

Report No.:

Test Time: 2022/8/29 17:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: PPNP230306060WH

Lamp Catalog: DOWN

Luminous Width (mm): 24

Voltage: 24.0 V

Power: 19.66 W

Luminaire Description: PPNP230306060WH

Luminous Length (mm): 550

Luminous Height (mm): 100

Current: 0.820 A

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 678.6 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(10%,50%): H72.7,H55.8

Vertical Diffuse Angle(10%,50%): V72.5,V55.7

Luminaire Efficacy Rating (LER): 35

Max. Intensity: 943.72 cd

Total Rated Lamp Lumens: 678.6 lm

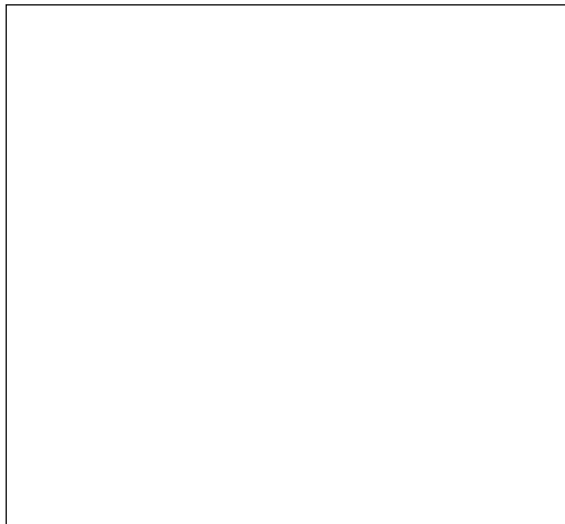
Efficiency: 100%

Upward Ratio: 2%

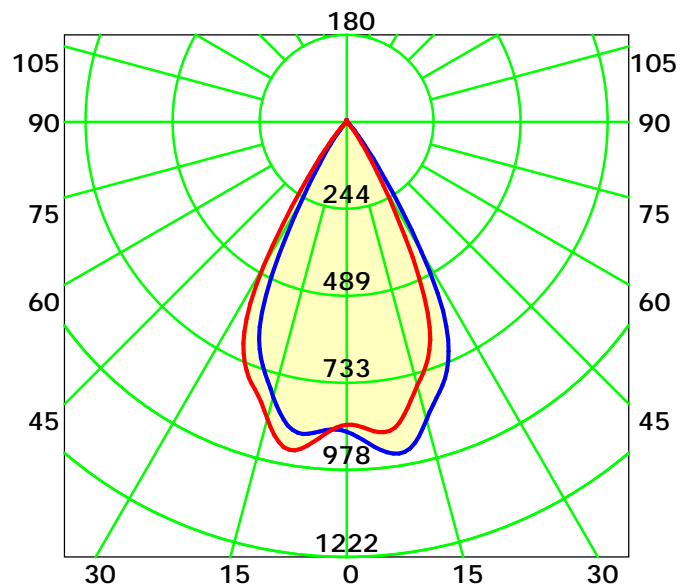
Central Intensity: 870.81 cd

Pos of Max. Intensity: H0 V9

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 55.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

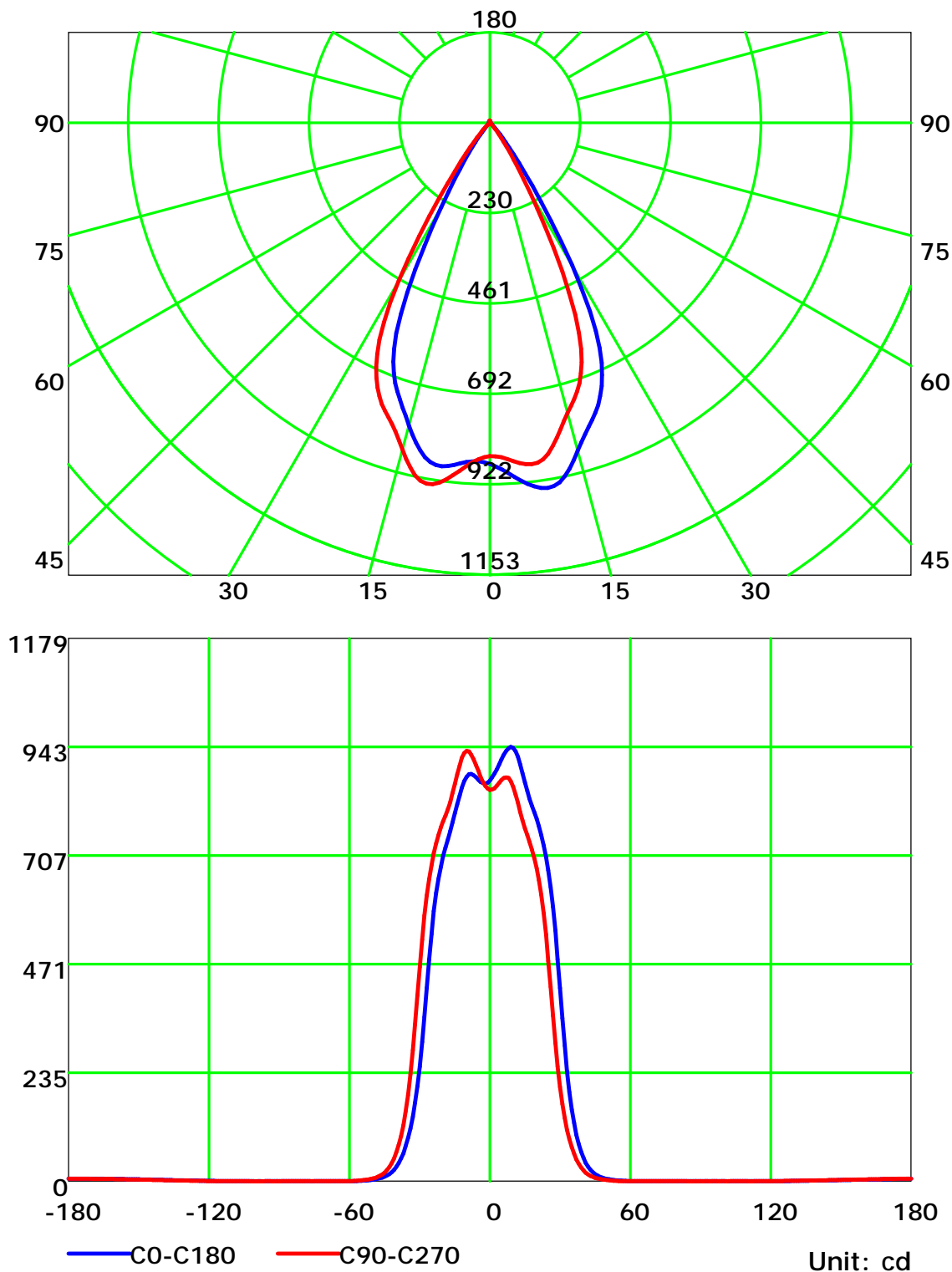
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

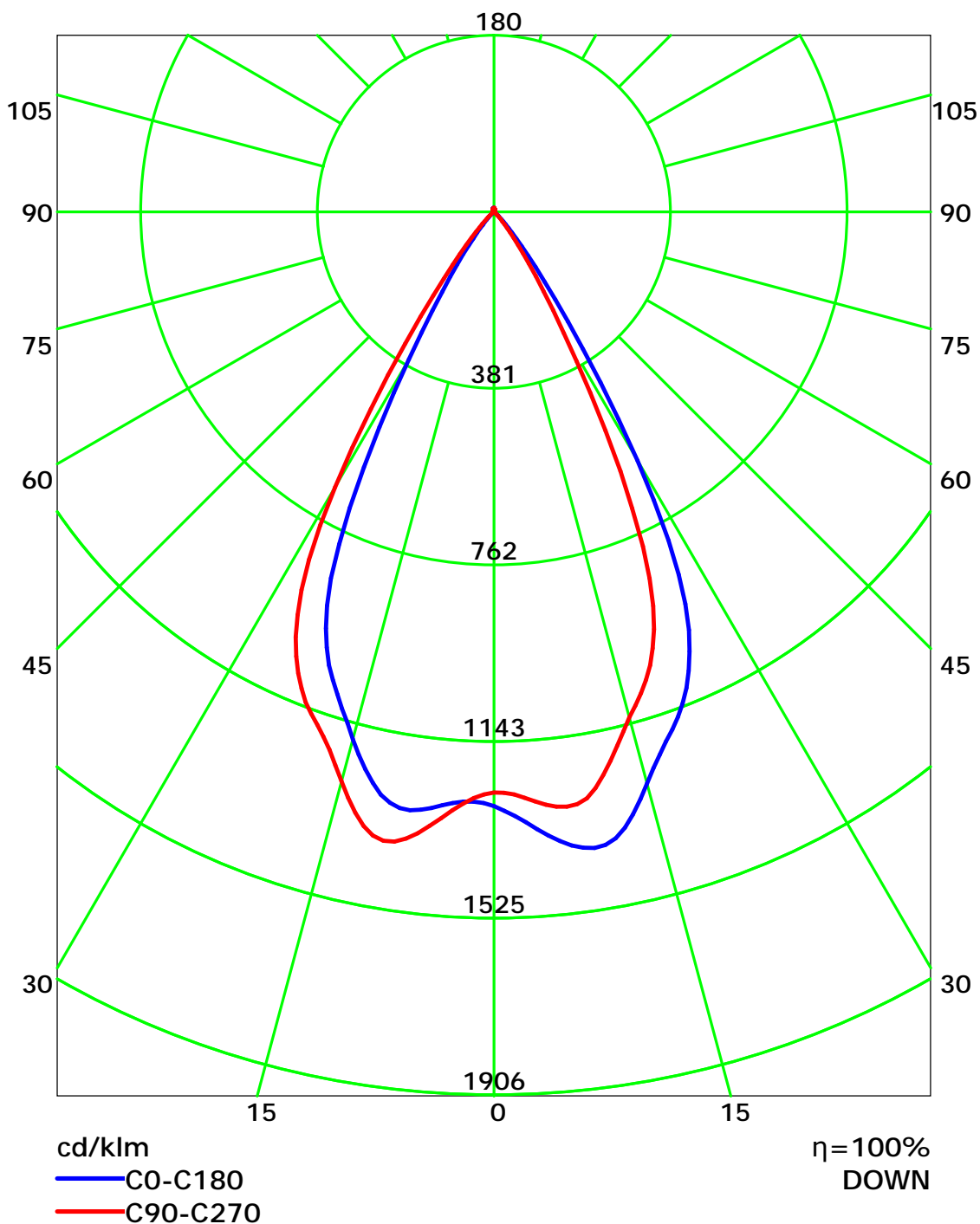
Luminous Intensity Distribution Curve



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

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: Jacky

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

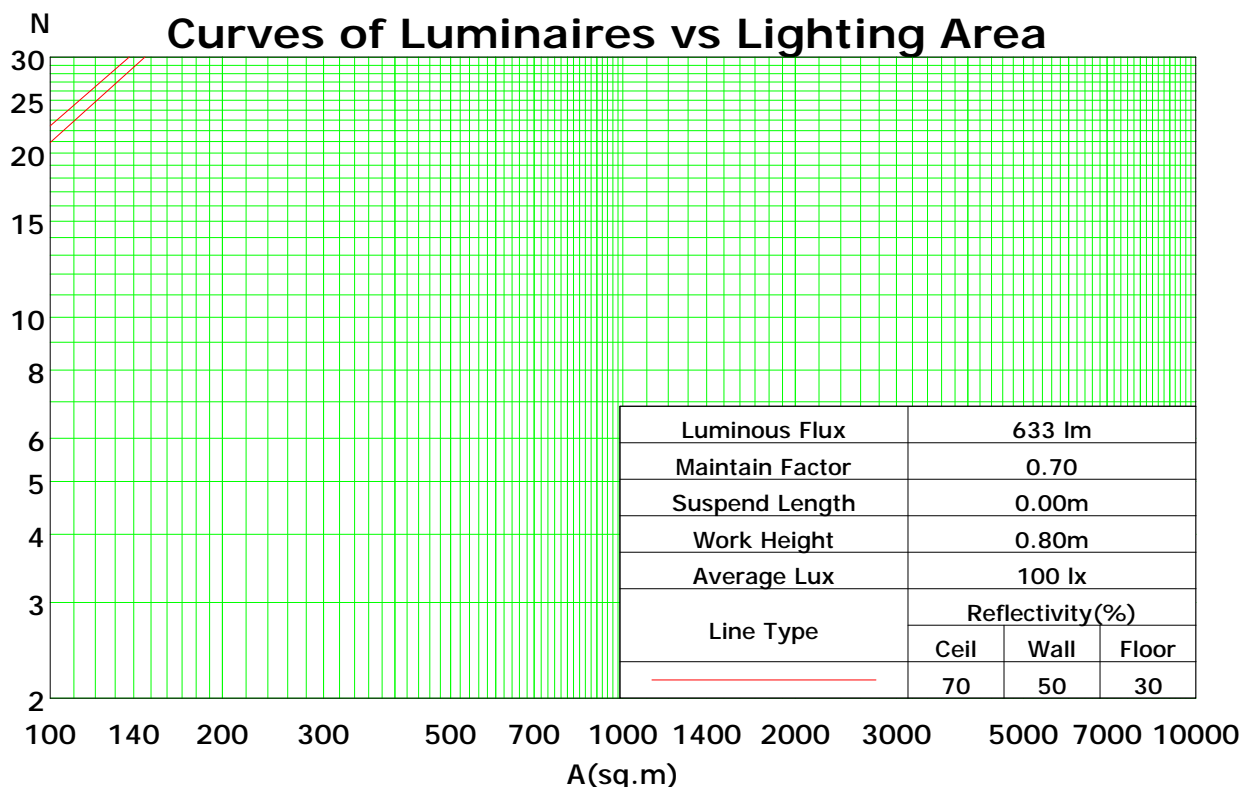
Coefficients Of Utilization - Zonal Cavity Method

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	110	110	110	105	105	105	101	101	101	98
1	113	111	109	106	111	109	106	105	104	103	101	100	99	98	97	96	95	93
2	108	104	100	97	106	102	99	96	99	96	93	95	93	91	92	91	89	87
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	88	86	84	82
4	99	92	87	83	97	91	86	82	88	84	81	86	83	80	84	81	79	77
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	80	77	74	73
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	76	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	66	65
8	82	73	68	64	81	73	68	64	72	67	64	71	66	63	69	66	63	62
9	79	70	64	61	78	69	64	60	68	63	60	67	63	60	66	62	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	63	59	57	55

Spacing Criteria (0-180): 0.95

Spacing Criteria (90-270): 0.94

Spacing Criteria (Diagonal): 0.82



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

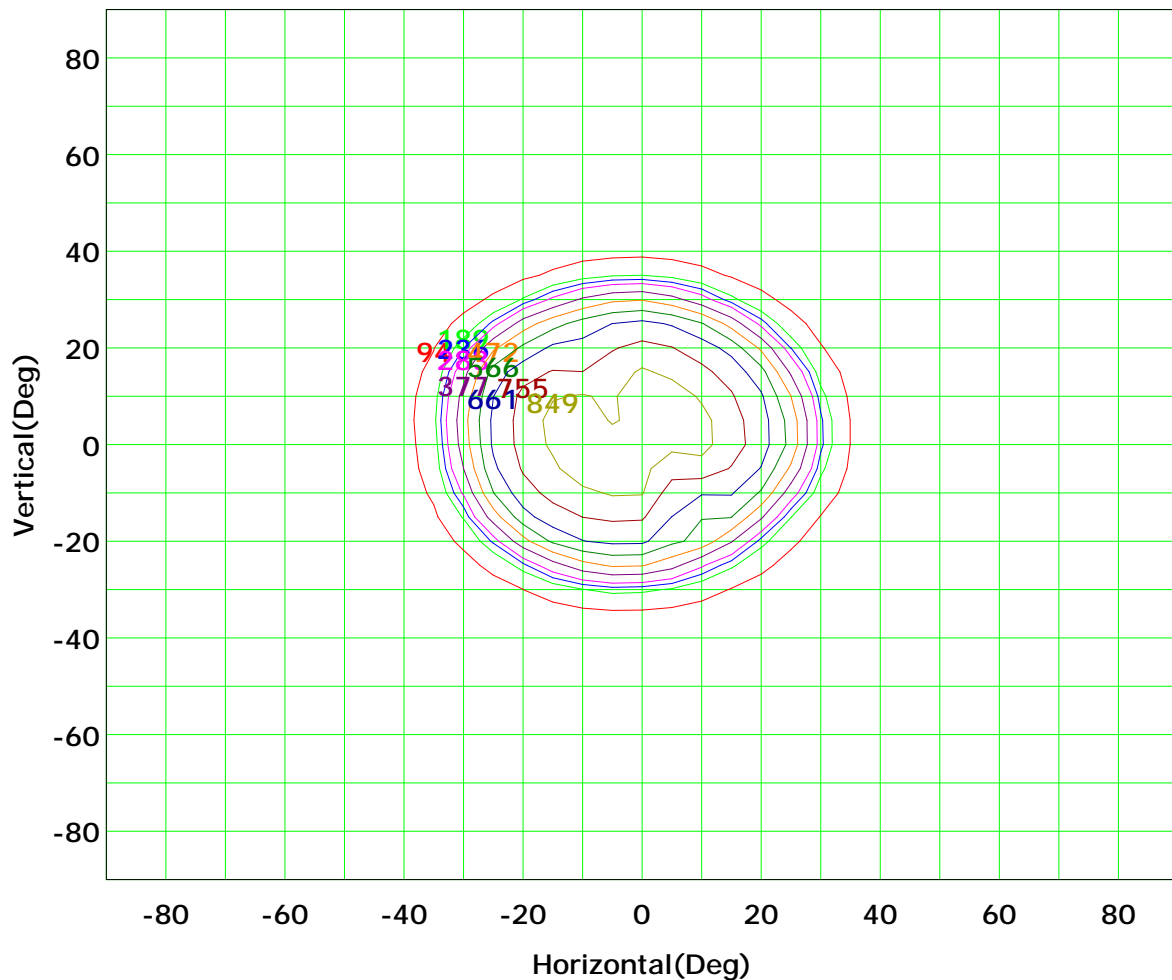
Distance: 9.028 m

Humidity: 60%

Inspector:



Isocandela (rectangle)



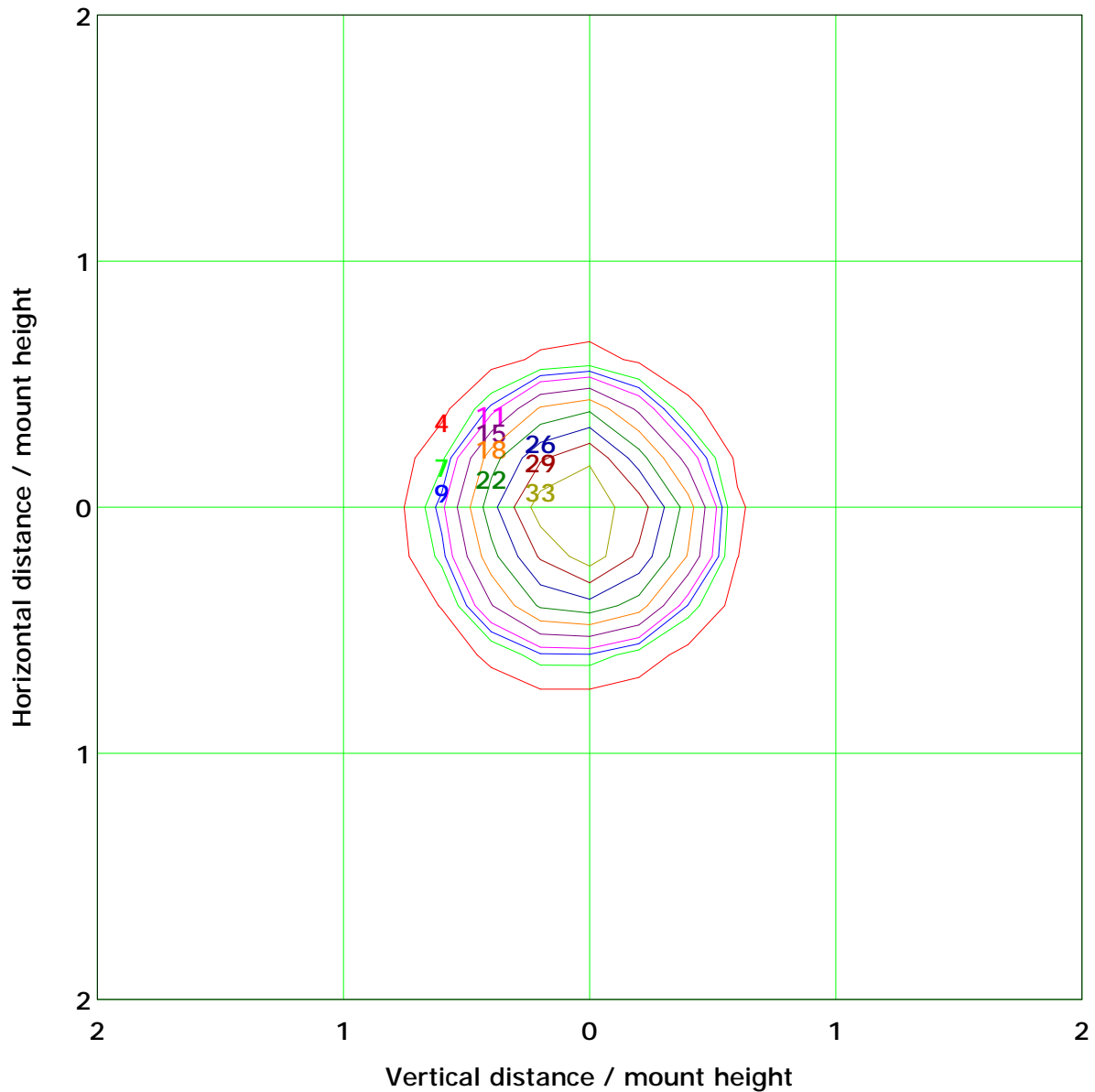
I_{max} (100%): 944 cd

(10%): 94 cd	(20%): 189 cd
(25%): 236 cd	(30%): 283 cd
(40%): 377 cd	(50%): 472 cd
(60%): 566 cd	(70%): 661 cd
(80%): 755 cd	(90%): 849 cd

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

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%): 36.6 lx	
(10%): 3.7 lx	(20%): 7.3 lx
(25%): 9.1 lx	(30%): 11.0 lx
(40%): 14.6 lx	(50%): 18.3 lx
(60%): 21.9 lx	(70%): 25.6 lx
(80%): 29.3 lx	(90%): 32.9 lx

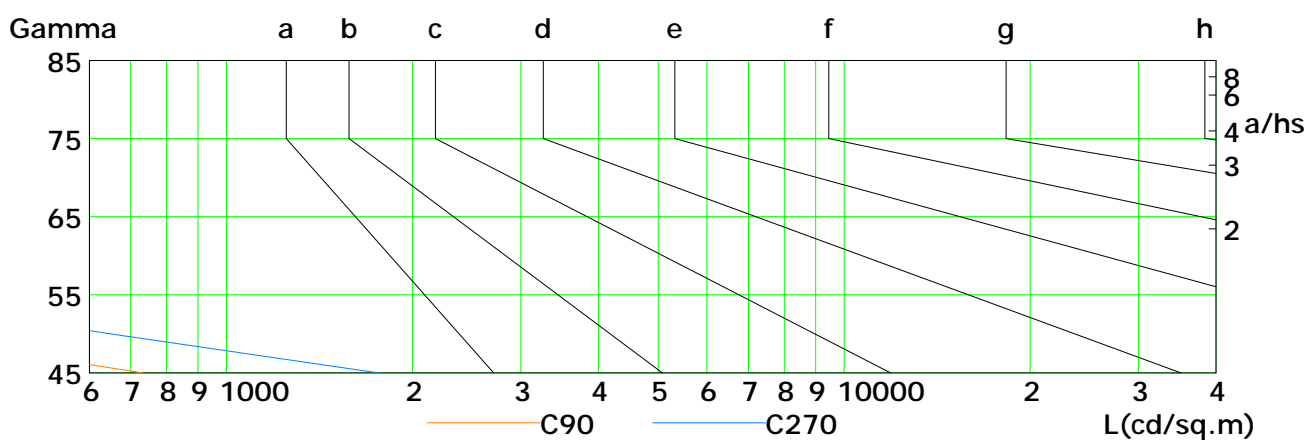
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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

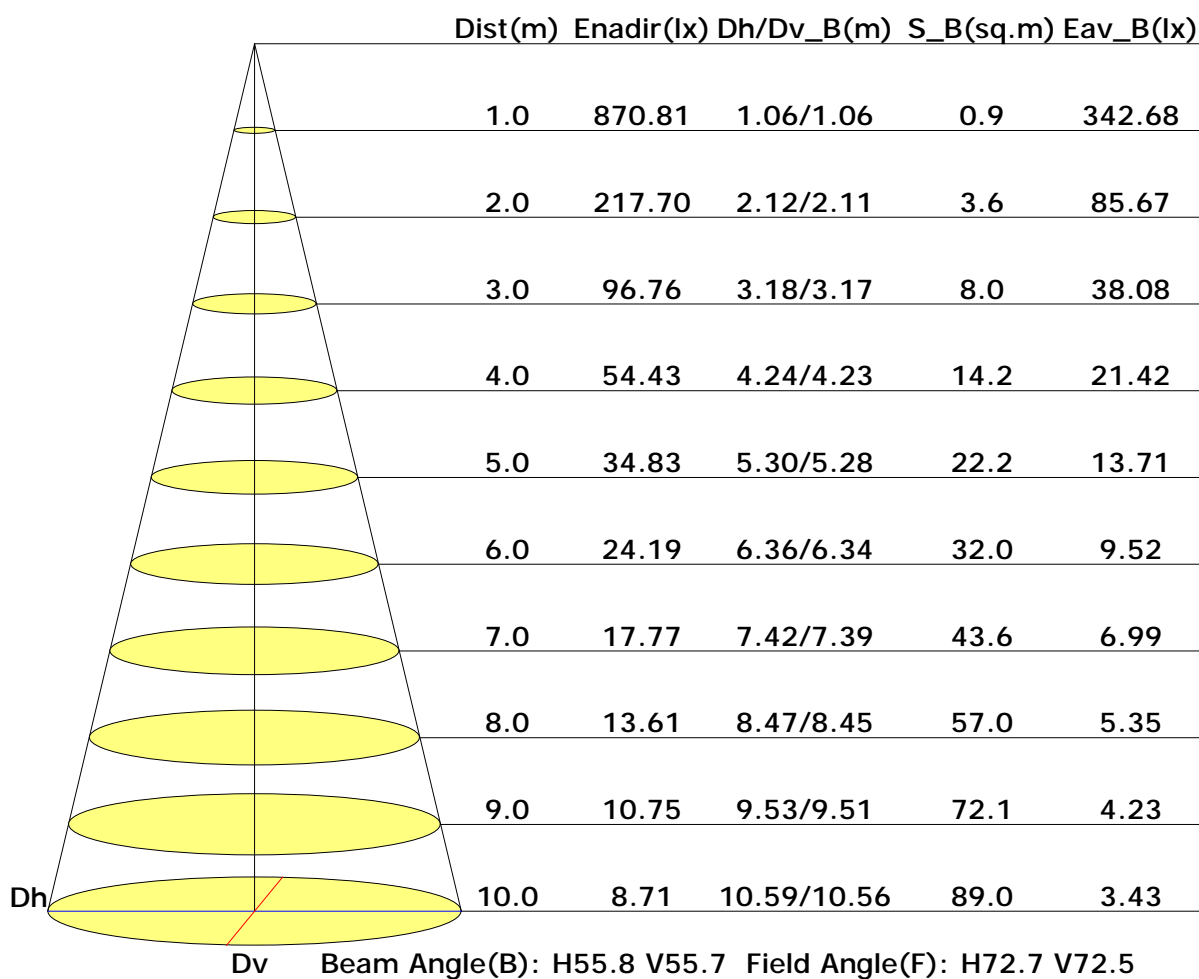


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	331	114	42	15	14	12	13	12	12
C90	732	294	113	70	86	95	106	127	150
C180	218	78	27	13	12	11	11	11	12
C270	1764	649	267	114	86	99	112	131	181

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

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

Illuminance at a Distance

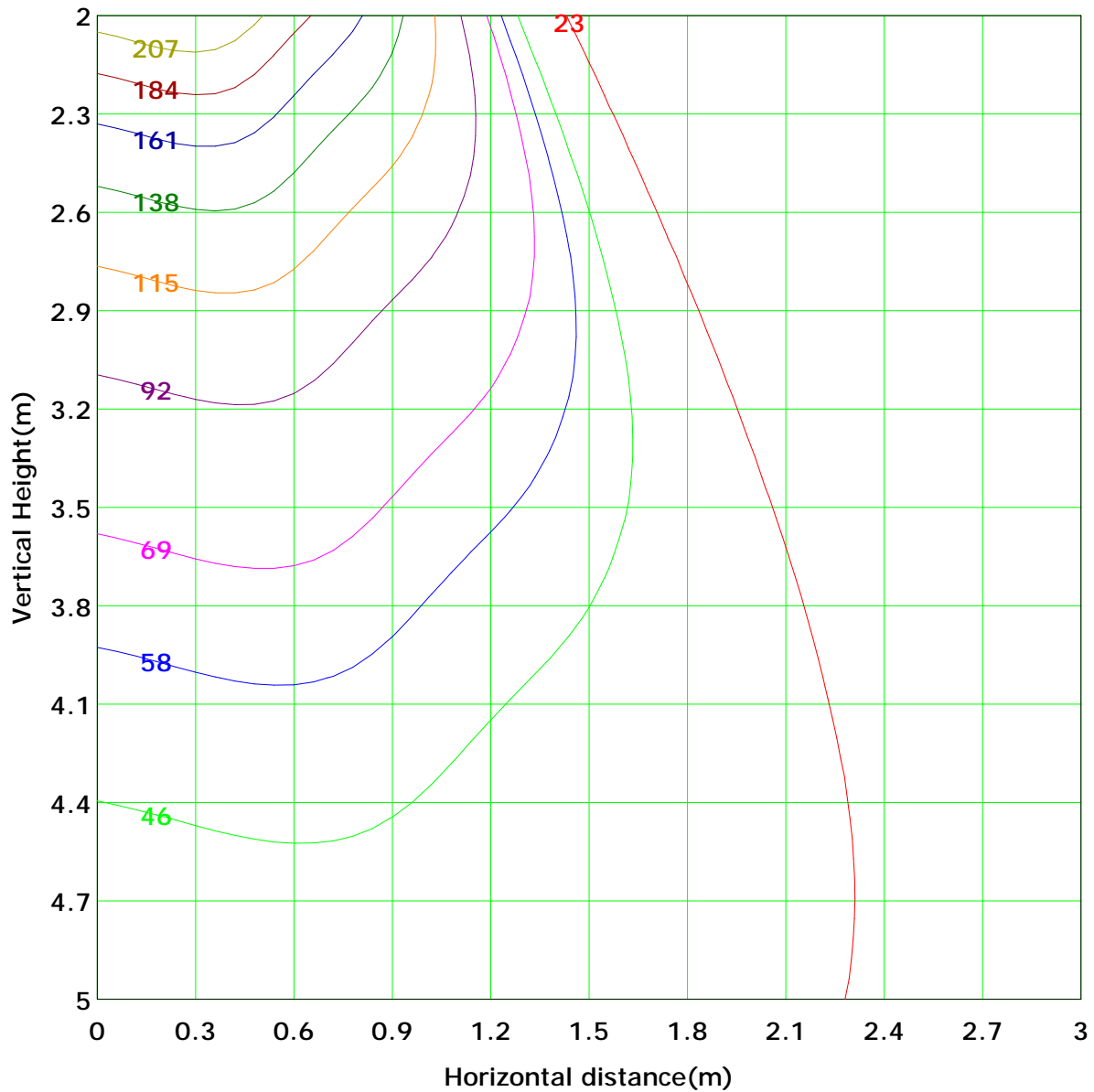


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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: 230.4 lx
(10%): 23.0 lx	(20%): 46.1 lx	
(25%): 57.6 lx	(30%): 69.1 lx	
(40%): 92.2 lx	(50%): 115.2 lx	
(60%): 138.2 lx	(70%): 161.3 lx	
(80%): 184.3 lx	(90%): 207.4 lx	

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

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

Area Flux Table

Unit: lm

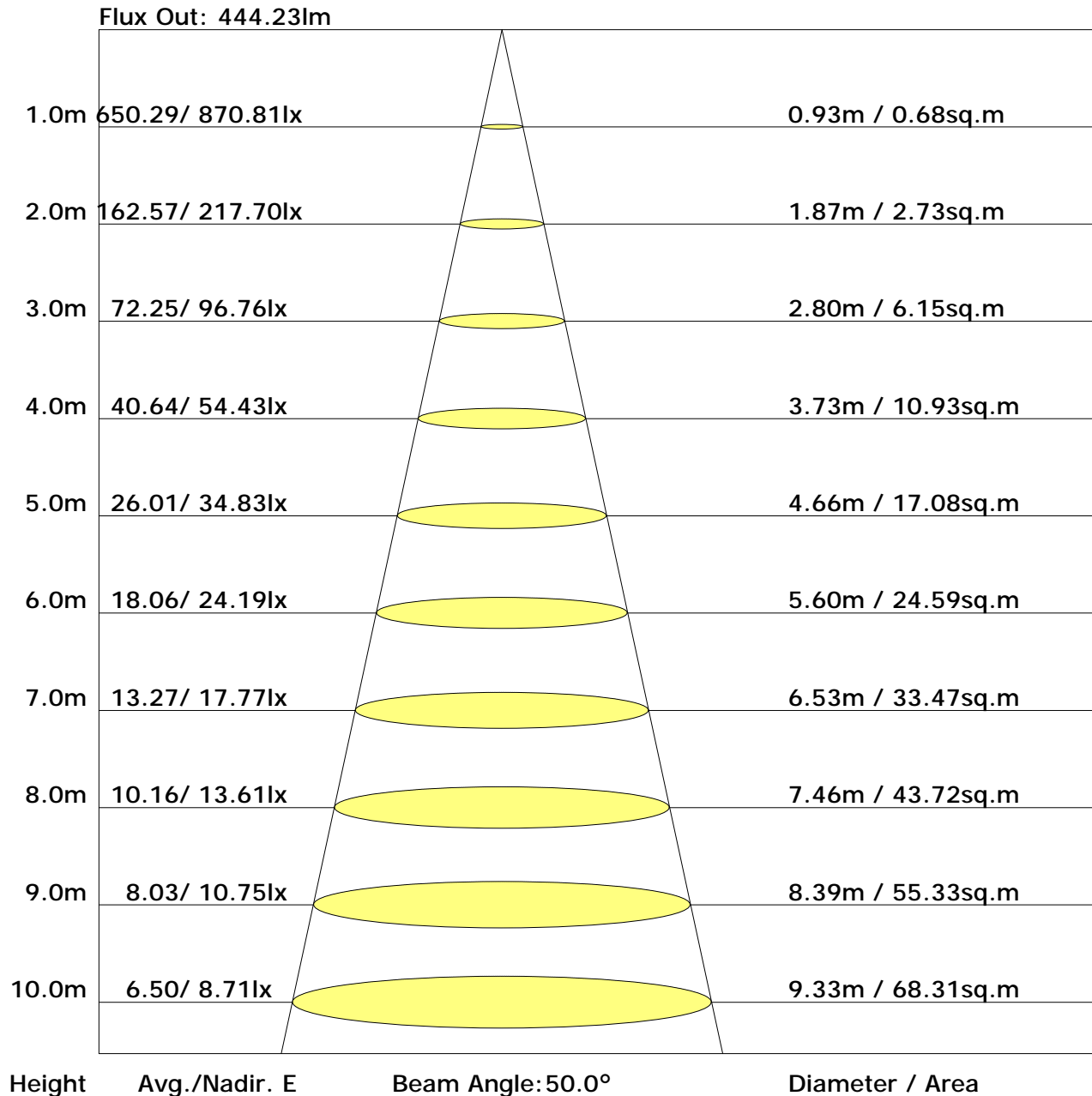
Vertical plane	Horizontal plane																	Flux(T) Flux(E)	Flux(T) Flux(E)	Flux(T) Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T) Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	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
-60	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
-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	0.0
-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	0.0
-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	0.0
-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	0.0
-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	0.0
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
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	0.0
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	0.0
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	0.0
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	0.0
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	0.0
60	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
70	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
80	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
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	0.0
Flux(T)	0.0	0.1	0.1	0.3	1.3	9.5	50.0	104.5	136.2	144.5	124.1	75.9	18.3	2.1	0.4	0.2	0.1	0.0	0.0	668
Flux(E)	0.0	0.0	0.0	0.0	0.0	4.5	46.5	101.5	133.5	141.9	121.3	72.7	13.5	0.0	0.0	0.0	0.0	0.0	0.0	635

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

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: Jacky

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	-10.2	-9.3	-9.8	-8.9	-8.6	-17.6	-16.7	-17.2	-16.4	-16.0
3H	-9.2	-8.4	-8.8	-8.0	-7.6	-15.5	-14.7	-15.1	-14.4	-14.0
4H	-8.4	-7.6	-7.9	-7.3	-6.8	-14.5	-13.8	-14.1	-13.4	-13.0
6H	-7.3	-6.6	-6.8	-6.2	-5.8	-13.6	-12.9	-13.1	-12.5	-12.0
8H	-6.6	-6.0	-6.1	-5.5	-5.1	-13.0	-12.4	-12.5	-12.0	-11.5
12H	-5.7	-5.2	-5.3	-4.7	-4.3	-12.5	-12.0	-12.1	-11.5	-11.1
X=4H Y=2H	-10.4	-9.6	-9.9	-9.3	-8.8	-16.8	-16.1	-16.4	-15.7	-15.3
3H	-9.2	-8.6	-8.7	-8.1	-7.7	-14.5	-13.9	-14.0	-13.5	-13.0
4H	-8.2	-7.7	-7.7	-7.2	-6.7	-13.4	-12.9	-12.9	-12.4	-11.9
6H	-7.0	-6.5	-6.5	-6.0	-5.5	-12.2	-11.8	-11.7	-11.3	-10.8
8H	-6.1	-5.7	-5.6	-5.2	-4.7	-11.6	-11.2	-11.1	-10.7	-10.2
12H	-5.2	-4.8	-4.6	-4.3	-3.8	-11.1	-10.7	-10.6	-10.2	-9.7
X=8H Y=4H	-8.2	-7.8	-7.7	-7.3	-6.8	-12.8	-12.4	-12.3	-11.9	-11.4
6H	-6.8	-6.5	-6.3	-6.0	-5.5	-11.4	-11.1	-10.9	-10.5	-10.0
8H	-5.9	-5.6	-5.4	-5.1	-4.5	-10.6	-10.3	-10.1	-9.8	-9.3
12H	-4.8	-4.6	-4.2	-4.0	-3.4	-9.9	-9.7	-9.4	-9.2	-8.5
X=12H Y=4H	-8.2	-7.9	-7.7	-7.4	-6.8	-12.6	-12.3	-12.1	-11.8	-11.2
6H	-6.8	-6.5	-6.3	-6.0	-5.4	-11.2	-10.9	-10.6	-10.4	-9.8
8H	-5.9	-5.6	-5.3	-5.1	-4.5	-10.3	-10.0	-9.7	-9.5	-8.9

Calculate in accordance with CIE 190:2010

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

 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 = 0.75								
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	0.86	0.92	0.96	0.99	1.03	1.05	1.07	1.09	1.11
	0.30		0.82	0.88	0.92	0.95	1.00	1.03	1.04	1.07	1.09
	0.20		0.78	0.85	0.89	0.93	0.97	1.00	1.02	1.05	1.07
0.50	0.50	0.20	0.85	0.90	0.94	0.97	1.00	1.02	1.03	1.05	1.06
	0.30		0.81	0.87	0.91	0.94	0.97	1.00	1.01	1.03	1.05
	0.20		0.78	0.84	0.88	0.91	0.95	0.98	1.00	1.02	1.04
0.30	0.50	0.20	0.83	0.89	0.92	0.94	0.97	0.99	1.00	1.01	1.02
	0.30		0.80	0.86	0.89	0.92	0.95	0.97	0.98	1.00	1.01
	0.20		0.77	0.83	0.87	0.90	0.93	0.95	0.97	0.99	1.00
0.00	0.00	0.00	0.76	0.81	0.85	0.87	0.90	0.92	0.93	0.94	0.95
Rating: 20W 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 = 0.75									
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	0.55	0.44	0.37	0.32	0.25	0.21	0.18	0.14	0.11	
	0.30		0.46	0.38	0.32	0.28	0.23	0.19	0.16	0.13	0.11	
	0.20		0.40	0.33	0.29	0.25	0.21	0.17	0.15	0.12	0.10	
0.50	0.50	0.20	0.52	0.41	0.34	0.29	0.23	0.23	0.16	0.12	0.10	
	0.30		0.44	0.36	0.30	0.26	0.21	0.17	0.15	0.12	0.10	
	0.20		0.38	0.32	0.27	0.24	0.19	0.16	0.14	0.11	0.09	
0.30	0.50	0.20	0.50	0.39	0.32	0.27	0.21	0.17	0.15	0.11	0.09	
	0.30		0.43	0.34	0.29	0.25	0.19	0.16	0.14	0.11	0.09	
	0.20		0.37	0.30	0.26	0.23	0.18	0.15	0.13	0.10	0.08	
0.00	0.00	0.00	0.23	0.18	0.14	0.12	0.09	0.07	0.06	0.05	0.04	
Rating: 20W 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 = 0.75								
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	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22
	0.30		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	0.20
0.50	0.50	0.20	0.14	0.15	0.16	0.17	0.19	0.19	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19
0.30	0.50	0.20	0.13	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19
	0.20		0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.19
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Rating: 20W 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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	832.2	0.8	0.8	0.12	0.12
1.0-2.0	839.4	2.4	3.2	0.36	0.47
2.0-3.0	847.3	4.1	7.3	0.60	1.07
3.0-4.0	849.3	5.7	12.9	0.84	1.91
4.0-5.0	853.3	7.3	20.3	1.08	2.99
5.0-6.0	864.3	9.1	29.4	1.34	4.33
6.0-7.0	873.1	10.8	40.2	1.60	5.93
7.0-8.0	878.5	12.6	52.8	1.85	7.78
8.0-9.0	882.1	14.3	67.1	2.11	9.89
9.0-10.0	880.7	15.9	83.0	2.35	12.23
10.0-11.0	871.9	17.4	100.4	2.57	14.80
11.0-12.0	859.1	18.8	119.2	2.77	17.57
12.0-13.0	840.3	19.9	139.2	2.94	20.51
13.0-14.0	820.2	21.0	160.2	3.09	23.60
14.0-15.0	806.2	22.1	182.3	3.26	26.86
15.0-16.0	791.6	23.2	205.5	3.42	30.28
16.0-17.0	775.1	24.1	229.6	3.56	33.84
17.0-18.0	758.0	25.0	254.6	3.68	37.52
18.0-19.0	739.6	25.7	280.4	3.79	41.32
19.0-20.0	720.0	26.4	306.7	3.88	45.20
20.0-21.0	705.6	27.1	333.8	3.99	49.19
21.0-22.0	690.9	27.8	361.6	4.09	53.28
22.0-23.0	664.2	27.9	389.5	4.11	57.39
23.0-24.0	631.8	27.6	417.1	4.07	61.46
24.0-25.0	596.6	27.1	444.2	4.00	65.46
25.0-26.0	555.1	26.2	470.4	3.86	69.32
26.0-27.0	508.1	24.9	495.3	3.66	72.99
27.0-28.0	455.9	23.1	518.4	3.40	76.39
28.0-29.0	406.3	21.3	539.6	3.13	79.52
29.0-30.0	359.1	19.4	559.0	2.86	82.38
30.0-31.0	309.0	17.2	576.2	2.53	84.91
31.0-32.0	261.3	15.0	591.2	2.21	87.12
32.0-33.0	218.1	12.9	604.1	1.89	89.01
33.0-34.0	180.1	10.9	615.0	1.61	90.62
34.0-35.0	146.9	9.1	624.1	1.34	91.96
35.0-36.0	118.9	7.6	631.7	1.12	93.08

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

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	96.0	6.3	637.9	0.92	94.00
37.0-38.0	76.9	5.1	643.1	0.76	94.76
38.0-39.0	61.6	4.2	647.3	0.62	95.38
39.0-40.0	49.2	3.4	650.7	0.51	95.89
40.0-41.0	39.2	2.8	653.5	0.41	96.30
41.0-42.0	31.1	2.3	655.7	0.33	96.63
42.0-43.0	24.7	1.8	657.6	0.27	96.90
43.0-44.0	19.6	1.5	659.0	0.22	97.12
44.0-45.0	15.6	1.2	660.2	0.18	97.29
45.0-46.0	12.5	1.0	661.2	0.14	97.44
46.0-47.0	10.1	0.8	662.0	0.12	97.56
47.0-48.0	8.2	0.7	662.7	0.10	97.65
48.0-49.0	6.7	0.5	663.2	0.08	97.73
49.0-50.0	5.4	0.5	663.7	0.07	97.80
50.0-51.0	4.5	0.4	664.1	0.06	97.86
51.0-52.0	3.7	0.3	664.4	0.05	97.90
52.0-53.0	3.0	0.3	664.6	0.04	97.94
53.0-54.0	2.5	0.2	664.9	0.03	97.97
54.0-55.0	2.1	0.2	665.0	0.03	98.00
55.0-56.0	1.7	0.2	665.2	0.02	98.02
56.0-57.0	1.4	0.1	665.3	0.02	98.04
57.0-58.0	1.2	0.1	665.4	0.02	98.06
58.0-59.0	1.0	0.1	665.5	0.01	98.07
59.0-60.0	0.9	0.1	665.6	0.01	98.08
60.0-61.0	0.8	0.1	665.7	0.01	98.09
61.0-62.0	0.7	0.1	665.8	0.01	98.11
62.0-63.0	0.7	0.1	665.8	0.01	98.12
63.0-64.0	0.7	0.1	665.9	0.01	98.13
64.0-65.0	0.7	0.1	666.0	0.01	98.14
65.0-66.0	0.7	0.1	666.0	0.01	98.14
66.0-67.0	0.7	0.1	666.1	0.01	98.15
67.0-68.0	0.7	0.1	666.2	0.01	98.16
68.0-69.0	0.7	0.1	666.2	0.01	98.17
69.0-70.0	0.7	0.1	666.3	0.01	98.18
70.0-71.0	0.7	0.1	666.4	0.01	98.19
71.0-72.0	0.7	0.1	666.4	0.01	98.20

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

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	0.7	0.1	666.5	0.01	98.21
73.0-74.0	0.7	0.1	666.6	0.01	98.23
74.0-75.0	0.6	0.1	666.6	0.01	98.24
75.0-76.0	0.6	0.1	666.7	0.01	98.25
76.0-77.0	0.6	0.1	666.8	0.01	98.26
77.0-78.0	0.6	0.1	666.8	0.01	98.27
78.0-79.0	0.6	0.1	666.9	0.01	98.28
79.0-80.0	0.6	0.1	667.0	0.01	98.29
80.0-81.0	0.6	0.1	667.0	0.01	98.30
81.0-82.0	0.6	0.1	667.1	0.01	98.31
82.0-83.0	0.6	0.1	667.2	0.01	98.32
83.0-84.0	0.6	0.1	667.3	0.01	98.33
84.0-85.0	0.6	0.1	667.3	0.01	98.34
85.0-86.0	0.6	0.1	667.4	0.01	98.35
86.0-87.0	0.6	0.1	667.5	0.01	98.36
87.0-88.0	0.6	0.1	667.5	0.01	98.37
88.0-89.0	0.6	0.1	667.6	0.01	98.38
89.0-90.0	0.6	0.1	667.7	0.01	98.39
90.0-91.0	0.6	0.1	667.7	0.01	98.40
91.0-92.0	0.6	0.1	667.8	0.01	98.41
92.0-93.0	0.6	0.1	667.9	0.01	98.42
93.0-94.0	0.6	0.1	667.9	0.01	98.43
94.0-95.0	0.6	0.1	668.0	0.01	98.44
95.0-96.0	0.6	0.1	668.1	0.01	98.45
96.0-97.0	0.6	0.1	668.1	0.01	98.45
97.0-98.0	0.6	0.1	668.2	0.01	98.46
98.0-99.0	0.6	0.1	668.3	0.01	98.47
99.0-100.0	0.6	0.1	668.3	0.01	98.48
100.0-101.0	0.6	0.1	668.4	0.01	98.49
101.0-102.0	0.6	0.1	668.5	0.01	98.50
102.0-103.0	0.6	0.1	668.5	0.01	98.51
103.0-104.0	0.6	0.1	668.6	0.01	98.52
104.0-105.0	0.6	0.1	668.7	0.01	98.53
105.0-106.0	0.6	0.1	668.7	0.01	98.54
106.0-107.0	0.6	0.1	668.8	0.01	98.55
107.0-108.0	0.7	0.1	668.9	0.01	98.56

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

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.7	0.1	668.9	0.01	98.57
109.0-110.0	0.7	0.1	669.0	0.01	98.58
110.0-111.0	0.7	0.1	669.1	0.01	98.59
111.0-112.0	0.7	0.1	669.1	0.01	98.60
112.0-113.0	0.7	0.1	669.2	0.01	98.61
113.0-114.0	0.7	0.1	669.3	0.01	98.62
114.0-115.0	0.8	0.1	669.4	0.01	98.64
115.0-116.0	0.8	0.1	669.4	0.01	98.65
116.0-117.0	0.8	0.1	669.5	0.01	98.66
117.0-118.0	0.9	0.1	669.6	0.01	98.67
118.0-119.0	0.9	0.1	669.7	0.01	98.69
119.0-120.0	1.0	0.1	669.8	0.01	98.70
120.0-121.0	1.0	0.1	669.9	0.01	98.71
121.0-122.0	1.1	0.1	670.0	0.01	98.73
122.0-123.0	1.1	0.1	670.1	0.02	98.74
123.0-124.0	1.2	0.1	670.2	0.02	98.76
124.0-125.0	1.3	0.1	670.3	0.02	98.78
125.0-126.0	1.3	0.1	670.4	0.02	98.79
126.0-127.0	1.4	0.1	670.5	0.02	98.81
127.0-128.0	1.5	0.1	670.7	0.02	98.83
128.0-129.0	1.6	0.1	670.8	0.02	98.85
129.0-130.0	1.6	0.1	670.9	0.02	98.87
130.0-131.0	1.7	0.1	671.1	0.02	98.89
131.0-132.0	1.8	0.1	671.2	0.02	98.91
132.0-133.0	1.9	0.2	671.4	0.02	98.94
133.0-134.0	2.0	0.2	671.6	0.02	98.96
134.0-135.0	2.1	0.2	671.7	0.02	98.98
135.0-136.0	2.2	0.2	671.9	0.02	99.01
136.0-137.0	2.3	0.2	672.1	0.03	99.03
137.0-138.0	2.4	0.2	672.2	0.03	99.06
138.0-139.0	2.5	0.2	672.4	0.03	99.09
139.0-140.0	2.6	0.2	672.6	0.03	99.12
140.0-141.0	2.7	0.2	672.8	0.03	99.14
141.0-142.0	2.8	0.2	673.0	0.03	99.17
142.0-143.0	3.0	0.2	673.2	0.03	99.20
143.0-144.0	3.1	0.2	673.4	0.03	99.23

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

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	3.2	0.2	673.6	0.03	99.26
145.0-146.0	3.3	0.2	673.8	0.03	99.29
146.0-147.0	3.4	0.2	674.0	0.03	99.32
147.0-148.0	3.5	0.2	674.2	0.03	99.35
148.0-149.0	3.6	0.2	674.4	0.03	99.38
149.0-150.0	3.7	0.2	674.6	0.03	99.41
150.0-151.0	3.8	0.2	674.8	0.03	99.44
151.0-152.0	3.9	0.2	675.0	0.03	99.47
152.0-153.0	4.0	0.2	675.3	0.03	99.50
153.0-154.0	4.2	0.2	675.5	0.03	99.53
154.0-155.0	4.3	0.2	675.7	0.03	99.56
155.0-156.0	4.3	0.2	675.9	0.03	99.59
156.0-157.0	4.4	0.2	676.0	0.03	99.62
157.0-158.0	4.5	0.2	676.2	0.03	99.65
158.0-159.0	4.6	0.2	676.4	0.03	99.68
159.0-160.0	4.7	0.2	676.6	0.03	99.70
160.0-161.0	4.8	0.2	676.8	0.03	99.73
161.0-162.0	4.9	0.2	676.9	0.03	99.75
162.0-163.0	5.0	0.2	677.1	0.02	99.78
163.0-164.0	5.1	0.2	677.3	0.02	99.80
164.0-165.0	5.1	0.2	677.4	0.02	99.82
165.0-166.0	5.2	0.1	677.6	0.02	99.85
166.0-167.0	5.3	0.1	677.7	0.02	99.87
167.0-168.0	5.4	0.1	677.8	0.02	99.88
168.0-169.0	5.5	0.1	677.9	0.02	99.90
169.0-170.0	5.6	0.1	678.1	0.02	99.92
170.0-171.0	5.6	0.1	678.2	0.02	99.93
171.0-172.0	5.7	0.1	678.3	0.01	99.95
172.0-173.0	5.8	0.1	678.3	0.01	99.96
173.0-174.0	5.9	0.1	678.4	0.01	99.97
174.0-175.0	5.9	0.1	678.5	0.01	99.98
175.0-176.0	6.0	0.1	678.5	0.01	99.99
176.0-177.0	6.0	0.0	678.6	0.01	99.99
177.0-178.0	6.1	0.0	678.6	0.00	100.00
178.0-179.0	6.1	0.0	678.6	0.00	100.00
179.0-180.0	6.1	0.0	678.6	0.00	100.00

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

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