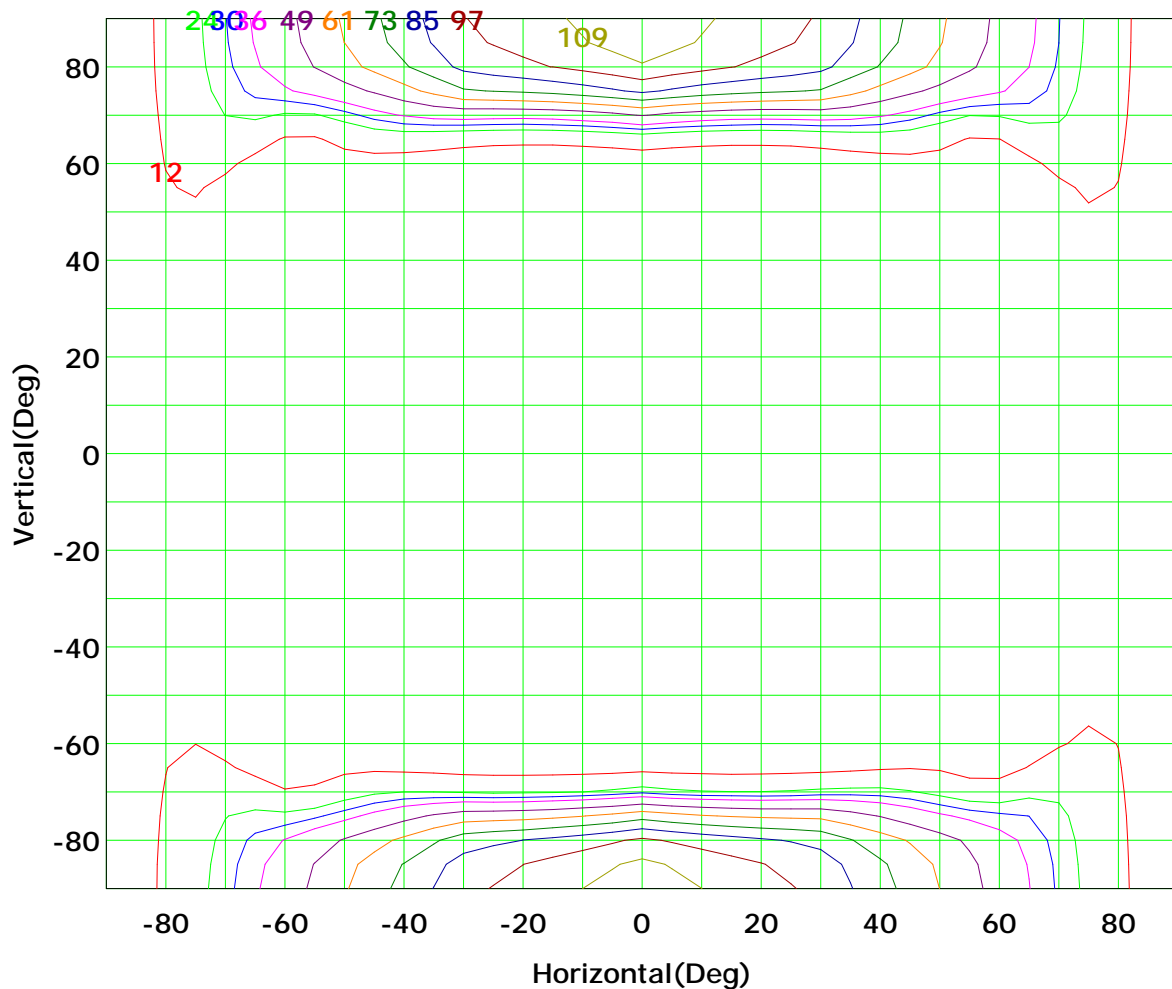
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



I<sub>max</sub> (100%): 121 cd

( 10%): 12 cd	( 20%): 24 cd
( 25%): 30 cd	( 30%): 36 cd
( 40%): 49 cd	( 50%): 61 cd
( 60%): 73 cd	( 70%): 85 cd
( 80%): 97 cd	( 90%): 109 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

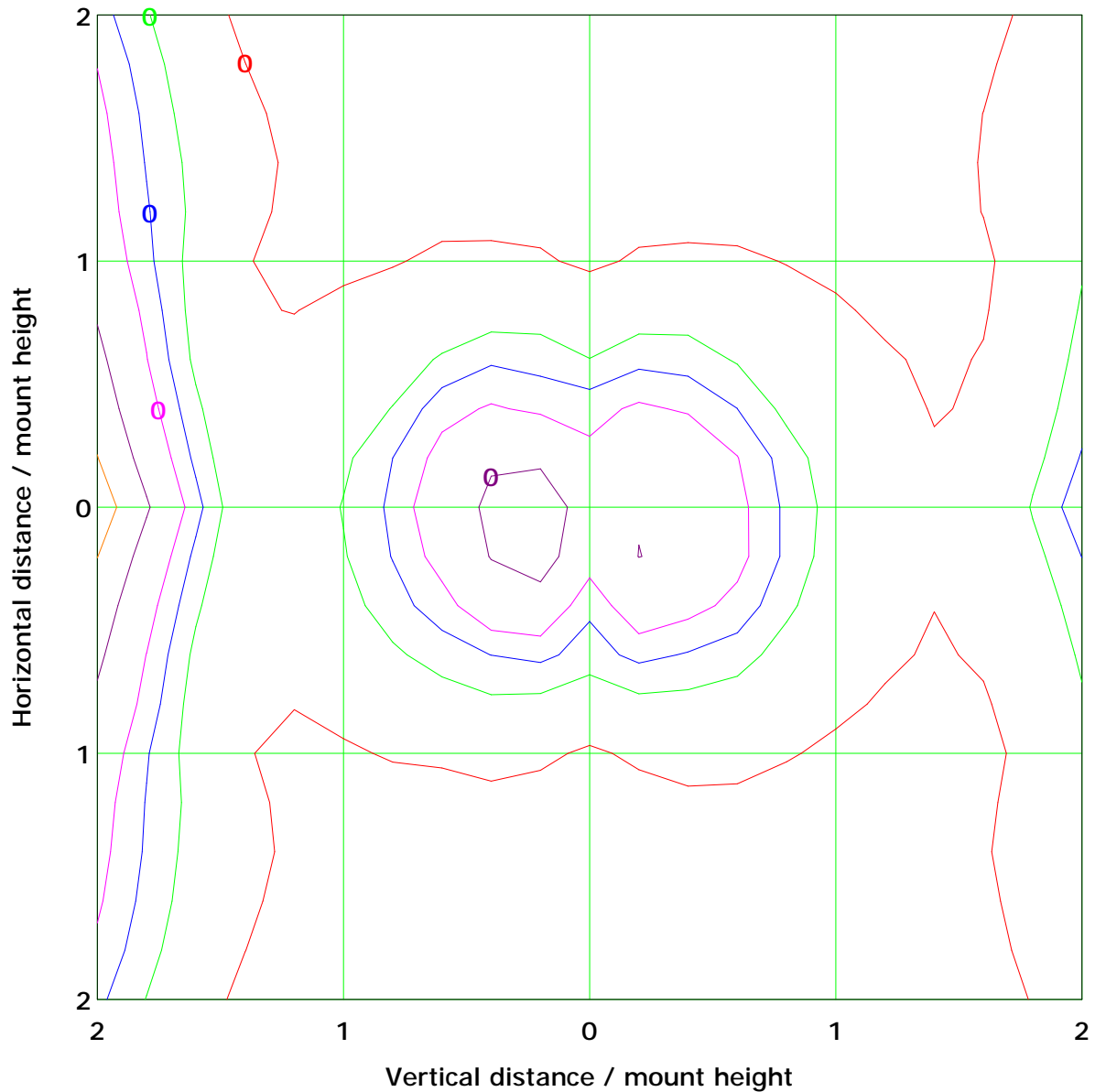
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 0.1 lx

( 10%): 0.0 lx	( 20%): 0.0 lx
( 25%): 0.0 lx	( 30%): 0.0 lx
( 40%): 0.0 lx	( 50%): 0.0 lx
( 60%): 0.0 lx	( 70%): 0.1 lx
( 80%): 0.1 lx	( 90%): 0.1 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

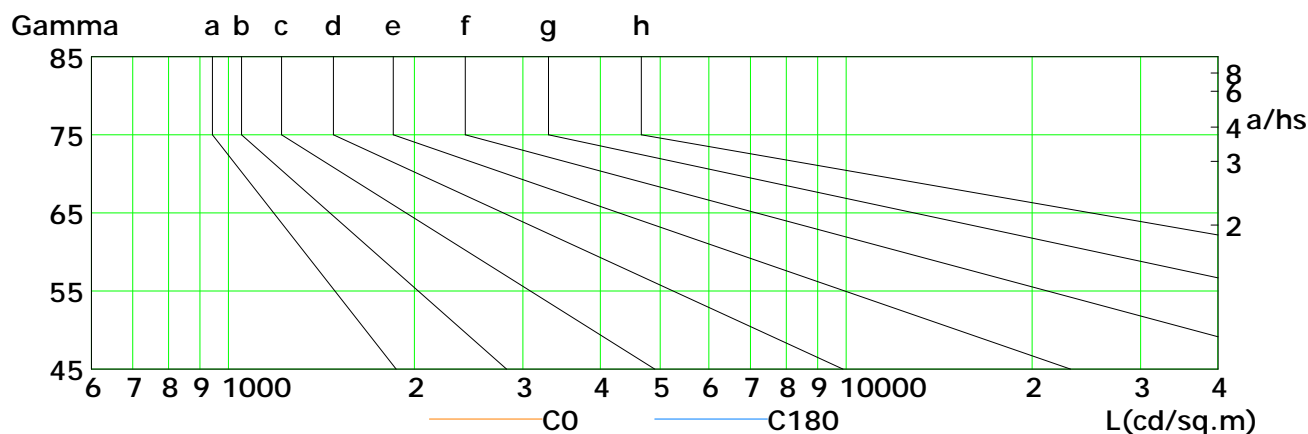
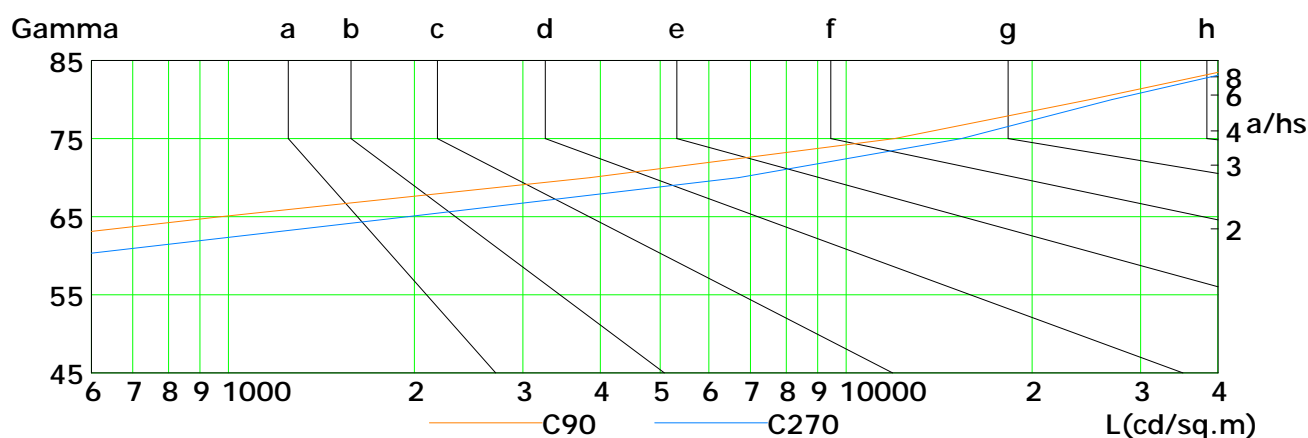
Humidity: 60%

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	26	28	31	31	34	31	41	42	46
C90	68	78	97	264	972	3850	11976	24820	49109
C180	25	25	30	30	34	34	36	41	41
C270	78	86	124	549	1952	6699	15367	26973	50726

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

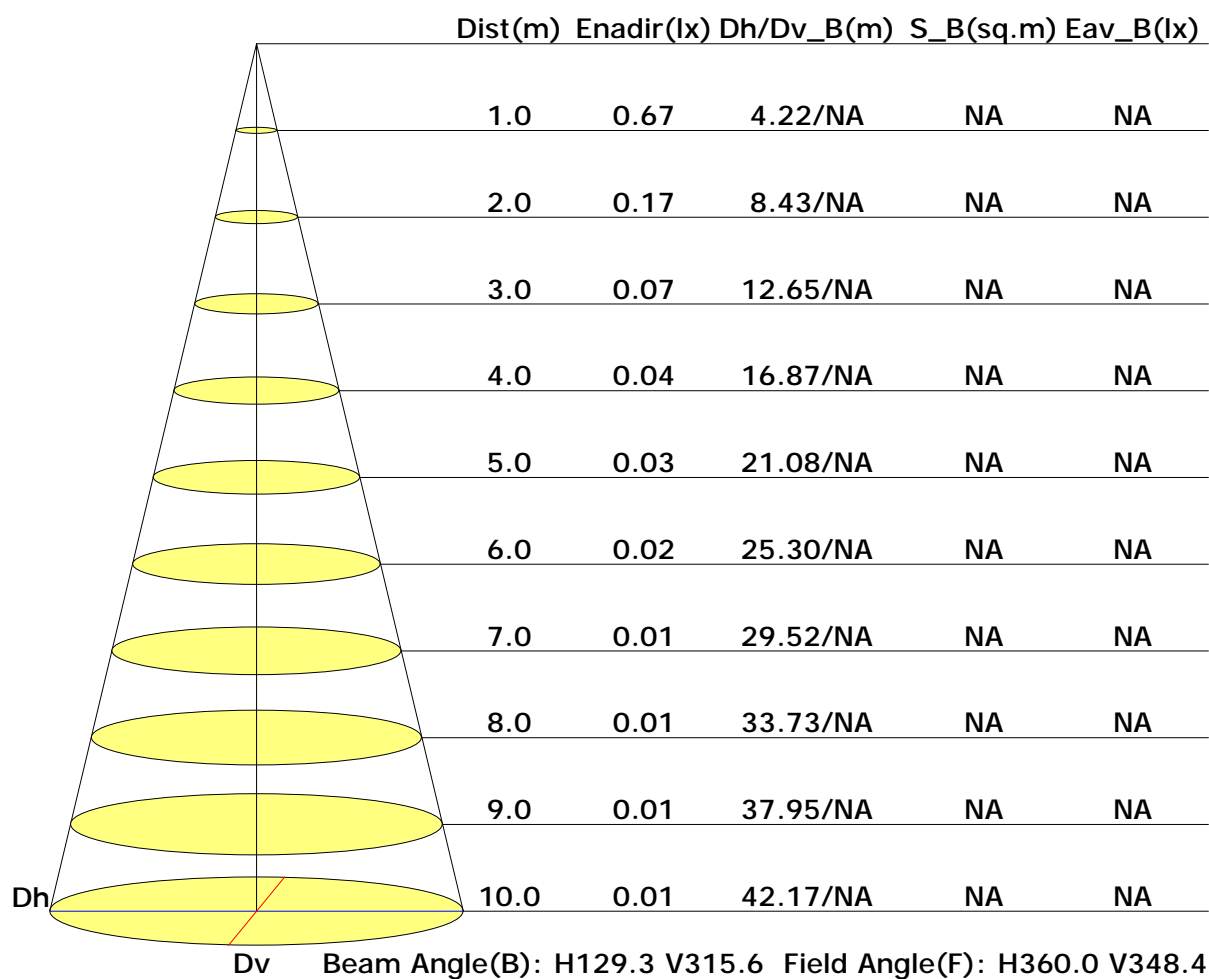
Test Device: GPM-1800B

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

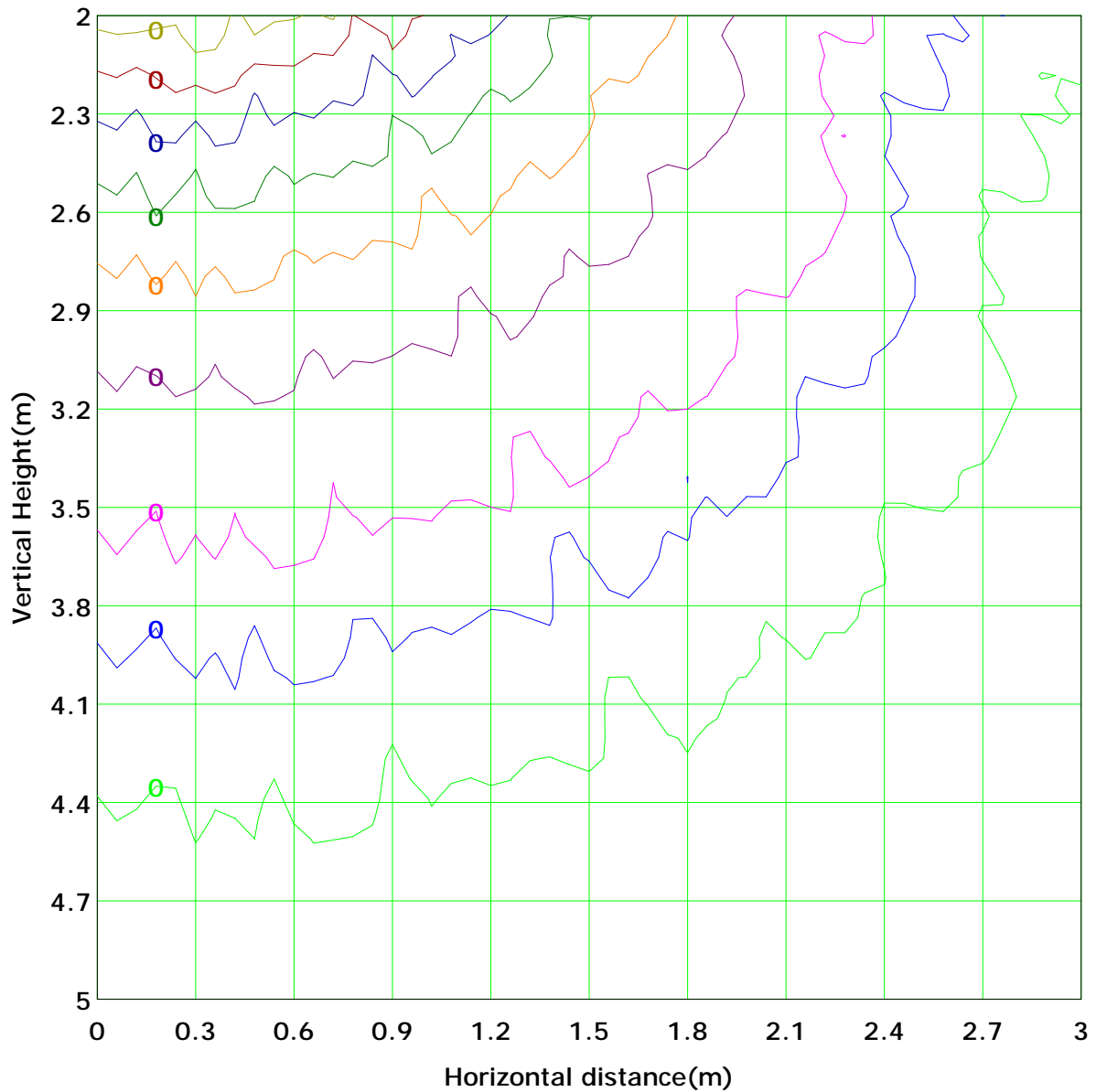
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



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	0.2	0.5	0.9	1.5	2.1	2.7	3.1	3.4	3.4	3.1	2.7	2.1	1.5	0.9	0.5	0.2	0.0	0.0	28.7	28.6
	-80	0.0	0.2	0.4	0.7	1.1	1.6	2.0	2.2	2.4	2.4	2.2	1.9	1.6	1.1	0.7	0.4	0.2	0.0	0.0	21.0	21.0
	-70	0.0	0.1	0.2	0.2	0.4	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.4	0.2	0.2	0.1	0.0	0.0	6.2	5.1
	-60	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	1.1	0.1
	-50	0.0	0.1	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	0.1	0.0	0.5	0.0
	-40	0.0	0.1	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	0.1	0.0	0.4	0.0
	-30	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	0.3	0.0
	-20	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	0.3	0.0
	-10	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	0.2	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	0.0	0.0	0.0	0.0	0.2	0.0
	10	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	0.3	0.0
	20	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	0.3	0.0
	30	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	0.3	0.0
	40	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	0.4	0.0
	50	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	0.7	0.0
	60	0.0	0.1	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	0.1	0.0	0.7	0.0
	70	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.0	0.0	3.6	2.1
	80	0.0	0.2	0.4	0.6	0.9	1.3	1.6	1.7	1.9	1.9	1.7	1.5	1.2	0.8	0.5	0.3	0.2	0.0	0.0	16.7	16.7
	90	0.0	0.2	0.5	0.9	1.4	2.0	2.6	2.9	3.2	3.2	2.9	2.5	2.0	1.4	0.8	0.4	0.2	0.0	0.0	27.3	27.3
	Flux(T)	0.3	1.4	2.3	3.7	5.9	8.1	9.9	11.1	12.3	12.3	11.0	9.7	8.0	5.7	3.5	2.2	1.3	0.3	0.3	109	
	Flux(E)	0.1	1.1	2.1	3.3	5.5	7.6	9.3	10.5	11.6	11.6	10.4	9.2	7.5	5.3	3.1	1.9	1.0	0.0	0.0		101

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

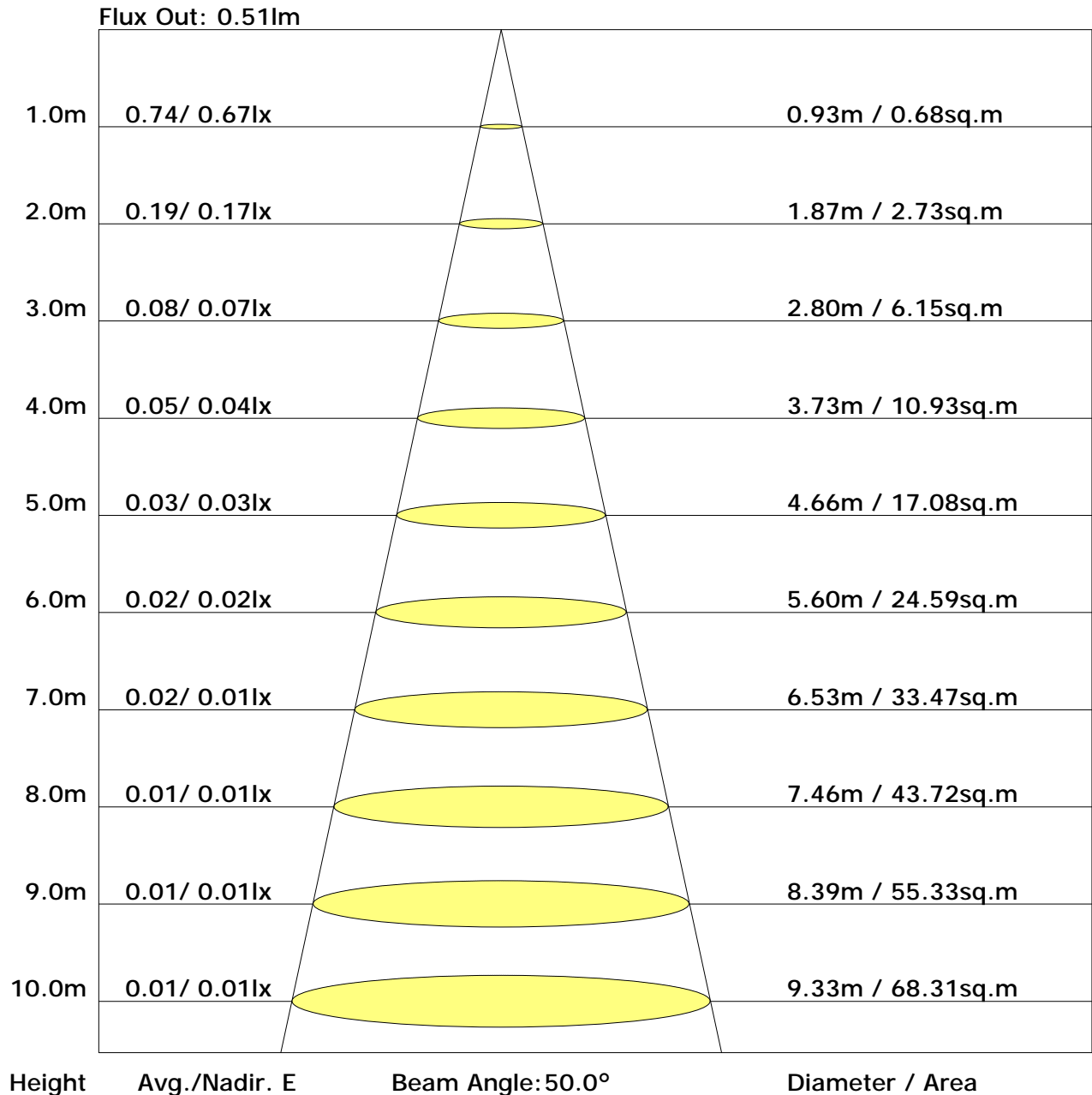
Distance: 9.028 m

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	-14.8	-14.0	-13.6	-12.9	-11.3	-11.1	-10.3	-9.9	-9.2	-7.6
3H	-11.9	-11.2	-10.8	-10.0	-8.4	8.4	9.1	9.5	10.2	11.8
4H	-7.9	-7.3	-6.8	-6.1	-4.5	16.9	17.6	18.1	18.8	20.4
6H	0.5	1.1	1.6	2.3	3.9	22.4	23.0	23.5	24.1	25.8
8H	3.9	4.6	5.1	5.7	7.4	24.3	24.9	25.4	26.1	27.7
12H	6.1	6.7	7.2	7.8	9.5	25.9	26.5	27.0	27.6	29.3
X=4H Y=2H	-7.3	-6.7	-6.2	-5.5	-3.9	-8.2	-7.6	-7.1	-6.4	-4.8
3H	-5.4	-4.8	-4.3	-3.7	-2.0	9.7	10.3	10.9	11.5	13.1
4H	-1.8	-1.2	-0.6	-0.1	1.6	18.3	18.9	19.4	20.0	21.7
6H	6.8	7.3	8.0	8.5	10.2	23.8	24.3	25.0	25.5	27.1
8H	10.3	10.8	11.4	12.0	13.6	25.8	26.3	27.0	27.5	29.2
12H	12.5	12.9	13.6	14.1	15.8	27.6	28.0	28.7	29.2	30.9
X=8H Y=4H	13.5	14.0	14.6	15.1	16.8	18.9	19.4	20.1	20.6	22.3
6H	15.7	16.1	16.9	17.3	19.0	24.7	25.2	25.9	26.4	28.0
8H	17.3	17.7	18.5	18.9	20.6	26.9	27.3	28.1	28.5	30.2
12H	18.8	19.2	20.0	20.4	22.1	28.9	29.2	30.1	30.4	32.1
X=12H Y=4H	16.5	16.9	17.6	18.1	19.8	19.0	19.5	20.2	20.6	22.3
6H	18.8	19.2	20.0	20.4	22.1	24.9	25.3	26.1	26.5	28.2
8H	20.3	20.6	21.4	21.8	23.5	27.2	27.6	28.4	28.8	30.5

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 = 2.50								
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	NA	NA	0.44	0.48	0.54	0.58	0.61	0.66	0.69
	0.30		NA	NA	0.36	0.40	0.47	0.51	0.55	0.60	0.64
	0.20		NA	NA	0.30	0.34	0.41	0.45	0.49	0.55	0.59
0.50	0.50	0.20	NA	NA	0.32	0.35	0.39	0.42	0.44	0.48	0.50
	0.30		NA	NA	0.26	0.29	0.34	0.37	0.40	0.44	0.47
	0.20		NA	NA	0.22	0.24	0.29	0.33	0.35	0.40	0.43
0.30	0.50	0.20	NA	NA	0.20	0.22	0.25	0.27	0.29	0.31	0.33
	0.30		NA	NA	0.17	0.18	0.21	0.24	0.25	0.28	0.31
	0.20		NA	NA	0.13	0.15	0.18	0.21	0.22	0.26	0.28
0.00	0.00	0.00	NA	NA	0.00	0.01	0.02	0.02	0.03	0.05	0.06
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 = 2.50								
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	NA	NA	0.73	0.67	0.57	0.50	0.44	0.37	0.32
	0.30		NA	NA	0.64	0.59	0.51	0.46	0.41	0.35	0.30
	0.20		NA	NA	0.56	0.53	0.47	0.42	0.39	0.33	0.29
0.50	0.50	0.20	NA	NA	0.59	0.54	0.47	0.41	0.37	0.31	0.27
	0.30		NA	NA	0.52	0.48	0.43	0.38	0.35	0.30	0.26
	0.20		NA	NA	0.46	0.44	0.39	0.36	0.33	0.28	0.25
0.30	0.50	0.20	NA	NA	0.45	0.42	0.37	0.33	0.31	0.26	0.23
	0.30		NA	NA	0.41	0.38	0.34	0.31	0.29	0.25	0.22
	0.20		NA	NA	0.37	0.35	0.32	0.29	0.27	0.24	0.21
0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.21	0.20	0.19	0.17	0.16
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 = 2.50								
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	NA	NA	0.94	0.94	0.95	0.95	0.96	0.96	0.96
	0.30		NA	NA	0.87	0.88	0.89	0.90	0.91	0.91	0.92
	0.20		NA	NA	0.82	0.83	0.84	0.85	0.86	0.88	0.89
0.50	0.50	0.20	NA	NA	0.90	0.91	0.91	0.91	0.92	0.92	0.92
	0.30		NA	NA	0.85	0.86	0.87	0.87	0.88	0.88	0.89
	0.20		NA	NA	0.81	0.82	0.83	0.84	0.84	0.85	0.86
0.30	0.50	0.20	NA	NA	0.87	0.87	0.88	0.88	0.88	0.88	0.88
	0.30		NA	NA	0.83	0.83	0.84	0.85	0.85	0.85	0.86
	0.20		NA	NA	0.80	0.80	0.81	0.82	0.82	0.83	0.83
0.00	0.00	0.00	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
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	0.7	0.0	0.0	0.00	0.00
1.0-2.0	0.7	0.0	0.0	0.00	0.00
2.0-3.0	0.7	0.0	0.0	0.00	0.00
3.0-4.0	0.7	0.0	0.0	0.00	0.00
4.0-5.0	0.8	0.0	0.0	0.00	0.00
5.0-6.0	0.7	0.0	0.0	0.00	0.01
6.0-7.0	0.8	0.0	0.0	0.00	0.01
7.0-8.0	0.8	0.0	0.0	0.00	0.01
8.0-9.0	0.8	0.0	0.1	0.00	0.01
9.0-10.0	0.8	0.0	0.1	0.00	0.01
10.0-11.0	0.8	0.0	0.1	0.00	0.02
11.0-12.0	0.8	0.0	0.1	0.00	0.02
12.0-13.0	0.8	0.0	0.1	0.00	0.03
13.0-14.0	0.9	0.0	0.1	0.00	0.03
14.0-15.0	0.9	0.0	0.2	0.00	0.04
15.0-16.0	0.9	0.0	0.2	0.01	0.04
16.0-17.0	0.9	0.0	0.2	0.01	0.05
17.0-18.0	0.9	0.0	0.3	0.01	0.05
18.0-19.0	0.9	0.0	0.3	0.01	0.06
19.0-20.0	0.9	0.0	0.3	0.01	0.06
20.0-21.0	0.9	0.0	0.4	0.01	0.07
21.0-22.0	0.9	0.0	0.4	0.01	0.08
22.0-23.0	0.9	0.0	0.4	0.01	0.09
23.0-24.0	0.9	0.0	0.5	0.01	0.09
24.0-25.0	0.9	0.0	0.5	0.01	0.10
25.0-26.0	0.9	0.0	0.5	0.01	0.11
26.0-27.0	0.9	0.0	0.6	0.01	0.12
27.0-28.0	0.9	0.0	0.6	0.01	0.13
28.0-29.0	0.9	0.0	0.7	0.01	0.14
29.0-30.0	0.9	0.0	0.7	0.01	0.15
30.0-31.0	0.9	0.1	0.8	0.01	0.16
31.0-32.0	0.9	0.1	0.8	0.01	0.17
32.0-33.0	0.9	0.1	0.9	0.01	0.18
33.0-34.0	0.9	0.1	1.0	0.01	0.19
34.0-35.0	0.9	0.1	1.0	0.01	0.21
35.0-36.0	0.9	0.1	1.1	0.01	0.22

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	0.9	0.1	1.1	0.01	0.23
37.0-38.0	0.9	0.1	1.2	0.01	0.24
38.0-39.0	0.9	0.1	1.3	0.01	0.26
39.0-40.0	0.9	0.1	1.3	0.01	0.27
40.0-41.0	0.9	0.1	1.4	0.01	0.28
41.0-42.0	0.9	0.1	1.4	0.01	0.30
42.0-43.0	0.9	0.1	1.5	0.01	0.31
43.0-44.0	0.9	0.1	1.6	0.01	0.32
44.0-45.0	0.9	0.1	1.6	0.01	0.34
45.0-46.0	0.9	0.1	1.7	0.01	0.35
46.0-47.0	0.9	0.1	1.8	0.01	0.37
47.0-48.0	0.9	0.1	1.9	0.01	0.38
48.0-49.0	0.9	0.1	1.9	0.01	0.39
49.0-50.0	0.9	0.1	2.0	0.01	0.41
50.0-51.0	0.9	0.1	2.1	0.01	0.42
51.0-52.0	0.9	0.1	2.2	0.02	0.44
52.0-53.0	0.9	0.1	2.2	0.02	0.45
53.0-54.0	0.9	0.1	2.3	0.02	0.47
54.0-55.0	0.9	0.1	2.4	0.02	0.49
55.0-56.0	0.9	0.1	2.5	0.02	0.50
56.0-57.0	1.0	0.1	2.6	0.02	0.52
57.0-58.0	1.1	0.1	2.7	0.02	0.54
58.0-59.0	1.2	0.1	2.8	0.02	0.57
59.0-60.0	1.4	0.1	2.9	0.03	0.59
60.0-61.0	1.7	0.2	3.1	0.03	0.63
61.0-62.0	2.1	0.2	3.3	0.04	0.67
62.0-63.0	2.6	0.2	3.5	0.05	0.72
63.0-64.0	3.2	0.3	3.8	0.06	0.78
64.0-65.0	3.9	0.4	4.2	0.08	0.86
65.0-66.0	4.8	0.5	4.7	0.10	0.96
66.0-67.0	6.0	0.6	5.3	0.12	1.08
67.0-68.0	7.5	0.8	6.1	0.16	1.24
68.0-69.0	9.4	1.0	7.0	0.20	1.44
69.0-70.0	11.7	1.2	8.2	0.25	1.68
70.0-71.0	14.5	1.5	9.7	0.31	1.99
71.0-72.0	17.7	1.8	11.6	0.38	2.36

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	21.3	2.2	13.8	0.45	2.82
73.0-74.0	25.2	2.6	16.4	0.54	3.36
74.0-75.0	29.2	3.1	19.5	0.63	3.99
75.0-76.0	33.3	3.5	23.1	0.72	4.71
76.0-77.0	37.3	4.0	27.0	0.81	5.52
77.0-78.0	41.2	4.4	31.4	0.90	6.42
78.0-79.0	45.1	4.8	36.3	0.99	7.41
79.0-80.0	49.0	5.3	41.6	1.08	8.49
80.0-81.0	52.6	5.7	47.3	1.16	9.65
81.0-82.0	55.9	6.1	53.3	1.24	10.89
82.0-83.0	58.7	6.4	59.7	1.30	12.20
83.0-84.0	60.8	6.6	66.3	1.35	13.55
84.0-85.0	62.5	6.8	73.2	1.39	14.94
85.0-86.0	63.6	7.0	80.1	1.42	16.36
86.0-87.0	64.5	7.1	87.2	1.44	17.80
87.0-88.0	65.1	7.1	94.3	1.46	19.26
88.0-89.0	65.6	7.2	101.5	1.47	20.73
89.0-90.0	66.0	7.2	108.7	1.48	22.21
90.0-91.0	66.2	7.3	116.0	1.48	23.69
91.0-92.0	66.4	7.3	123.3	1.49	25.18
92.0-93.0	66.5	7.3	130.5	1.49	26.67
93.0-94.0	66.6	7.3	137.8	1.49	28.16
94.0-95.0	66.8	7.3	145.1	1.49	29.65
95.0-96.0	67.0	7.3	152.5	1.49	31.14
96.0-97.0	67.3	7.3	159.8	1.50	32.64
97.0-98.0	67.6	7.3	167.1	1.50	34.14
98.0-99.0	67.9	7.4	174.5	1.50	35.64
99.0-100.0	68.2	7.4	181.9	1.51	37.15
100.0-101.0	68.5	7.4	189.3	1.51	38.66
101.0-102.0	68.8	7.4	196.7	1.51	40.17
102.0-103.0	69.1	7.4	204.1	1.51	41.68
103.0-104.0	69.4	7.4	211.5	1.51	43.19
104.0-105.0	69.6	7.4	218.9	1.51	44.70
105.0-106.0	69.8	7.4	226.2	1.51	46.21
106.0-107.0	70.0	7.4	233.6	1.50	47.71
107.0-108.0	70.1	7.3	240.9	1.50	49.21

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	70.2	7.3	248.2	1.49	50.70
109.0-110.0	70.3	7.3	255.5	1.48	52.18
110.0-111.0	70.3	7.2	262.7	1.47	53.66
111.0-112.0	70.3	7.2	269.9	1.46	55.12
112.0-113.0	70.3	7.1	277.0	1.45	56.58
113.0-114.0	70.2	7.1	284.0	1.44	58.02
114.0-115.0	70.1	7.0	291.0	1.43	59.45
115.0-116.0	70.0	6.9	298.0	1.41	60.86
116.0-117.0	69.7	6.8	304.8	1.40	62.26
117.0-118.0	69.5	6.8	311.6	1.38	63.64
118.0-119.0	69.4	6.7	318.3	1.37	65.01
119.0-120.0	69.2	6.6	324.9	1.35	66.36
120.0-121.0	69.0	6.5	331.4	1.33	67.69
121.0-122.0	68.7	6.4	337.8	1.31	69.00
122.0-123.0	68.5	6.3	344.1	1.29	70.30
123.0-124.0	68.2	6.2	350.4	1.27	71.57
124.0-125.0	67.8	6.1	356.5	1.25	72.82
125.0-126.0	67.5	6.0	362.5	1.23	74.05
126.0-127.0	67.0	5.9	368.4	1.21	75.26
127.0-128.0	66.5	5.8	374.2	1.18	76.44
128.0-129.0	65.9	5.7	379.9	1.16	77.60
129.0-130.0	65.3	5.5	385.4	1.13	78.72
130.0-131.0	64.6	5.4	390.8	1.10	79.82
131.0-132.0	63.9	5.2	396.0	1.07	80.90
132.0-133.0	63.1	5.1	401.1	1.04	81.94
133.0-134.0	62.2	4.9	406.1	1.01	82.95
134.0-135.0	61.4	4.8	410.9	0.98	83.93
135.0-136.0	60.8	4.7	415.6	0.95	84.88
136.0-137.0	60.3	4.5	420.1	0.93	85.81
137.0-138.0	59.6	4.4	424.5	0.90	86.71
138.0-139.0	58.8	4.3	428.8	0.87	87.59
139.0-140.0	58.0	4.1	432.9	0.84	88.43
140.0-141.0	57.0	4.0	436.9	0.81	89.24
141.0-142.0	55.4	3.8	440.7	0.77	90.01
142.0-143.0	53.7	3.6	444.3	0.73	90.75
143.0-144.0	52.5	3.4	447.7	0.70	91.44

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	51.4	3.3	451.0	0.67	92.11
145.0-146.0	50.1	3.1	454.1	0.64	92.75
146.0-147.0	48.7	2.9	457.0	0.60	93.35
147.0-148.0	47.4	2.8	459.8	0.57	93.92
148.0-149.0	46.2	2.6	462.5	0.54	94.46
149.0-150.0	44.9	2.5	465.0	0.51	94.97
150.0-151.0	43.7	2.4	467.3	0.48	95.45
151.0-152.0	42.4	2.2	469.5	0.45	95.91
152.0-153.0	41.1	2.1	471.6	0.43	96.33
153.0-154.0	39.7	1.9	473.6	0.40	96.73
154.0-155.0	38.4	1.8	475.4	0.37	97.10
155.0-156.0	37.1	1.7	477.1	0.34	97.44
156.0-157.0	35.9	1.6	478.6	0.32	97.77
157.0-158.0	34.6	1.4	480.1	0.30	98.06
158.0-159.0	33.1	1.3	481.4	0.27	98.33
159.0-160.0	31.5	1.2	482.6	0.25	98.58
160.0-161.0	29.8	1.1	483.7	0.22	98.80
161.0-162.0	27.8	1.0	484.7	0.20	99.00
162.0-163.0	25.6	0.8	485.5	0.17	99.17
163.0-164.0	23.3	0.7	486.2	0.15	99.32
164.0-165.0	21.2	0.6	486.9	0.13	99.45
165.0-166.0	19.2	0.5	487.4	0.11	99.56
166.0-167.0	17.5	0.4	487.8	0.09	99.65
167.0-168.0	15.9	0.4	488.2	0.08	99.72
168.0-169.0	14.5	0.3	488.5	0.06	99.79
169.0-170.0	13.0	0.3	488.8	0.05	99.84
170.0-171.0	11.6	0.2	489.0	0.04	99.89
171.0-172.0	10.4	0.2	489.2	0.03	99.92
172.0-173.0	9.2	0.1	489.3	0.03	99.95
173.0-174.0	8.2	0.1	489.4	0.02	99.97
174.0-175.0	7.1	0.1	489.5	0.02	99.98
175.0-176.0	5.6	0.0	489.5	0.01	99.99
176.0-177.0	3.7	0.0	489.6	0.01	100.00
177.0-178.0	2.1	0.0	489.6	0.00	100.00
178.0-179.0	1.1	0.0	489.6	0.00	100.00
179.0-180.0	0.6	0.0	489.6	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: