GENLED Brands
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Report No.: **Test Time: 2021/12/30 10:35**

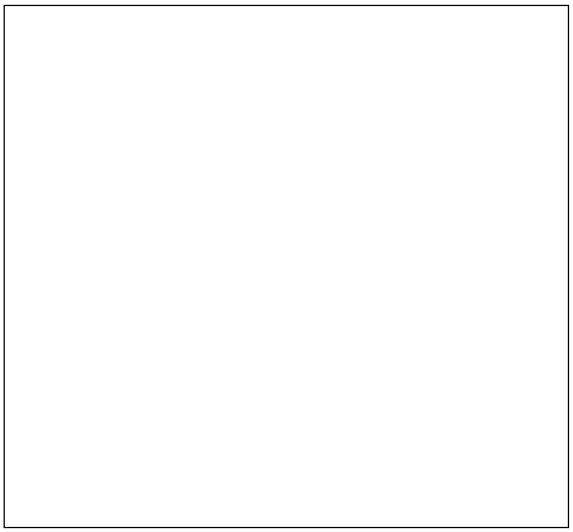
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: Double Row Ribbonlyte
Luminaire Description: DRRB90SWS2206.030
Lamp Catalog: 2835-3000K **Number of Lamps: 448/M**
Luminous Length (mm): 500 **Luminous Width (mm): 24**
Luminous Height (mm): 1.3 **Voltage: 24.0 V**
Current: 0.385 A **Power: 9.23 W**
Power Factor: 1.000

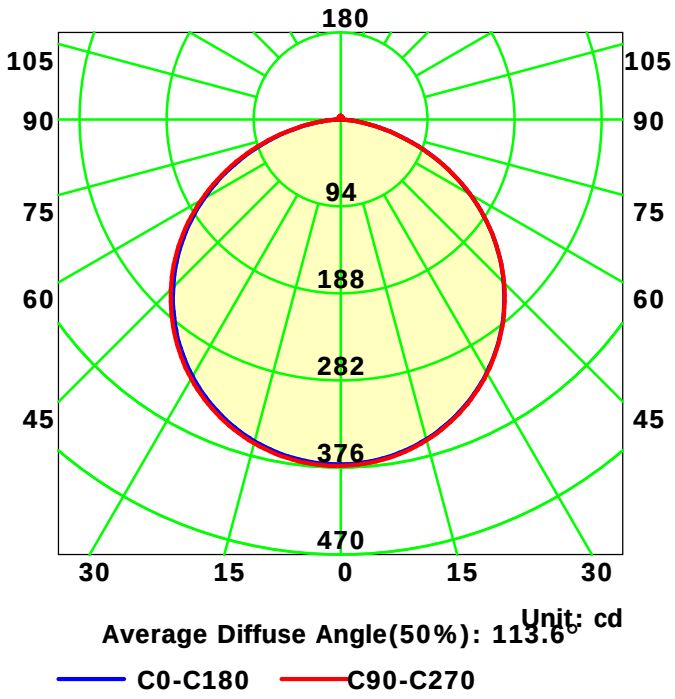
Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 1091.4 lm**
Measurement Flux: 1091.4 lm **Efficiency: 100%**
Downward Ratio: 99% **Upward Ratio: 1%**
Horizontal Diffuse Angle(10%,50%): H159.9,H113.5
Vertical Diffuse Angle(10%,50%): V159.9,V113.8
Luminaire Efficacy Rating (LER): 118 **Central Intensity: 373.18 cd**
Max. Intensity: 375.18 cd **Pos of Max. Intensity: H330 V1**

Picture Of Luminaire

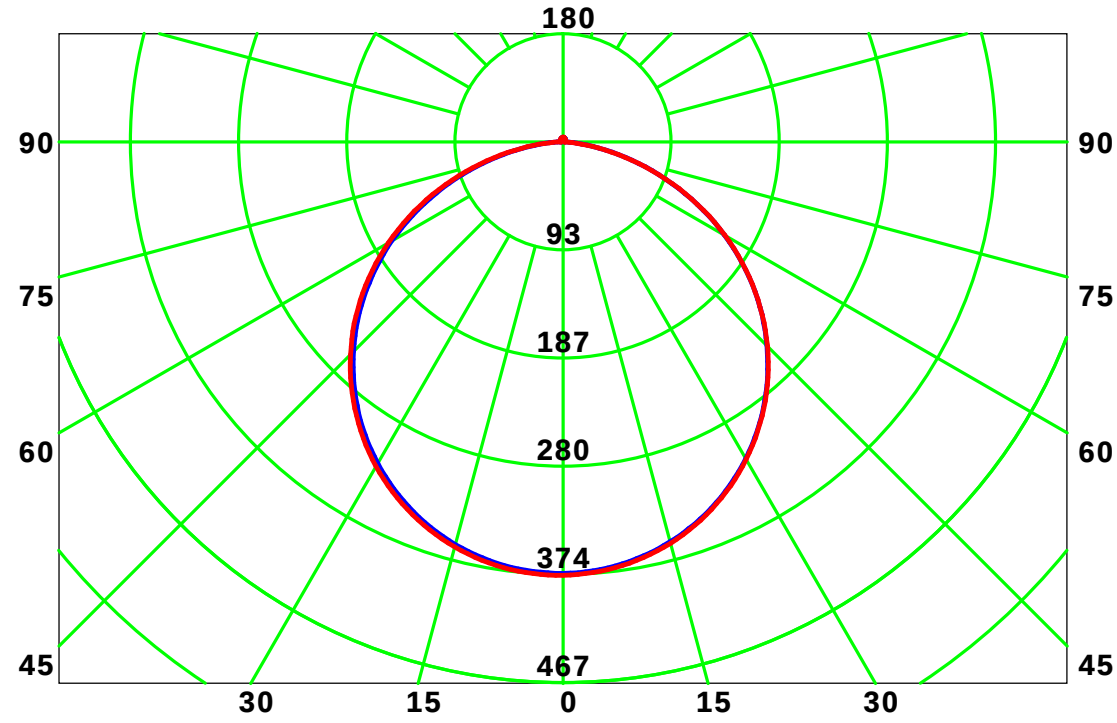


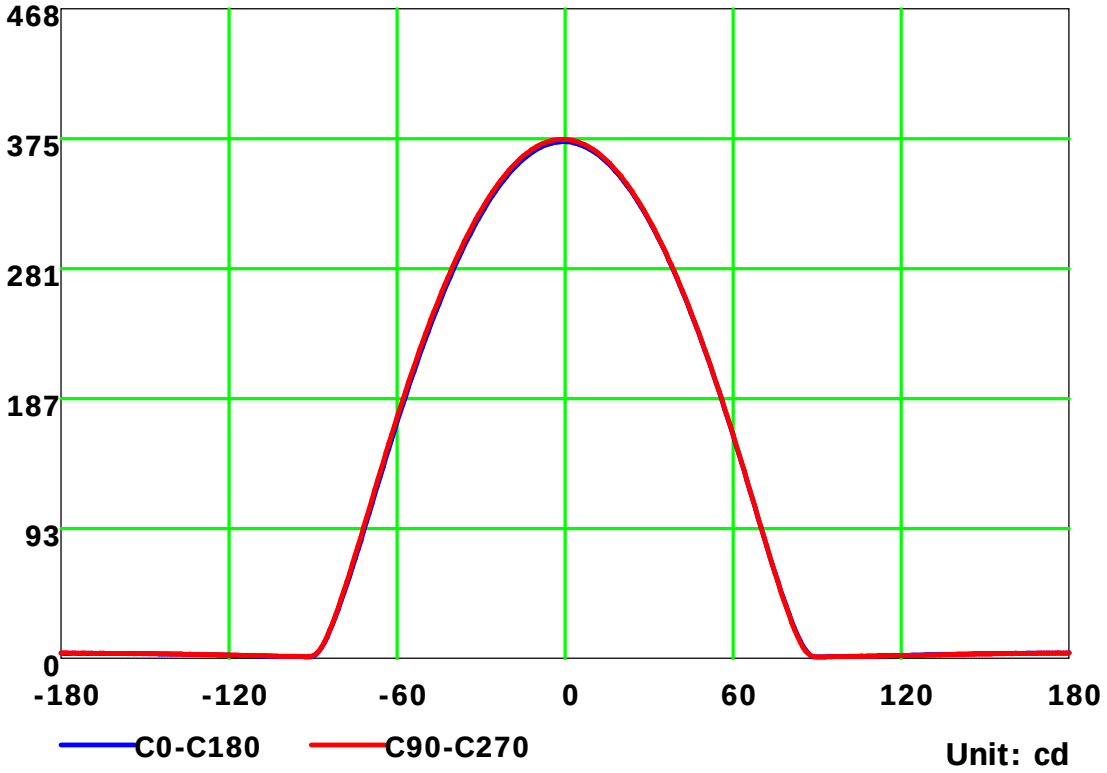
Luminous Intensity Distribution Curve



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

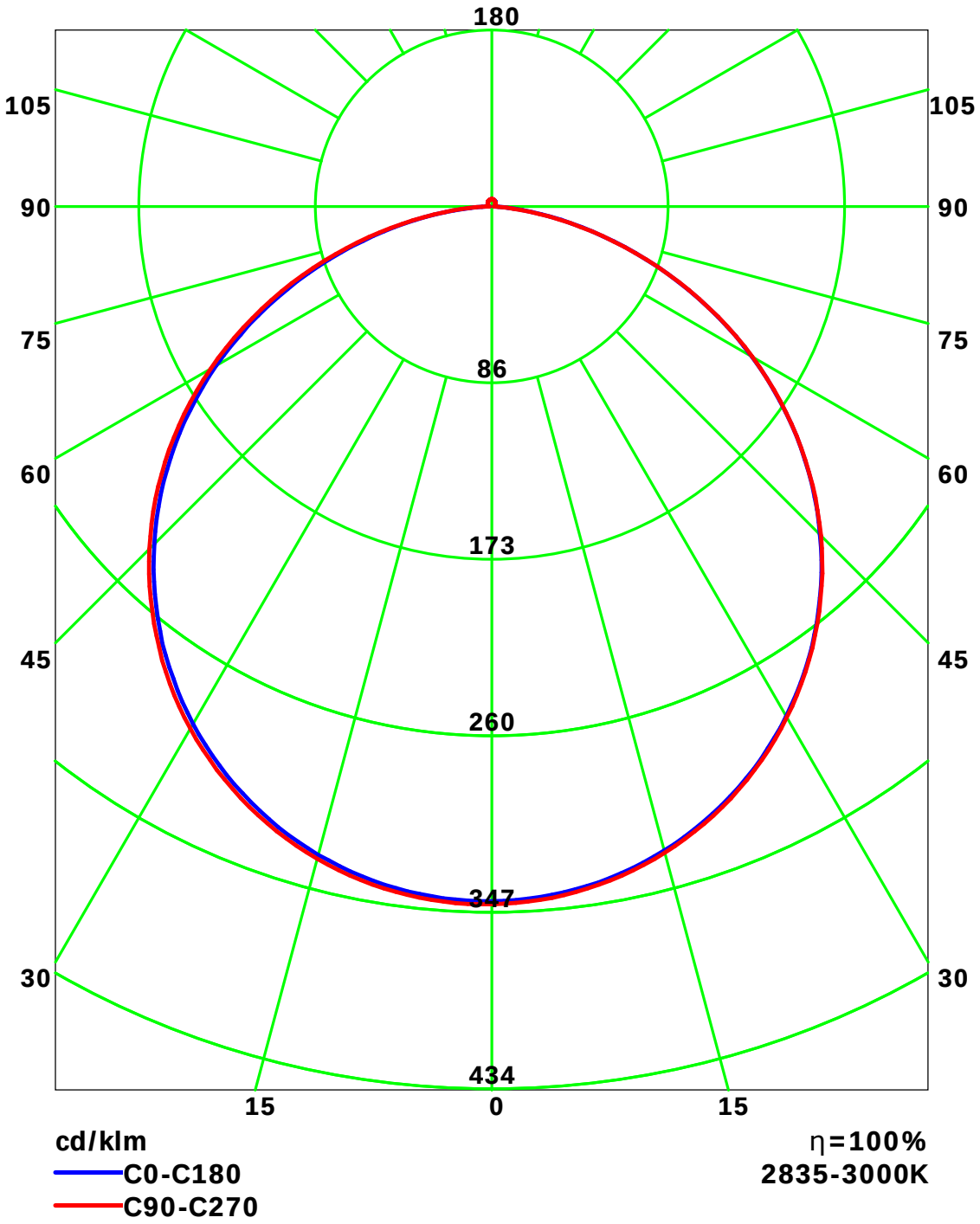




C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: JACKY

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

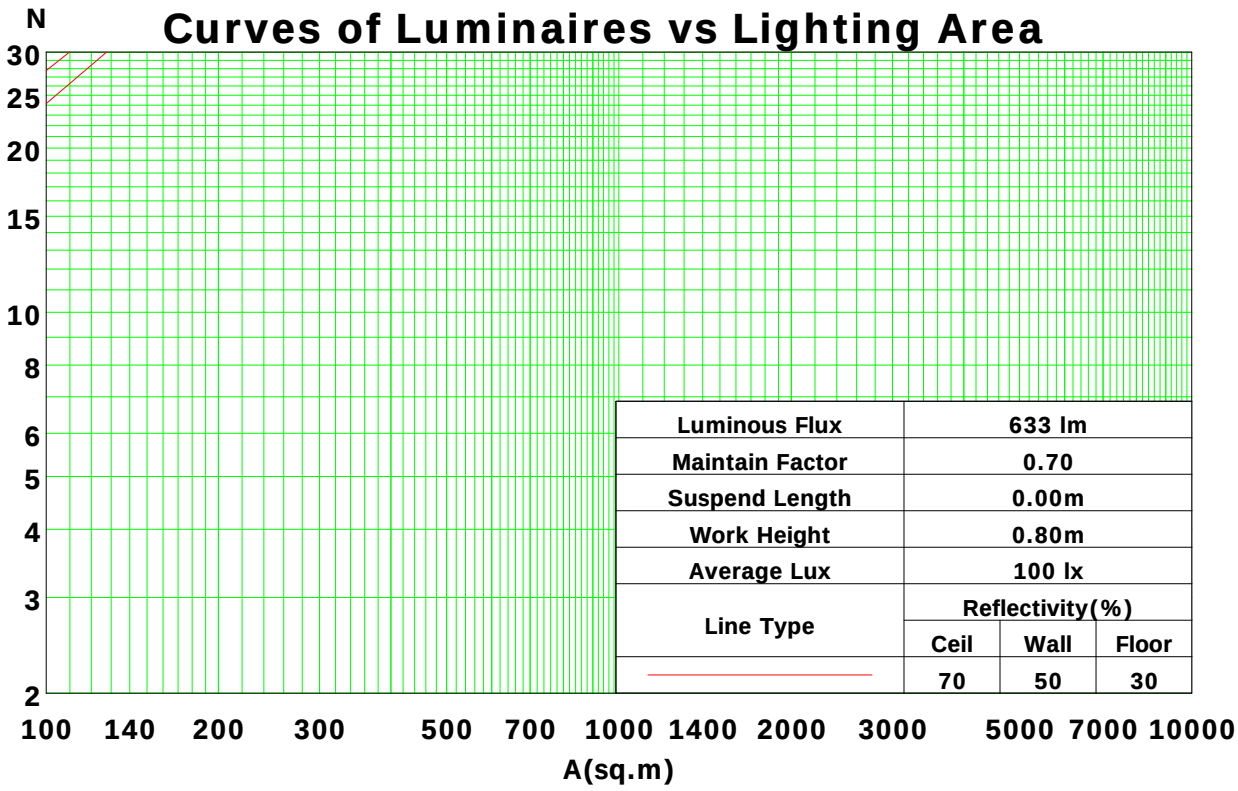
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	99
1	109	104	100	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	61	55	80	69	61	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	45	39	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Spacing Criteria (0-180): 1.27
Spacing Criteria (90-270): 1.27
Spacing Criteria (Diagonal): 1.39

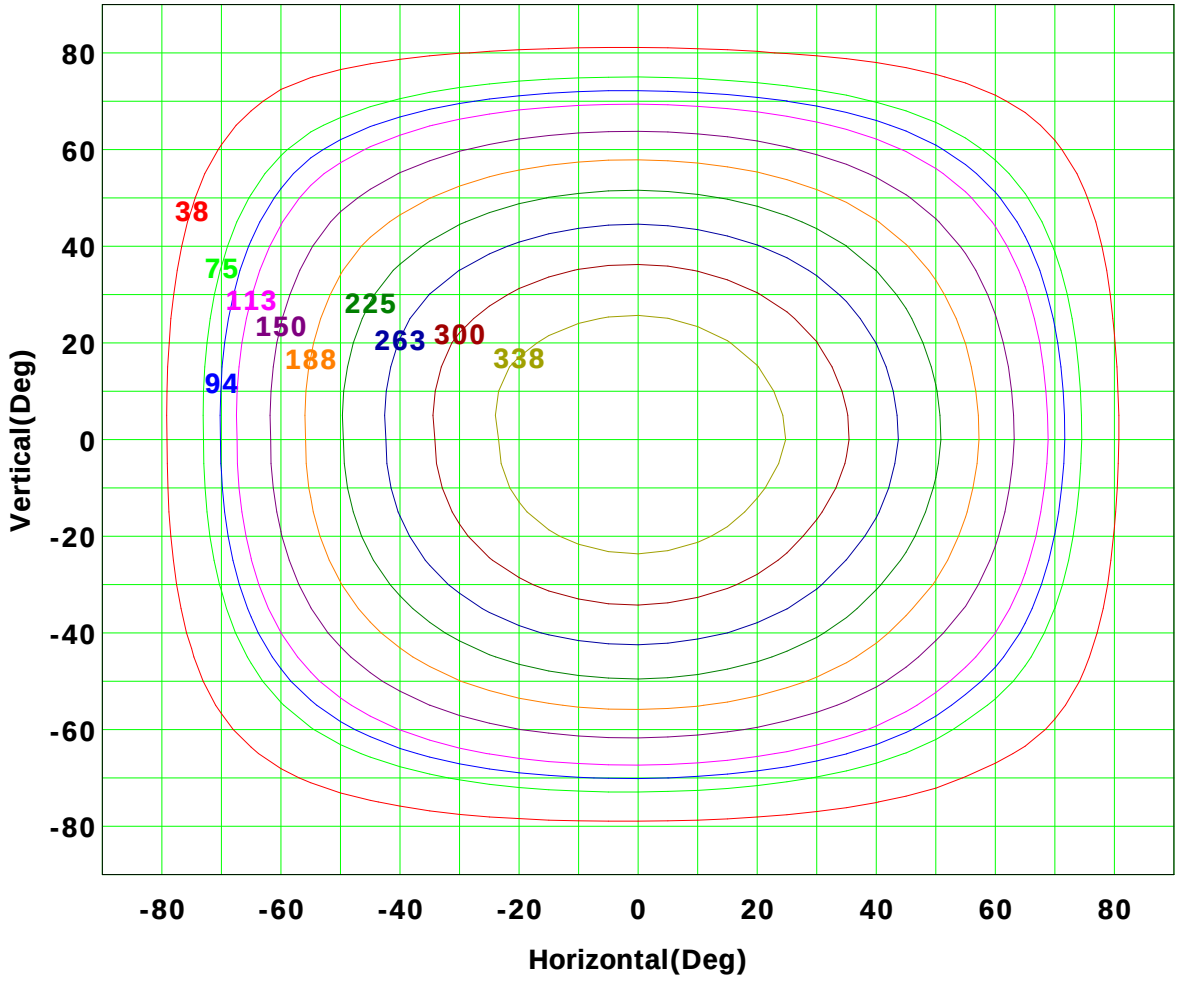
Curves of Luminaires vs Lighting Area



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)



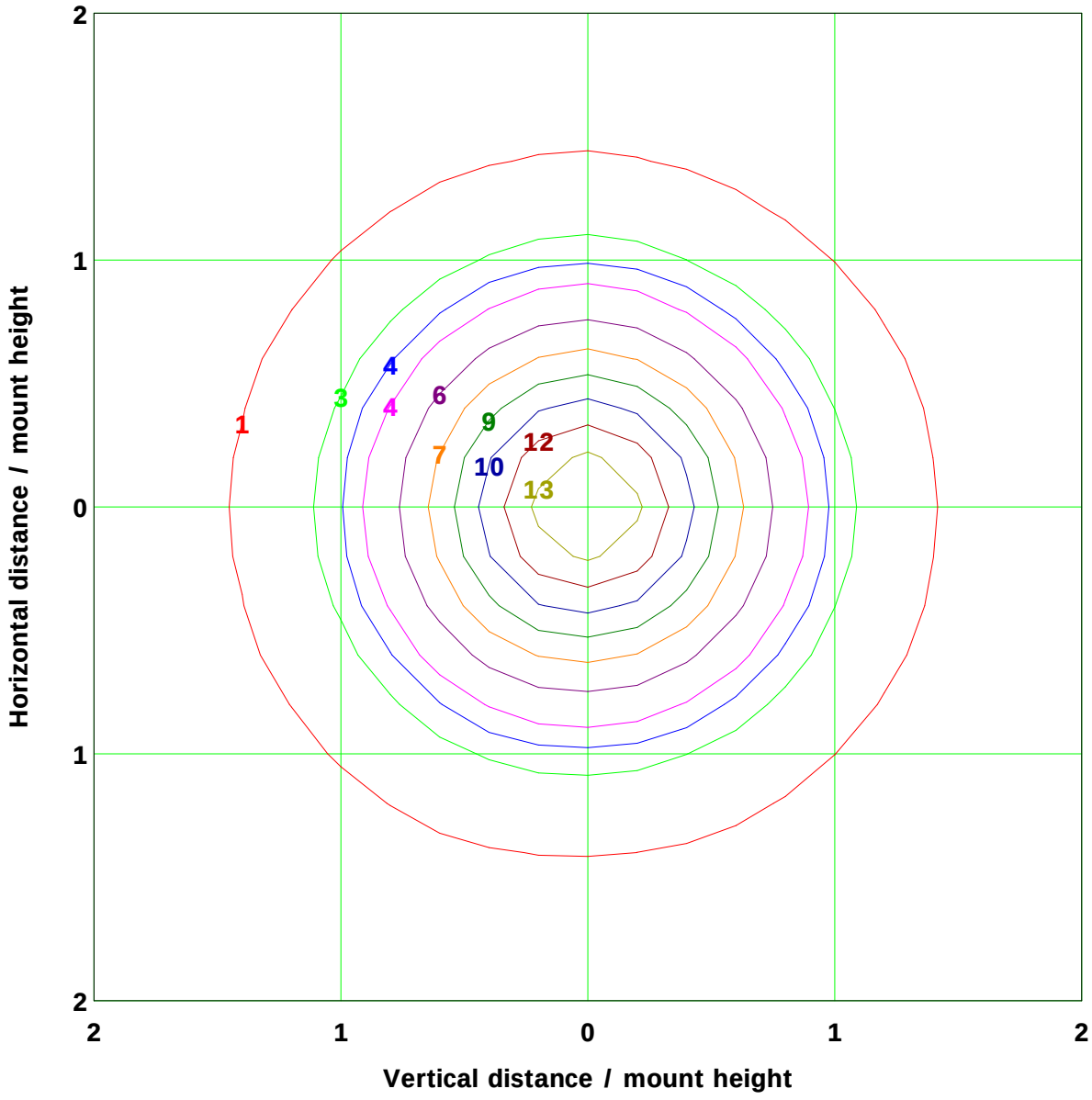
Imax (100%): 375 cd

(10%):	38 cd	(20%):	75 cd
(25%):	94 cd	(30%):	113 cd
(40%):	150 cd	(50%):	188 cd
(60%):	225 cd	(70%):	263 cd
(80%):	300 cd	(90%):	338 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%): 15.0 lx

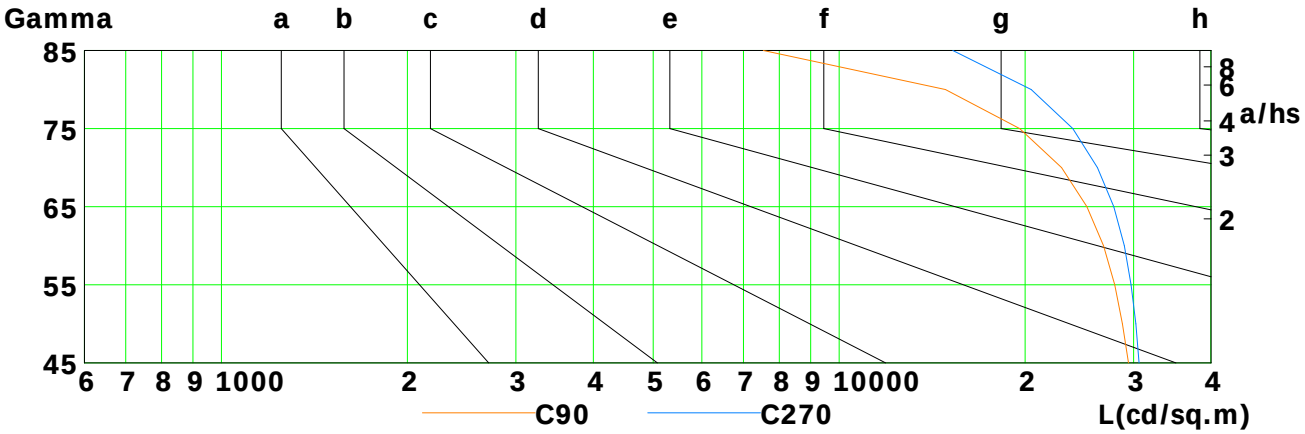
(10%): 1.5 lx	(20%): 3.0 lx
(25%): 3.7 lx	(30%): 4.5 lx
(40%): 6.0 lx	(50%): 7.5 lx
(60%): 9.0 lx	(70%): 10.5 lx
(80%): 12.0 lx	(90%): 13.5 lx

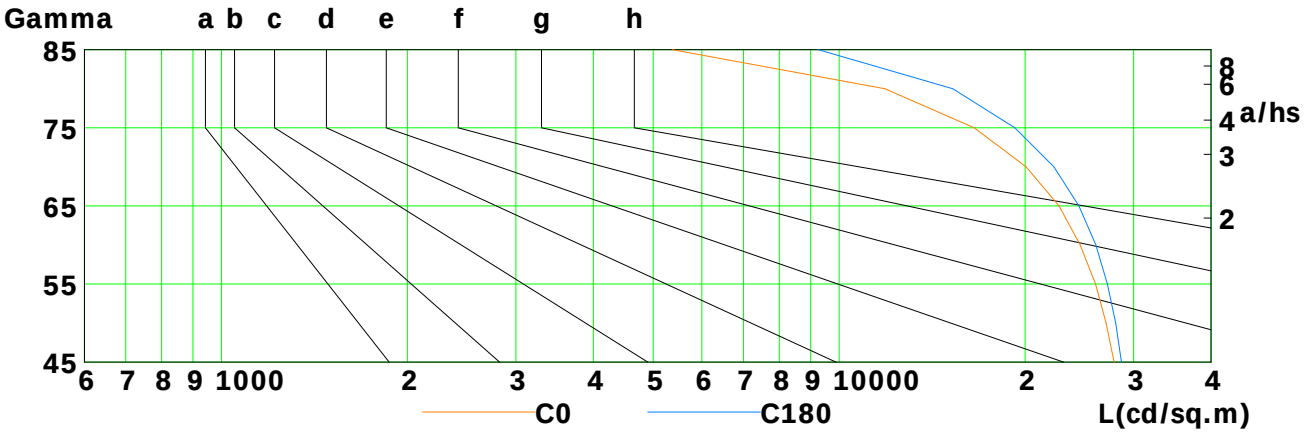
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: JACKY

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



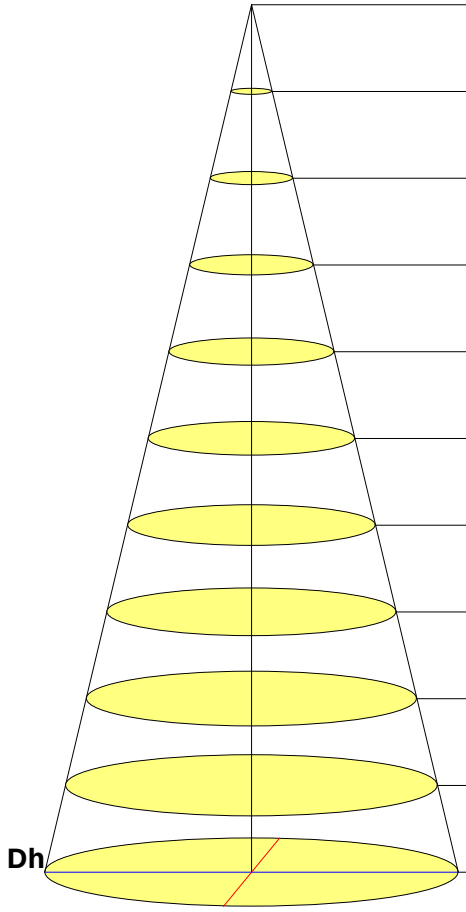


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	27883	27072	26016	24576	22708	20091	16544	11862	5374
C90	29406	28763	27956	26814	25207	22925	19605	14873	7540
C180	28672	28050	27203	26063	24457	22278	19268	15283	9260
C270	30595	30251	29697	28960	27853	26203	23894	20468	15284

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



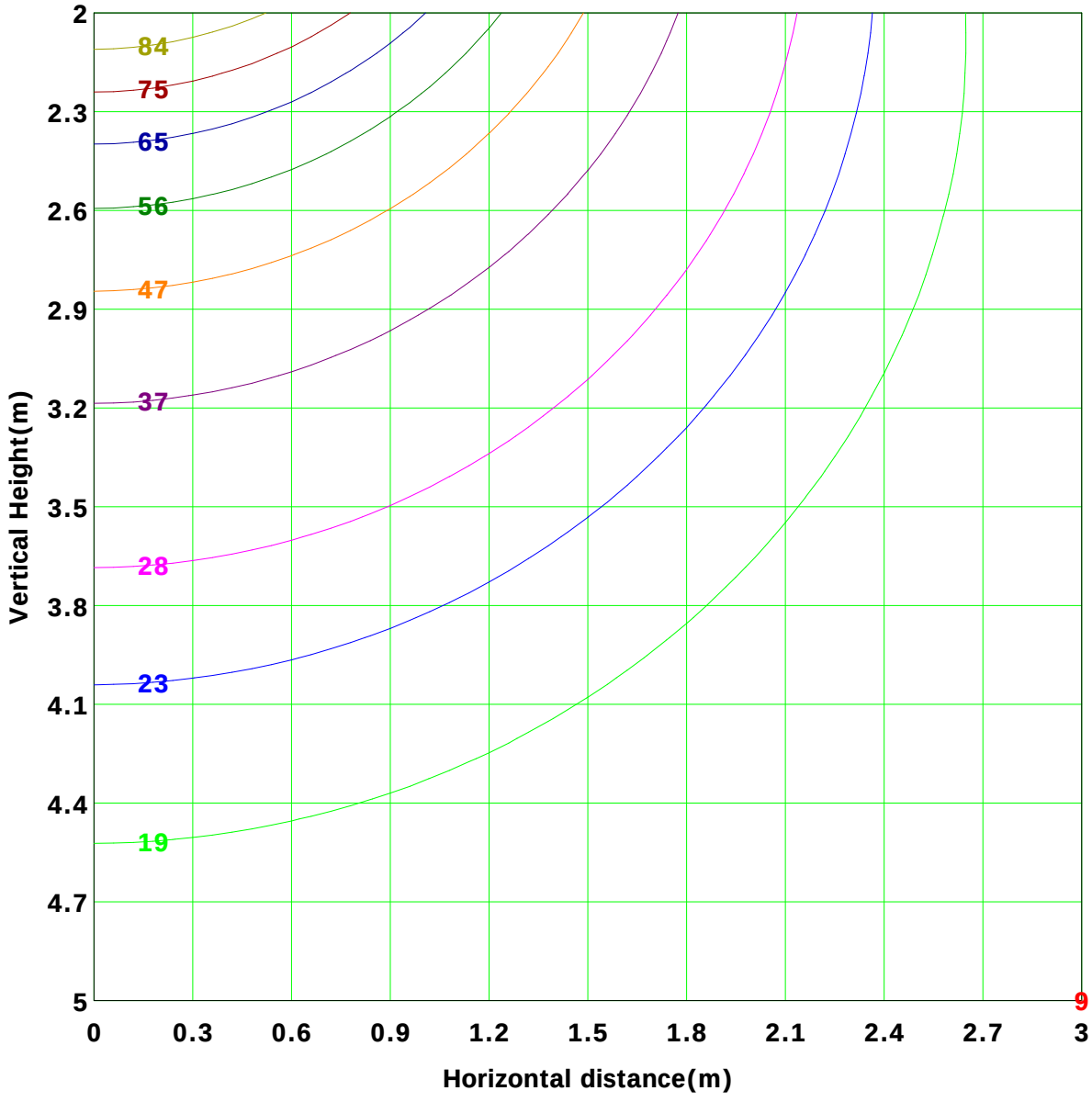
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	373.18	3.05/3.07	7.4	59.63
2.0	93.29	6.10/6.14	29.6	14.91
3.0	41.46	9.14/9.21	66.5	6.63
4.0	23.32	12.19/12.28	118.2	3.73
5.0	14.93	15.24/15.35	184.7	2.39
6.0	10.37	18.29/18.42	266.0	1.66
7.0	7.62	21.34/21.49	362.0	1.22
8.0	5.83	24.39/24.56	472.8	0.93
9.0	4.61	27.43/27.63	598.4	0.74
10.0	3.73	30.48/30.70	738.8	0.60

Beam Angle(B): H113.5 V113.8 Field Angle(F): H159.9 V159.9

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: 93.3 lx

(10%): 9.3 lx
(20%): 18.7 lx
(25%): 23.3 lx
(30%): 28.0 lx
(40%): 37.3 lx
(50%): 46.6 lx
(60%): 56.0 lx
(70%): 65.3 lx
(80%): 74.6 lx
(90%): 84.0 lx

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:

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Area Flux Table

Unit: lm

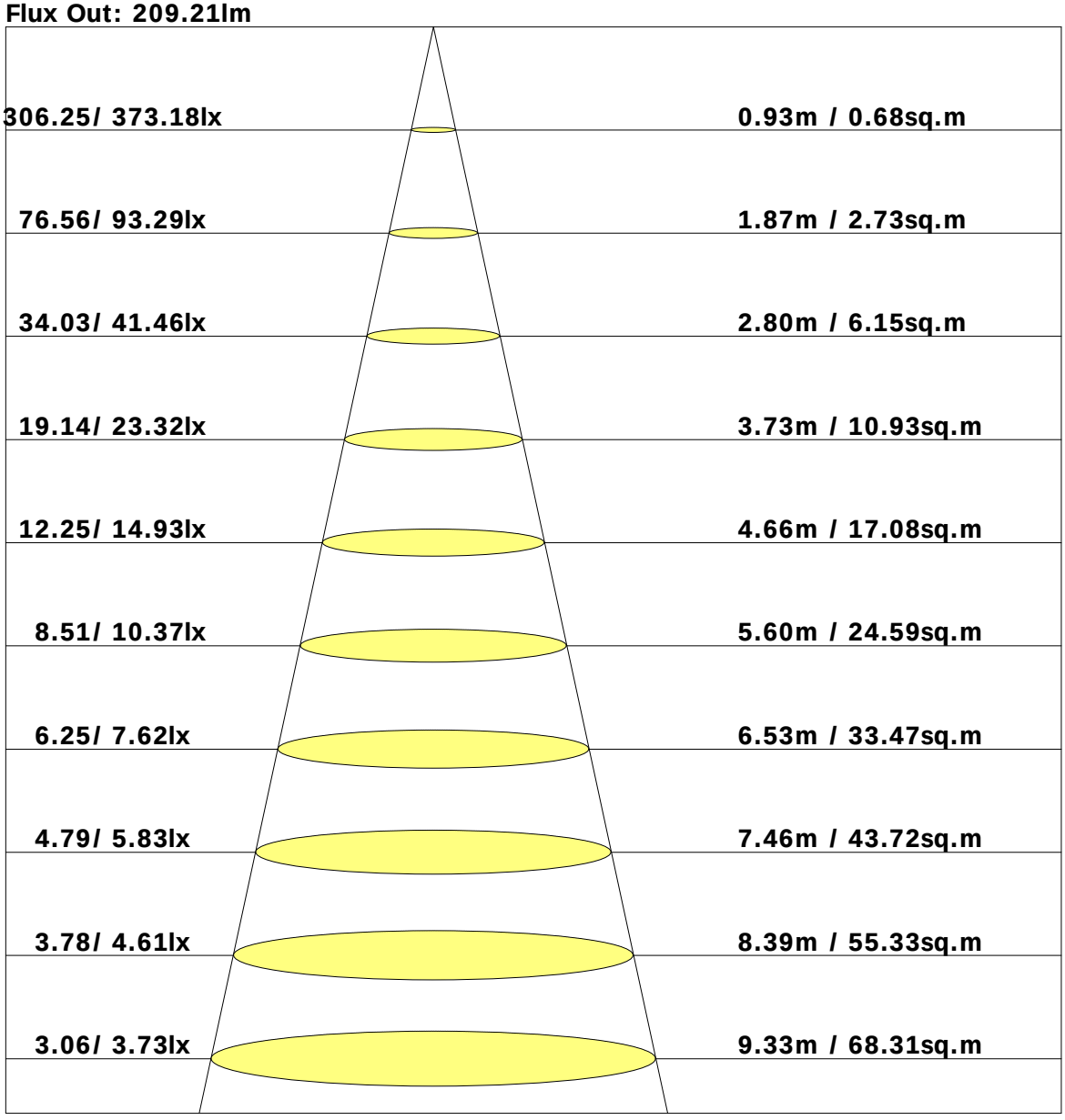
Vertical plane \ Horizontal plane	-90/-80	-80/-70	-70/-60	-60/-50	-50/-40	-40/-30	-30/-20	-20/-10	-10/0	0/10	10/20	20/30	30/40	40/50	50/60	60/70	70/80	80/90	Flux(T)	Flux(E)
-90/-80	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	5.0	0.4
-80/-70	0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.1	2.3	2.3	2.1	1.8	1.5	1.0	0.7	0.3	0.1	0.0	19.2	17.3
-70/-60	0.0	0.2	0.6	1.2	1.9	2.7	3.4	4.0	4.3	4.3	4.0	3.5	2.8	2.0	1.2	0.6	0.2	0.0	36.7	36.1
-60/-50	0.0	0.3	0.9	1.8	2.8	4.0	5.0	5.7	6.2	6.2	5.8	5.1	4.1	2.9	1.8	0.9	0.3	0.0	53.6	53.3
-50/-40	0.0	0.4	1.1	2.3	3.7	5.1	6.4	7.3	7.8	7.8	7.4	6.4	5.2	3.8	2.4	1.1	0.3	0.0	68.7	68.4
-40/-30	0.0	0.5	1.4	2.8	4.4	6.0	7.5	8.6	9.2	9.2	8.6	7.6	6.2	4.5	2.8	1.4	0.4	0.0	81.1	80.9
-30/-20	0.1	0.5	1.6	3.1	4.9	6.8	8.4	9.6	10.2	10.2	9.6	8.5	6.9	5.0	3.1	1.5	0.5	0.0	90.5	90.4
-20/-10	0.1	0.6	1.7	3.4	5.3	7.2	8.9	10.2	10.9	10.9	10.3	9.0	7.3	5.3	3.3	1.6	0.5	0.0	96.7	96.6
-10/0	0.1	0.6	1.8	3.5	5.5	7.5	9.2	10.5	11.2	11.3	10.6	9.2	7.4	5.4	3.4	1.7	0.5	0.0	99.4	99.3
0/10	0.1	0.6	1.8	3.5	5.5	7.4	9.2	10.5	11.2	11.2	10.5	9.1	7.4	5.3	3.4	1.7	0.5	0.0	98.8	98.7
10/20	0.1	0.6	1.7	3.3	5.2	7.1	8.8	10.1	10.8	10.8	10.1	8.8	7.1	5.2	3.2	1.6	0.5	0.0	95.0	94.9
20/30	0.1	0.5	1.5	3.0	4.8	6.5	8.1	9.4	10.0	10.1	9.4	8.2	6.6	4.8	3.0	1.5	0.4	0.0	88.0	87.8
30/40	0.0	0.4	1.3	2.6	4.1	5.8	7.2	8.3	8.9	8.9	8.4	7.3	5.9	4.2	2.6	1.3	0.4	0.0	77.8	77.6
40/50	0.0	0.3	1.0	2.1	3.4	4.8	6.0	7.0	7.5	7.5	7.0	6.1	4.9	3.5	2.1	1.0	0.3	0.0	64.8	64.6
50/60	0.0	0.2	0.7	1.5	2.5	3.6	4.6	5.4	5.8	5.8	5.4	4.7	3.7	2.6	1.6	0.7	0.2	0.0	49.4	49.0
60/70	0.0	0.1	0.4	0.9	1.6	2.3	3.0	3.6	3.9	3.9	3.6	3.1	2.4	1.7	1.0	0.5	0.1	0.0	32.2	31.4
70/80	0.0	0.1	0.2	0.4	0.7	1.1	1.4	1.7	1.9	1.9	1.7	1.5	1.2	0.8	0.5	0.2	0.1	0.0	15.2	11.9
80/90	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	2.8	0.0
Flux(T)	0.7	6.0	18.2	36.2	57.8	80.0	99.8	114.7	122.9	123.2	115.5	100.8	81.0	58.5	36.4	17.6	5.3	0.5	1075	
Flux(E)	0.0	4.9	17.2	35.3	56.9	79.0	98.8	113.8	122.0	122.3	114.6	99.9	80.1	57.6	35.4	16.7	4.1	0.0		1059

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

Flux Out: 209.21lm



Height Avg./Nadir. E Beam Angle:50.0° Diameter / 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:

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	23.4	25.0	23.7	25.3	25.7	23.0	24.6	23.4	24.9	25.3
3H	25.0	26.5	25.4	26.8	27.2	24.6	26.0	25.0	26.4	26.8
4H	25.6	26.9	26.0	27.3	27.7	25.1	26.5	25.5	26.8	27.2
6H	25.9	27.2	26.3	27.6	28.0	25.4	26.6	25.8	27.0	27.5
8H	26.0	27.2	26.4	27.6	28.0	25.4	26.6	25.9	27.0	27.5
12H	26.0	27.2	26.5	27.6	28.0	25.4	26.6	25.9	27.0	27.4
X=4H Y=2H	24.0	25.3	24.4	25.7	26.1	23.6	24.9	24.0	25.3	25.7
3H	25.9	27.0	26.3	27.4	27.9	25.4	26.5	25.8	26.9	27.4
4H	26.5	27.6	27.0	28.0	28.5	26.0	27.0	26.4	27.4	27.9
6H	27.0	27.9	27.5	28.4	28.8	26.3	27.2	26.8	27.7	28.2
8H	27.1	27.9	27.6	28.4	28.9	26.4	27.3	26.9	27.7	28.2
12H	27.1	27.9	27.6	28.4	28.9	26.4	27.2	26.9	27.7	28.2
X=8H Y=4H	26.8	27.6	27.3	28.1	28.6	26.2	27.0	26.7	27.5	28.0
6H	27.3	28.1	27.9	28.6	29.1	26.6	27.3	27.2	27.9	28.4
8H	27.5	28.1	28.1	28.7	29.2	26.7	27.4	27.3	27.9	28.4
12H	27.6	28.2	28.1	28.7	29.3	26.8	27.3	27.3	27.9	28.5
X=12H Y=4H	26.8	27.6	27.3	28.1	28.6	26.2	27.0	26.7	27.5	28.0
6H	27.4	28.0	27.9	28.5	29.1	26.7	27.3	27.2	27.8	28.4
8H	27.6	28.1	28.1	28.7	29.3	26.8	27.3	27.3	27.9	28.5

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: 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 = 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	1.00
	0.20		0.43	0.53	0.61	0.67	0.76	0.82	0.86	0.92	0.96
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99
	0.30		0.47	0.58	0.65	0.71	0.78	0.84	0.87	0.92	0.96
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	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	0.94
	0.30		0.46	0.56	0.63	0.69	0.76	0.81	0.84	0.89	0.92
	0.20		0.42	0.52	0.59	0.64	0.72	0.78	0.81	0.87	0.90
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.69	0.74	0.77	0.82	0.85

Rating:9W 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 = 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	0.82	0.70	0.61	0.48	0.40	0.34	0.26	0.22
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.23	0.20
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.46	0.41	0.32	0.25	0.20
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20
	0.20		0.71	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.30	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.36	0.31	0.24	0.19
	0.30		0.79	0.67	0.57	0.50	0.41	0.34	0.29	0.23	0.19
	0.20		0.70	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.00	0.00	0.00	0.59	0.50	0.43	0.37	0.30	0.25	0.21	0.17	0.14

Rating:9W 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 = 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	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.06	0.08	0.09	0.10	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.21
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.10	0.12	0.13	0.15	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:9W 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	374.4	0.4	0.4	0.03	0.03
1.0-2.0	374.2	1.1	1.4	0.10	0.13
2.0-3.0	374.0	1.8	3.2	0.16	0.30
3.0-4.0	373.6	2.5	5.7	0.23	0.52
4.0-5.0	373.1	3.2	8.9	0.29	0.82
5.0-6.0	372.5	3.9	12.8	0.36	1.18
6.0-7.0	371.8	4.6	17.5	0.42	1.60
7.0-8.0	370.9	5.3	22.8	0.49	2.09
8.0-9.0	369.9	6.0	28.8	0.55	2.64
9.0-10.0	368.8	6.7	35.4	0.61	3.25
10.0-11.0	367.6	7.3	42.8	0.67	3.92
11.0-12.0	366.2	8.0	50.8	0.73	4.65
12.0-13.0	364.8	8.7	59.5	0.79	5.45
13.0-14.0	363.2	9.3	68.8	0.85	6.30
14.0-15.0	361.5	9.9	78.7	0.91	7.21
15.0-16.0	359.6	10.5	89.2	0.97	8.17
16.0-17.0	357.7	11.1	100.4	1.02	9.19
17.0-18.0	355.6	11.7	112.1	1.07	10.27
18.0-19.0	353.4	12.3	124.4	1.13	11.40
19.0-20.0	351.1	12.9	137.2	1.18	12.57
20.0-21.0	348.7	13.4	150.6	1.23	13.80
21.0-22.0	346.1	13.9	164.5	1.27	15.07
22.0-23.0	343.5	14.4	178.9	1.32	16.40
23.0-24.0	340.7	14.9	193.8	1.37	17.76
24.0-25.0	337.8	15.4	209.2	1.41	19.17
25.0-26.0	334.8	15.8	225.0	1.45	20.62
26.0-27.0	331.7	16.2	241.2	1.49	22.10
27.0-28.0	328.4	16.6	257.9	1.52	23.63
28.0-29.0	325.1	17.0	274.9	1.56	25.19
29.0-30.0	321.7	17.4	292.3	1.59	26.78
30.0-31.0	318.1	17.7	310.0	1.62	28.40
31.0-32.0	314.4	18.0	328.0	1.65	30.05
32.0-33.0	310.6	18.3	346.3	1.68	31.73
33.0-34.0	306.7	18.6	364.8	1.70	33.43
34.0-35.0	302.7	18.8	383.6	1.72	35.15
35.0-36.0	298.6	19.0	402.7	1.74	36.89

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	294.4	19.2	421.9	1.76	38.65
37.0-38.0	290.0	19.4	441.2	1.77	40.43
38.0-39.0	285.6	19.5	460.7	1.79	42.21
39.0-40.0	281.1	19.6	480.3	1.80	44.01
40.0-41.0	276.4	19.7	500.0	1.80	45.81
41.0-42.0	271.7	19.7	519.8	1.81	47.62
42.0-43.0	267.0	19.8	539.5	1.81	49.43
43.0-44.0	262.0	19.8	559.3	1.81	51.25
44.0-45.0	257.0	19.8	579.1	1.81	53.06
45.0-46.0	251.8	19.7	598.8	1.80	54.86
46.0-47.0	246.6	19.6	618.4	1.80	56.66
47.0-48.0	241.2	19.5	637.9	1.79	58.44
48.0-49.0	235.9	19.4	657.3	1.78	60.22
49.0-50.0	230.4	19.2	676.5	1.76	61.98
50.0-51.0	224.7	19.0	695.5	1.74	63.72
51.0-52.0	219.0	18.8	714.3	1.72	65.44
52.0-53.0	213.3	18.6	732.8	1.70	67.15
53.0-54.0	207.4	18.3	751.1	1.68	68.82
54.0-55.0	201.5	18.0	769.1	1.65	70.47
55.0-56.0	195.4	17.7	786.8	1.62	72.09
56.0-57.0	189.3	17.3	804.1	1.59	73.67
57.0-58.0	183.1	16.9	821.0	1.55	75.22
58.0-59.0	176.9	16.5	837.6	1.52	76.74
59.0-60.0	170.6	16.1	853.7	1.48	78.22
60.0-61.0	164.2	15.7	869.4	1.44	79.65
61.0-62.0	157.8	15.2	884.6	1.39	81.05
62.0-63.0	151.2	14.7	899.3	1.35	82.39
63.0-64.0	144.6	14.2	913.5	1.30	83.69
64.0-65.0	138.0	13.7	927.1	1.25	84.95
65.0-66.0	131.3	13.1	940.2	1.20	86.15
66.0-67.0	124.6	12.5	952.8	1.15	87.29
67.0-68.0	117.9	11.9	964.7	1.09	88.39
68.0-69.0	111.1	11.3	976.0	1.04	89.43
69.0-70.0	104.3	10.7	986.7	0.98	90.41
70.0-71.0	97.5	10.1	996.8	0.92	91.33
71.0-72.0	90.8	9.4	1006.3	0.87	92.20

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	84.1	8.8	1015.1	0.81	93.00
73.0-74.0	77.5	8.1	1023.2	0.75	93.75
74.0-75.0	70.9	7.5	1030.7	0.69	94.44
75.0-76.0	64.4	6.8	1037.5	0.63	95.06
76.0-77.0	58.1	6.2	1043.7	0.57	95.63
77.0-78.0	51.9	5.6	1049.3	0.51	96.14
78.0-79.0	46.0	4.9	1054.2	0.45	96.59
79.0-80.0	40.2	4.3	1058.6	0.40	96.99
80.0-81.0	34.6	3.7	1062.3	0.34	97.33
81.0-82.0	29.3	3.2	1065.5	0.29	97.62
82.0-83.0	24.2	2.6	1068.1	0.24	97.86
83.0-84.0	19.3	2.1	1070.2	0.19	98.06
84.0-85.0	15.0	1.6	1071.9	0.15	98.21
85.0-86.0	11.0	1.2	1073.1	0.11	98.32
86.0-87.0	7.7	0.8	1073.9	0.08	98.39
87.0-88.0	5.1	0.6	1074.5	0.05	98.45
88.0-89.0	3.3	0.4	1074.8	0.03	98.48
89.0-90.0	2.2	0.2	1075.1	0.02	98.50
90.0-91.0	1.7	0.2	1075.3	0.02	98.52
91.0-92.0	1.5	0.2	1075.4	0.02	98.53
92.0-93.0	1.5	0.2	1075.6	0.01	98.55
93.0-94.0	1.5	0.2	1075.8	0.02	98.56
94.0-95.0	1.5	0.2	1075.9	0.02	98.58
95.0-96.0	1.6	0.2	1076.1	0.02	98.60
96.0-97.0	1.6	0.2	1076.3	0.02	98.61
97.0-98.0	1.6	0.2	1076.4	0.02	98.63
98.0-99.0	1.6	0.2	1076.6	0.02	98.64
99.0-100.0	1.7	0.2	1076.8	0.02	98.66
100.0-101.0	1.7	0.2	1077.0	0.02	98.68
101.0-102.0	1.8	0.2	1077.2	0.02	98.69
102.0-103.0	1.8	0.2	1077.4	0.02	98.71
103.0-104.0	1.8	0.2	1077.6	0.02	98.73
104.0-105.0	1.9	0.2	1077.8	0.02	98.75
105.0-106.0	1.9	0.2	1078.0	0.02	98.77
106.0-107.0	2.0	0.2	1078.2	0.02	98.79
107.0-108.0	2.0	0.2	1078.4	0.02	98.81

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	2.1	0.2	1078.6	0.02	98.83
109.0-110.0	2.1	0.2	1078.8	0.02	98.84
110.0-111.0	2.1	0.2	1079.0	0.02	98.86
111.0-112.0	2.2	0.2	1079.3	0.02	98.88
112.0-113.0	2.2	0.2	1079.5	0.02	98.91
113.0-114.0	2.3	0.2	1079.7	0.02	98.93
114.0-115.0	2.3	0.2	1079.9	0.02	98.95
115.0-116.0	2.4	0.2	1080.2	0.02	98.97
116.0-117.0	2.4	0.2	1080.4	0.02	98.99
117.0-118.0	2.5	0.2	1080.6	0.02	99.01
118.0-119.0	2.5	0.2	1080.9	0.02	99.03
119.0-120.0	2.5	0.2	1081.1	0.02	99.06
120.0-121.0	2.6	0.2	1081.4	0.02	99.08
121.0-122.0	2.6	0.2	1081.6	0.02	99.10
122.0-123.0	2.6	0.2	1081.9	0.02	99.12
123.0-124.0	2.7	0.2	1082.1	0.02	99.15
124.0-125.0	2.7	0.2	1082.3	0.02	99.17
125.0-126.0	2.8	0.2	1082.6	0.02	99.19
126.0-127.0	2.8	0.2	1082.8	0.02	99.21
127.0-128.0	2.9	0.2	1083.1	0.02	99.24
128.0-129.0	2.9	0.2	1083.3	0.02	99.26
129.0-130.0	2.9	0.2	1083.6	0.02	99.28
130.0-131.0	3.0	0.2	1083.8	0.02	99.30
131.0-132.0	3.0	0.2	1084.1	0.02	99.33
132.0-133.0	3.0	0.2	1084.3	0.02	99.35
133.0-134.0	3.1	0.2	1084.6	0.02	99.37
134.0-135.0	3.1	0.2	1084.8	0.02	99.39
135.0-136.0	3.2	0.2	1085.1	0.02	99.42
136.0-137.0	3.2	0.2	1085.3	0.02	99.44
137.0-138.0	3.2	0.2	1085.5	0.02	99.46
138.0-139.0	3.3	0.2	1085.8	0.02	99.48
139.0-140.0	3.3	0.2	1086.0	0.02	99.50
140.0-141.0	3.3	0.2	1086.2	0.02	99.52
141.0-142.0	3.4	0.2	1086.5	0.02	99.55
142.0-143.0	3.4	0.2	1086.7	0.02	99.57
143.0-144.0	3.4	0.2	1086.9	0.02	99.59

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	3.5	0.2	1087.1	0.02	99.61
145.0-146.0	3.5	0.2	1087.4	0.02	99.63
146.0-147.0	3.5	0.2	1087.6	0.02	99.65
147.0-148.0	3.6	0.2	1087.8	0.02	99.67
148.0-149.0	3.6	0.2	1088.0	0.02	99.68
149.0-150.0	3.6	0.2	1088.2	0.02	99.70
150.0-151.0	3.6	0.2	1088.4	0.02	99.72
151.0-152.0	3.7	0.2	1088.6	0.02	99.74
152.0-153.0	3.7	0.2	1088.8	0.02	99.76
153.0-154.0	3.7	0.2	1088.9	0.02	99.77
154.0-155.0	3.7	0.2	1089.1	0.02	99.79
155.0-156.0	3.8	0.2	1089.3	0.02	99.80
156.0-157.0	3.8	0.2	1089.5	0.02	99.82
157.0-158.0	3.8	0.2	1089.6	0.01	99.83
158.0-159.0	3.8	0.2	1089.8	0.01	99.85
159.0-160.0	3.8	0.1	1089.9	0.01	99.86
160.0-161.0	3.9	0.1	1090.1	0.01	99.87
161.0-162.0	3.9	0.1	1090.2	0.01	99.89
162.0-163.0	3.9	0.1	1090.3	0.01	99.90
163.0-164.0	3.9	0.1	1090.4	0.01	99.91
164.0-165.0	3.9	0.1	1090.6	0.01	99.92
165.0-166.0	4.0	0.1	1090.7	0.01	99.93
166.0-167.0	4.0	0.1	1090.8	0.01	99.94
167.0-168.0	4.0	0.1	1090.9	0.01	99.95
168.0-169.0	4.0	0.1	1091.0	0.01	99.96
169.0-170.0	4.0	0.1	1091.0	0.01	99.96
170.0-171.0	4.1	0.1	1091.1	0.01	99.97
171.0-172.0	4.1	0.1	1091.2	0.01	99.98
172.0-173.0	4.1	0.1	1091.2	0.01	99.98
173.0-174.0	4.1	0.1	1091.3	0.00	99.99
174.0-175.0	4.1	0.0	1091.3	0.00	99.99
175.0-176.0	4.1	0.0	1091.4	0.00	99.99
176.0-177.0	4.1	0.0	1091.4	0.00	100.00
177.0-178.0	4.1	0.0	1091.4	0.00	100.00
178.0-179.0	4.2	0.0	1091.4	0.00	100.00
179.0-180.0	4.2	0.0	1091.4	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: