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

Report No.: **Test Time: 2021/12/30 10:18**

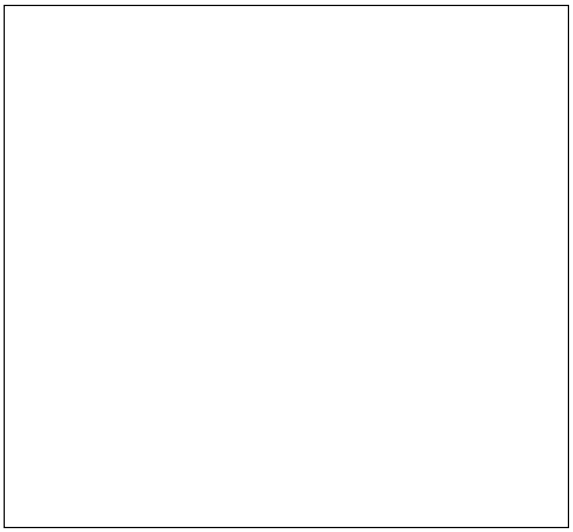
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: Double Row Ribbonlyte
Luminaire Description: DRRB90SWS2203.030
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: 0.186 A **Power: 4.46 W**
Power Factor: 1.000

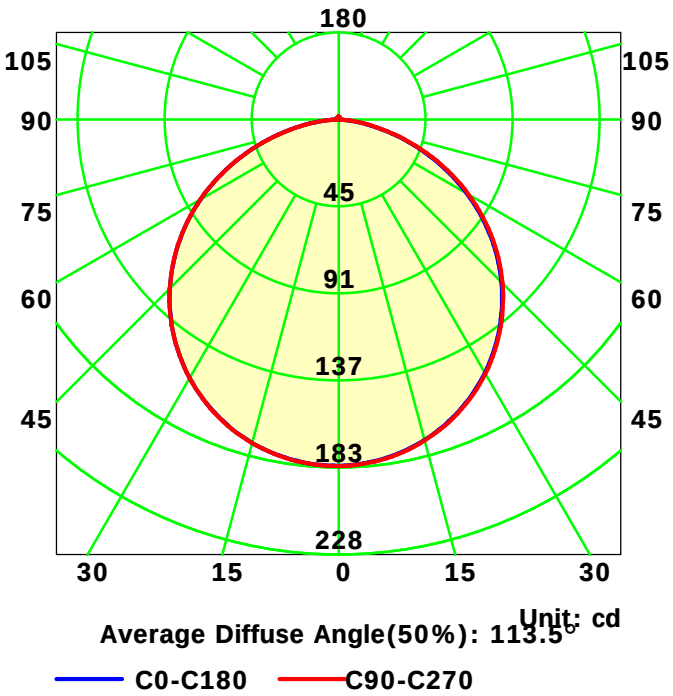
Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 527.0 lm**
Measurement Flux: 527 lm **Efficiency: 100%**
Downward Ratio: 99% **Upward Ratio: 1%**
Horizontal Diffuse Angle(10%,50%): H159.7,H113.4
Vertical Diffuse Angle(10%,50%): V159.6,V113.7
Luminaire Efficacy Rating (LER): 118 **Central Intensity: 182.07 cd**
Max. Intensity: 182.34 cd **Pos of Max. Intensity: H330 V1**

Picture Of Luminaire

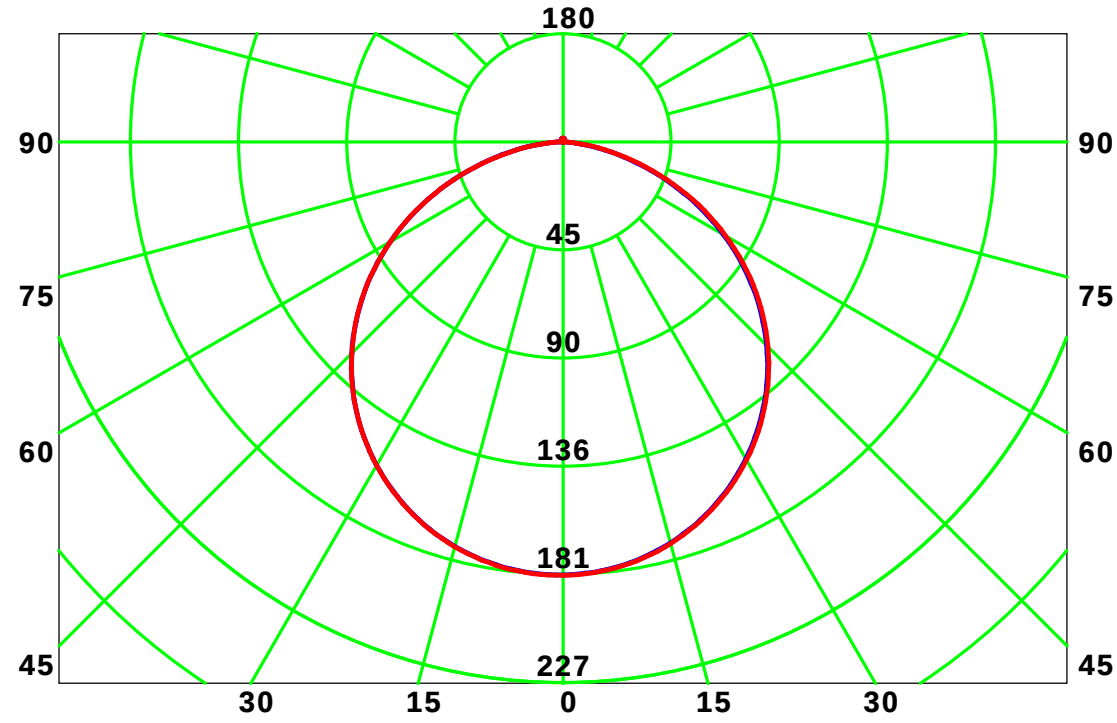


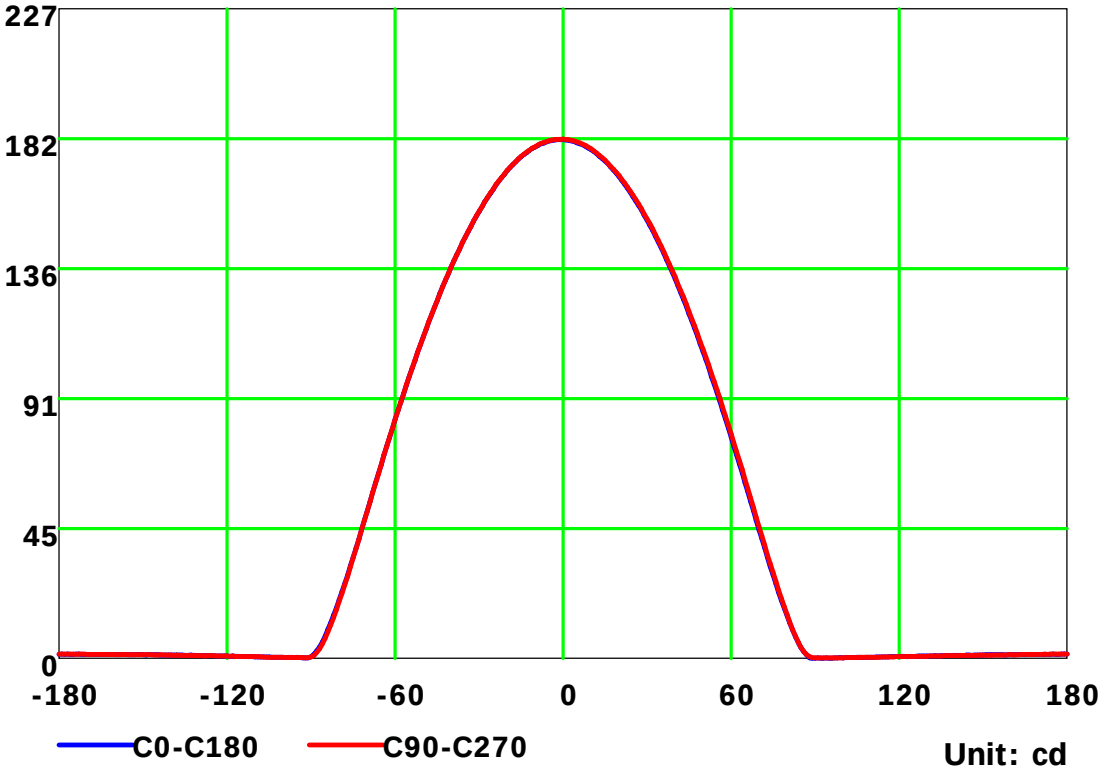
Luminous Intensity Distribution Curve



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





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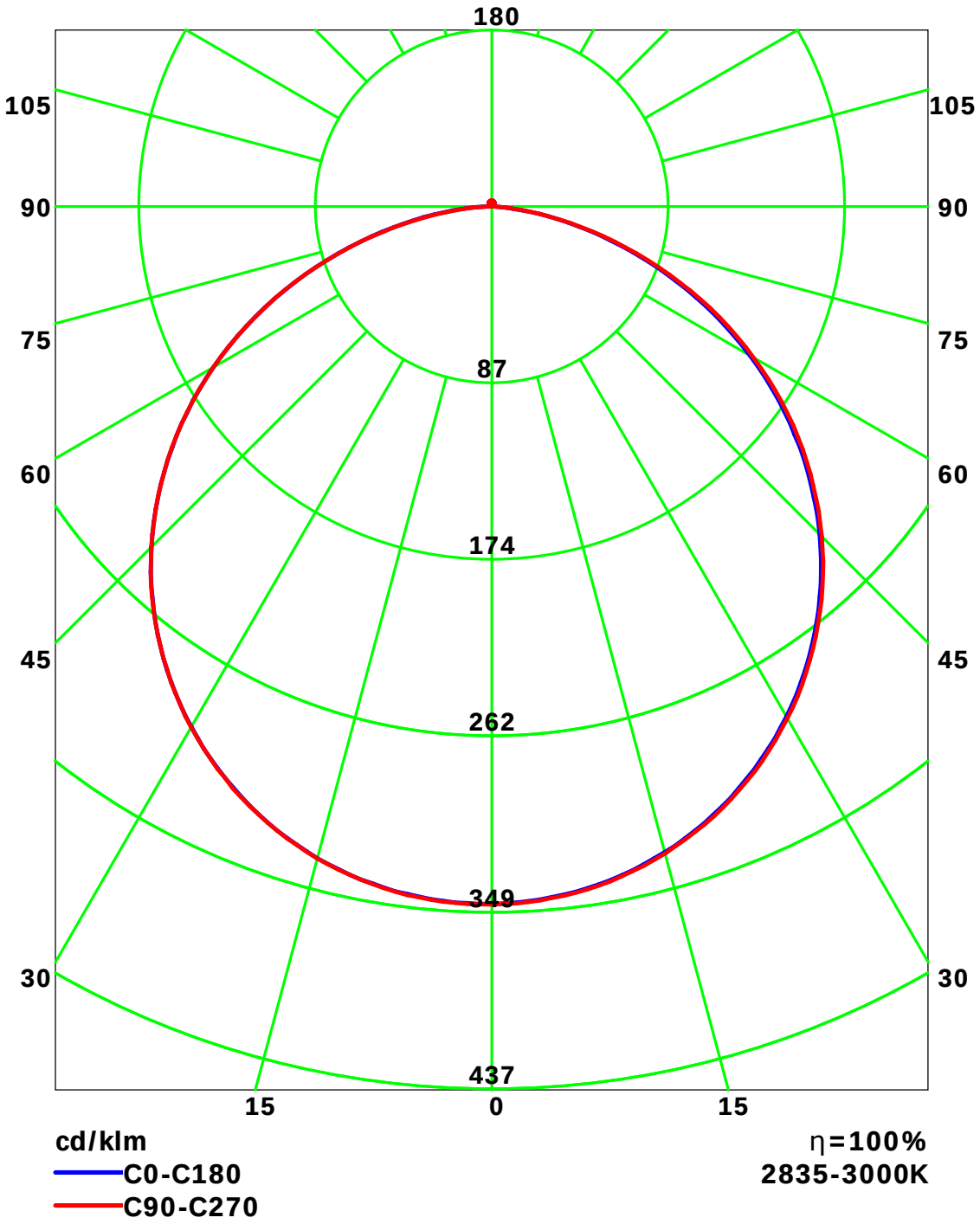
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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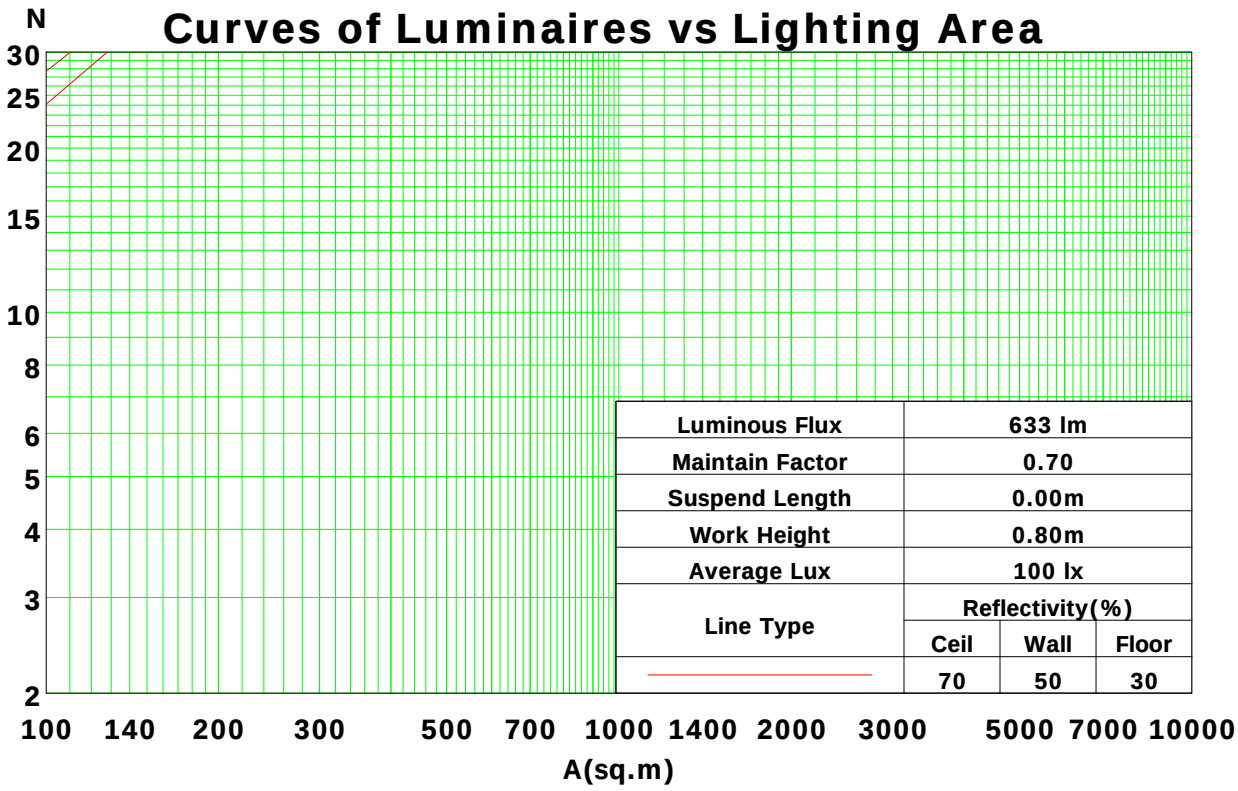
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	89	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	40	52	45	40	50	44	40	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	45	37	32	43	37	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): 1.27
Spacing Criteria (90-270): 1.27
Spacing Criteria (Diagonal): 1.39

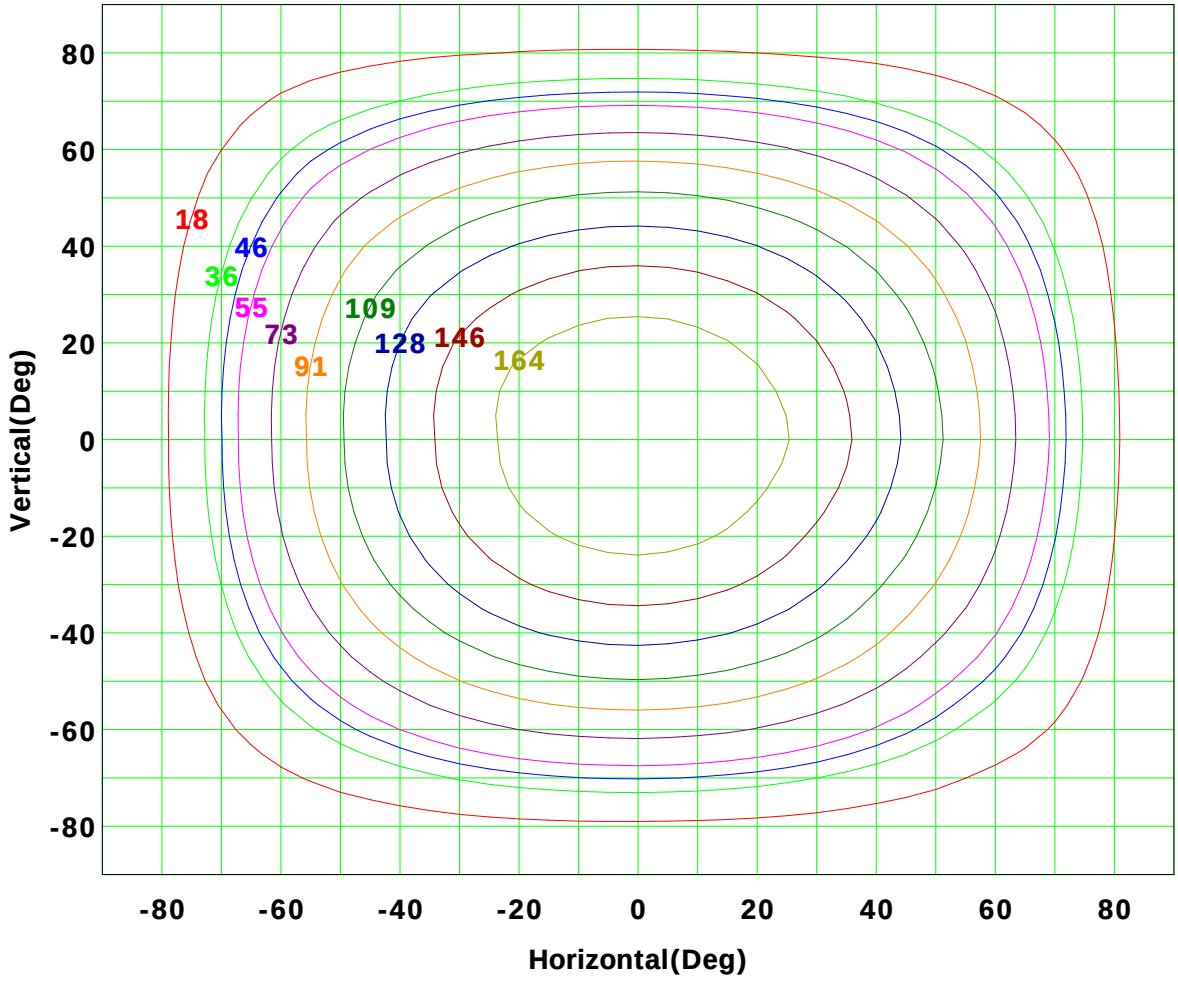
Curves of Luminaires vs Lighting Area



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)



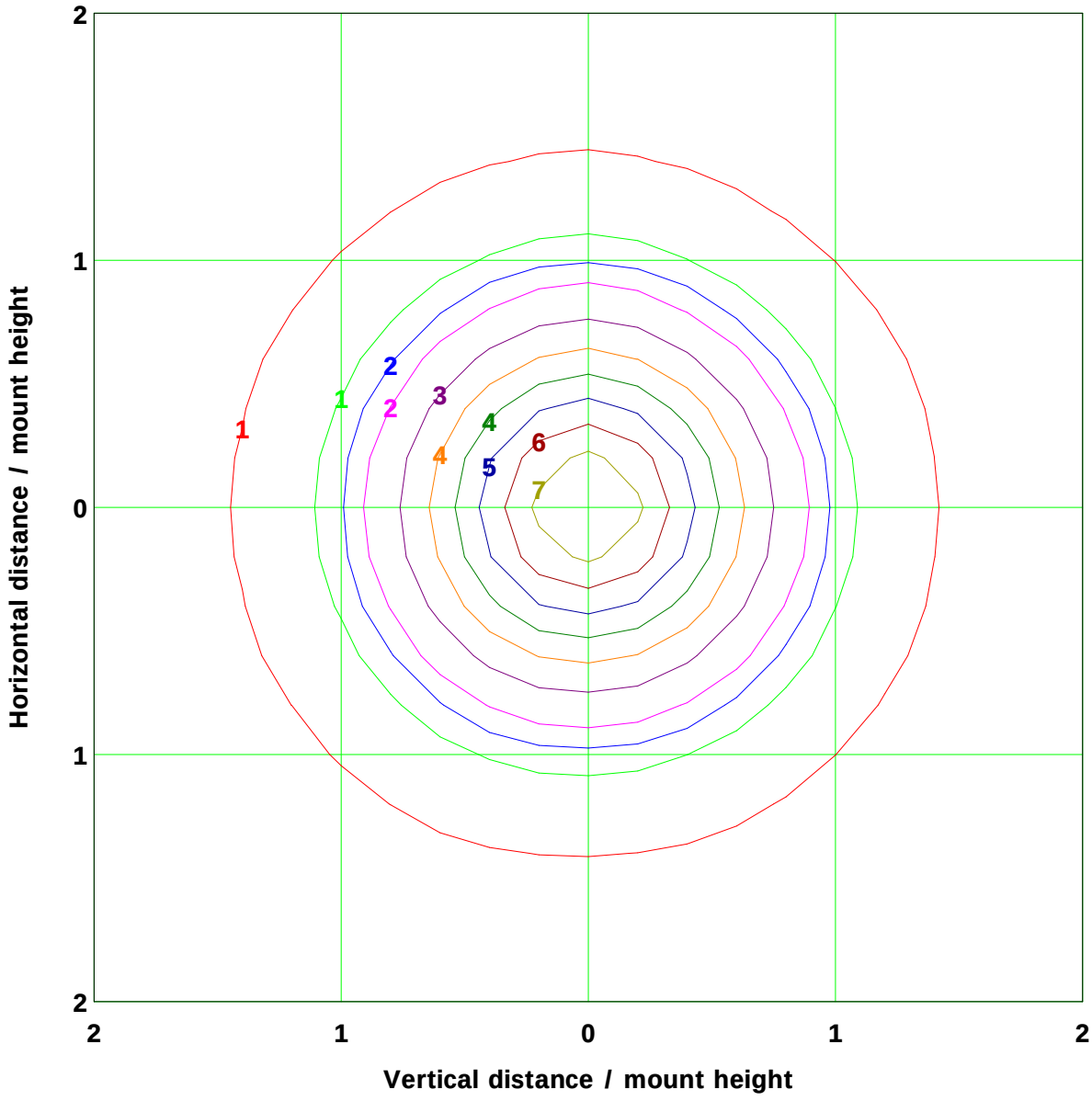
Imax (100%): 182 cd

(10%):	18 cd	(20%):	36 cd
(25%):	46 cd	(30%):	55 cd
(40%):	73 cd	(50%):	91 cd
(60%):	109 cd	(70%):	128 cd
(80%):	146 cd	(90%):	164 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%): 7.3 lx

(10%): 0.7 lx	(20%): 1.5 lx
(25%): 1.8 lx	(30%): 2.2 lx
(40%): 2.9 lx	(50%): 3.6 lx
(60%): 4.4 lx	(70%): 5.1 lx
(80%): 5.8 lx	(90%): 6.6 lx

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Test Lab:
Test Type: TYPE C
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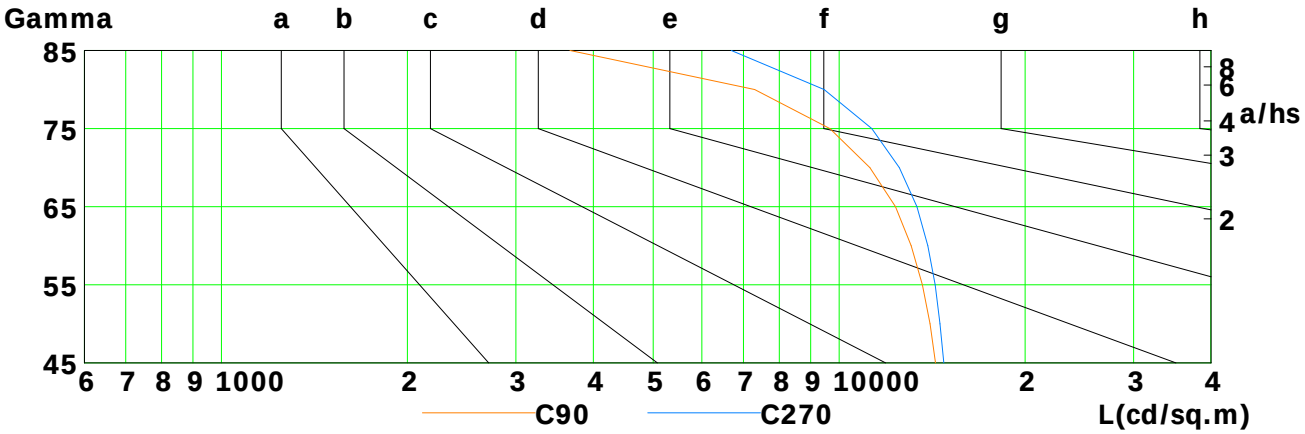
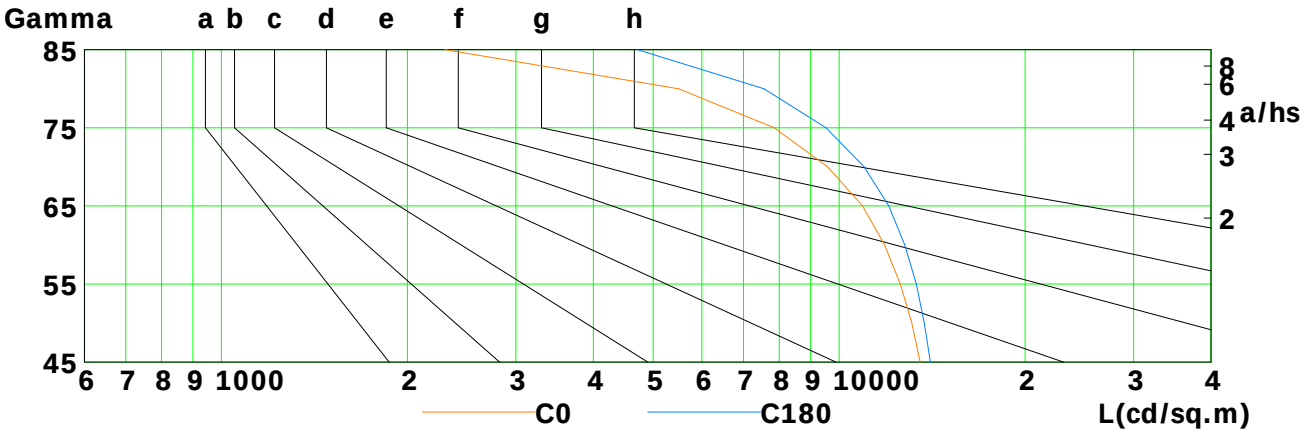
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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



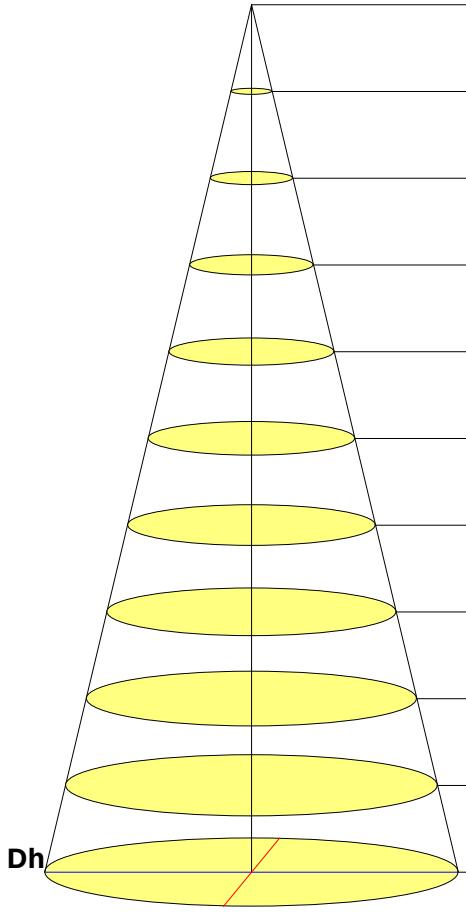


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13528	13120	12568	11854	10912	9588	7856	5499	2303
C90	14322	14037	13644	13088	12348	11213	9665	7302	3668
C180	14056	13748	13340	12779	12031	10984	9524	7555	4718
C270	14773	14575	14316	13929	13364	12519	11298	9463	6695

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



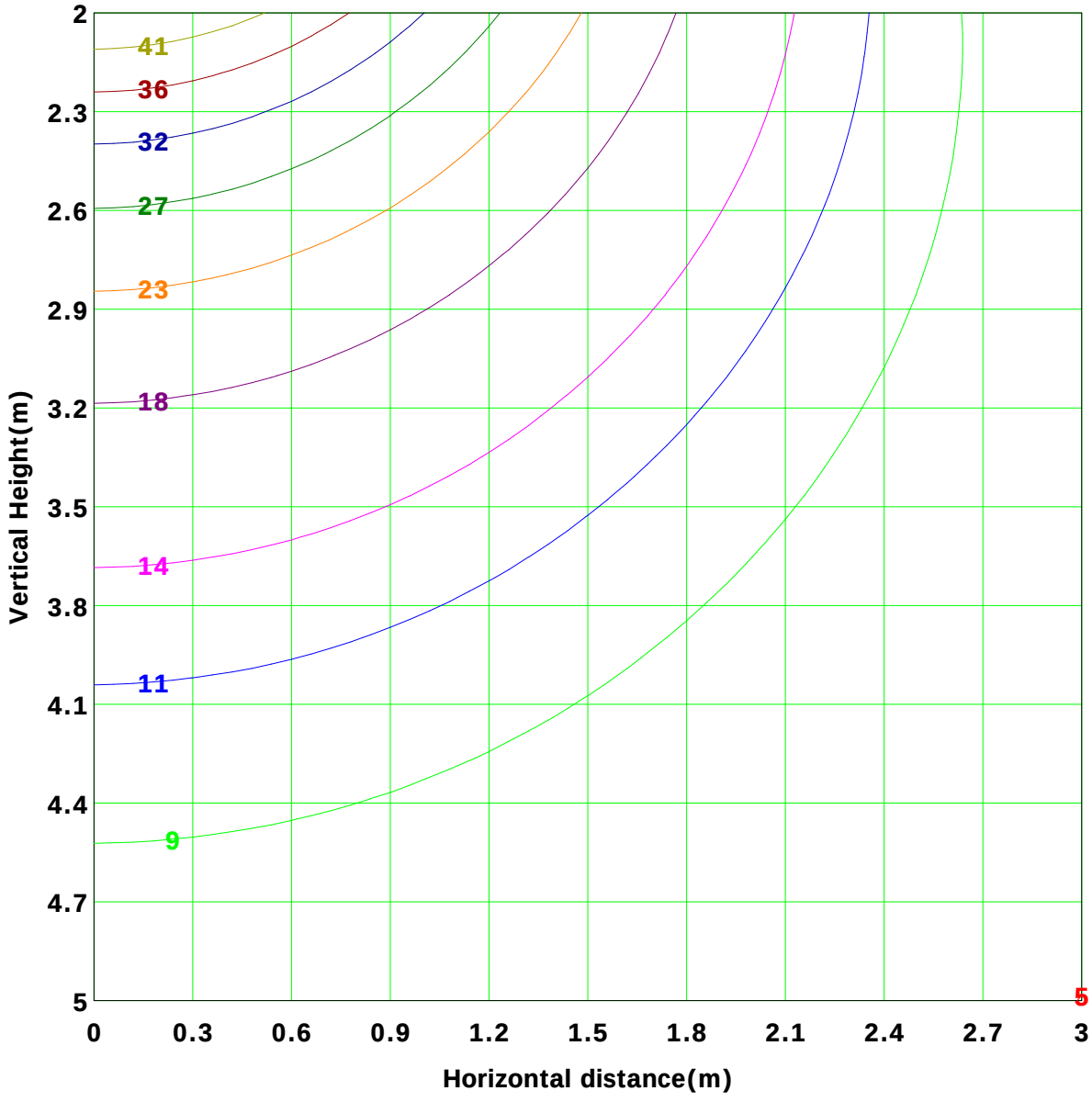
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	182.07	3.04/3.06	7.3	29.14
2.0	45.52	6.09/6.12	29.4	7.28
3.0	20.23	9.13/9.19	66.1	3.24
4.0	11.38	12.17/12.25	117.4	1.82
5.0	7.28	15.22/15.31	183.5	1.17
6.0	5.06	18.26/18.37	264.2	0.81
7.0	3.72	21.30/21.43	359.6	0.59
8.0	2.84	24.35/24.50	469.7	0.46
9.0	2.25	27.39/27.56	594.5	0.36
10.0	1.82	30.43/30.62	733.9	0.29

Beam Angle(B): H113.4 V113.7 Field Angle(F): H159.7 V159.6

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: 45.5 lx

(10%): 4.6 lx	(20%): 9.1 lx
(25%): 11.4 lx	(30%): 13.7 lx
(40%): 18.2 lx	(50%): 22.8 lx
(60%): 27.3 lx	(70%): 31.9 lx
(80%): 36.4 lx	(90%): 41.0 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

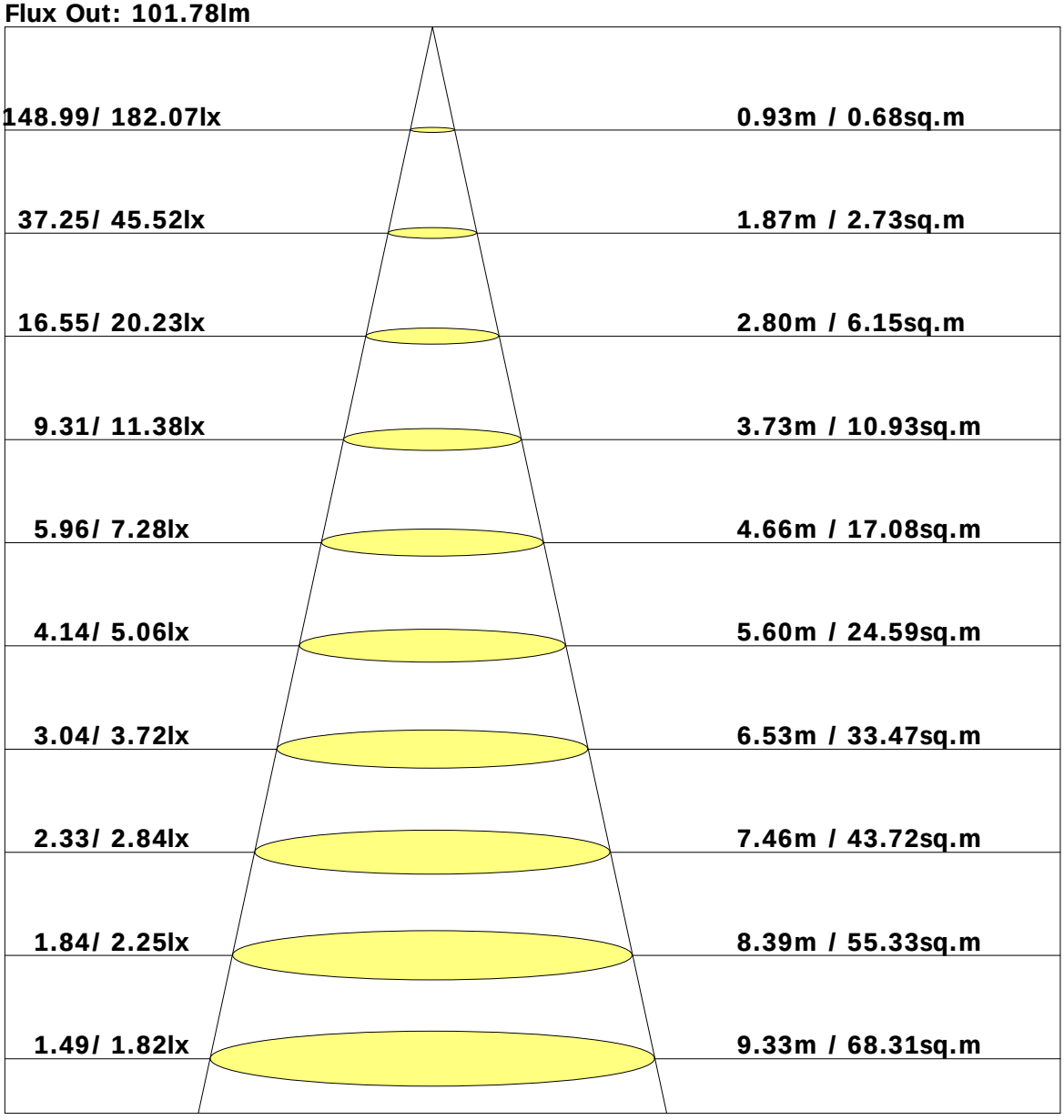
Vertical plane / Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
-80	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.0
-70	0.0	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.9	2.0	2.1	1.9	1.7	1.3	0.9	0.6	0.3	0.1	0.0	0.0	0.0
-60	0.0	0.1	0.4	0.9	1.4	1.9	2.4	2.8	3.0	3.0	3.0	2.8	2.4	2.0	1.4	0.9	0.4	0.2	0.0	0.0	0.0
-50	0.0	0.2	0.6	1.1	1.8	2.5	3.1	3.5	3.8	3.8	3.8	3.6	3.1	2.5	1.8	1.1	0.5	0.2	0.0	0.0	0.0
-40	0.0	0.2	0.7	1.4	2.1	2.9	3.6	4.2	4.4	4.5	4.2	3.7	3.0	2.2	1.3	0.6	0.2	0.0	0.0	0.0	0.0
-30	0.0	0.3	0.8	1.5	2.4	3.3	4.1	4.6	5.0	5.0	4.7	4.1	3.3	2.4	1.5	0.7	0.2	0.0	0.0	0.0	0.0
-20	0.0	0.3	0.8	1.7	2.6	3.5	4.4	5.0	5.3	5.3	5.0	4.4	3.5	2.6	1.6	0.8	0.2	0.0	0.0	0.0	0.0
-10	0.0	0.3	0.9	1.7	2.7	3.7	4.5	5.1	5.5	5.5	5.1	4.5	3.6	2.6	1.6	0.8	0.2	0.0	0.0	0.0	0.0
0	0.0	0.3	0.9	1.7	2.7	3.6	4.5	5.1	5.5	5.4	5.1	4.4	3.6	2.6	1.6	0.8	0.2	0.0	0.0	0.0	0.0
10	0.0	0.3	0.8	1.6	2.5	3.5	4.3	4.9	5.3	5.3	4.9	4.3	3.5	2.5	1.6	0.8	0.2	0.0	0.0	0.0	0.0
20	0.0	0.2	0.7	1.5	2.3	3.2	4.0	4.6	4.9	4.9	4.6	4.0	3.2	2.3	1.4	0.7	0.2	0.0	0.0	0.0	0.0
30	0.0	0.2	0.6	1.3	2.0	2.8	3.5	4.1	4.4	4.4	4.1	3.6	2.8	2.0	1.3	0.6	0.2	0.0	0.0	0.0	0.0
40	0.0	0.2	0.5	1.0	1.7	2.3	3.0	3.4	3.7	3.7	3.4	3.0	2.4	1.7	1.0	0.5	0.1	0.0	0.0	0.0	0.0
50	0.0	0.1	0.4	0.7	1.2	1.8	2.3	2.6	2.8	2.8	2.6	2.3	1.8	1.3	0.8	0.4	0.1	0.0	0.0	0.0	0.0
60	0.0	0.1	0.2	0.5	0.8	1.2	1.5	1.7	1.9	1.9	1.8	1.5	1.2	0.8	0.5	0.2	0.1	0.0	0.0	0.0	0.0
70	0.0	0.0	0.1	0.2	0.4	0.5	0.7	0.8	0.9	0.9	0.9	0.7	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	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	0.0
Flux(T)	0.3	2.9	8.9	17.7	28.2	39.0	48.6	55.8	59.7	59.8	56.0	48.9	39.2	28.2	17.5	8.4	2.5	0.2	522		
Flux(E)	0.0	2.4	8.5	17.2	27.7	38.5	48.1	55.3	59.3	59.4	55.6	48.4	38.7	27.8	17.0	8.0	1.9	0.0	1.3	7.5	15.8	24.1	31.6	37.9	42.8	46.3	48.1	48.4	47.0	43.9	39.2	33.2	25.8	17.6	9.1	2.2	514	5.8	15.3	23.9	31.5	37.8	42.8	46.2	48.1	48.3	46.9	43.8	39.2	33.0	25.7	17.3	8.1	0.1

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:

The Average Illuminance Effective Figure

Flux Out: 101.78lm



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	23.1	24.7	23.5	25.0	25.4
3H	25.0	26.5	25.4	26.8	27.2	24.7	26.1	25.1	26.5	26.9
4H	25.5	26.9	26.0	27.3	27.7	25.2	26.6	25.6	26.9	27.3
6H	25.9	27.1	26.3	27.5	27.9	25.5	26.8	25.9	27.1	27.6
8H	25.9	27.1	26.4	27.6	28.0	25.5	26.7	26.0	27.2	27.6
12H	25.9	27.1	26.4	27.5	28.0	25.5	26.7	26.0	27.1	27.6
X=4H Y=2H	24.0	25.4	24.4	25.7	26.1	23.7	25.1	24.1	25.4	25.8
3H	25.9	27.0	26.3	27.4	27.8	25.5	26.6	25.9	27.0	27.5
4H	26.5	27.5	27.0	28.0	28.4	26.1	27.1	26.5	27.6	28.0
6H	26.9	27.8	27.4	28.3	28.8	26.5	27.4	26.9	27.8	28.3
8H	27.0	27.9	27.5	28.3	28.8	26.5	27.4	27.0	27.8	28.3
12H	27.1	27.8	27.6	28.3	28.8	26.6	27.3	27.1	27.8	28.3
X=8H Y=4H	26.8	27.6	27.3	28.1	28.6	26.3	27.2	26.8	27.6	28.1
6H	27.3	28.0	27.8	28.5	29.0	26.7	27.5	27.3	28.0	28.5
8H	27.5	28.1	28.0	28.6	29.1	26.9	27.5	27.4	28.0	28.5
12H	27.5	28.1	28.0	28.6	29.2	26.9	27.5	27.4	28.0	28.6
X=12H Y=4H	26.8	27.5	27.3	28.0	28.5	26.3	27.1	26.8	27.6	28.1
6H	27.3	28.0	27.9	28.5	29.0	26.8	27.4	27.3	27.9	28.5
8H	27.5	28.1	28.0	28.6	29.2	26.9	27.5	27.4	28.0	28.6

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
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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:

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	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.48	0.59	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.43	0.53	0.61	0.67	0.76	0.82	0.86	0.93	0.97
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.47	0.58	0.65	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.42	0.53	0.60	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.90	0.92
	0.20		0.42	0.52	0.59	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.40	0.49	0.56	0.62	0.69	0.74	0.78	0.82	0.85

Rating:4W 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	0.21
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.20
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.19
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		0.80	0.67	0.57	0.50	0.41	0.34	0.29	0.23	0.19
	0.20		0.70	0.60	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	0.22	0.17	0.14

Rating:4W 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	0.17	0.19	0.19	0.20	0.21	0.21	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	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19
	0.20		0.05	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		0.05	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:4W 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	182.1	0.2	0.2	0.03	0.03
1.0-2.0	182.1	0.5	0.7	0.10	0.13
2.0-3.0	182.0	0.9	1.6	0.17	0.30
3.0-4.0	181.8	1.2	2.8	0.23	0.53
4.0-5.0	181.5	1.6	4.3	0.30	0.82
5.0-6.0	181.2	1.9	6.3	0.36	1.19
6.0-7.0	180.9	2.2	8.5	0.43	1.61
7.0-8.0	180.5	2.6	11.1	0.49	2.10
8.0-9.0	180.0	2.9	14.0	0.55	2.66
9.0-10.0	179.4	3.2	17.2	0.62	3.27
10.0-11.0	178.8	3.6	20.8	0.68	3.95
11.0-12.0	178.2	3.9	24.7	0.74	4.69
12.0-13.0	177.5	4.2	28.9	0.80	5.49
13.0-14.0	176.7	4.5	33.4	0.86	6.35
14.0-15.0	175.9	4.8	38.3	0.92	7.26
15.0-16.0	175.0	5.1	43.4	0.97	8.24
16.0-17.0	174.0	5.4	48.8	1.03	9.27
17.0-18.0	173.0	5.7	54.5	1.08	10.35
18.0-19.0	171.9	6.0	60.5	1.14	11.48
19.0-20.0	170.8	6.3	66.8	1.19	12.67
20.0-21.0	169.6	6.5	73.3	1.24	13.91
21.0-22.0	168.4	6.8	80.0	1.28	15.19
22.0-23.0	167.1	7.0	87.1	1.33	16.52
23.0-24.0	165.7	7.2	94.3	1.38	17.90
24.0-25.0	164.3	7.5	101.8	1.42	19.31
25.0-26.0	162.9	7.7	109.5	1.46	20.77
26.0-27.0	161.3	7.9	117.4	1.50	22.27
27.0-28.0	159.7	8.1	125.5	1.53	23.81
28.0-29.0	158.1	8.3	133.7	1.57	25.38
29.0-30.0	156.4	8.4	142.2	1.60	26.98
30.0-31.0	154.7	8.6	150.8	1.63	28.61
31.0-32.0	152.9	8.8	159.5	1.66	30.27
32.0-33.0	151.1	8.9	168.4	1.69	31.96
33.0-34.0	149.2	9.0	177.5	1.71	33.68
34.0-35.0	147.2	9.1	186.6	1.73	35.41
35.0-36.0	145.2	9.2	195.9	1.75	37.17

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	143.1	9.3	205.2	1.77	38.94
37.0-38.0	141.0	9.4	214.6	1.79	40.72
38.0-39.0	138.9	9.5	224.1	1.80	42.52
39.0-40.0	136.7	9.5	233.6	1.81	44.33
40.0-41.0	134.4	9.6	243.2	1.82	46.15
41.0-42.0	132.1	9.6	252.8	1.82	47.97
42.0-43.0	129.7	9.6	262.4	1.82	49.79
43.0-44.0	127.3	9.6	272.0	1.82	51.62
44.0-45.0	124.9	9.6	281.6	1.82	53.44
45.0-46.0	122.4	9.6	291.2	1.82	55.25
46.0-47.0	119.8	9.5	300.7	1.81	57.06
47.0-48.0	117.2	9.5	310.2	1.80	58.86
48.0-49.0	114.6	9.4	319.6	1.79	60.65
49.0-50.0	111.9	9.3	328.9	1.77	62.42
50.0-51.0	109.1	9.2	338.2	1.75	64.17
51.0-52.0	106.4	9.1	347.3	1.73	65.90
52.0-53.0	103.6	9.0	356.3	1.71	67.61
53.0-54.0	100.7	8.9	365.2	1.68	69.29
54.0-55.0	97.8	8.7	373.9	1.66	70.95
55.0-56.0	94.9	8.6	382.5	1.63	72.58
56.0-57.0	91.9	8.4	390.9	1.59	74.17
57.0-58.0	88.9	8.2	399.1	1.56	75.73
58.0-59.0	85.8	8.0	407.1	1.52	77.26
59.0-60.0	82.7	7.8	414.9	1.48	78.74
60.0-61.0	79.6	7.6	422.5	1.44	80.18
61.0-62.0	76.5	7.4	429.9	1.40	81.58
62.0-63.0	73.3	7.1	437.0	1.35	82.93
63.0-64.0	70.1	6.9	443.9	1.31	84.24
64.0-65.0	66.9	6.6	450.5	1.26	85.49
65.0-66.0	63.6	6.3	456.9	1.20	86.70
66.0-67.0	60.3	6.1	463.0	1.15	87.85
67.0-68.0	57.0	5.8	468.7	1.10	88.95
68.0-69.0	53.7	5.5	474.2	1.04	89.99
69.0-70.0	50.4	5.2	479.4	0.98	90.97
70.0-71.0	47.1	4.9	484.3	0.92	91.89
71.0-72.0	43.9	4.6	488.8	0.87	92.76

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	40.6	4.2	493.1	0.81	93.57
73.0-74.0	37.4	3.9	497.0	0.75	94.31
74.0-75.0	34.2	3.6	500.6	0.69	95.00
75.0-76.0	31.0	3.3	503.9	0.63	95.62
76.0-77.0	28.0	3.0	506.9	0.57	96.19
77.0-78.0	25.0	2.7	509.6	0.51	96.70
78.0-79.0	22.1	2.4	511.9	0.45	97.15
79.0-80.0	19.3	2.1	514.0	0.39	97.54
80.0-81.0	16.6	1.8	515.8	0.34	97.88
81.0-82.0	14.0	1.5	517.3	0.29	98.17
82.0-83.0	11.5	1.2	518.6	0.24	98.40
83.0-84.0	9.1	1.0	519.6	0.19	98.59
84.0-85.0	7.0	0.8	520.3	0.14	98.74
85.0-86.0	5.1	0.6	520.9	0.11	98.84
86.0-87.0	3.5	0.4	521.3	0.07	98.92
87.0-88.0	2.2	0.2	521.5	0.05	98.96
88.0-89.0	1.3	0.1	521.6	0.03	98.99
89.0-90.0	0.7	0.1	521.7	0.02	99.00
90.0-91.0	0.4	0.0	521.8	0.01	99.01
91.0-92.0	0.3	0.0	521.8	0.01	99.02
92.0-93.0	0.3	0.0	521.8	0.01	99.02
93.0-94.0	0.3	0.0	521.9	0.01	99.03
94.0-95.0	0.3	0.0	521.9	0.01	99.04
95.0-96.0	0.3	0.0	521.9	0.01	99.04
96.0-97.0	0.3	0.0	522.0	0.01	99.05
97.0-98.0	0.4	0.0	522.0	0.01	99.06
98.0-99.0	0.4	0.0	522.1	0.01	99.07
99.0-100.0	0.4	0.0	522.1	0.01	99.08
100.0-101.0	0.4	0.0	522.2	0.01	99.08
101.0-102.0	0.4	0.0	522.2	0.01	99.09
102.0-103.0	0.4	0.0	522.2	0.01	99.10
103.0-104.0	0.5	0.0	522.3	0.01	99.11
104.0-105.0	0.5	0.1	522.3	0.01	99.12
105.0-106.0	0.5	0.1	522.4	0.01	99.13
106.0-107.0	0.5	0.1	522.5	0.01	99.14
107.0-108.0	0.5	0.1	522.5	0.01	99.15

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	0.6	0.1	522.6	0.01	99.16
109.0-110.0	0.6	0.1	522.6	0.01	99.17
110.0-111.0	0.6	0.1	522.7	0.01	99.19
111.0-112.0	0.6	0.1	522.8	0.01	99.20
112.0-113.0	0.6	0.1	522.8	0.01	99.21
113.0-114.0	0.7	0.1	522.9	0.01	99.22
114.0-115.0	0.7	0.1	523.0	0.01	99.24
115.0-116.0	0.7	0.1	523.0	0.01	99.25
116.0-117.0	0.7	0.1	523.1	0.01	99.26
117.0-118.0	0.8	0.1	523.2	0.01	99.28
118.0-119.0	0.8	0.1	523.2	0.01	99.29
119.0-120.0	0.8	0.1	523.3	0.01	99.31
120.0-121.0	0.8	0.1	523.4	0.01	99.32
121.0-122.0	0.8	0.1	523.5	0.01	99.34
122.0-123.0	0.9	0.1	523.6	0.01	99.35
123.0-124.0	0.9	0.1	523.6	0.02	99.37
124.0-125.0	0.9	0.1	523.7	0.02	99.38
125.0-126.0	0.9	0.1	523.8	0.02	99.40
126.0-127.0	0.9	0.1	523.9	0.02	99.41
127.0-128.0	0.9	0.1	524.0	0.02	99.43
128.0-129.0	1.0	0.1	524.0	0.02	99.44
129.0-130.0	1.0	0.1	524.1	0.02	99.46
130.0-131.0	1.0	0.1	524.2	0.02	99.48
131.0-132.0	1.0	0.1	524.3	0.02	99.49
132.0-133.0	1.1	0.1	524.4	0.02	99.51
133.0-134.0	1.1	0.1	524.5	0.02	99.52
134.0-135.0	1.1	0.1	524.6	0.02	99.54
135.0-136.0	1.1	0.1	524.6	0.02	99.56
136.0-137.0	1.1	0.1	524.7	0.02	99.57
137.0-138.0	1.2	0.1	524.8	0.02	99.59
138.0-139.0	1.2	0.1	524.9	0.02	99.60
139.0-140.0	1.2	0.1	525.0	0.02	99.62
140.0-141.0	1.2	0.1	525.1	0.02	99.64
141.0-142.0	1.2	0.1	525.1	0.02	99.65
142.0-143.0	1.2	0.1	525.2	0.02	99.67
143.0-144.0	1.2	0.1	525.3	0.02	99.68

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	1.3	0.1	525.4	0.02	99.70
145.0-146.0	1.3	0.1	525.5	0.01	99.71
146.0-147.0	1.3	0.1	525.5	0.01	99.73
147.0-148.0	1.3	0.1	525.6	0.01	99.74
148.0-149.0	1.3	0.1	525.7	0.01	99.76
149.0-150.0	1.3	0.1	525.8	0.01	99.77
150.0-151.0	1.3	0.1	525.8	0.01	99.78
151.0-152.0	1.4	0.1	525.9	0.01	99.80
152.0-153.0	1.4	0.1	526.0	0.01	99.81
153.0-154.0	1.4	0.1	526.0	0.01	99.82
154.0-155.0	1.4	0.1	526.1	0.01	99.84
155.0-156.0	1.4	0.1	526.2	0.01	99.85
156.0-157.0	1.4	0.1	526.2	0.01	99.86
157.0-158.0	1.4	0.1	526.3	0.01	99.87
158.0-159.0	1.4	0.1	526.4	0.01	99.88
159.0-160.0	1.4	0.1	526.4	0.01	99.89
160.0-161.0	1.4	0.1	526.5	0.01	99.90
161.0-162.0	1.5	0.1	526.5	0.01	99.91
162.0-163.0	1.5	0.0	526.6	0.01	99.92
163.0-164.0	1.5	0.0	526.6	0.01	99.93
164.0-165.0	1.5	0.0	526.7	0.01	99.94
165.0-166.0	1.5	0.0	526.7	0.01	99.95
166.0-167.0	1.5	0.0	526.7	0.01	99.95
167.0-168.0	1.5	0.0	526.8	0.01	99.96
168.0-169.0	1.5	0.0	526.8	0.01	99.97
169.0-170.0	1.5	0.0	526.8	0.01	99.97
170.0-171.0	1.5	0.0	526.9	0.01	99.98
171.0-172.0	1.6	0.0	526.9	0.00	99.98
172.0-173.0	1.6	0.0	526.9	0.00	99.99
173.0-174.0	1.6	0.0	526.9	0.00	99.99
174.0-175.0	1.6	0.0	526.9	0.00	99.99
175.0-176.0	1.6	0.0	527.0	0.00	100.00
176.0-177.0	1.6	0.0	527.0	0.00	100.00
177.0-178.0	1.6	0.0	527.0	0.00	100.00
178.0-179.0	1.6	0.0	527.0	0.00	100.00
179.0-180.0	1.6	0.0	527.0	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: