GENLED Brands
www.genledbrands.com
Tel:+1 212 629 6830
Fax:

Report No.: 20230222 **Test Time: 2023/2/23 15:28**

Luminaire Property

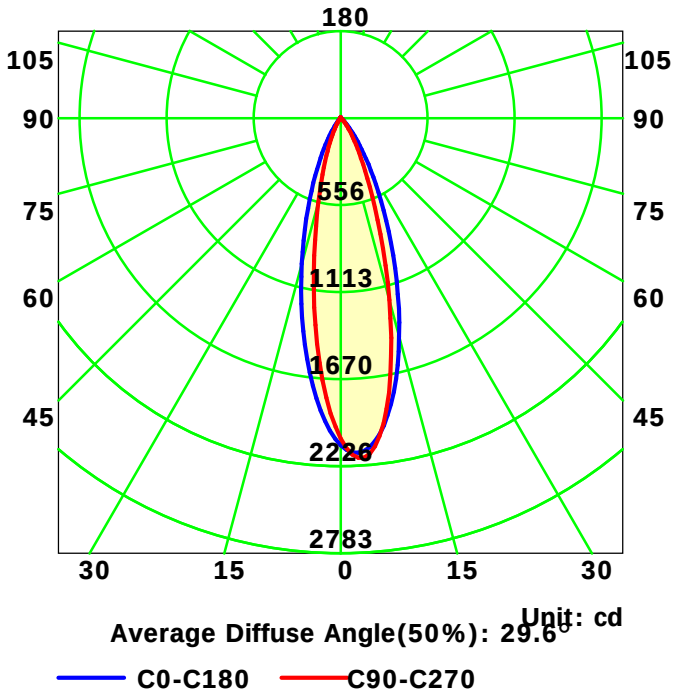
Luminaire Manufacturer:
Luminaire Category: Acolyte
Luminaire Description: Wall Washer ATOM-0630 AS 12W 3000K Honey Comb
Lamp Description: beam angle 20X40 **Luminous Length (mm): 600**
Luminous Width (mm): 25 **Luminous Height (mm): 20**
Voltage: 24.0 V **Current: 0.491 A**
Power: 11.79 W **Power Factor: 1.000**

Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 745.2 lm**
Measurement Flux: 745.2 lm **Efficiency: 100%**
Downward Ratio: 98% **Upward Ratio: 2%**
Horizontal Diffuse Angle(10%,50%): H64.5,H33.4
Vertical Diffuse Angle(10%,50%): V52.1,V25.8
Luminaire Efficacy Rating (LER): 63 **Central Intensity: 2091.82 cd**
Max. Intensity: 2191 cd **Pos of Max. Intensity: H60 V4**

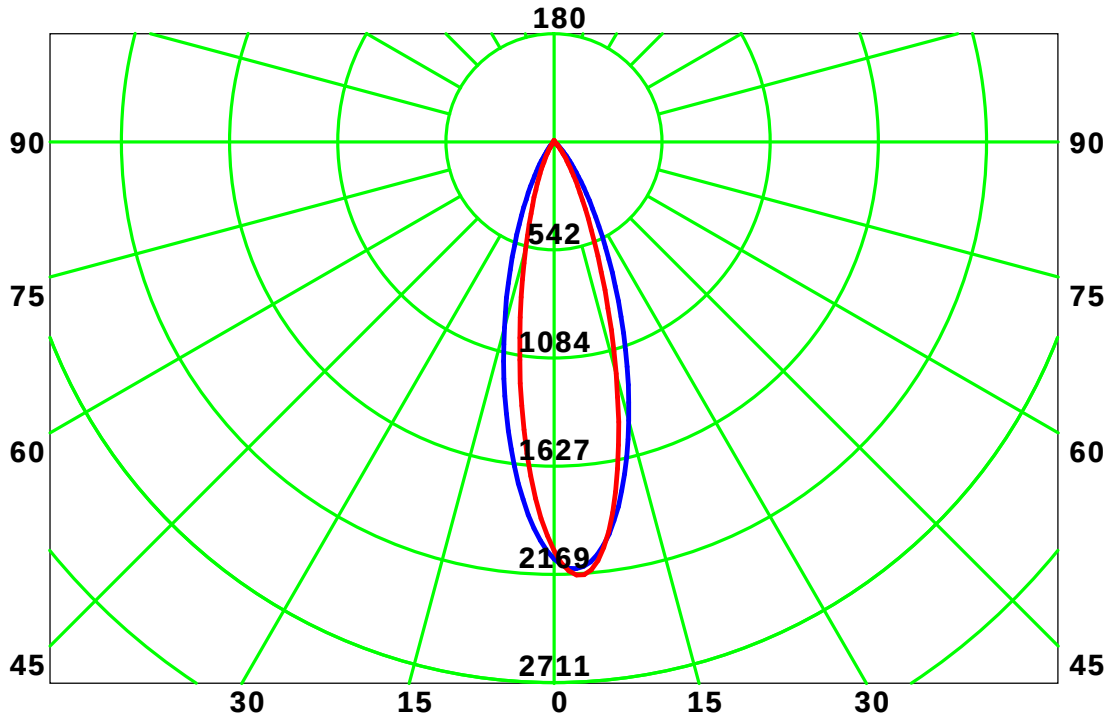
Picture Of Luminaire

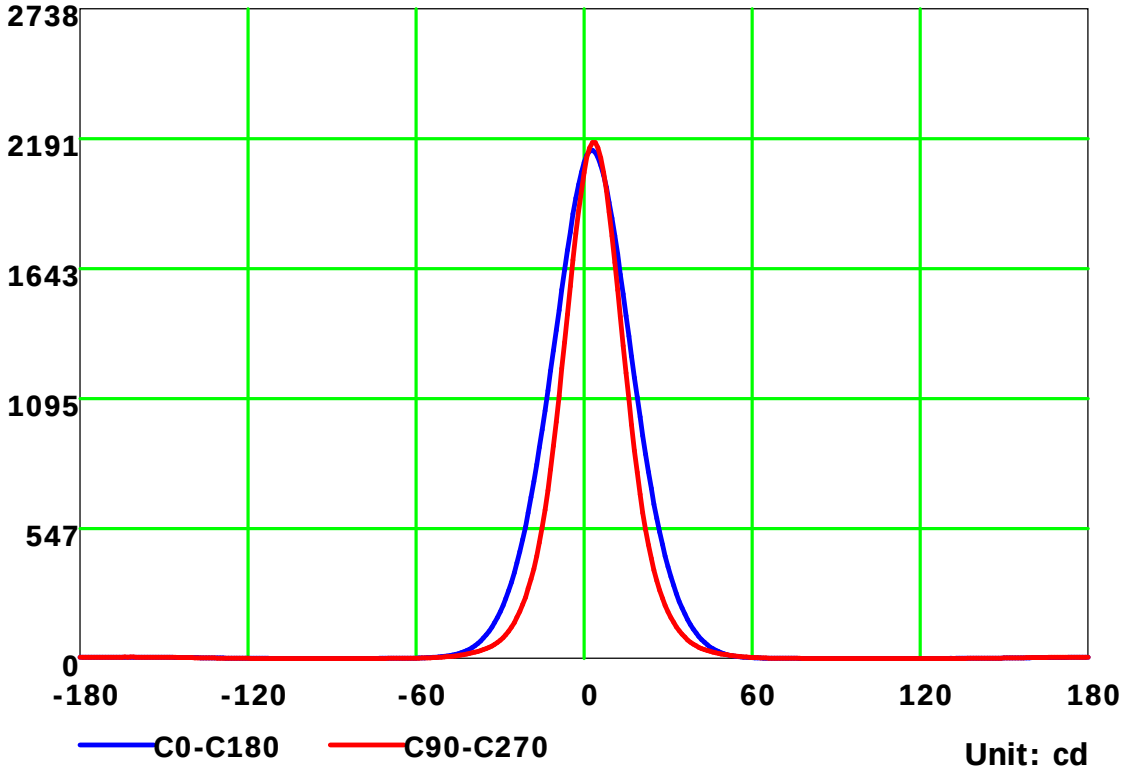
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0 **Gamma Plane (°):0.0-180.0:1.0**
Test Lab: **Test Device: GPM-1800B**
Test Type: TYPE C **Distance: 9.028 m**
Temperature: 25 **Humidity: 60%**
Operator: Jacky **Inspector:**

Luminous Intensity Distribution Curve





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Test Type: TYPE C
Temperature: 25
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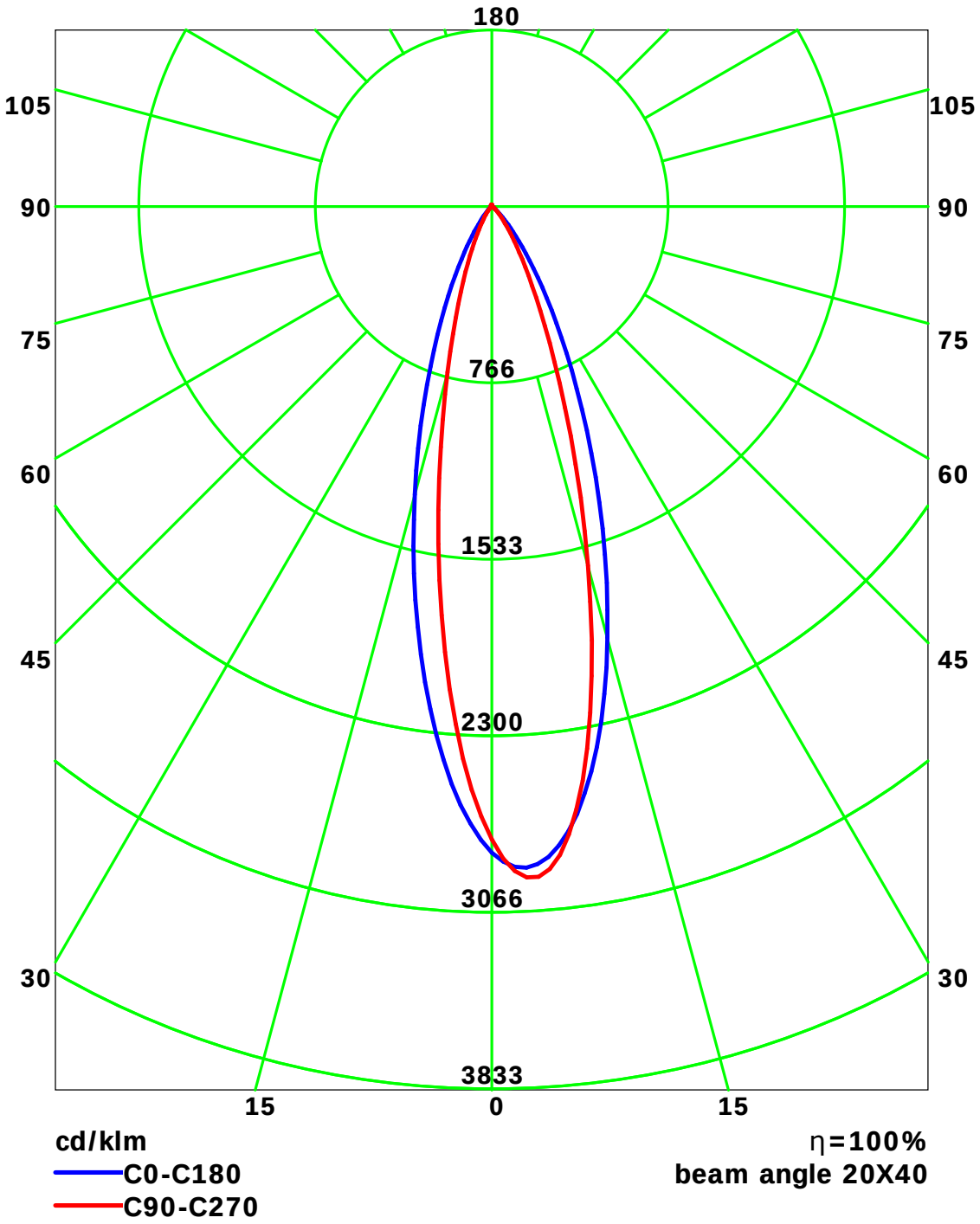
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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Temperature: 25
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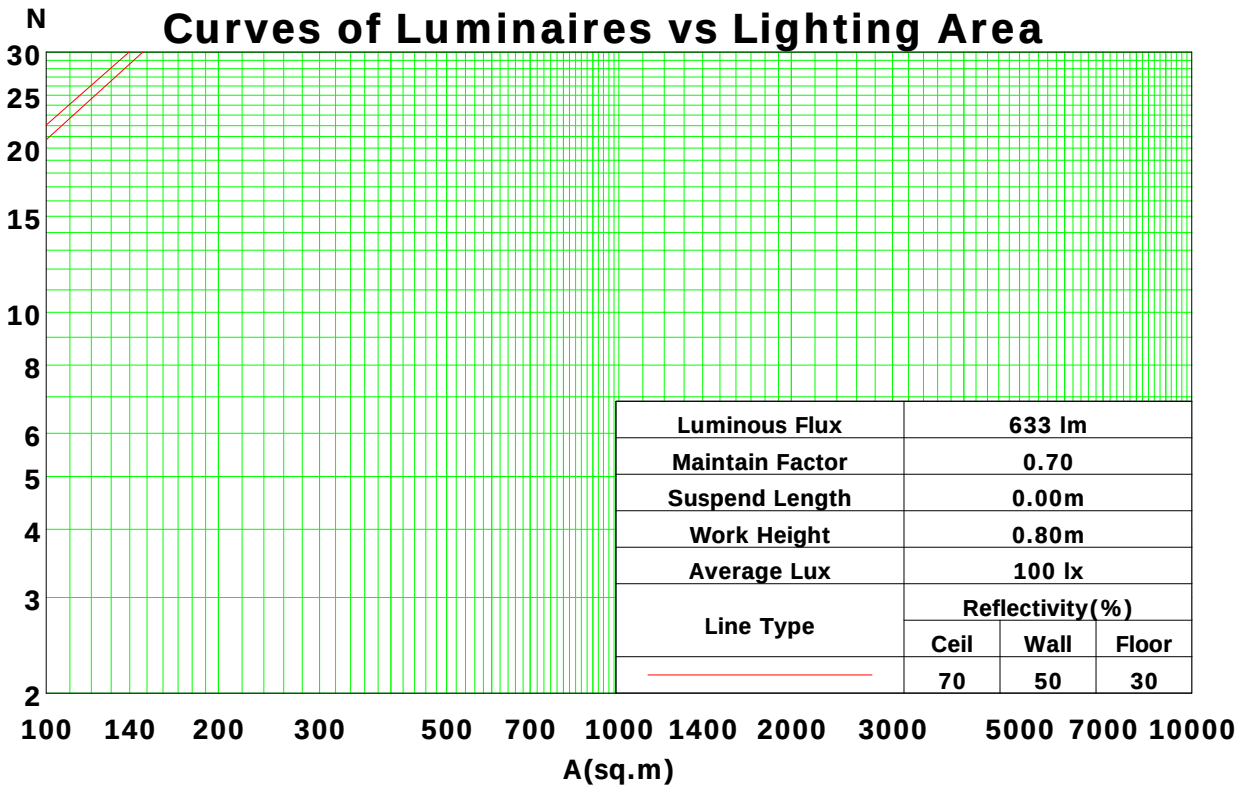
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	100	100	100	98
1	114	111	109	107	111	109	107	105	105	103	102	101	99	98	97	96	95	93
2	109	105	101	98	107	103	100	97	100	97	95	96	94	93	93	92	90	89
3	105	99	95	91	103	98	94	91	95	92	89	92	90	87	90	88	86	84
4	100	94	89	86	99	93	89	85	91	87	84	88	85	83	86	84	82	80
5	97	90	85	81	95	89	84	81	87	83	80	85	81	79	83	80	78	77
6	93	85	80	77	91	85	80	76	83	79	76	81	78	75	80	77	75	73
7	89	82	77	73	88	81	76	73	80	75	72	78	75	72	77	74	71	70
8	86	78	73	70	85	78	73	70	76	72	69	75	72	69	74	71	68	67
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	68	66	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	69	66	63	62

Spacing Criteria (0-180): 0.55
Spacing Criteria (90-270): 0.45
Spacing Criteria (Diagonal): 0.52

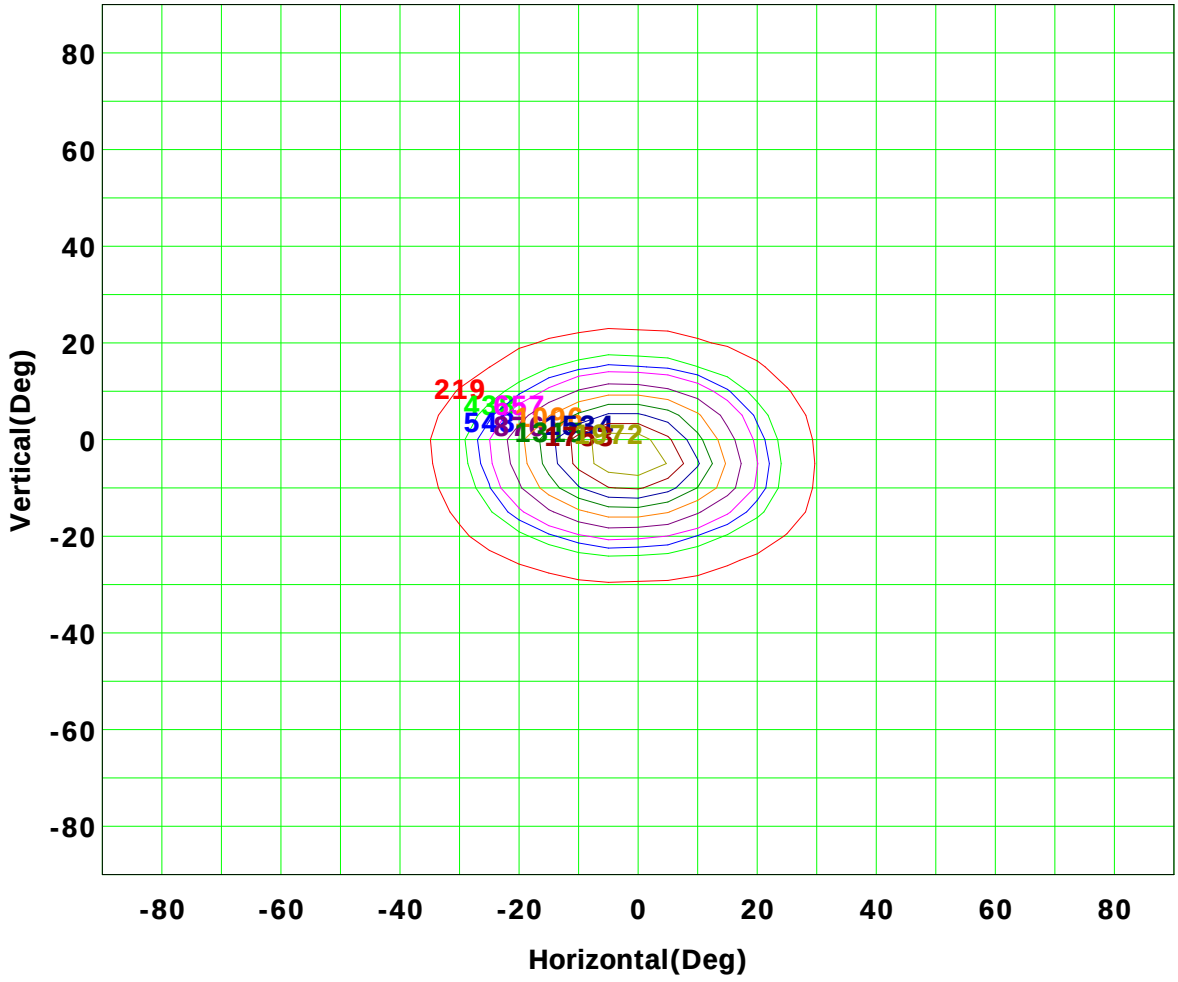
Curves of Luminaires vs Lighting Area



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)



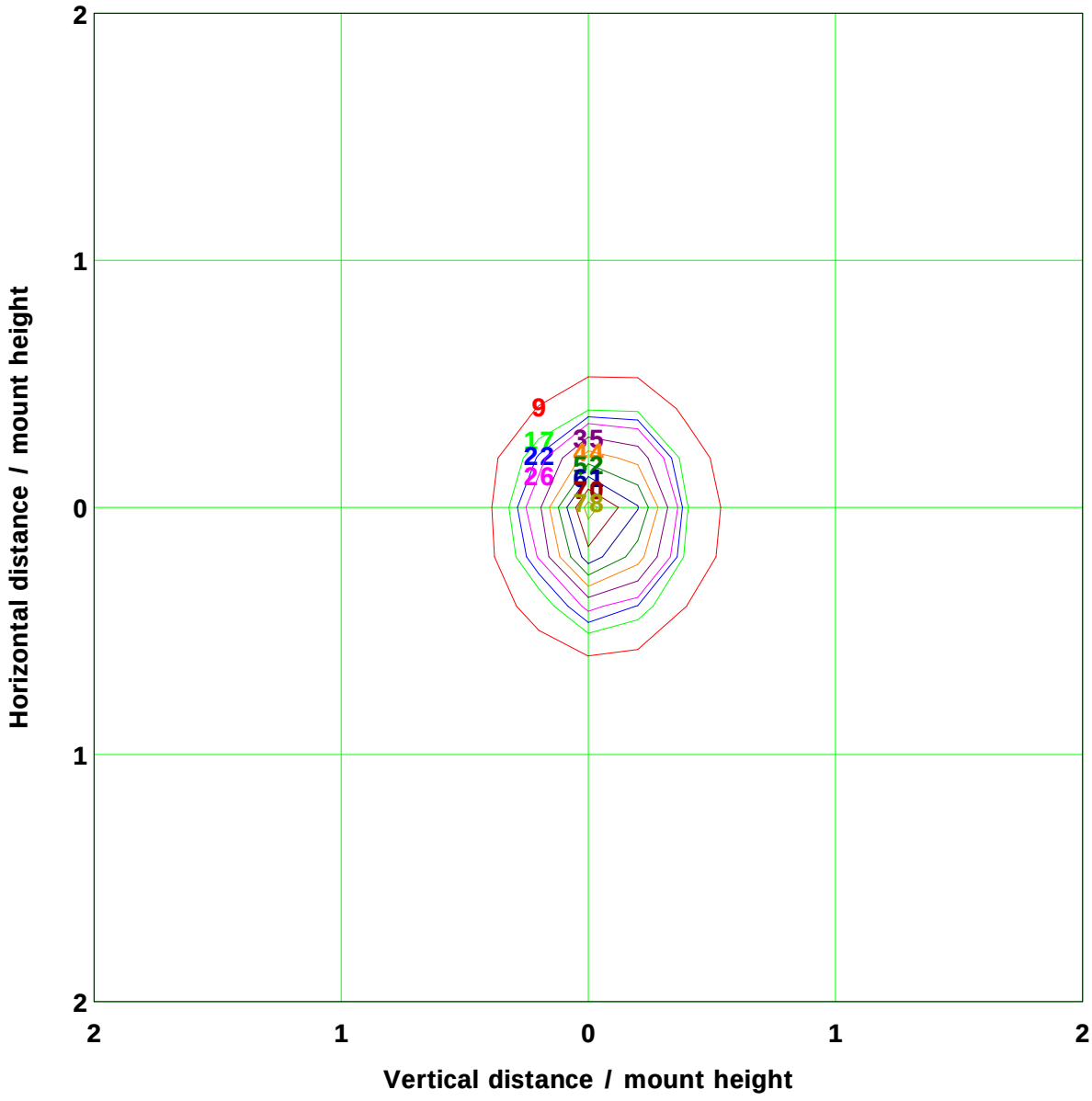
Imax (100%): 2191 cd

(10%): 219 cd	(20%): 438 cd
(25%): 548 cd	(30%): 657 cd
(40%): 876 cd	(50%): 1096 cd
(60%): 1315 cd	(70%): 1534 cd
(80%): 1753 cd	(90%): 1972 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%): 87.0 lx

(10%): 8.7 lx	(20%): 17.4 lx
(25%): 21.8 lx	(30%): 26.1 lx
(40%): 34.8 lx	(50%): 43.5 lx
(60%): 52.2 lx	(70%): 60.9 lx
(80%): 69.6 lx	(90%): 78.3 lx

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Test Lab:
Test Type: TYPE C
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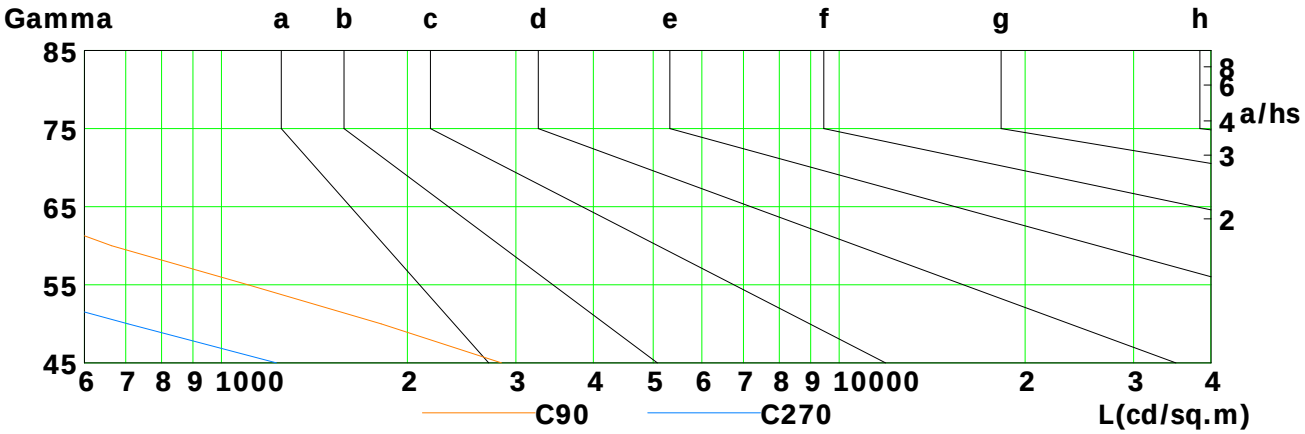
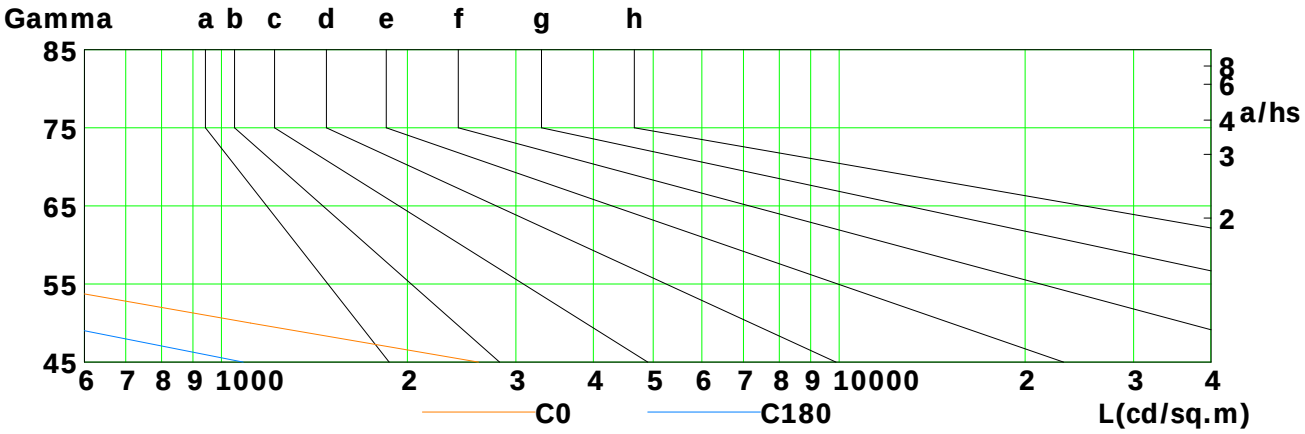
Operator: Jacky

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	2608	1116	489	232	132	110	94	85	75
C90	2840	1815	1104	664	448	366	348	397	487
C180	1085	522	270	150	109	85	79	73	75
C270	1228	706	415	303	259	241	227	284	521

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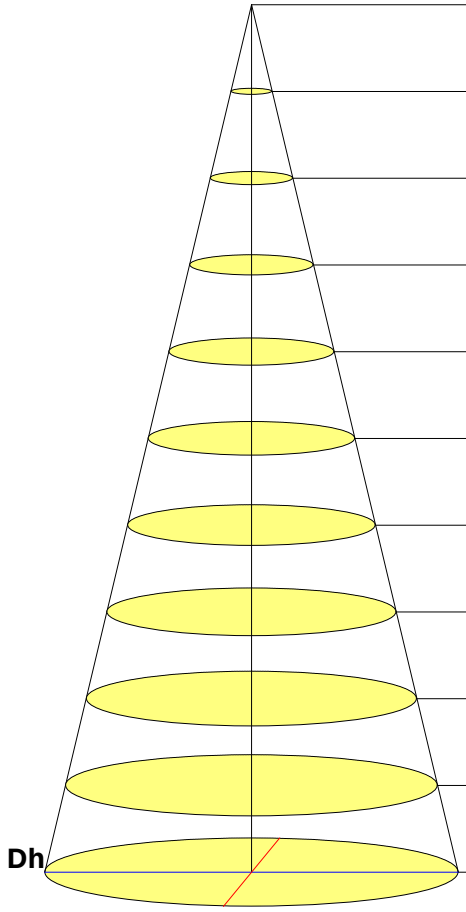
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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

Illuminance at a Distance



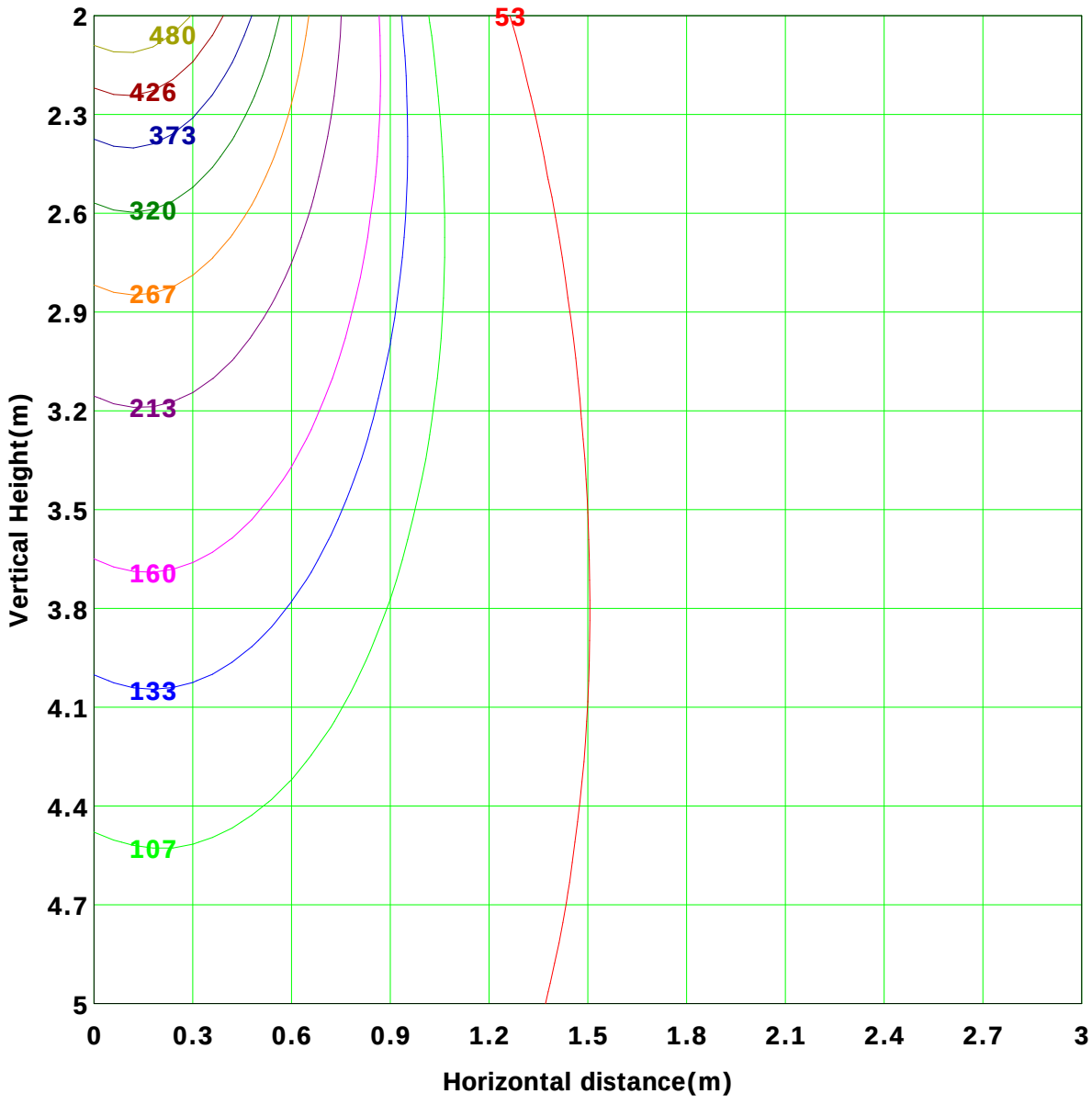
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	2091.82	0.60/0.46	0.2	1172.04
2.0	522.96	1.20/0.92	0.9	293.01
3.0	232.42	1.80/1.37	2.0	130.23
4.0	130.74	2.40/1.83	3.6	73.25
5.0	83.67	3.00/2.29	5.6	46.88
6.0	58.11	3.60/2.75	8.1	32.56
7.0	42.69	4.20/3.21	11.1	23.92
8.0	32.68	4.80/3.66	14.5	18.31
9.0	25.82	5.39/4.12	18.3	14.47
10.0	20.92	5.99/4.58	22.6	11.72

Beam Angle(B): H33.4 V25.8 Field Angle(F): H64.5 V52.1

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: 533.0 lx

(10%): 53.3 lx	(20%): 106.6 lx
(25%): 133.3 lx	(30%): 159.9 lx
(40%): 213.2 lx	(50%): 266.5 lx
(60%): 319.8 lx	(70%): 373.1 lx
(80%): 426.4 lx	(90%): 479.7 lx

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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

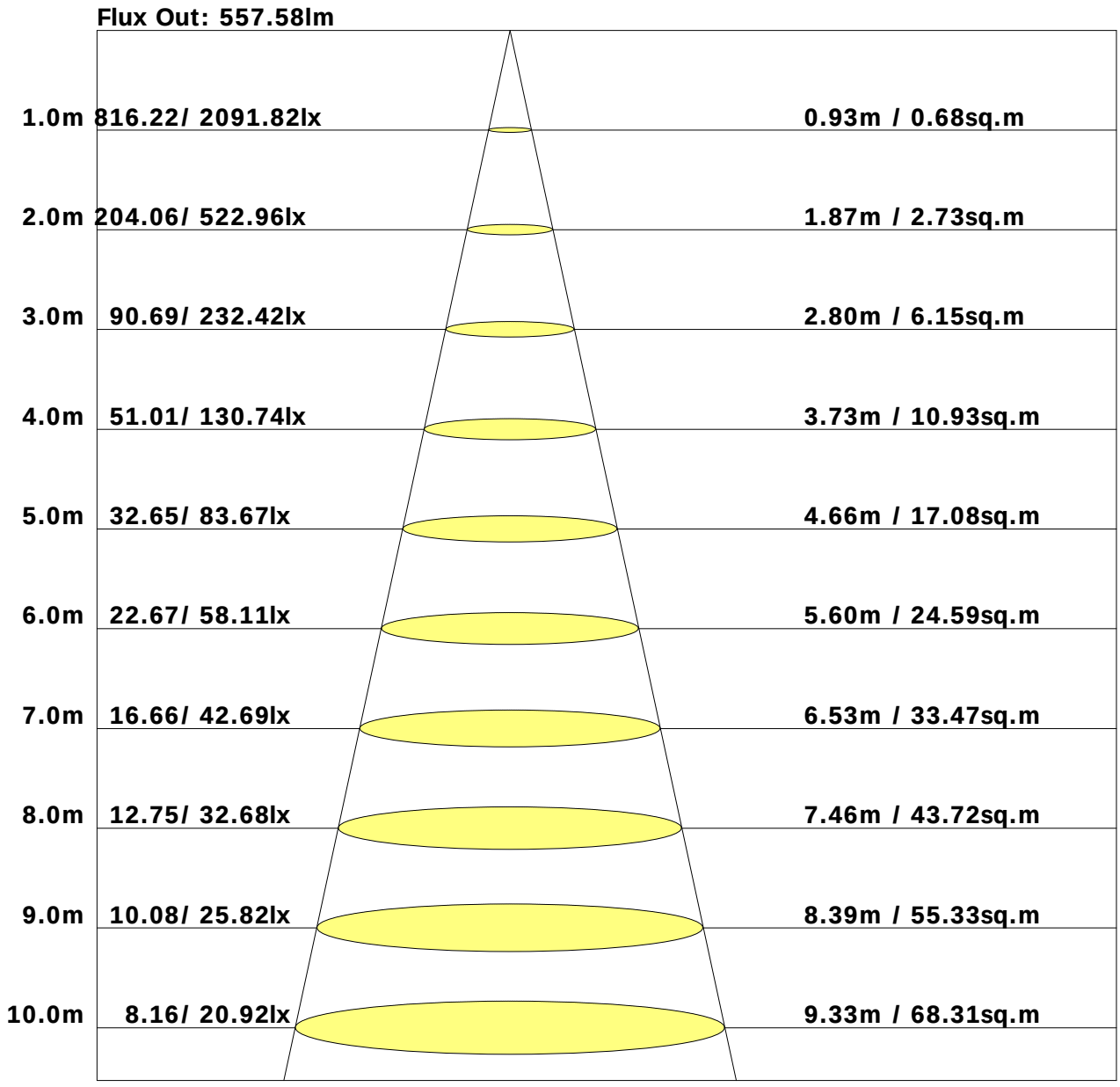
Vertical plane	Flux(E)	Flux(T)	90	80	70	60	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60	-70	-80	-90
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-50	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.5	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
-40	0.0	12.4	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.4	2.4	2.8	2.4	1.4	0.6	0.3	0.1	0.0	0.0	0.0	0.0
-30	27.5	41.3	0.0	0.0	0.1	0.2	0.5	1.3	3.8	8.5	10.9	8.7	4.5	1.7	0.6	0.2	0.1	0.0	0.0	0.0	0.0
-20	90.0	101.0	0.0	0.0	0.1	0.2	0.7	2.4	7.5	20.3	30.8	23.4	10.6	3.3	1.0	0.3	0.1	0.0	0.0	0.0	0.0
-10	159.4	170.2	0.0	0.0	0.1	0.3	1.0	3.2	11.3	33.3	55.9	41.8	16.5	4.8	1.3	0.4	0.1	0.1	0.0	0.0	0.0
0	174.0	184.8	0.0	0.0	0.1	0.3	1.0	3.4	12.1	35.9	60.6	46.4	17.8	5.1	1.4	0.4	0.1	0.1	0.0	0.0	0.0
10	117.9	128.7	0.0	0.0	0.1	0.3	0.8	2.7	9.0	24.9	40.6	31.7	12.9	4.0	1.2	0.4	0.1	0.0	0.0	0.0	0.0
20	49.7	61.2	0.0	0.0	0.1	0.2	0.6	1.7	5.1	11.7	17.4	14.5	6.4	2.3	0.7	0.2	0.1	0.0	0.0	0.0	0.0
30	6.3	21.0	0.0	0.0	0.0	0.1	0.3	0.8	2.0	3.8	5.3	4.7	2.4	0.9	0.3	0.1	0.1	0.0	0.0	0.0	0.0
40	0.0	5.2	0.0	0.0	0.0	0.1	0.1	0.2	0.5	0.9	1.1	1.0	0.6	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
50	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	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
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	0.0
90		732	0.3	0.5	0.7	1.9	5.4	16.7	53.3	142.5	226.5	175.4	73.7	23.3	7.2	2.4	0.9	0.5	0.3	0.3	0.3
Flux(E)	625		0.0	0.0	0.0	0.0	0.0	0.0	37.6	134.2	219.2	167.5	62.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Horizontal plane: -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90

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



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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	-0.0	0.9	0.4	1.3	1.6	0.6	1.6	1.0	1.9	2.3
3H	0.6	1.4	1.0	1.7	2.2	0.9	1.7	1.3	2.1	2.5
4H	0.9	1.6	1.3	2.0	2.5	1.0	1.7	1.4	2.1	2.5
6H	1.3	2.0	1.8	2.4	2.9	1.1	1.7	1.5	2.1	2.6
8H	1.6	2.3	2.1	2.7	3.2	1.1	1.7	1.6	2.2	2.6
12H	2.0	2.6	2.4	3.0	3.5	1.1	1.7	1.6	2.1	2.6
X=4H Y=2H	-0.1	0.6	0.3	1.0	1.4	0.5	1.3	1.0	1.7	2.1
3H	0.5	1.2	1.0	1.6	2.0	0.9	1.5	1.3	1.9	2.4
4H	1.0	1.5	1.4	2.0	2.5	1.1	1.6	1.5	2.1	2.5
6H	1.6	2.0	2.1	2.5	3.0	1.2	1.7	1.7	2.2	2.7
8H	2.0	2.4	2.5	2.9	3.4	1.3	1.7	1.8	2.2	2.7
12H	2.4	2.8	2.9	3.3	3.8	1.4	1.7	1.9	2.3	2.8
X=8H Y=4H	0.9	1.4	1.4	1.8	2.4	1.0	1.5	1.5	2.0	2.5
6H	1.6	2.0	2.2	2.5	3.0	1.3	1.7	1.9	2.2	2.7
8H	2.1	2.4	2.7	3.0	3.5	1.5	1.8	2.0	2.3	2.8
12H	2.7	2.9	3.2	3.5	4.1	1.6	1.8	2.1	2.4	3.0
X=12H Y=4H	0.9	1.3	1.4	1.8	2.3	1.0	1.4	1.5	1.9	2.4
6H	1.6	1.9	2.2	2.4	3.0	1.3	1.6	1.9	2.1	2.7
8H	2.1	2.4	2.7	2.9	3.6	1.5	1.8	2.1	2.3	2.9

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	0.92	0.97	1.00	1.03	1.06	1.08	1.10	1.11	1.13
	0.30		0.89	0.94	0.97	0.99	1.03	1.05	1.07	1.09	1.11
	0.20		0.86	0.91	0.94	0.97	1.01	1.03	1.05	1.08	1.09
0.50	0.50	0.20	0.91	0.95	0.98	1.00	1.03	1.05	1.06	1.07	1.08
	0.30		0.88	0.92	0.95	0.98	1.01	1.03	1.04	1.06	1.07
	0.20		0.85	0.90	0.93	0.95	0.99	1.01	1.02	1.04	1.06
0.30	0.50	0.20	0.90	0.94	0.96	0.98	1.00	1.01	1.02	1.03	1.04
	0.30		0.87	0.91	0.94	0.96	0.98	1.00	1.01	1.02	1.03
	0.20		0.85	0.89	0.92	0.94	0.97	0.98	1.00	1.01	1.02
0.00	0.00	0.00	0.83	0.87	0.89	0.91	0.93	0.95	0.95	0.97	0.97

Rating:12W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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(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	0.48	0.39	0.33	0.29	0.23	0.19	0.16	0.13	0.10
	0.30		0.40	0.33	0.29	0.25	0.21	0.17	0.15	0.12	0.10
	0.20		0.34	0.29	0.26	0.23	0.19	0.16	0.14	0.11	0.09
0.50	0.50	0.20	0.45	0.36	0.30	0.26	0.21	0.21	0.15	0.11	0.09
	0.30		0.38	0.31	0.27	0.24	0.19	0.16	0.14	0.11	0.09
	0.20		0.33	0.28	0.24	0.21	0.17	0.15	0.13	0.10	0.08
0.30	0.50	0.20	0.42	0.34	0.28	0.24	0.19	0.15	0.13	0.10	0.08
	0.30		0.36	0.30	0.25	0.22	0.17	0.14	0.12	0.10	0.08
	0.20		0.32	0.26	0.23	0.20	0.16	0.13	0.12	0.09	0.08
0.00	0.00	0.00	0.17	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.03

Rating:12W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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(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	0.23
	0.30		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.21	0.21
	0.20		0.08	0.10	0.12	0.13	0.15	0.17	0.18	0.19	0.20
0.50	0.50	0.20	0.13	0.15	0.16	0.17	0.19	0.19	0.20	0.21	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	0.12	0.13	0.15	0.16	0.17	0.19	0.20
0.30	0.50	0.20	0.13	0.14	0.16	0.17	0.18	0.19	0.19	0.20	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	0.12	0.13	0.15	0.16	0.17	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:12W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2071.6	2.0	2.0	0.27	0.27
1.0-2.0	2058.3	5.9	7.9	0.79	1.06
2.0-3.0	2031.7	9.7	17.6	1.30	2.36
3.0-4.0	1992.4	13.3	30.9	1.79	4.15
4.0-5.0	1940.6	16.7	47.6	2.24	6.39
5.0-6.0	1877.8	19.7	67.4	2.65	9.04
6.0-7.0	1805.5	22.4	89.8	3.01	12.05
7.0-8.0	1726.1	24.7	114.5	3.32	15.37
8.0-9.0	1640.4	26.6	141.1	3.57	18.93
9.0-10.0	1550.0	28.1	169.1	3.76	22.70
10.0-11.0	1457.7	29.1	198.3	3.91	26.61
11.0-12.0	1363.4	29.8	228.1	4.00	30.61
12.0-13.0	1268.5	30.1	258.2	4.04	34.65
13.0-14.0	1175.3	30.1	288.3	4.04	38.68
14.0-15.0	1083.4	29.7	318.0	3.99	42.68
15.0-16.0	994.2	29.1	347.2	3.91	46.59
16.0-17.0	909.6	28.3	375.5	3.80	50.39
17.0-18.0	828.6	27.3	402.8	3.67	54.05
18.0-19.0	752.0	26.2	429.0	3.51	57.57
19.0-20.0	680.2	24.9	453.9	3.34	60.91
20.0-21.0	612.8	23.5	477.4	3.16	64.07
21.0-22.0	551.1	22.1	499.6	2.97	67.04
22.0-23.0	494.4	20.7	520.3	2.78	69.82
23.0-24.0	442.2	19.3	539.6	2.59	72.42
24.0-25.0	394.4	17.9	557.6	2.41	74.82
25.0-26.0	351.4	16.6	574.2	2.23	77.05
26.0-27.0	312.3	15.3	589.4	2.05	79.10
27.0-28.0	276.9	14.0	603.5	1.88	80.98
28.0-29.0	245.5	12.8	616.3	1.72	82.71
29.0-30.0	217.5	11.7	628.1	1.58	84.28
30.0-31.0	192.1	10.7	638.7	1.43	85.72
31.0-32.0	169.6	9.7	648.5	1.30	87.02
32.0-33.0	149.5	8.8	657.3	1.18	88.20
33.0-34.0	131.4	8.0	665.2	1.07	89.27
34.0-35.0	115.5	7.2	672.4	0.96	90.23
35.0-36.0	101.5	6.5	678.9	0.87	91.10

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	88.9	5.8	684.7	0.78	91.88
37.0-38.0	77.7	5.2	689.8	0.70	92.57
38.0-39.0	67.8	4.6	694.5	0.62	93.19
39.0-40.0	59.2	4.1	698.6	0.55	93.75
40.0-41.0	51.5	3.7	702.3	0.49	94.24
41.0-42.0	44.9	3.3	705.5	0.44	94.68
42.0-43.0	39.1	2.9	708.4	0.39	95.07
43.0-44.0	33.9	2.6	711.0	0.34	95.41
44.0-45.0	29.4	2.3	713.3	0.30	95.71
45.0-46.0	25.5	2.0	715.2	0.27	95.98
46.0-47.0	22.1	1.8	717.0	0.24	96.22
47.0-48.0	19.2	1.5	718.6	0.21	96.43
48.0-49.0	16.6	1.4	719.9	0.18	96.61
49.0-50.0	14.4	1.2	721.1	0.16	96.77
50.0-51.0	12.4	1.1	722.2	0.14	96.91
51.0-52.0	10.8	0.9	723.1	0.12	97.03
52.0-53.0	9.4	0.8	723.9	0.11	97.14
53.0-54.0	8.1	0.7	724.6	0.10	97.24
54.0-55.0	7.0	0.6	725.3	0.08	97.32
55.0-56.0	6.2	0.6	725.8	0.07	97.40
56.0-57.0	5.4	0.5	726.3	0.07	97.47
57.0-58.0	4.7	0.4	726.7	0.06	97.52
58.0-59.0	4.1	0.4	727.1	0.05	97.58
59.0-60.0	3.7	0.3	727.5	0.05	97.62
60.0-61.0	3.3	0.3	727.8	0.04	97.66
61.0-62.0	2.9	0.3	728.1	0.04	97.70
62.0-63.0	2.6	0.3	728.3	0.03	97.74
63.0-64.0	2.4	0.2	728.6	0.03	97.77
64.0-65.0	2.2	0.2	728.8	0.03	97.80
65.0-66.0	2.0	0.2	729.0	0.03	97.82
66.0-67.0	1.9	0.2	729.2	0.03	97.85
67.0-68.0	1.8	0.2	729.4	0.02	97.87
68.0-69.0	1.7	0.2	729.5	0.02	97.90
69.0-70.0	1.6	0.2	729.7	0.02	97.92
70.0-71.0	1.5	0.2	729.9	0.02	97.94
71.0-72.0	1.5	0.2	730.0	0.02	97.96

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	1.4	0.1	730.2	0.02	97.98
73.0-74.0	1.3	0.1	730.3	0.02	98.00
74.0-75.0	1.3	0.1	730.4	0.02	98.02
75.0-76.0	1.2	0.1	730.6	0.02	98.04
76.0-77.0	1.2	0.1	730.7	0.02	98.05
77.0-78.0	1.2	0.1	730.8	0.02	98.07
78.0-79.0	1.1	0.1	730.9	0.02	98.09
79.0-80.0	1.1	0.1	731.0	0.02	98.10
80.0-81.0	1.0	0.1	731.2	0.02	98.12
81.0-82.0	1.0	0.1	731.3	0.01	98.13
82.0-83.0	1.0	0.1	731.4	0.01	98.15
83.0-84.0	1.0	0.1	731.5	0.01	98.16
84.0-85.0	0.9	0.1	731.6	0.01	98.17
85.0-86.0	0.9	0.1	731.7	0.01	98.19
86.0-87.0	0.9	0.1	731.8	0.01	98.20
87.0-88.0	0.9	0.1	731.9	0.01	98.21
88.0-89.0	0.9	0.1	732.0	0.01	98.22
89.0-90.0	0.9	0.1	732.1	0.01	98.24
90.0-91.0	0.9	0.1	732.2	0.01	98.25
91.0-92.0	0.9	0.1	732.2	0.01	98.26
92.0-93.0	0.9	0.1	732.3	0.01	98.28
93.0-94.0	0.9	0.1	732.4	0.01	98.29
94.0-95.0	0.9	0.1	732.5	0.01	98.30
95.0-96.0	0.9	0.1	732.6	0.01	98.31
96.0-97.0	0.9	0.1	732.7	0.01	98.33
97.0-98.0	0.9	0.1	732.8	0.01	98.34
98.0-99.0	0.9	0.1	732.9	0.01	98.35
99.0-100.0	0.9	0.1	733.0	0.01	98.37
100.0-101.0	0.9	0.1	733.1	0.01	98.38
101.0-102.0	0.9	0.1	733.2	0.01	98.39
102.0-103.0	0.9	0.1	733.3	0.01	98.41
103.0-104.0	0.9	0.1	733.4	0.01	98.42
104.0-105.0	0.9	0.1	733.5	0.01	98.43
105.0-106.0	0.9	0.1	733.6	0.01	98.45
106.0-107.0	0.9	0.1	733.7	0.01	98.46
107.0-108.0	1.0	0.1	733.8	0.01	98.47

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.0	0.1	733.9	0.01	98.49
109.0-110.0	1.0	0.1	734.0	0.01	98.50
110.0-111.0	1.0	0.1	734.1	0.01	98.51
111.0-112.0	1.0	0.1	734.2	0.01	98.53
112.0-113.0	1.0	0.1	734.3	0.01	98.54
113.0-114.0	1.1	0.1	734.4	0.01	98.56
114.0-115.0	1.1	0.1	734.5	0.01	98.57
115.0-116.0	1.1	0.1	734.7	0.01	98.59
116.0-117.0	1.1	0.1	734.8	0.01	98.60
117.0-118.0	1.2	0.1	734.9	0.02	98.62
118.0-119.0	1.2	0.1	735.0	0.02	98.63
119.0-120.0	1.2	0.1	735.1	0.02	98.65
120.0-121.0	1.3	0.1	735.2	0.02	98.66
121.0-122.0	1.3	0.1	735.4	0.02	98.68
122.0-123.0	1.4	0.1	735.5	0.02	98.70
123.0-124.0	1.4	0.1	735.6	0.02	98.72
124.0-125.0	1.5	0.1	735.8	0.02	98.73
125.0-126.0	1.6	0.1	735.9	0.02	98.75
126.0-127.0	1.6	0.1	736.0	0.02	98.77
127.0-128.0	1.7	0.1	736.2	0.02	98.79
128.0-129.0	1.8	0.2	736.3	0.02	98.81
129.0-130.0	1.9	0.2	736.5	0.02	98.83
130.0-131.0	2.0	0.2	736.7	0.02	98.86
131.0-132.0	2.1	0.2	736.8	0.02	98.88
132.0-133.0	2.2	0.2	737.0	0.02	98.90
133.0-134.0	2.3	0.2	737.2	0.02	98.93
134.0-135.0	2.4	0.2	737.4	0.02	98.95
135.0-136.0	2.5	0.2	737.6	0.03	98.98
136.0-137.0	2.6	0.2	737.8	0.03	99.00
137.0-138.0	2.7	0.2	738.0	0.03	99.03
138.0-139.0	2.8	0.2	738.2	0.03	99.06
139.0-140.0	3.0	0.2	738.4	0.03	99.08
140.0-141.0	3.1	0.2	738.6	0.03	99.11
141.0-142.0	3.2	0.2	738.8	0.03	99.14
142.0-143.0	3.4	0.2	739.0	0.03	99.17
143.0-144.0	3.5	0.2	739.3	0.03	99.20

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 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	3.6	0.2	739.5	0.03	99.23
145.0-146.0	3.8	0.2	739.7	0.03	99.27
146.0-147.0	3.9	0.2	740.0	0.03	99.30
147.0-148.0	4.0	0.2	740.2	0.03	99.33
148.0-149.0	4.2	0.2	740.4	0.03	99.36
149.0-150.0	4.3	0.2	740.7	0.03	99.39
150.0-151.0	4.4	0.2	740.9	0.03	99.43
151.0-152.0	4.6	0.2	741.2	0.03	99.46
152.0-153.0	4.7	0.2	741.4	0.03	99.49
153.0-154.0	4.8	0.2	741.6	0.03	99.52
154.0-155.0	4.9	0.2	741.9	0.03	99.55
155.0-156.0	5.1	0.2	742.1	0.03	99.58
156.0-157.0	5.2	0.2	742.3	0.03	99.61
157.0-158.0	5.3	0.2	742.5	0.03	99.64
158.0-159.0	5.4	0.2	742.8	0.03	99.67
159.0-160.0	5.5	0.2	743.0	0.03	99.70
160.0-161.0	5.5	0.2	743.2	0.03	99.73
161.0-162.0	5.6	0.2	743.4	0.03	99.75
162.0-163.0	5.7	0.2	743.6	0.03	99.78
163.0-164.0	5.8	0.2	743.7	0.02	99.80
164.0-165.0	5.8	0.2	743.9	0.02	99.83
165.0-166.0	5.9	0.2	744.1	0.02	99.85
166.0-167.0	5.9	0.2	744.2	0.02	99.87
167.0-168.0	5.9	0.1	744.4	0.02	99.89
168.0-169.0	6.0	0.1	744.5	0.02	99.91
169.0-170.0	6.0	0.1	744.6	0.02	99.92
170.0-171.0	6.1	0.1	744.7	0.01	99.94
171.0-172.0	6.1	0.1	744.8	0.01	99.95
172.0-173.0	6.1	0.1	744.9	0.01	99.96
173.0-174.0	6.1	0.1	745.0	0.01	99.97
174.0-175.0	6.1	0.1	745.0	0.01	99.98
175.0-176.0	6.2	0.1	745.1	0.01	99.99
176.0-177.0	6.2	0.0	745.1	0.01	99.99
177.0-178.0	6.2	0.0	745.2	0.00	100.00
178.0-179.0	6.2	0.0	745.2	0.00	100.00
179.0-180.0	6.2	0.0	745.2	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: