

Report No.:

Test Time: 2022/3/25 11:21

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: 14.89 W

Luminaire Description: 96LED RGBWW 5IN1

Lamp Description: R+G+B+CW+WW

Luminous Length (mm): 500

Luminous Height (mm): 4

Current: 0.620 A

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 816.2 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H162.1,H113.4

Vertical Diffuse Angle(10%,50%): V161.2,V116

Luminaire Efficacy Rating (LER): 55

Max. Intensity: 276.15 cd

Total Rated Lamp Lumens: 816.2 lm

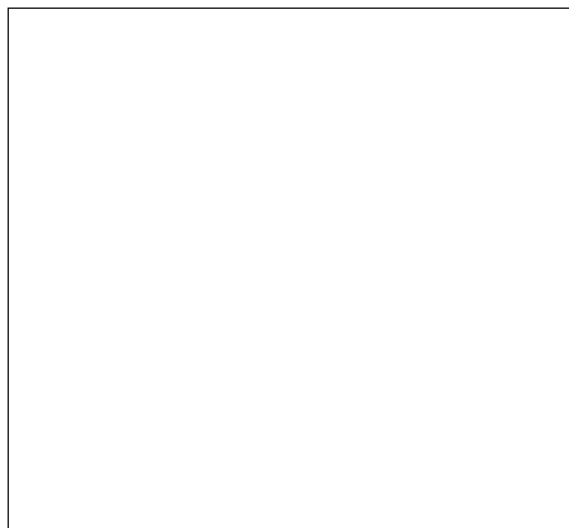
Efficiency: 100%

Upward Ratio: 1%

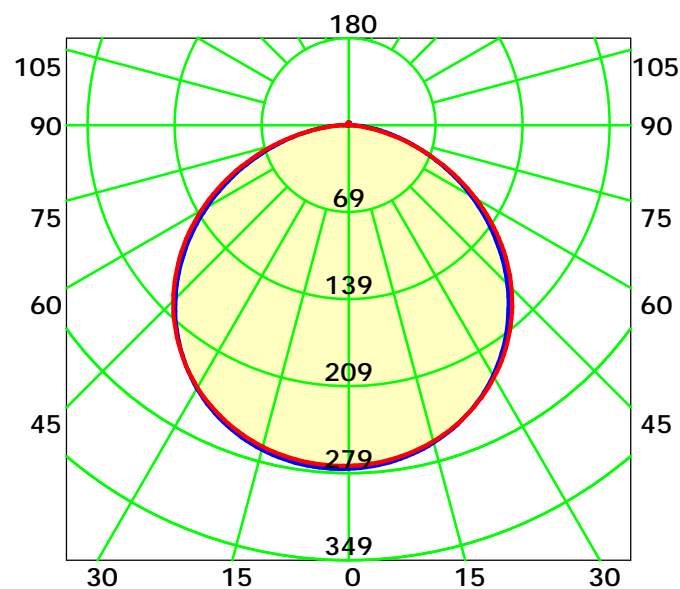
Central Intensity: 275.91 cd

Pos of Max. Intensity: H180 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 114.7° 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

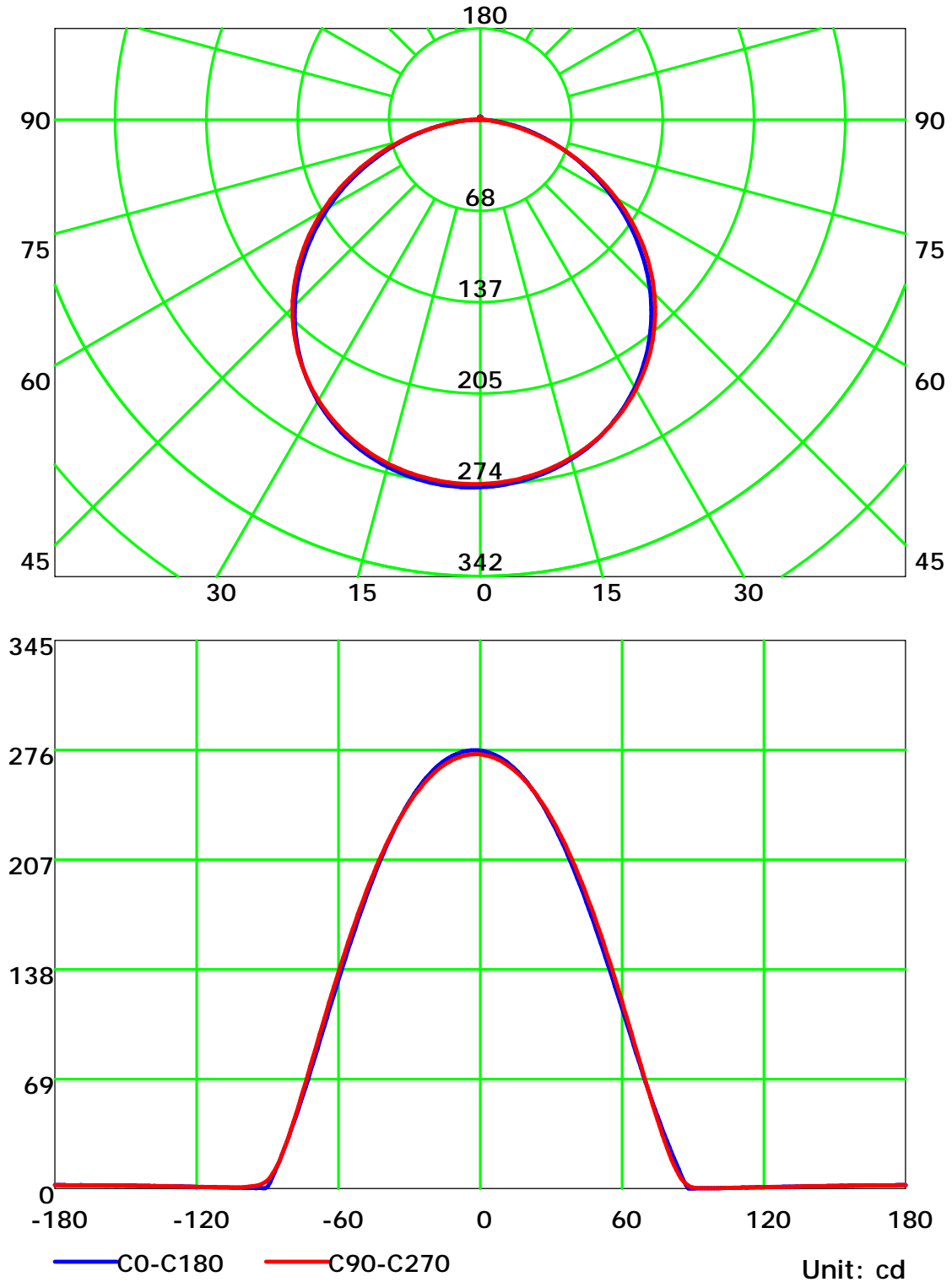
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

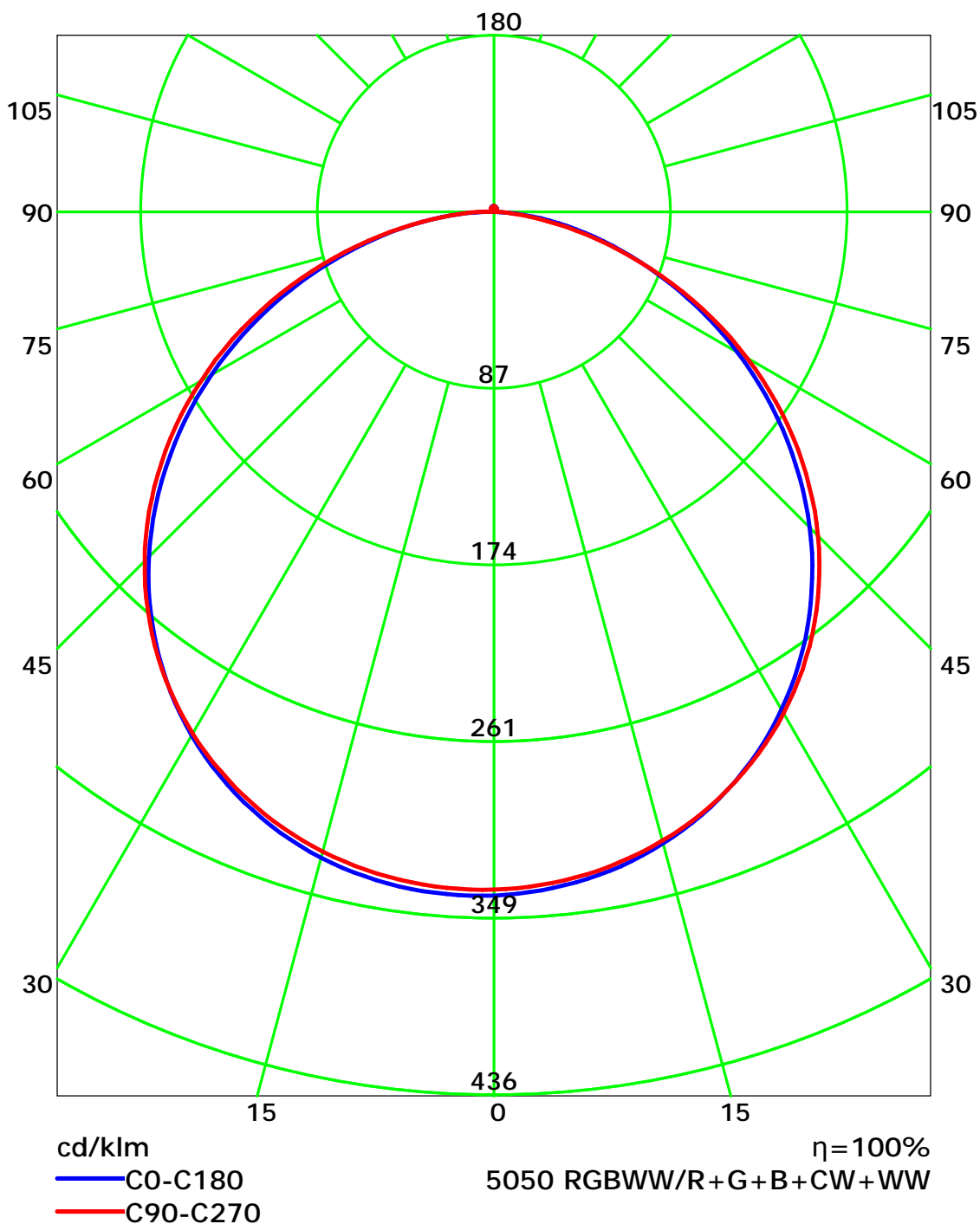
Luminous Intensity Distribution Curve



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:

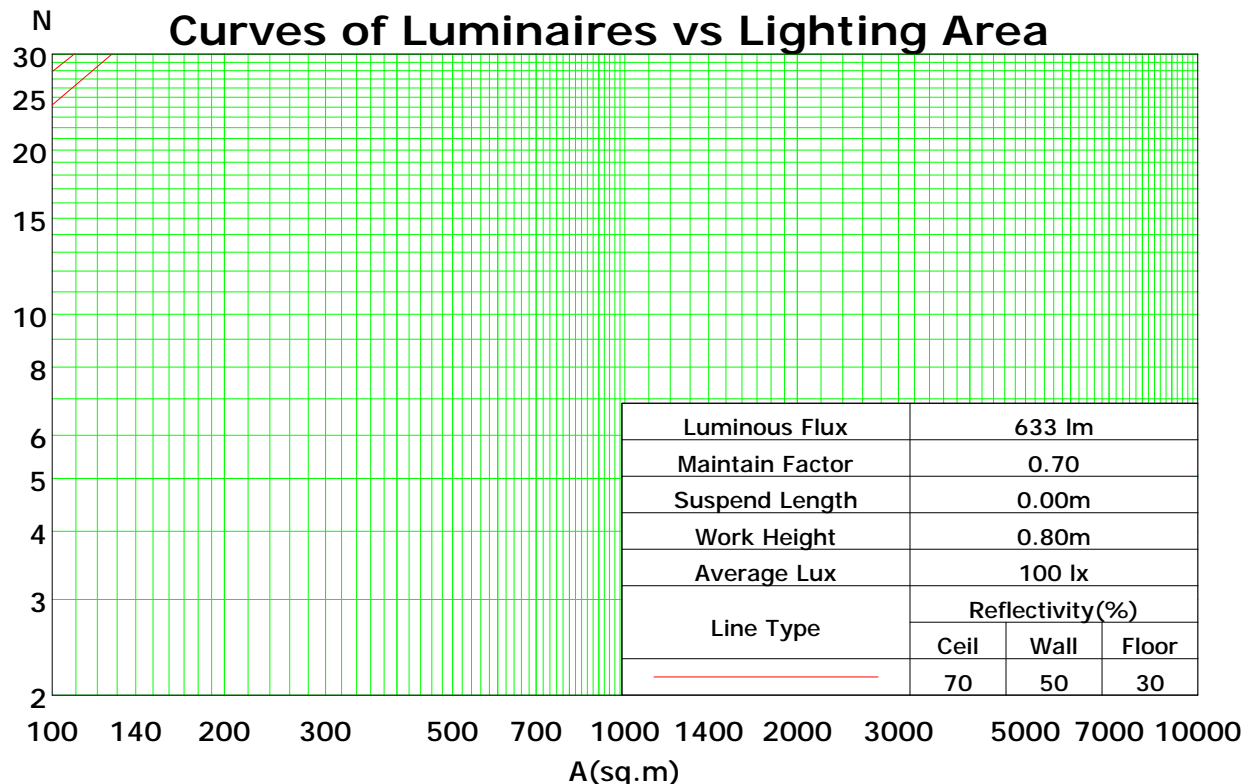
Coefficients Of Utilization - Zonal Cavity Method

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	104	99	95	106	101	97	94	97	93	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	29	55	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

Spacing Criteria (0-180): 1.28

Spacing Criteria (90-270): 1.29

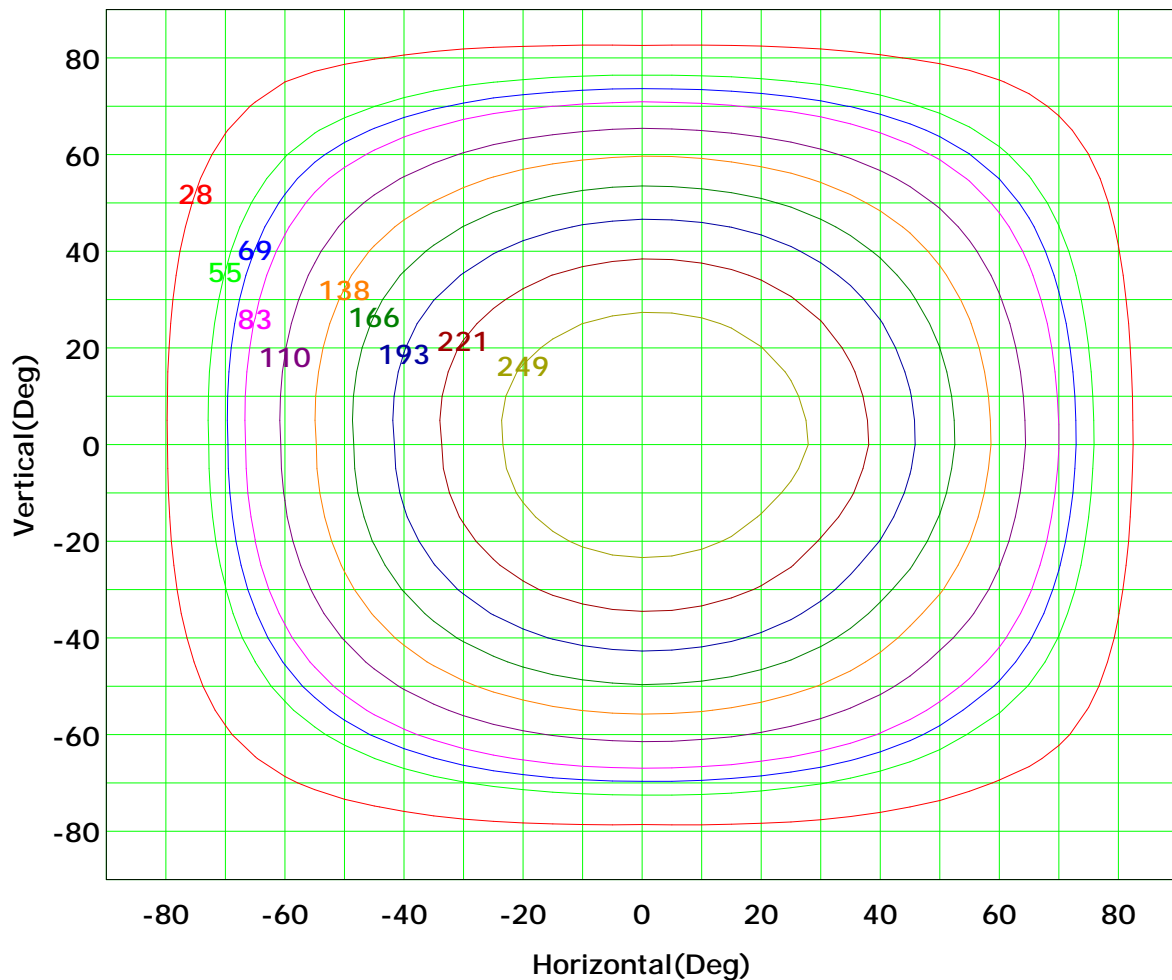
Spacing Criteria (Diagonal): 1.40



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)



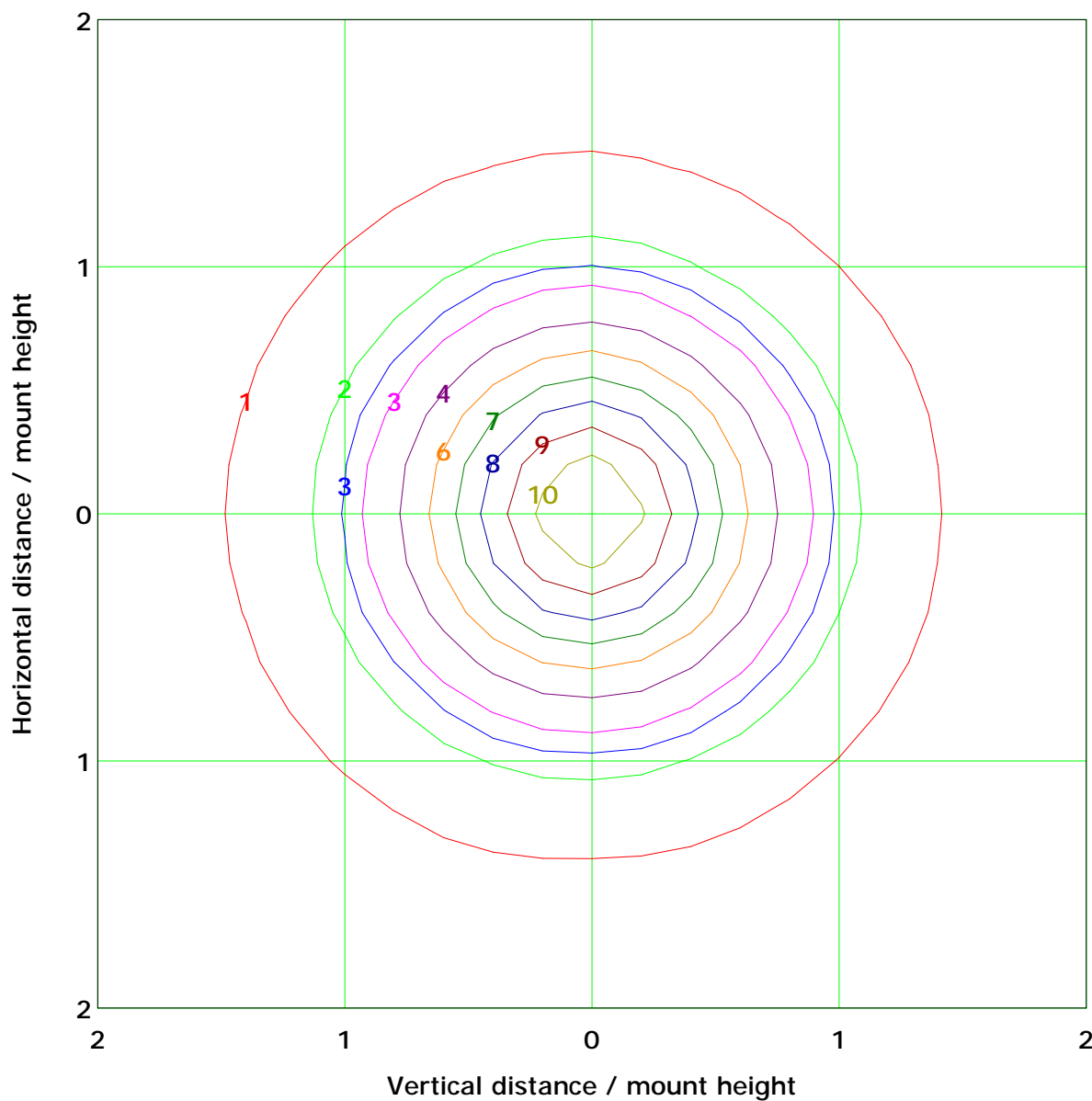
I_{max} (100%): 276 cd

(10%): 28 cd	(20%): 55 cd
(25%): 69 cd	(30%): 83 cd
(40%): 110 cd	(50%): 138 cd
(60%): 166 cd	(70%): 193 cd
(80%): 221 cd	(90%): 249 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%): 11.0 lx	
(10%):	1.1 lx	(20%):	2.2 lx
(25%):	2.8 lx	(30%):	3.3 lx
(40%):	4.4 lx	(50%):	5.5 lx
(60%):	6.6 lx	(70%):	7.7 lx
(80%):	8.8 lx	(90%):	9.9 lx

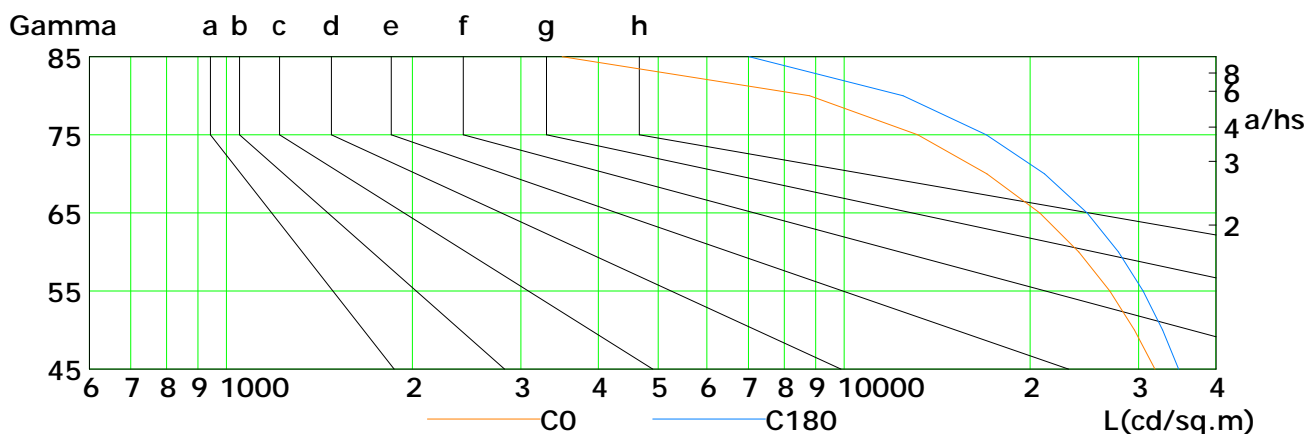
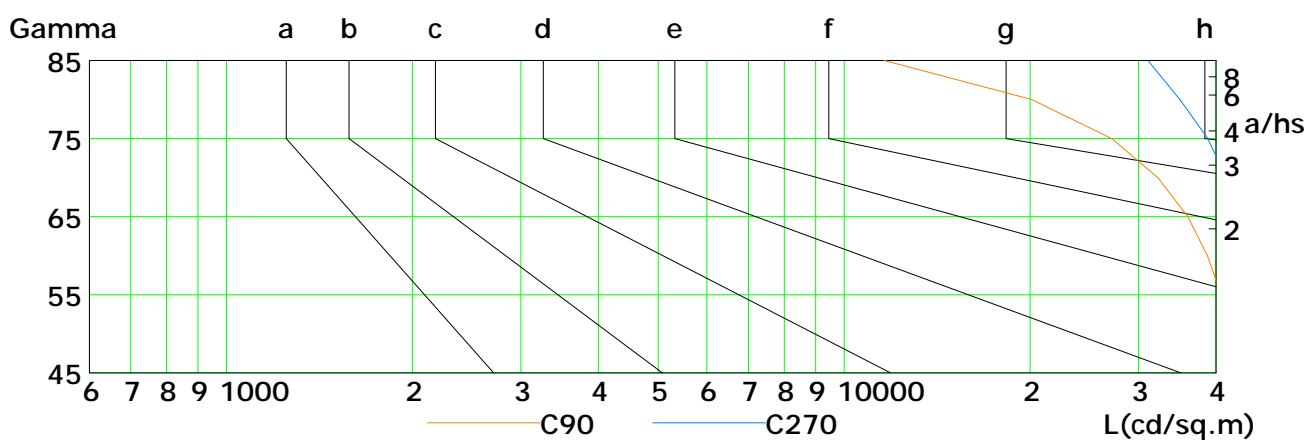
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: kerr

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

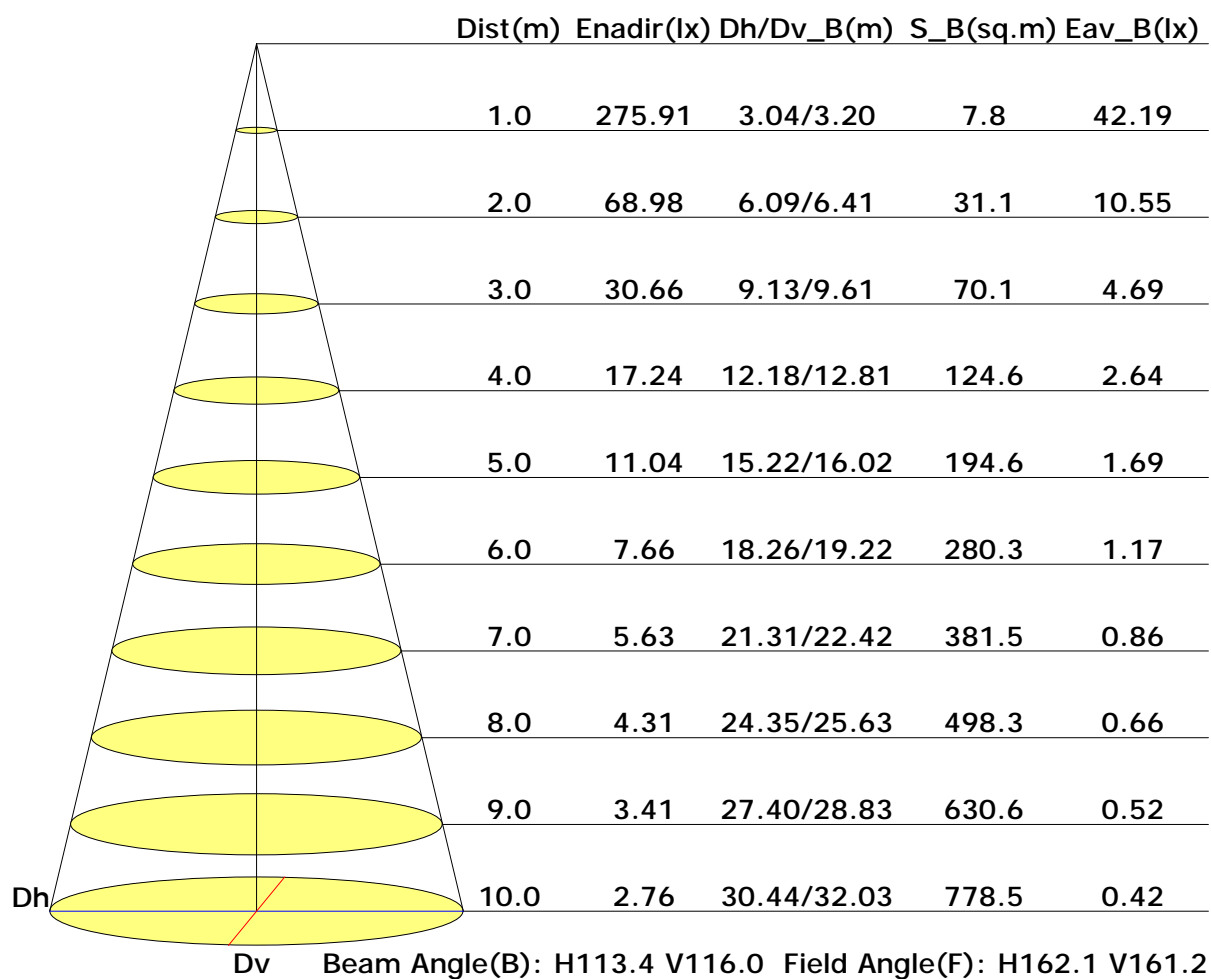


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	31855	29507	26932	23985	20732	17032	13160	8793	3499
C90	43242	42227	40795	38776	36042	32204	27118	20126	11616
C180	34811	32811	30494	27825	24750	21122	16997	12456	7017
C270	46612	46321	45806	44895	43579	41579	38780	34963	31047

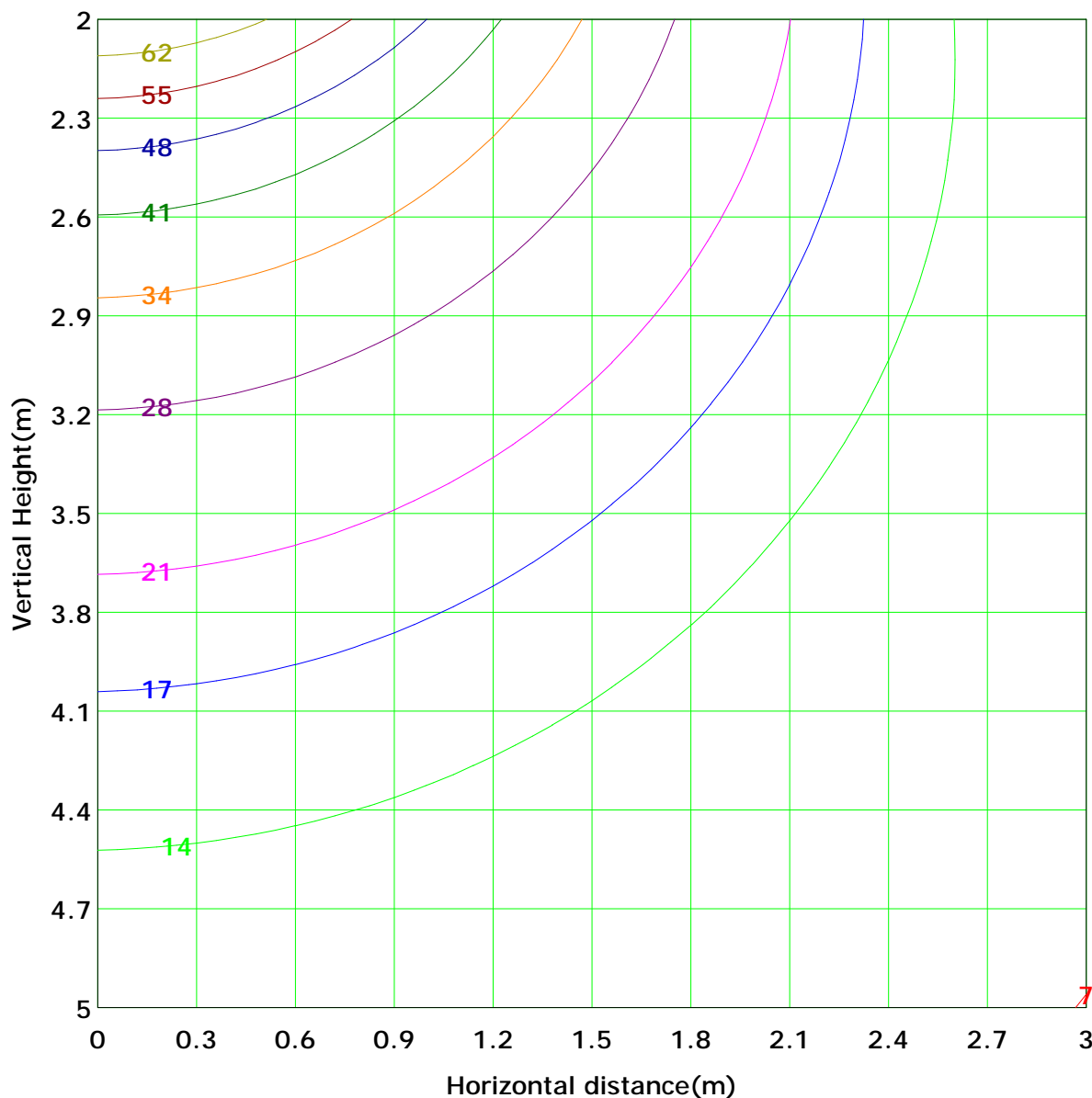
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: kerr

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: 69.0 lx
(10%): 6.9 lx	(20%): 13.8 lx	
(25%): 17.2 lx	(30%): 20.7 lx	
(40%): 27.6 lx	(50%): 34.5 lx	
(60%): 41.4 lx	(70%): 48.3 lx	
(80%): 55.2 lx	(90%): 62.1 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

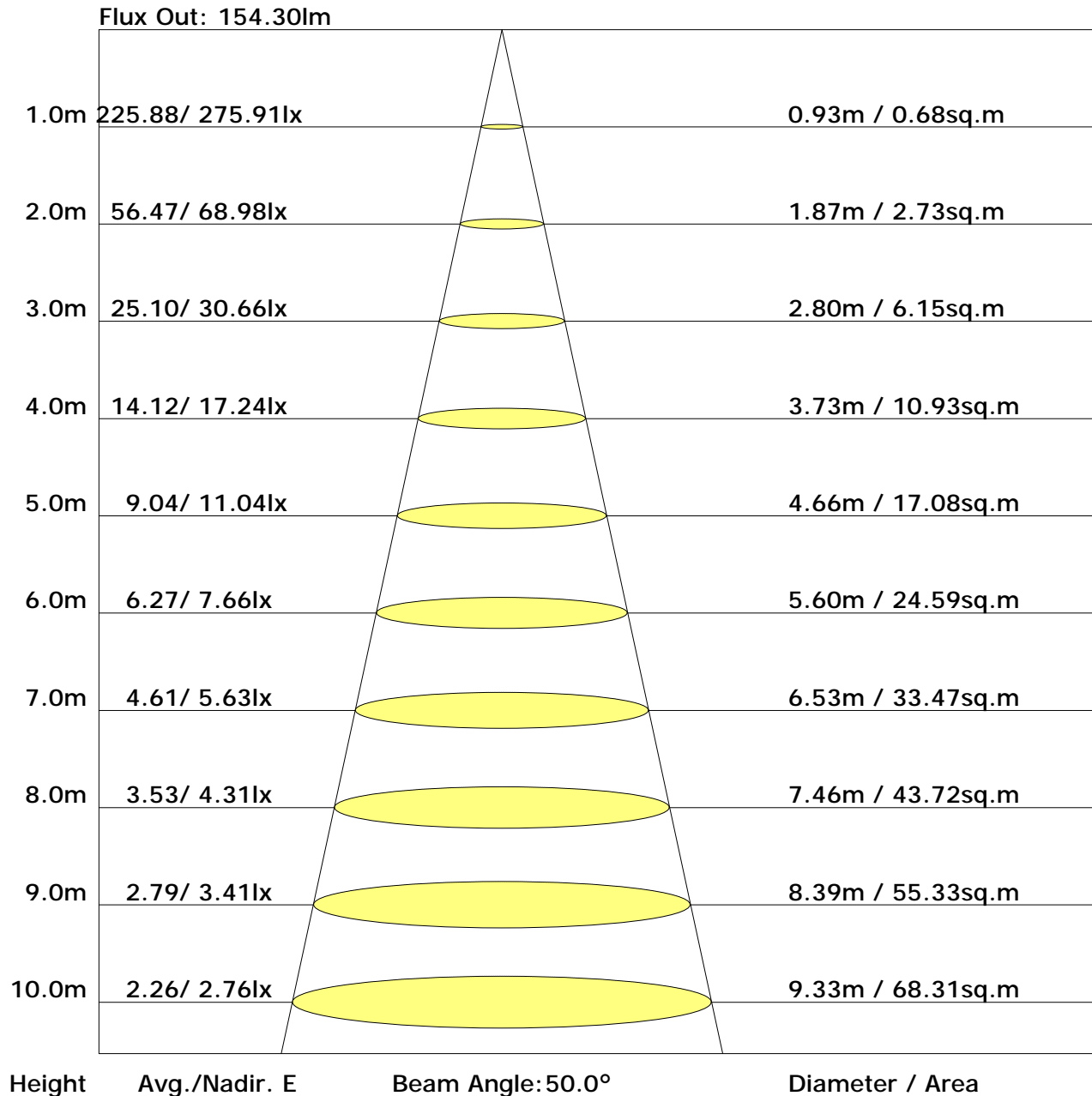
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.4	795
	-80	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.8	1.9	1.9	1.7	1.5	1.2	0.9	0.6	0.3	0.1	0.0	0.0	808	
	-70	0.0	0.2	0.5	1.0	1.6	2.2	2.7	3.2	3.4	3.4	3.1	2.7	2.1	1.5	0.9	0.5	0.1	0.0	0.0		
	-60	0.0	0.3	0.7	1.4	2.3	3.1	3.9	4.5	4.8	4.8	4.4	3.8	3.0	2.2	1.3	0.7	0.2	0.0	0.0		
	-50	0.0	0.3	0.9	1.8	2.9	4.0	5.0	5.7	6.0	6.0	5.6	4.8	3.9	2.8	1.7	0.8	0.3	0.0	0.0		
	-40	0.1	0.4	1.1	2.2	3.4	4.7	5.8	6.6	7.0	6.9	6.5	5.6	4.5	3.3	2.0	1.0	0.3	0.0	0.0		
	-30	0.1	0.4	1.3	2.4	3.8	5.2	6.4	7.2	7.6	7.6	7.1	6.2	5.0	3.6	2.2	1.1	0.4	0.0	0.0		
	-20	0.1	0.5	1.3	2.6	4.1	5.6	6.8	7.7	8.1	8.0	7.6	6.6	5.3	3.8	2.4	1.2	0.4	0.0	0.0		
	-10	0.1	0.5	1.4	2.7	4.2	5.7	7.0	7.9	8.3	8.2	7.7	6.8	5.4	3.9	2.4	1.2	0.4	0.0	0.0		
	0	0.1	0.5	1.4	2.7	4.2	5.7	6.9	7.8	8.2	8.2	7.7	6.7	5.4	3.9	2.4	1.2	0.4	0.0	0.0		
	10	0.1	0.5	1.3	2.5	4.0	5.4	6.6	7.5	7.9	7.9	7.4	6.5	5.2	3.7	2.3	1.1	0.4	0.0	0.0		
	20	0.1	0.4	1.2	2.3	3.6	4.9	6.1	7.0	7.4	7.4	6.9	6.0	4.8	3.4	2.1	1.0	0.3	0.0	0.0		
	30	0.0	0.4	1.0	2.0	3.1	4.3	5.4	6.2	6.6	6.6	6.2	5.3	4.2	3.0	1.8	0.9	0.3	0.0	0.0		
	40	0.0	0.3	0.8	1.6	2.6	3.6	4.5	5.2	5.6	5.5	5.2	4.4	3.5	2.5	1.5	0.7	0.2	0.0	0.0		
	50	0.0	0.2	0.6	1.2	1.9	2.7	3.4	4.0	4.3	4.3	3.9	3.4	2.6	1.8	1.1	0.5	0.2	0.0	0.0		
	60	0.0	0.1	0.4	0.8	1.2	1.8	2.2	2.6	2.8	2.8	2.6	2.2	1.7	1.2	0.7	0.4	0.1	0.0	0.0		
	70	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.2	1.3	1.3	1.2	1.1	0.8	0.6	0.4	0.2	0.0	0.0	0.0		
	80	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0		
	90	0.7	5.2	14.7	28.4	44.8	61.5	76.2	86.7	92.0	91.7	85.7	74.5	59.4	42.5	26.2	12.8	4.1	0.4	0.4		
	Flux(E)	0.2	4.5	14.0	27.8	44.2	60.8	75.5	86.0	91.3	91.0	84.9	73.8	58.7	41.8	25.5	12.1	3.2	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	25.0	26.6	25.3	26.9	27.3	24.1	25.7	24.5	26.1	26.4
3H	26.6	28.1	27.0	28.4	28.8	25.5	26.9	25.9	27.3	27.7
4H	27.2	28.6	27.6	28.9	29.3	25.8	27.2	26.3	27.6	28.0
6H	27.6	28.9	28.0	29.3	29.7	26.0	27.3	26.5	27.7	28.1
8H	27.7	28.9	28.2	29.3	29.8	26.0	27.3	26.5	27.7	28.1
12H	27.8	28.9	28.2	29.3	29.8	26.0	27.2	26.5	27.6	28.1
X=4H Y=2H	25.5	26.8	25.9	27.2	27.6	24.7	26.1	25.1	26.4	26.8
3H	27.3	28.5	27.7	28.9	29.3	26.2	27.4	26.6	27.8	28.2
4H	28.0	29.1	28.5	29.5	29.9	26.7	27.7	27.1	28.2	28.6
6H	28.5	29.4	29.0	29.9	30.4	27.0	27.9	27.4	28.3	28.8
8H	28.7	29.5	29.2	30.0	30.5	27.0	27.9	27.5	28.3	28.8
12H	28.8	29.5	29.3	30.0	30.5	27.0	27.8	27.5	28.3	28.8
X=8H Y=4H	28.2	29.1	28.7	29.5	30.0	26.9	27.8	27.4	28.3	28.7
6H	28.8	29.5	29.3	30.0	30.5	27.2	28.0	27.8	28.5	29.0
8H	29.0	29.7	29.6	30.2	30.7	27.3	28.0	27.8	28.5	29.0
12H	29.2	29.7	29.7	30.2	30.8	27.3	27.9	27.9	28.4	29.0
X=12H Y=4H	28.2	29.0	28.7	29.5	30.0	27.0	27.7	27.4	28.2	28.7
6H	28.8	29.5	29.4	30.0	30.5	27.3	27.9	27.8	28.4	29.0
8H	29.1	29.7	29.6	30.2	30.7	27.4	27.9	27.9	28.4	29.0

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 = 1.25								
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	0.66	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	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	0.98
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	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	0.68	0.76	0.81	0.84	0.89	0.92
	0.20		0.41	0.51	0.59	0.64	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85
Rating: 15W 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 = 1.25								
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	1.01	0.83	0.71	0.62	0.49	0.41	0.35	0.27	0.22
	0.30		0.84	0.71	0.62	0.55	0.45	0.37	0.32	0.25	0.21
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.42	0.33	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.24	0.20
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.19
0.30	0.50	0.20	0.94	0.77	0.65	0.56	0.45	0.37	0.32	0.24	0.20
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.28	0.22	0.19
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14
Rating: 15W 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 = 1.25									
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	0.22	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	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	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	0.11	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: 15W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	274.3	0.3	0.3	0.03	0.03
1.0-2.0	274.2	0.8	1.0	0.10	0.13
2.0-3.0	274.0	1.3	2.4	0.16	0.29
3.0-4.0	273.8	1.8	4.2	0.22	0.51
4.0-5.0	273.5	2.4	6.5	0.29	0.80
5.0-6.0	273.1	2.9	9.4	0.35	1.15
6.0-7.0	272.7	3.4	12.8	0.41	1.57
7.0-8.0	272.2	3.9	16.7	0.48	2.05
8.0-9.0	271.5	4.4	21.1	0.54	2.58
9.0-10.0	270.8	4.9	26.0	0.60	3.19
10.0-11.0	270.1	5.4	31.4	0.66	3.85
11.0-12.0	269.2	5.9	37.3	0.72	4.57
12.0-13.0	268.3	6.4	43.7	0.78	5.35
13.0-14.0	267.3	6.8	50.5	0.84	6.19
14.0-15.0	266.2	7.3	57.8	0.90	7.08
15.0-16.0	265.0	7.8	65.6	0.95	8.03
16.0-17.0	263.7	8.2	73.8	1.01	9.04
17.0-18.0	262.4	8.7	82.4	1.06	10.10
18.0-19.0	260.9	9.1	91.5	1.11	11.21
19.0-20.0	259.4	9.5	101.0	1.16	12.37
20.0-21.0	257.8	9.9	110.9	1.21	13.59
21.0-22.0	256.1	10.3	121.2	1.26	14.85
22.0-23.0	254.3	10.7	131.9	1.31	16.16
23.0-24.0	252.4	11.0	142.9	1.35	17.51
24.0-25.0	250.5	11.4	154.3	1.40	18.90
25.0-26.0	248.4	11.7	166.0	1.44	20.34
26.0-27.0	246.3	12.1	178.1	1.48	21.82
27.0-28.0	244.1	12.4	190.4	1.51	23.33
28.0-29.0	241.8	12.6	203.1	1.55	24.88
29.0-30.0	239.4	12.9	216.0	1.58	26.46
30.0-31.0	236.8	13.2	229.2	1.61	28.08
31.0-32.0	234.2	13.4	242.6	1.64	29.72
32.0-33.0	231.6	13.6	256.3	1.67	31.40
33.0-34.0	228.8	13.8	270.1	1.70	33.09
34.0-35.0	225.9	14.0	284.1	1.72	34.81
35.0-36.0	223.0	14.2	298.3	1.74	36.55

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	219.9	14.3	312.7	1.76	38.31
37.0-38.0	216.8	14.5	327.2	1.77	40.08
38.0-39.0	213.6	14.6	341.7	1.79	41.87
39.0-40.0	210.2	14.7	356.4	1.80	43.66
40.0-41.0	206.8	14.7	371.1	1.80	45.47
41.0-42.0	203.3	14.8	385.9	1.81	47.28
42.0-43.0	199.8	14.8	400.7	1.81	49.09
43.0-44.0	196.1	14.8	415.5	1.81	50.90
44.0-45.0	192.3	14.8	430.3	1.81	52.72
45.0-46.0	188.5	14.7	445.0	1.81	54.52
46.0-47.0	184.6	14.7	459.7	1.80	56.32
47.0-48.0	180.5	14.6	474.3	1.79	58.11
48.0-49.0	176.5	14.5	488.8	1.78	59.89
49.0-50.0	172.3	14.4	503.2	1.76	61.65
50.0-51.0	168.1	14.2	517.4	1.74	63.39
51.0-52.0	163.8	14.1	531.5	1.72	65.11
52.0-53.0	159.5	13.9	545.3	1.70	66.81
53.0-54.0	155.0	13.7	559.0	1.67	68.48
54.0-55.0	150.6	13.4	572.4	1.65	70.13
55.0-56.0	146.0	13.2	585.6	1.62	71.75
56.0-57.0	141.4	12.9	598.6	1.58	73.33
57.0-58.0	136.8	12.6	611.2	1.55	74.88
58.0-59.0	132.1	12.3	623.6	1.51	76.40
59.0-60.0	127.3	12.0	635.6	1.47	77.87
60.0-61.0	122.6	11.7	647.3	1.43	79.30
61.0-62.0	117.8	11.4	658.6	1.39	80.69
62.0-63.0	112.9	11.0	669.6	1.35	82.04
63.0-64.0	108.1	10.6	680.2	1.30	83.34
64.0-65.0	103.2	10.2	690.5	1.25	84.59
65.0-66.0	98.3	9.8	700.3	1.20	85.79
66.0-67.0	93.4	9.4	709.7	1.15	86.94
67.0-68.0	88.6	9.0	718.6	1.10	88.04
68.0-69.0	83.7	8.5	727.2	1.05	89.09
69.0-70.0	78.8	8.1	735.3	0.99	90.08
70.0-71.0	74.0	7.6	742.9	0.94	91.02
71.0-72.0	69.2	7.2	750.1	0.88	91.90

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	64.5	6.7	756.9	0.83	92.73
73.0-74.0	59.8	6.3	763.2	0.77	93.50
74.0-75.0	55.3	5.8	769.0	0.72	94.21
75.0-76.0	50.7	5.4	774.4	0.66	94.87
76.0-77.0	46.3	4.9	779.3	0.60	95.48
77.0-78.0	42.0	4.5	783.8	0.55	96.03
78.0-79.0	37.8	4.1	787.9	0.50	96.52
79.0-80.0	33.7	3.6	791.5	0.44	96.97
80.0-81.0	29.7	3.2	794.7	0.39	97.36
81.0-82.0	25.9	2.8	797.5	0.34	97.71
82.0-83.0	22.2	2.4	799.9	0.30	98.00
83.0-84.0	18.6	2.0	802.0	0.25	98.25
84.0-85.0	15.3	1.7	803.6	0.20	98.45
85.0-86.0	12.2	1.3	805.0	0.16	98.62
86.0-87.0	9.4	1.0	806.0	0.13	98.74
87.0-88.0	6.9	0.8	806.7	0.09	98.84
88.0-89.0	5.0	0.5	807.3	0.07	98.90
89.0-90.0	3.5	0.4	807.7	0.05	98.95
90.0-91.0	2.5	0.3	807.9	0.03	98.98
91.0-92.0	1.8	0.2	808.1	0.02	99.01
92.0-93.0	1.4	0.2	808.3	0.02	99.03
93.0-94.0	1.2	0.1	808.4	0.02	99.04
94.0-95.0	1.0	0.1	808.5	0.01	99.06
95.0-96.0	0.9	0.1	808.6	0.01	99.07
96.0-97.0	0.9	0.1	808.7	0.01	99.08
97.0-98.0	0.8	0.1	808.8	0.01	99.09
98.0-99.0	0.7	0.1	808.9	0.01	99.10
99.0-100.0	0.7	0.1	809.0	0.01	99.11
100.0-101.0	0.7	0.1	809.1	0.01	99.12
101.0-102.0	0.7	0.1	809.1	0.01	99.13
102.0-103.0	0.7	0.1	809.2	0.01	99.14
103.0-104.0	0.7	0.1	809.3	0.01	99.15
104.0-105.0	0.7	0.1	809.3	0.01	99.16
105.0-106.0	0.8	0.1	809.4	0.01	99.17
106.0-107.0	0.8	0.1	809.5	0.01	99.18
107.0-108.0	0.8	0.1	809.6	0.01	99.19

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.8	0.1	809.7	0.01	99.20
109.0-110.0	0.9	0.1	809.8	0.01	99.21
110.0-111.0	0.9	0.1	809.9	0.01	99.22
111.0-112.0	0.9	0.1	810.0	0.01	99.23
112.0-113.0	1.0	0.1	810.1	0.01	99.24
113.0-114.0	1.0	0.1	810.2	0.01	99.25
114.0-115.0	1.0	0.1	810.3	0.01	99.27
115.0-116.0	1.1	0.1	810.4	0.01	99.28
116.0-117.0	1.1	0.1	810.5	0.01	99.29
117.0-118.0	1.1	0.1	810.6	0.01	99.31
118.0-119.0	1.1	0.1	810.7	0.01	99.32
119.0-120.0	1.2	0.1	810.8	0.01	99.33
120.0-121.0	1.2	0.1	810.9	0.01	99.35
121.0-122.0	1.2	0.1	811.0	0.01	99.36
122.0-123.0	1.3	0.1	811.1	0.01	99.37
123.0-124.0	1.3	0.1	811.3	0.01	99.39
124.0-125.0	1.3	0.1	811.4	0.01	99.40
125.0-126.0	1.4	0.1	811.5	0.01	99.42
126.0-127.0	1.4	0.1	811.6	0.02	99.43
127.0-128.0	1.4	0.1	811.7	0.02	99.45
128.0-129.0	1.5	0.1	811.9	0.02	99.46
129.0-130.0	1.5	0.1	812.0	0.02	99.48
130.0-131.0	1.5	0.1	812.1	0.02	99.50
131.0-132.0	1.5	0.1	812.2	0.02	99.51
132.0-133.0	1.6	0.1	812.4	0.02	99.53
133.0-134.0	1.6	0.1	812.5	0.02	99.54
134.0-135.0	1.6	0.1	812.6	0.02	99.56
135.0-136.0	1.6	0.1	812.8	0.02	99.57
136.0-137.0	1.7	0.1	812.9	0.02	99.59
137.0-138.0	1.7	0.1	813.0	0.02	99.60
138.0-139.0	1.7	0.1	813.1	0.02	99.62
139.0-140.0	1.8	0.1	813.3	0.02	99.63
140.0-141.0	1.8	0.1	813.4	0.02	99.65
141.0-142.0	1.8	0.1	813.5	0.02	99.66
142.0-143.0	1.8	0.1	813.6	0.01	99.68
143.0-144.0	1.9	0.1	813.7	0.01	99.69

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.9	0.1	813.9	0.01	99.71
145.0-146.0	1.9	0.1	814.0	0.01	99.72
146.0-147.0	1.9	0.1	814.1	0.01	99.74
147.0-148.0	1.9	0.1	814.2	0.01	99.75
148.0-149.0	1.9	0.1	814.3	0.01	99.77
149.0-150.0	2.0	0.1	814.4	0.01	99.78
150.0-151.0	2.0	0.1	814.5	0.01	99.79
151.0-152.0	2.0	0.1	814.6	0.01	99.81
152.0-153.0	2.0	0.1	814.8	0.01	99.82
153.0-154.0	2.0	0.1	814.9	0.01	99.83
154.0-155.0	2.1	0.1	814.9	0.01	99.84
155.0-156.0	2.1	0.1	815.0	0.01	99.85
156.0-157.0	2.1	0.1	815.1	0.01	99.86
157.0-158.0	2.1	0.1	815.2	0.01	99.88
158.0-159.0	2.1	0.1	815.3	0.01	99.89
159.0-160.0	2.1	0.1	815.4	0.01	99.90
160.0-161.0	2.1	0.1	815.5	0.01	99.91
161.0-162.0	2.2	0.1	815.5	0.01	99.91
162.0-163.0	2.2	0.1	815.6	0.01	99.92
163.0-164.0	2.2	0.1	815.7	0.01	99.93
164.0-165.0	2.2	0.1	815.7	0.01	99.94
165.0-166.0	2.2	0.1	815.8	0.01	99.95
166.0-167.0	2.2	0.1	815.9	0.01	99.95
167.0-168.0	2.3	0.1	815.9	0.01	99.96
168.0-169.0	2.3	0.0	816.0	0.01	99.97
169.0-170.0	2.3	0.0	816.0	0.01	99.97
170.0-171.0	2.3	0.0	816.1	0.01	99.98
171.0-172.0	2.3	0.0	816.1	0.00	99.98
172.0-173.0	2.3	0.0	816.1	0.00	99.99
173.0-174.0	2.3	0.0	816.2	0.00	99.99
174.0-175.0	2.3	0.0	816.2	0.00	99.99
175.0-176.0	2.4	0.0	816.2	0.00	100.00
176.0-177.0	2.4	0.0	816.2	0.00	100.00
177.0-178.0	2.4	0.0	816.2	0.00	100.00
178.0-179.0	2.4	0.0	816.2	0.00	100.00
179.0-180.0	2.4	0.0	816.2	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: