

Report No.:

Test Time: 2022/3/25 10:08

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Lamp Catalog: 5050 RGBWW

Number of Lamps: 96LED/M

Luminous Width (mm): 12

Voltage: 24.0 V

Power: 2.99 W

Luminaire Description: 96LED RGBWW 5IN1

Lamp Description: GREEN

Luminous Length (mm): 500

Luminous Height (mm): 4

Current: 0.125 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 195.6 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H162.3,H117.1

Vertical Diffuse Angle(10%,50%): V161.8,V119.5

Luminaire Efficacy Rating (LER): 65

Max. Intensity: 63.67 cd

Total Rated Lamp Lumens: 195.6 lm

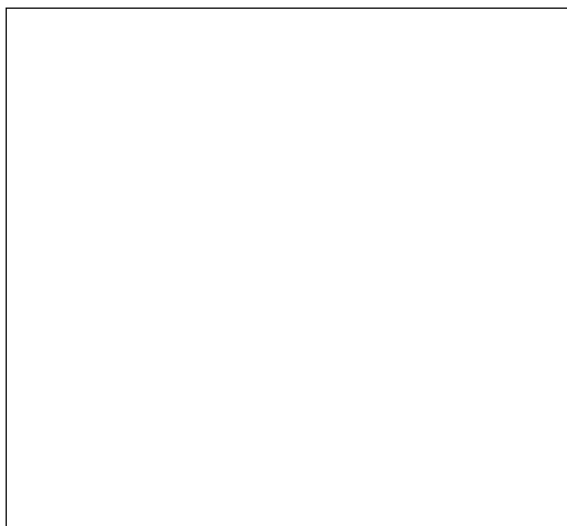
Efficiency: 100%

Upward Ratio: 1%

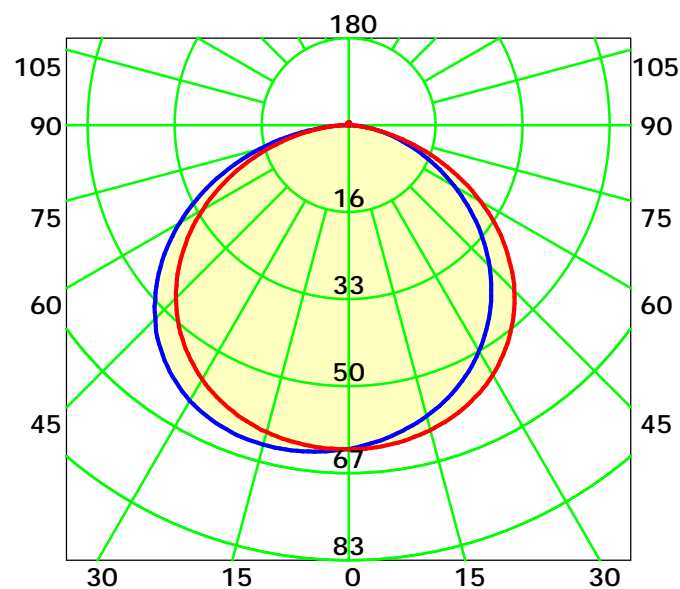
Central Intensity: 62.34 cd

Pos of Max. Intensity: H180 V13

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 118.3° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: kerr

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

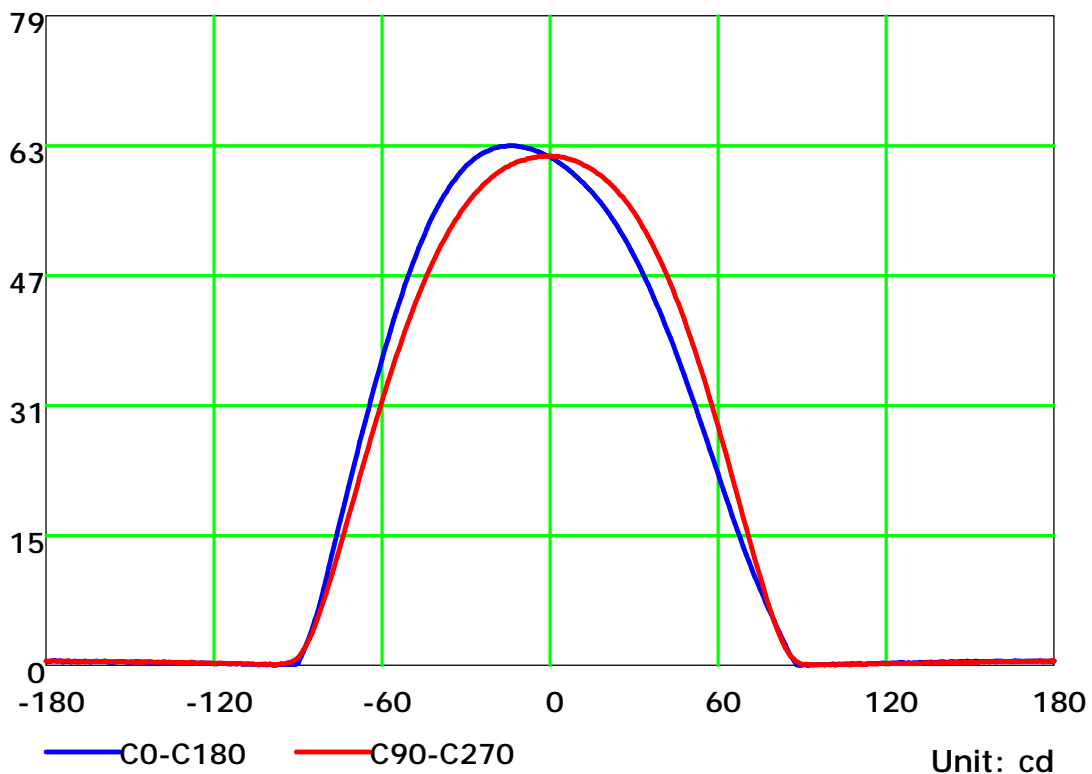
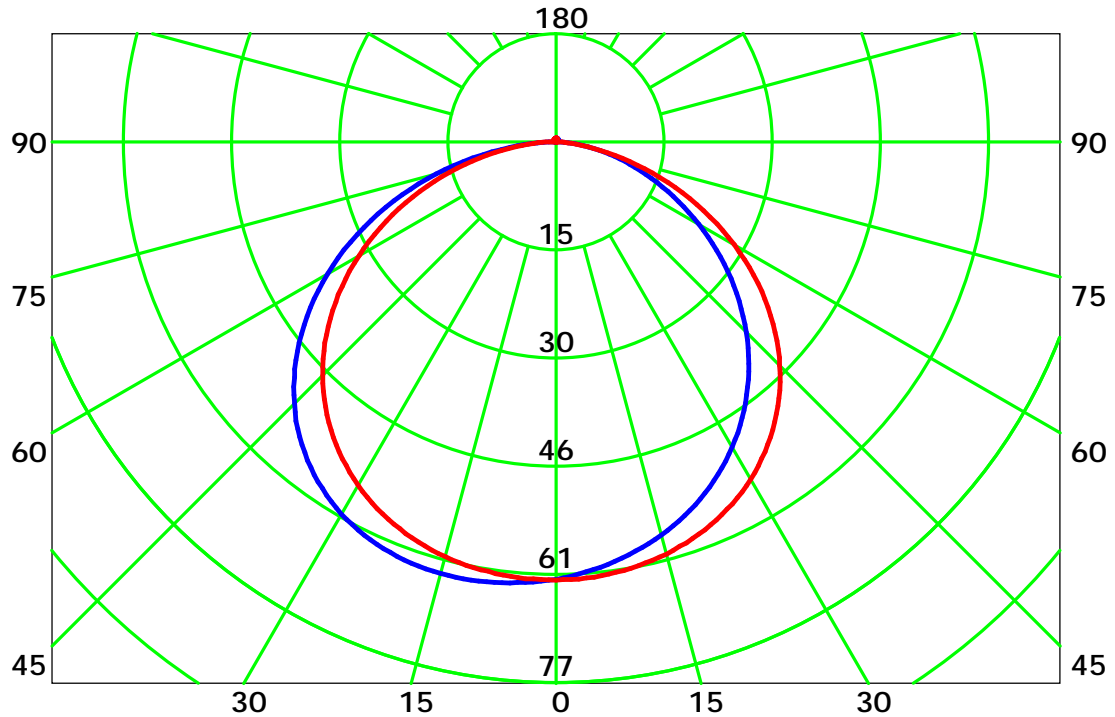
Distance: 9.028 m

Humidity: 60%

Inspector:



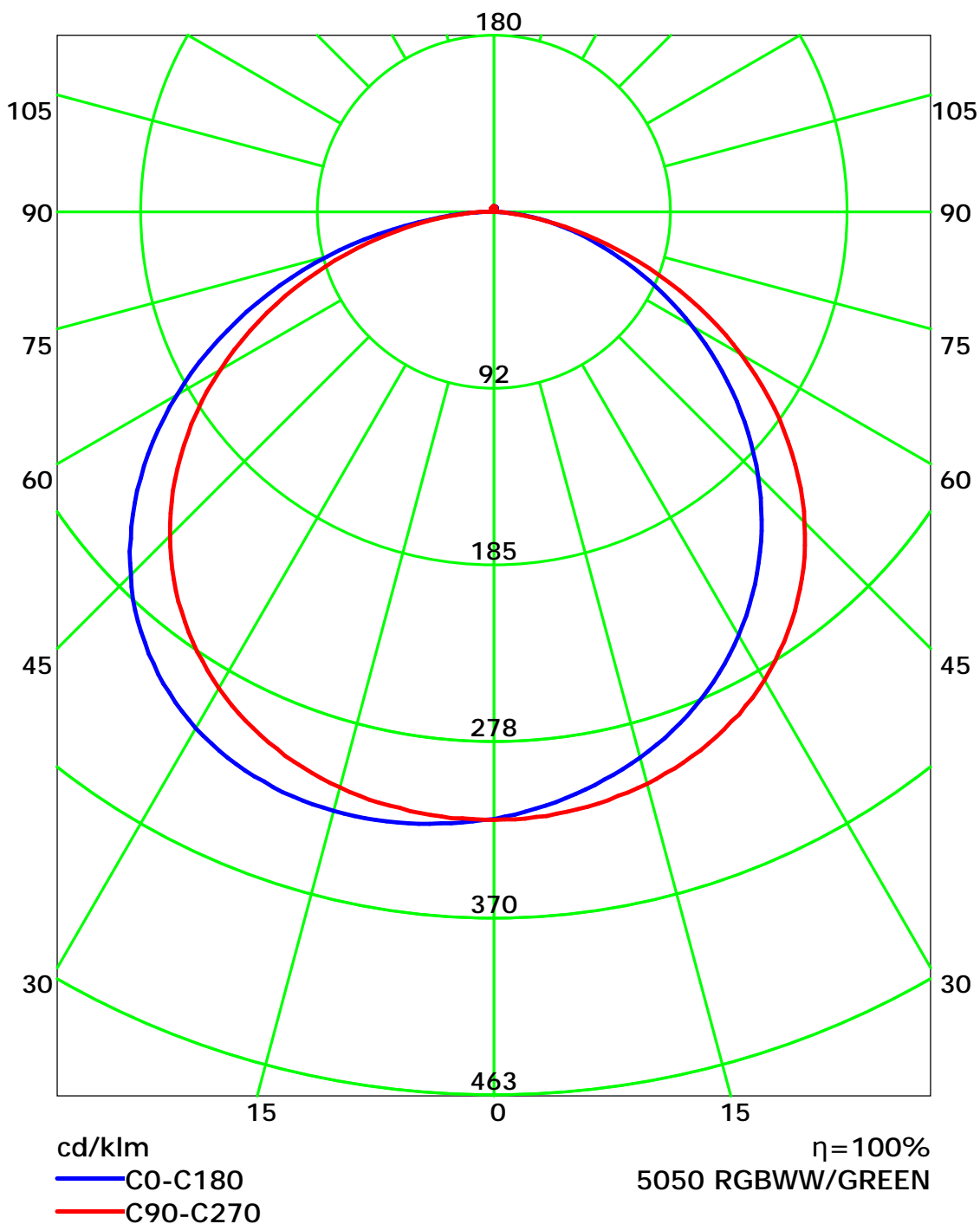
## Luminous Intensity Distribution Curve



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

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: kerr

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

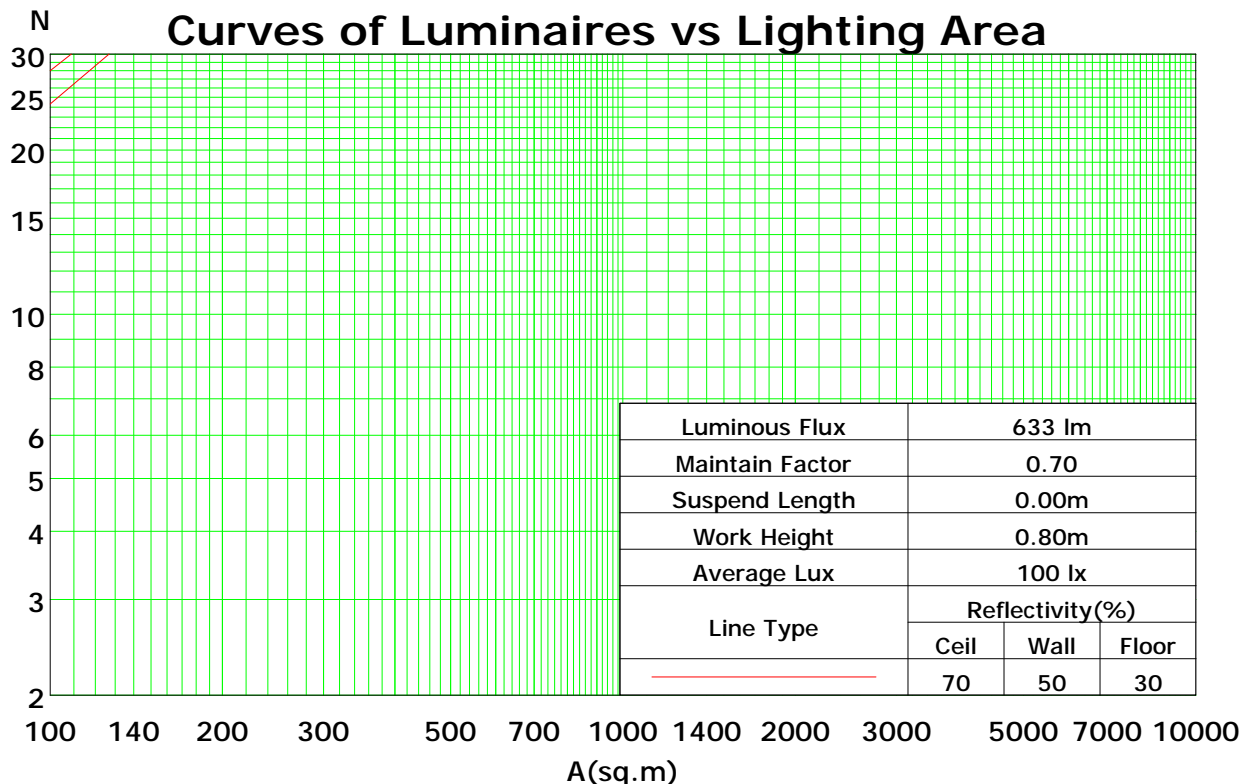
## Coefficients Of Utilization - Zonal Cavity Method

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

Spacing Criteria (0-180): 1.32

Spacing Criteria (90-270): 1.33

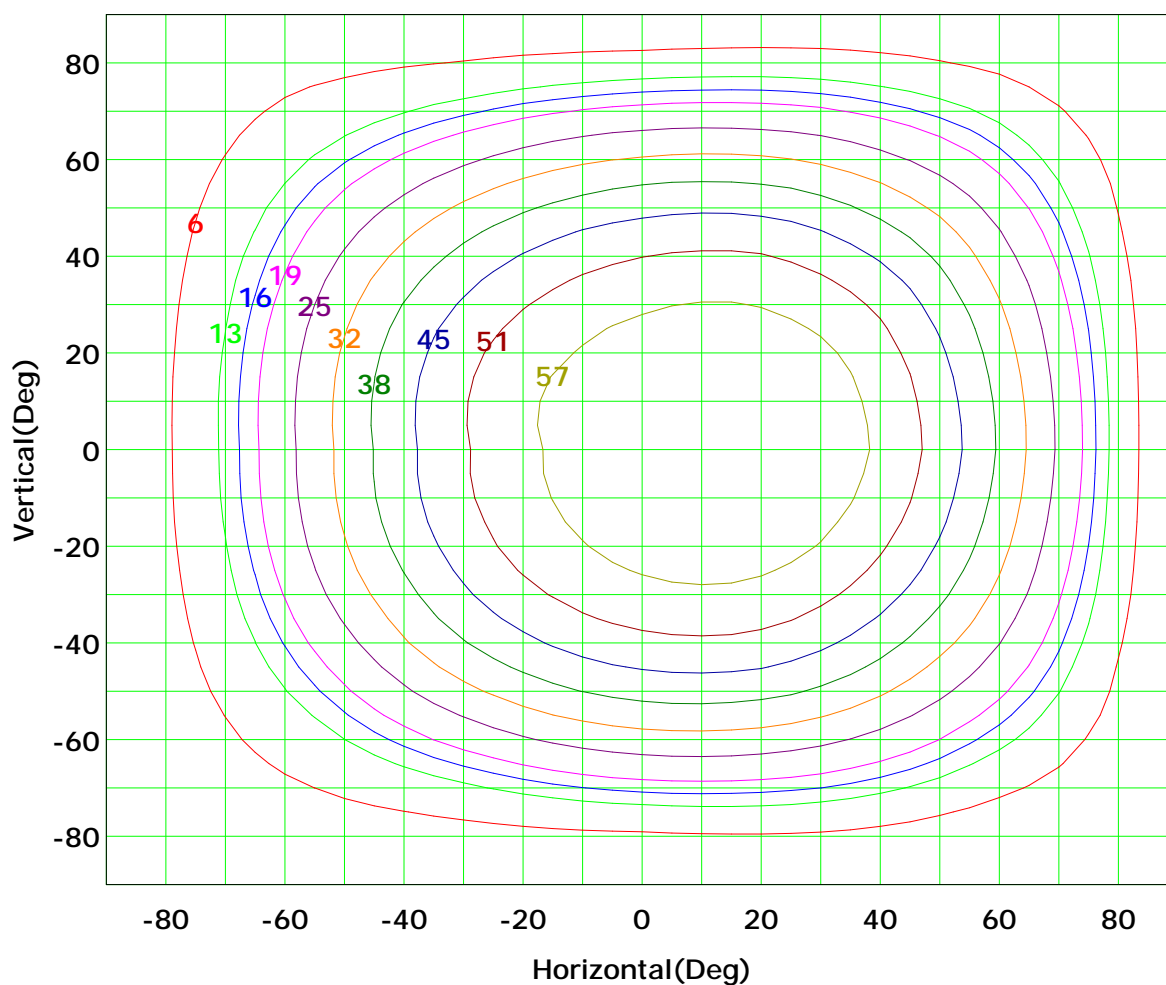
Spacing Criteria (Diagonal): 1.45



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

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

## Isocandela (rectangle)



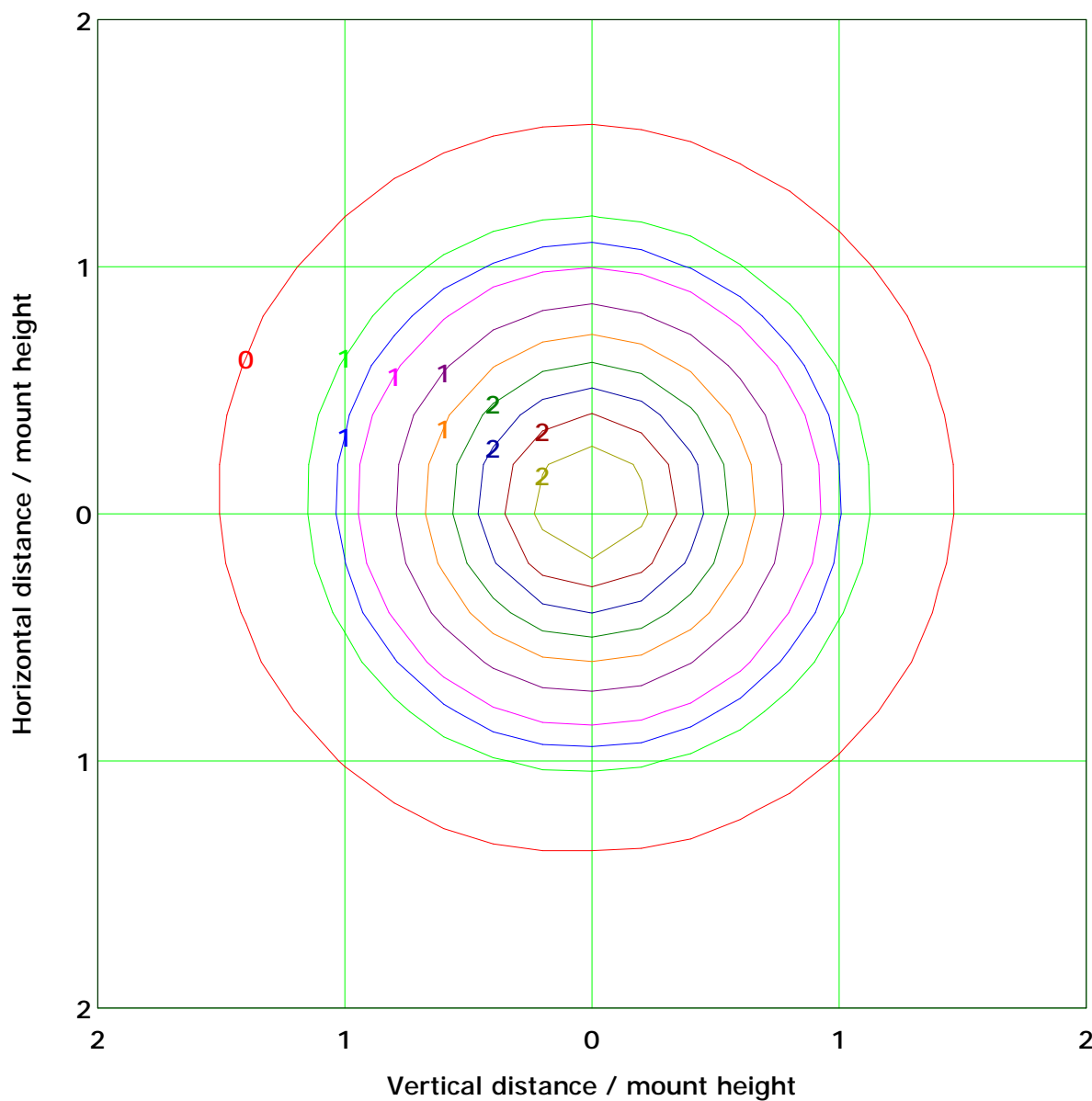
I<sub>max</sub> (100%): 64 cd

( 10%):	6 cd	( 20%):	13 cd
( 25%):	16 cd	( 30%):	19 cd
( 40%):	25 cd	( 50%):	32 cd
( 60%):	38 cd	( 70%):	45 cd
( 80%):	51 cd	( 90%):	57 cd

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

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%): 2.5 lx

( 10%): 0.3 lx	( 20%): 0.5 lx
( 25%): 0.6 lx	( 30%): 0.8 lx
( 40%): 1.0 lx	( 50%): 1.3 lx
( 60%): 1.5 lx	( 70%): 1.8 lx
( 80%): 2.0 lx	( 90%): 2.3 lx

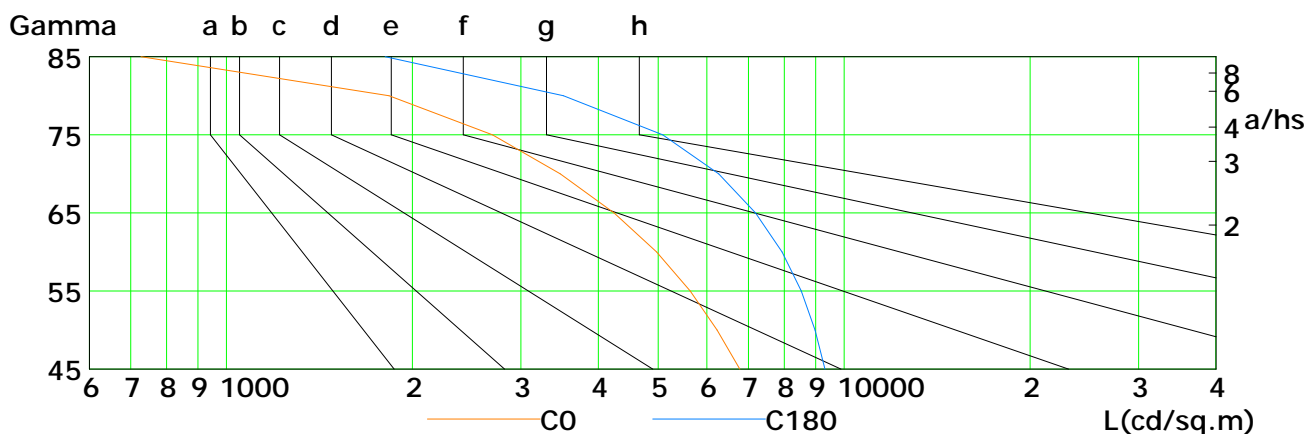
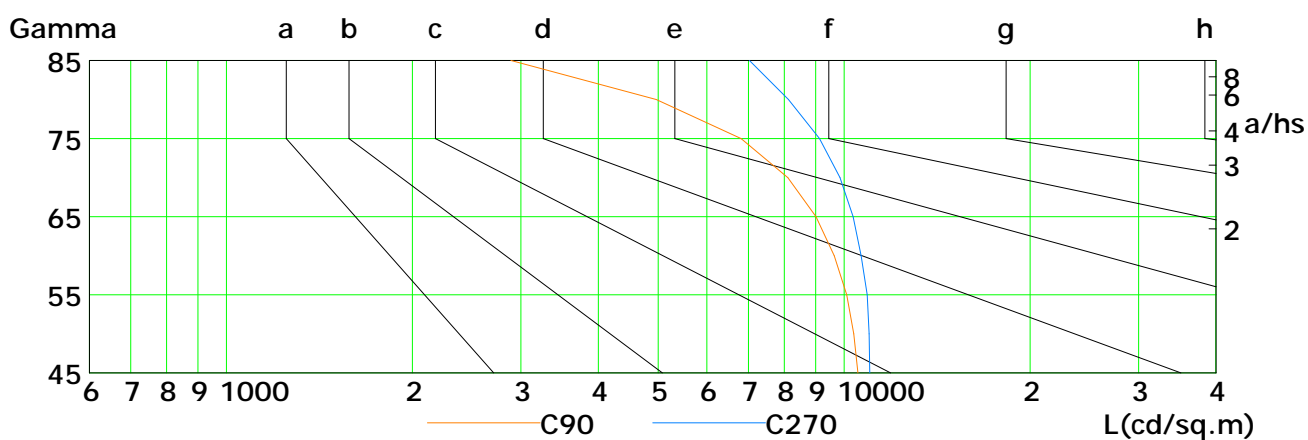
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: kerr

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



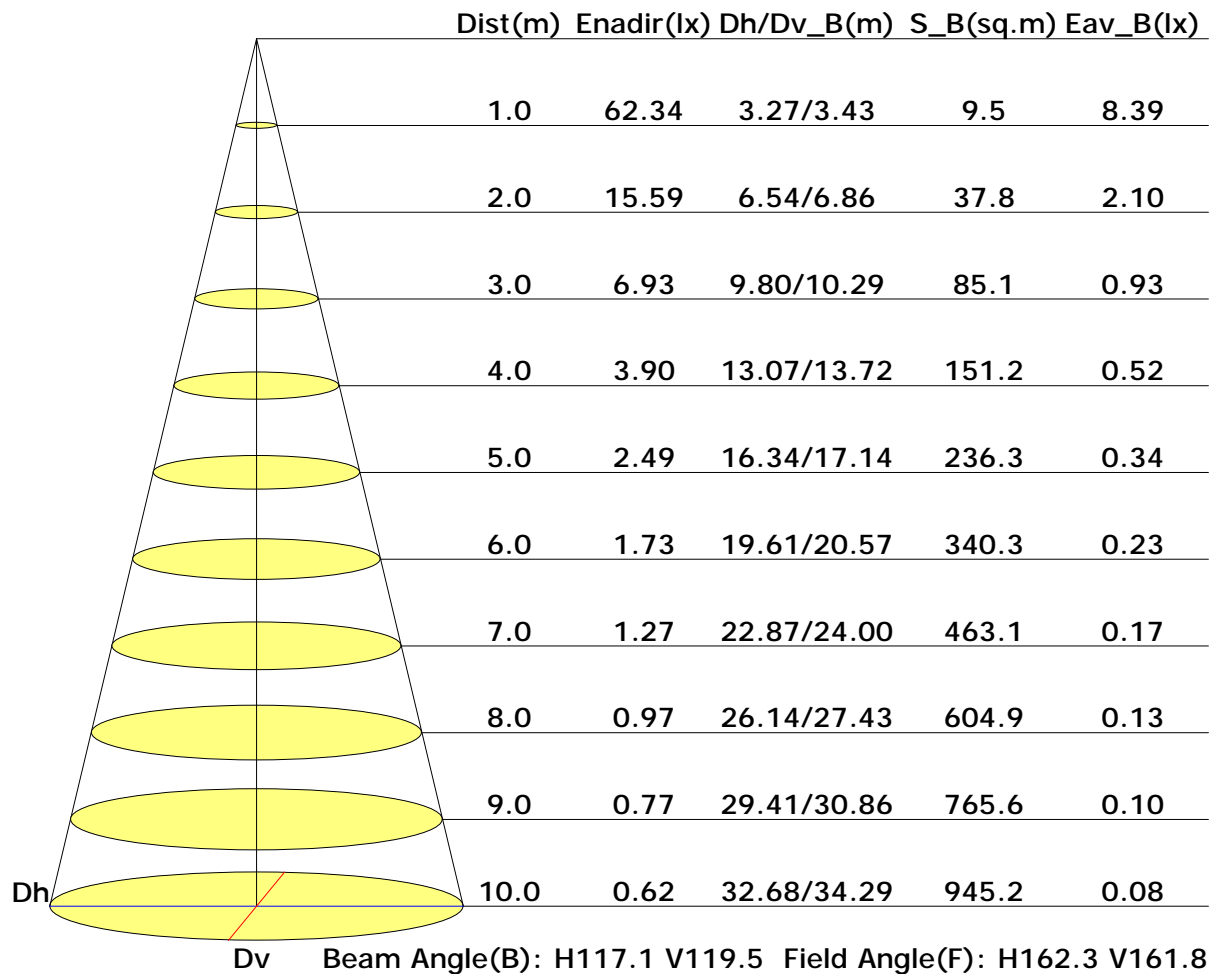
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6779	6233	5634	4970	4241	3472	2697	1833	728
C90	10532	10366	10101	9643	9011	8106	6816	4967	2891
C180	9316	8980	8530	7935	7194	6267	5088	3513	1809
C270	11002	10975	10900	10662	10348	9851	9129	8126	7026

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

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

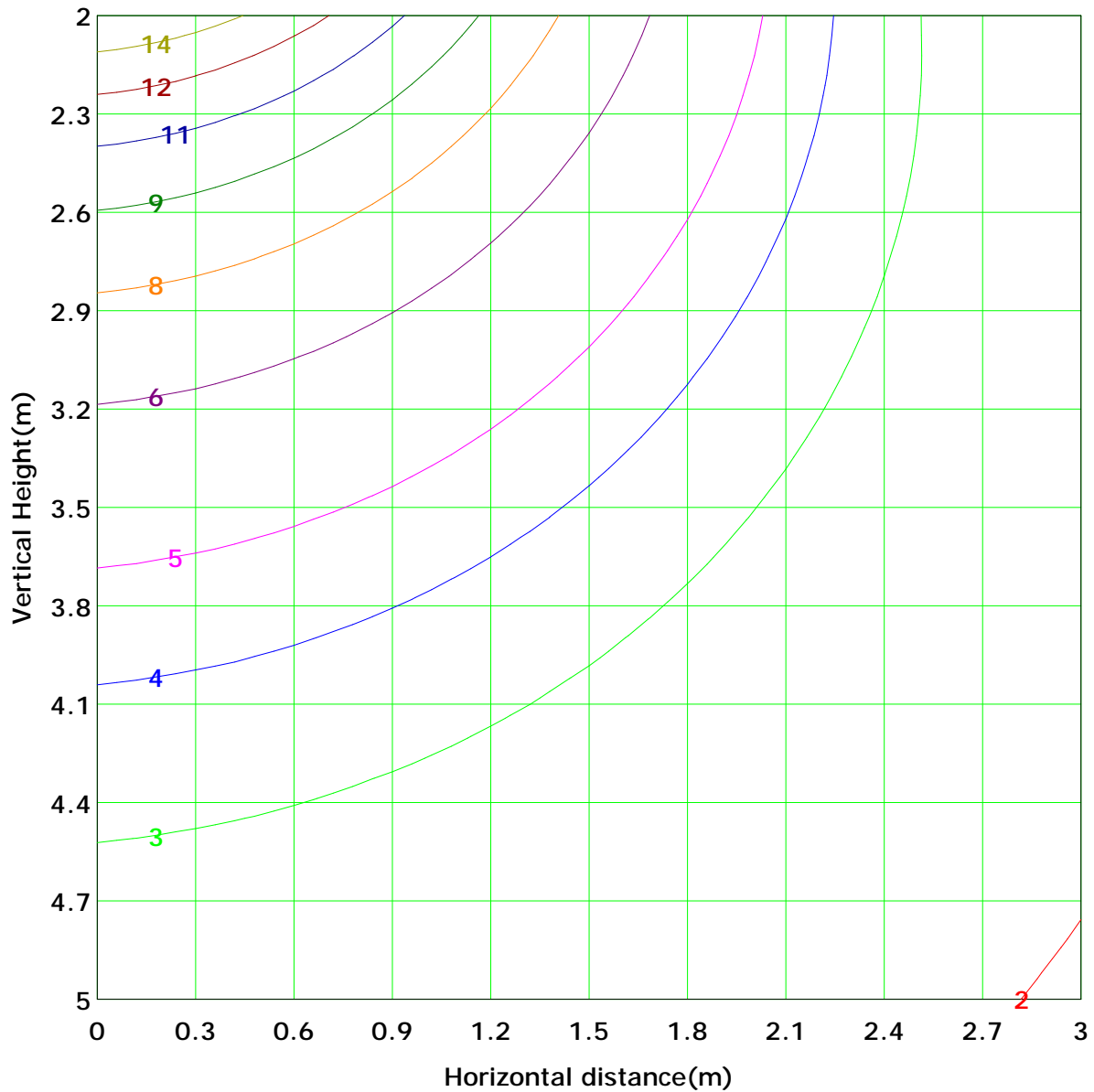


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 15.6 lx
( 10%): 1.6 lx	( 20%): 3.1 lx	
( 25%): 3.9 lx	( 30%): 4.7 lx	
( 40%): 6.2 lx	( 50%): 7.8 lx	
( 60%): 9.4 lx	( 70%): 10.9 lx	
( 80%): 12.5 lx	( 90%): 14.0 lx	

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

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

## Area Flux Table

Unit: lm

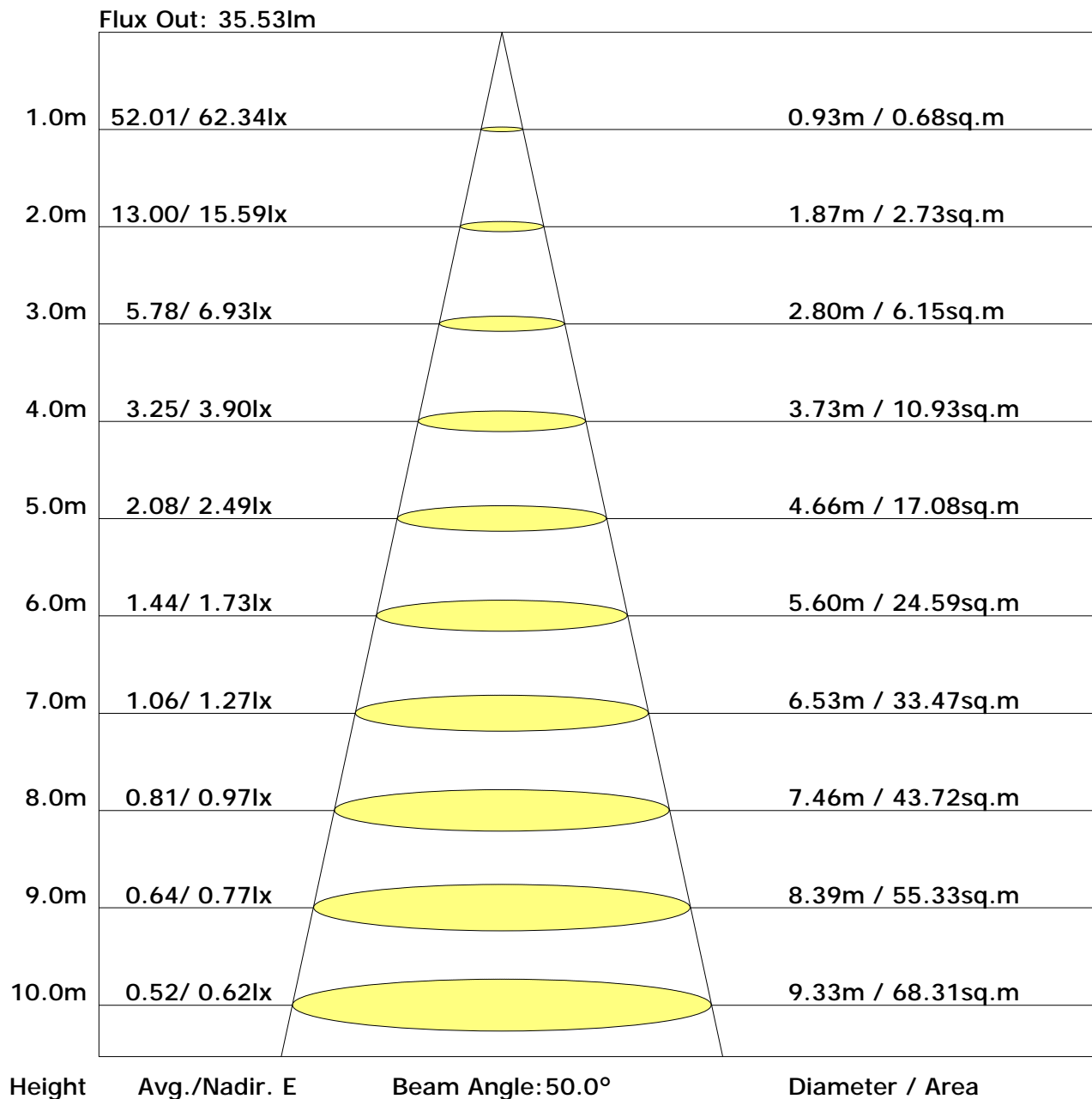
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
	-80	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.5	1.4
	-70	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	4.3	4.2
	-60	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	8.1	8.0
	-50	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.3	12.2
	-40	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	16.3	16.2
	-30	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	19.5	19.3
	-20	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	21.4	21.2
	-10	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	21.9	21.8
	0	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	21.3	21.1
	10	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	19.4	19.2
	20	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	16.5	16.3
	30	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.9	12.7
	40	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	9.1	8.9
	50	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	5.5	5.3
	60	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.6	2.4
	70	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.6
	80	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.1	0.0
	90	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	194	191
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

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

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: kerr

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	24.1	25.7	24.4	26.0	26.4	24.4	26.0	24.7	26.3	26.7
3H	25.6	27.1	26.0	27.4	27.8	25.7	27.2	26.1	27.6	27.9
4H	26.2	27.6	26.6	27.9	28.3	26.1	27.5	26.5	27.9	28.3
6H	26.6	27.9	27.0	28.3	28.7	26.3	27.6	26.7	28.0	28.4
8H	26.7	27.9	27.1	28.3	28.8	26.3	27.6	26.8	28.0	28.4
12H	26.8	27.9	27.2	28.3	28.8	26.3	27.5	26.8	27.9	28.4
X=4H Y=2H	24.6	26.0	25.0	26.3	26.7	25.0	26.4	25.4	26.7	27.1
3H	26.3	27.5	26.8	27.9	28.3	26.5	27.7	26.9	28.1	28.5
4H	27.0	28.1	27.4	28.5	29.0	27.0	28.1	27.5	28.5	29.0
6H	27.5	28.4	28.0	28.9	29.4	27.3	28.2	27.7	28.7	29.1
8H	27.7	28.5	28.1	29.0	29.5	27.3	28.2	27.8	28.6	29.1
12H	27.8	28.5	28.2	29.0	29.5	27.3	28.1	27.8	28.6	29.1
X=8H Y=4H	27.2	28.1	27.7	28.5	29.0	27.3	28.1	27.7	28.6	29.1
6H	27.8	28.5	28.3	29.0	29.5	27.6	28.3	28.1	28.8	29.3
8H	28.0	28.7	28.5	29.2	29.7	27.6	28.3	28.2	28.8	29.3
12H	28.2	28.7	28.7	29.2	29.8	27.7	28.2	28.2	28.7	29.3
X=12H Y=4H	27.2	28.0	27.7	28.5	29.0	27.3	28.1	27.8	28.6	29.0
6H	27.8	28.5	28.4	29.0	29.5	27.6	28.3	28.1	28.7	29.3
8H	28.1	28.7	28.6	29.2	29.7	27.7	28.3	28.2	28.8	29.4

Calculate in accordance with CIE 190:2010

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

 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 = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.59	0.67	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.51	0.59	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.45	0.54	0.62	0.68	0.76	0.82	0.86	0.92	0.97
0.50	0.50	0.20	0.57	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.50	0.58	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.45	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.55	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.49	0.57	0.64	0.70	0.77	0.81	0.85	0.89	0.92
	0.20		0.45	0.52	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.42	0.50	0.57	0.62	0.69	0.74	0.78	0.82	0.85
Rating: 3W 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 = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.96	0.82	0.69	0.60	0.48	0.40	0.34	0.27	0.22	
	0.30		0.80	0.70	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.69	0.61	0.53	0.48	0.40	0.34	0.29	0.24	0.20	
0.50	0.50	0.20	0.93	0.78	0.66	0.58	0.46	0.41	0.32	0.25	0.20	
	0.30		0.78	0.68	0.58	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.68	0.60	0.52	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.90	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.77	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.67	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.57	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
Rating: 3W 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 = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	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	0.16	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		0.06	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	0.18	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		0.06	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: 3W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	62.4	0.1	0.1	0.03	0.03
1.0-2.0	62.4	0.2	0.2	0.09	0.12
2.0-3.0	62.4	0.3	0.5	0.15	0.27
3.0-4.0	62.3	0.4	1.0	0.21	0.49
4.0-5.0	62.3	0.5	1.5	0.27	0.76
5.0-6.0	62.2	0.7	2.1	0.33	1.10
6.0-7.0	62.1	0.8	2.9	0.39	1.49
7.0-8.0	62.1	0.9	3.8	0.45	1.94
8.0-9.0	62.0	1.0	4.8	0.51	2.46
9.0-10.0	61.8	1.1	5.9	0.57	3.03
10.0-11.0	61.7	1.2	7.2	0.63	3.66
11.0-12.0	61.6	1.3	8.5	0.69	4.35
12.0-13.0	61.4	1.5	10.0	0.75	5.10
13.0-14.0	61.3	1.6	11.5	0.80	5.90
14.0-15.0	61.1	1.7	13.2	0.86	6.75
15.0-16.0	60.9	1.8	15.0	0.91	7.67
16.0-17.0	60.7	1.9	16.9	0.97	8.63
17.0-18.0	60.4	2.0	18.9	1.02	9.65
18.0-19.0	60.2	2.1	21.0	1.07	10.72
19.0-20.0	59.9	2.2	23.2	1.12	11.84
20.0-21.0	59.6	2.3	25.5	1.17	13.01
21.0-22.0	59.3	2.4	27.8	1.22	14.23
22.0-23.0	59.0	2.5	30.3	1.27	15.50
23.0-24.0	58.7	2.6	32.9	1.31	16.81
24.0-25.0	58.3	2.7	35.5	1.36	18.17
25.0-26.0	57.9	2.7	38.3	1.40	19.57
26.0-27.0	57.5	2.8	41.1	1.44	21.01
27.0-28.0	57.1	2.9	44.0	1.48	22.48
28.0-29.0	56.7	3.0	46.9	1.52	24.00
29.0-30.0	56.2	3.0	50.0	1.55	25.55
30.0-31.0	55.7	3.1	53.1	1.59	27.14
31.0-32.0	55.2	3.2	56.2	1.62	28.76
32.0-33.0	54.7	3.2	59.5	1.65	30.40
33.0-34.0	54.1	3.3	62.7	1.67	32.08
34.0-35.0	53.5	3.3	66.1	1.70	33.78
35.0-36.0	52.9	3.4	69.4	1.72	35.50

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

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



## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	52.3	3.4	72.8	1.75	37.25
37.0-38.0	51.7	3.4	76.3	1.76	39.01
38.0-39.0	51.0	3.5	79.8	1.78	40.79
39.0-40.0	50.3	3.5	83.3	1.79	42.58
40.0-41.0	49.6	3.5	86.8	1.80	44.39
41.0-42.0	48.8	3.5	90.4	1.81	46.20
42.0-43.0	48.0	3.6	93.9	1.82	48.02
43.0-44.0	47.2	3.6	97.5	1.82	49.85
44.0-45.0	46.4	3.6	101.0	1.82	51.67
45.0-46.0	45.6	3.6	104.6	1.82	53.49
46.0-47.0	44.7	3.6	108.2	1.82	55.31
47.0-48.0	43.8	3.5	111.7	1.81	57.12
48.0-49.0	42.9	3.5	115.2	1.80	58.92
49.0-50.0	41.9	3.5	118.7	1.79	60.71
50.0-51.0	41.0	3.5	122.2	1.77	62.48
51.0-52.0	40.0	3.4	125.6	1.75	64.23
52.0-53.0	39.0	3.4	129.0	1.73	65.97
53.0-54.0	37.9	3.3	132.4	1.71	67.68
54.0-55.0	36.9	3.3	135.6	1.68	69.36
55.0-56.0	35.8	3.2	138.9	1.66	71.02
56.0-57.0	34.7	3.2	142.1	1.62	72.64
57.0-58.0	33.6	3.1	145.2	1.59	74.23
58.0-59.0	32.5	3.0	148.2	1.55	75.79
59.0-60.0	31.4	3.0	151.2	1.52	77.30
60.0-61.0	30.2	2.9	154.1	1.48	78.78
61.0-62.0	29.1	2.8	156.9	1.43	80.21
62.0-63.0	27.9	2.7	159.6	1.39	81.60
63.0-64.0	26.7	2.6	162.2	1.34	82.94
64.0-65.0	25.6	2.5	164.7	1.29	84.23
65.0-66.0	24.4	2.4	167.2	1.24	85.48
66.0-67.0	23.1	2.3	169.5	1.19	86.67
67.0-68.0	22.0	2.2	171.7	1.14	87.80
68.0-69.0	20.8	2.1	173.8	1.08	88.89
69.0-70.0	19.6	2.0	175.8	1.03	89.92
70.0-71.0	18.4	1.9	177.7	0.97	90.89
71.0-72.0	17.2	1.8	179.5	0.92	91.80

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

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

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	16.0	1.7	181.2	0.86	92.66
73.0-74.0	14.9	1.6	182.8	0.80	93.46
74.0-75.0	13.8	1.5	184.2	0.74	94.21
75.0-76.0	12.6	1.3	185.6	0.69	94.89
76.0-77.0	11.5	1.2	186.8	0.63	95.52
77.0-78.0	10.4	1.1	187.9	0.57	96.09
78.0-79.0	9.4	1.0	188.9	0.51	96.61
79.0-80.0	8.3	0.9	189.8	0.46	97.06
80.0-81.0	7.3	0.8	190.6	0.40	97.47
81.0-82.0	6.3	0.7	191.3	0.35	97.81
82.0-83.0	5.3	0.6	191.9	0.30	98.11
83.0-84.0	4.4	0.5	192.4	0.25	98.36
84.0-85.0	3.6	0.4	192.7	0.20	98.56
85.0-86.0	2.8	0.3	193.0	0.16	98.71
86.0-87.0	2.1	0.2	193.3	0.12	98.83
87.0-88.0	1.5	0.2	193.5	0.09	98.92
88.0-89.0	1.1	0.1	193.6	0.06	98.98
89.0-90.0	0.7	0.1	193.6	0.04	99.02
90.0-91.0	0.5	0.0	193.7	0.03	99.04
91.0-92.0	0.3	0.0	193.7	0.02	99.06
92.0-93.0	0.2	0.0	193.8	0.01	99.07
93.0-94.0	0.2	0.0	193.8	0.01	99.08
94.0-95.0	0.1	0.0	193.8	0.01	99.09
95.0-96.0	0.1	0.0	193.8	0.01	99.10
96.0-97.0	0.1	0.0	193.8	0.01	99.10
97.0-98.0	0.1	0.0	193.8	0.01	99.11
98.0-99.0	0.1	0.0	193.8	0.01	99.12
99.0-100.0	0.1	0.0	193.9	0.01	99.12
100.0-101.0	0.1	0.0	193.9	0.01	99.13
101.0-102.0	0.2	0.0	193.9	0.01	99.14
102.0-103.0	0.2	0.0	193.9	0.01	99.15
103.0-104.0	0.2	0.0	193.9	0.01	99.16
104.0-105.0	0.2	0.0	193.9	0.01	99.17
105.0-106.0	0.2	0.0	194.0	0.01	99.18
106.0-107.0	0.2	0.0	194.0	0.01	99.19
107.0-108.0	0.2	0.0	194.0	0.01	99.20

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

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

## Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.2	0.0	194.0	0.01	99.21
109.0-110.0	0.2	0.0	194.0	0.01	99.22
110.0-111.0	0.2	0.0	194.1	0.01	99.23
111.0-112.0	0.2	0.0	194.1	0.01	99.24
112.0-113.0	0.2	0.0	194.1	0.01	99.26
113.0-114.0	0.2	0.0	194.1	0.01	99.27
114.0-115.0	0.3	0.0	194.2	0.01	99.28
115.0-116.0	0.3	0.0	194.2	0.01	99.29
116.0-117.0	0.3	0.0	194.2	0.01	99.31
117.0-118.0	0.3	0.0	194.2	0.01	99.32
118.0-119.0	0.3	0.0	194.3	0.01	99.33
119.0-120.0	0.3	0.0	194.3	0.01	99.35
120.0-121.0	0.3	0.0	194.3	0.01	99.36
121.0-122.0	0.3	0.0	194.3	0.01	99.38
122.0-123.0	0.3	0.0	194.4	0.01	99.39
123.0-124.0	0.3	0.0	194.4	0.01	99.40
124.0-125.0	0.3	0.0	194.4	0.02	99.42
125.0-126.0	0.3	0.0	194.5	0.02	99.43
126.0-127.0	0.3	0.0	194.5	0.02	99.45
127.0-128.0	0.3	0.0	194.5	0.01	99.46
128.0-129.0	0.3	0.0	194.5	0.01	99.48
129.0-130.0	0.3	0.0	194.6	0.02	99.49
130.0-131.0	0.3	0.0	194.6	0.01	99.51
131.0-132.0	0.3	0.0	194.6	0.01	99.52
132.0-133.0	0.4	0.0	194.7	0.02	99.54
133.0-134.0	0.4	0.0	194.7	0.02	99.55
134.0-135.0	0.4	0.0	194.7	0.02	99.57
135.0-136.0	0.4	0.0	194.8	0.02	99.59
136.0-137.0	0.4	0.0	194.8	0.02	99.60
137.0-138.0	0.4	0.0	194.8	0.01	99.62
138.0-139.0	0.4	0.0	194.8	0.02	99.63
139.0-140.0	0.4	0.0	194.9	0.02	99.65
140.0-141.0	0.4	0.0	194.9	0.01	99.66
141.0-142.0	0.4	0.0	194.9	0.01	99.68
142.0-143.0	0.4	0.0	195.0	0.01	99.69
143.0-144.0	0.4	0.0	195.0	0.01	99.71

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

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

## Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.4	0.0	195.0	0.01	99.72
145.0-146.0	0.4	0.0	195.0	0.01	99.73
146.0-147.0	0.5	0.0	195.1	0.01	99.75
147.0-148.0	0.4	0.0	195.1	0.01	99.76
148.0-149.0	0.4	0.0	195.1	0.01	99.77
149.0-150.0	0.5	0.0	195.1	0.01	99.79
150.0-151.0	0.5	0.0	195.2	0.01	99.80
151.0-152.0	0.5	0.0	195.2	0.01	99.81
152.0-153.0	0.5	0.0	195.2	0.01	99.82
153.0-154.0	0.5	0.0	195.2	0.01	99.84
154.0-155.0	0.5	0.0	195.3	0.01	99.85
155.0-156.0	0.5	0.0	195.3	0.01	99.86
156.0-157.0	0.5	0.0	195.3	0.01	99.87
157.0-158.0	0.5	0.0	195.3	0.01	99.88
158.0-159.0	0.5	0.0	195.4	0.01	99.89
159.0-160.0	0.5	0.0	195.4	0.01	99.90
160.0-161.0	0.5	0.0	195.4	0.01	99.91
161.0-162.0	0.5	0.0	195.4	0.01	99.92
162.0-163.0	0.5	0.0	195.4	0.01	99.93
163.0-164.0	0.5	0.0	195.4	0.01	99.93
164.0-165.0	0.5	0.0	195.5	0.01	99.94
165.0-166.0	0.5	0.0	195.5	0.01	99.95
166.0-167.0	0.5	0.0	195.5	0.01	99.96
167.0-168.0	0.5	0.0	195.5	0.01	99.96
168.0-169.0	0.5	0.0	195.5	0.01	99.97
169.0-170.0	0.5	0.0	195.5	0.01	99.97
170.0-171.0	0.5	0.0	195.5	0.00	99.98
171.0-172.0	0.5	0.0	195.5	0.00	99.98
172.0-173.0	0.5	0.0	195.5	0.00	99.99
173.0-174.0	0.5	0.0	195.5	0.00	99.99
174.0-175.0	0.6	0.0	195.6	0.00	99.99
175.0-176.0	0.6	0.0	195.6	0.00	100.00
176.0-177.0	0.6	0.0	195.6	0.00	100.00
177.0-178.0	0.6	0.0	195.6	0.00	100.00
178.0-179.0	0.5	0.0	195.6	0.00	100.00
179.0-180.0	0.6	0.0	195.6	0.00	100.00

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

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