GENLED Brands
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Report No.: **Test Time: 2021/10/20 16:27**

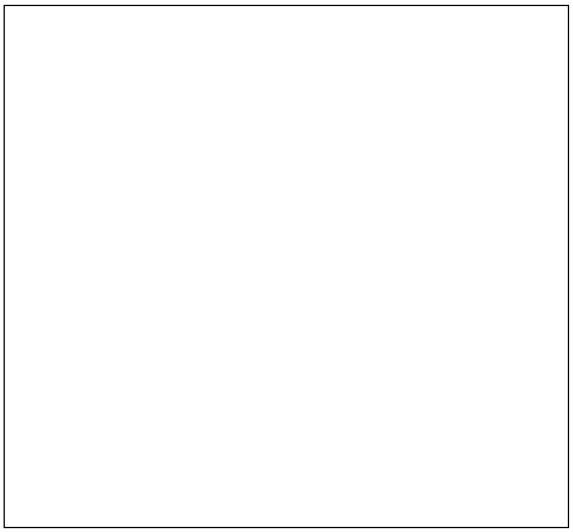
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: COB RIBBONLYTE **Luminaire Description: RB90LINEA204.340**
Lamp Catalog: FCOB-24V-D480-4000-14W-10MM-IP20
Lamp Description: 4000K **Number of Lamps: 480/M**
Luminous Length (mm): 500 **Luminous Width (mm): 10**
Luminous Height (mm): 1.5 **Voltage: 24.0 V**
Current: 0.259 A **Power: 6.22 W**
Power Factor: 1.000

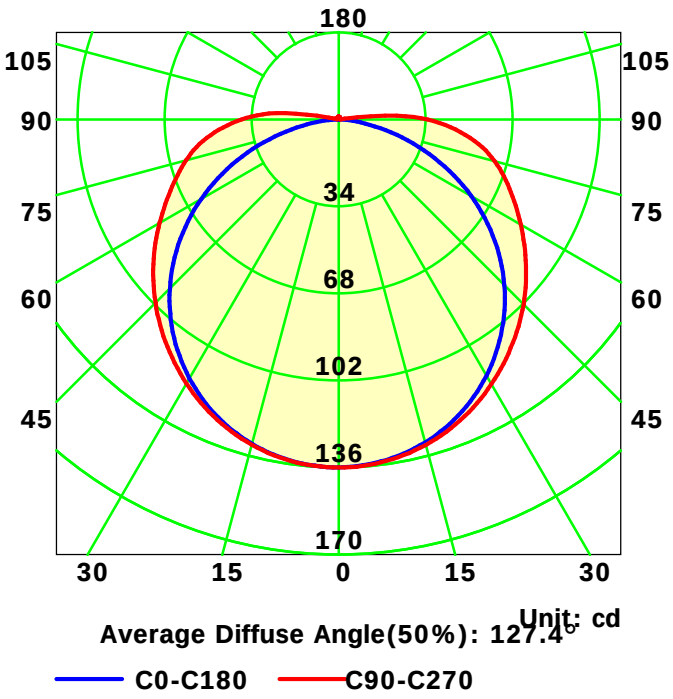
Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 483.1 lm**
Measurement Flux: 483.1 lm **Efficiency: 100%**
Downward Ratio: 97% **Upward Ratio: 3%**
Horizontal Diffuse Angle(10%,50%): H159.9,H113.8
Vertical Diffuse Angle(10%,50%): V194.6,V141.1
Luminaire Efficacy Rating (LER): 78 **Central Intensity: 136.57 cd**
Max. Intensity: 136.65 cd **Pos of Max. Intensity: H30 V0**

Picture Of Luminaire

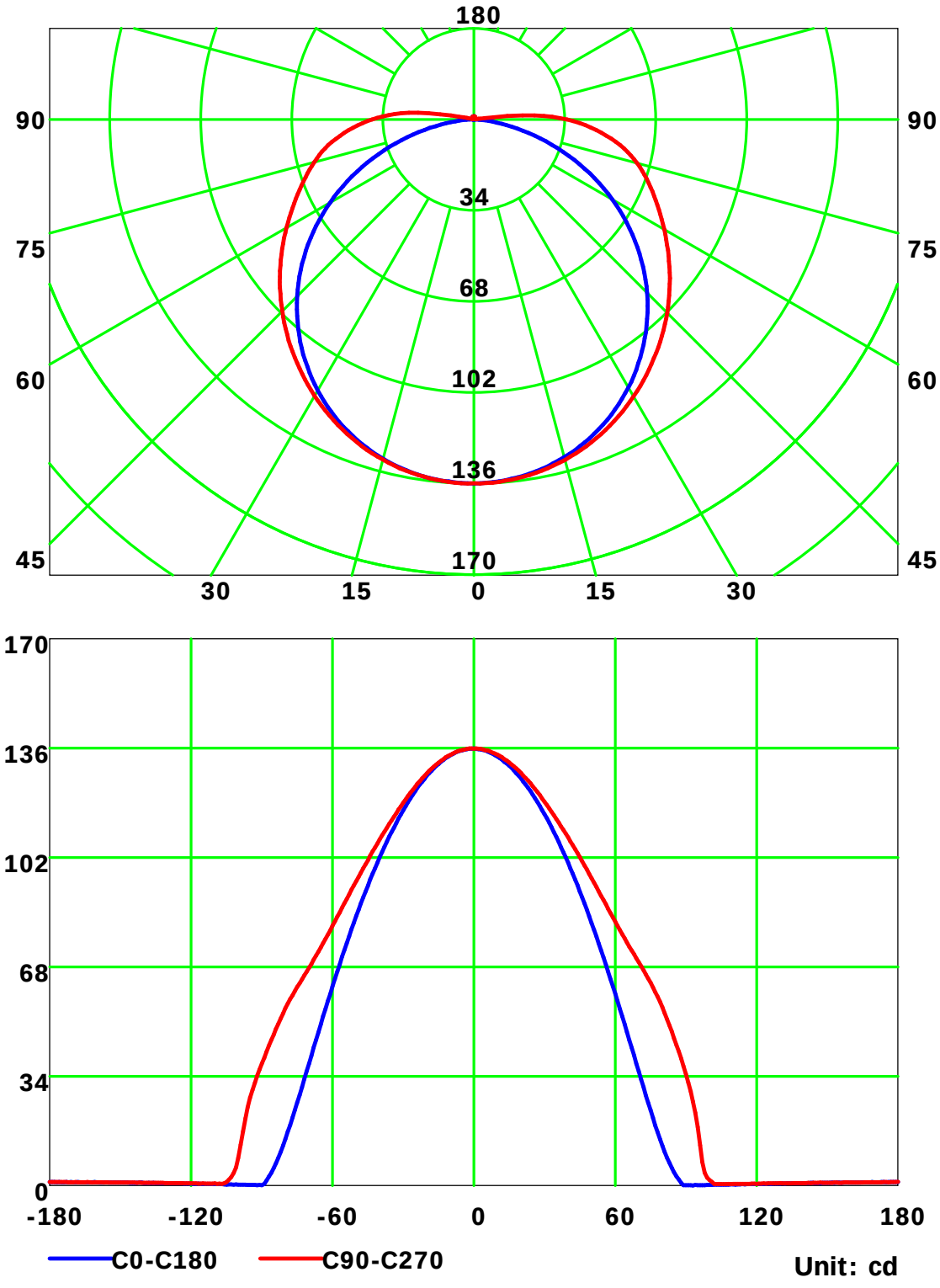


Luminous Intensity Distribution Curve



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: Kerr **Inspector:**

Luminous Intensity Distribution Curve



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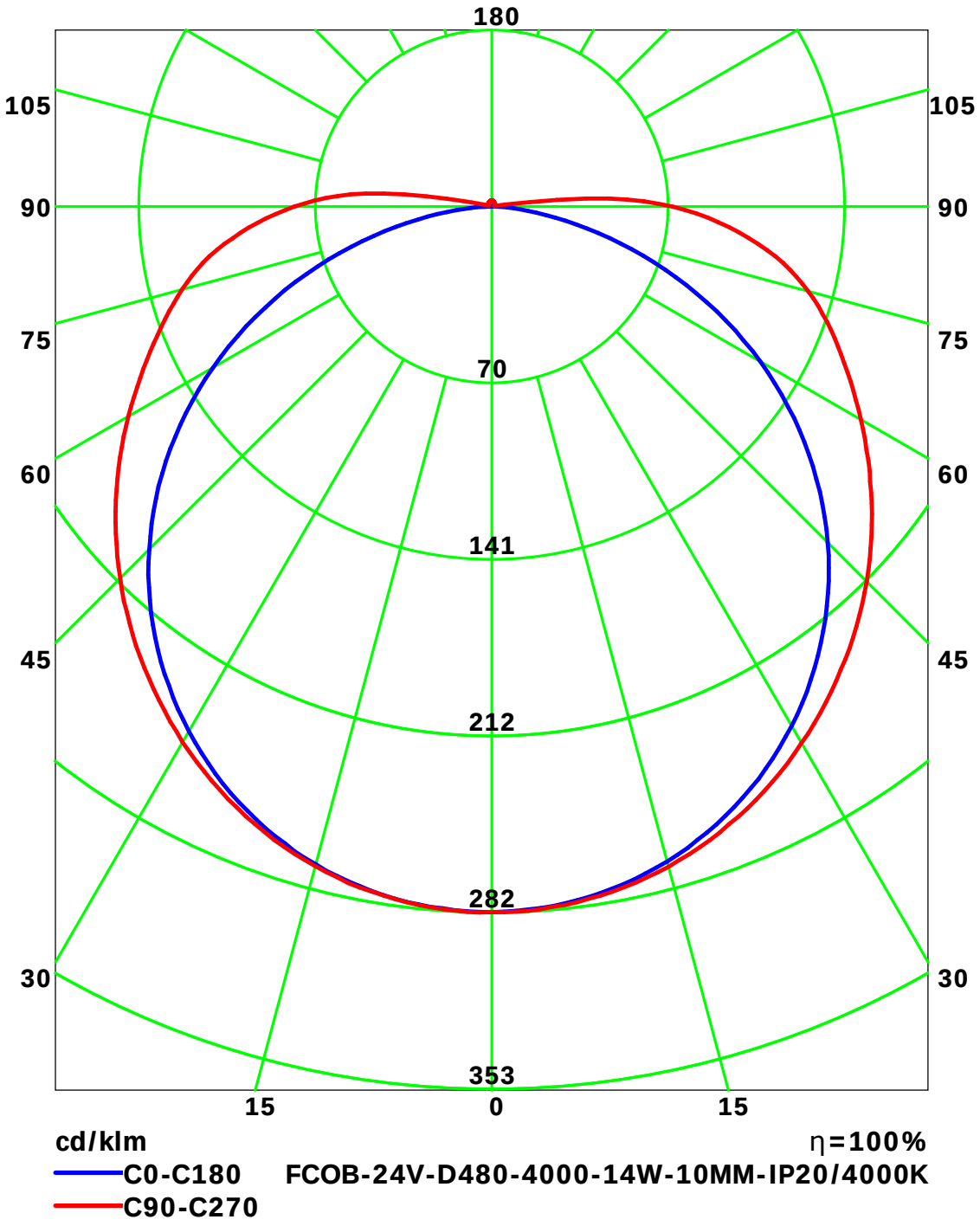
Inspector:

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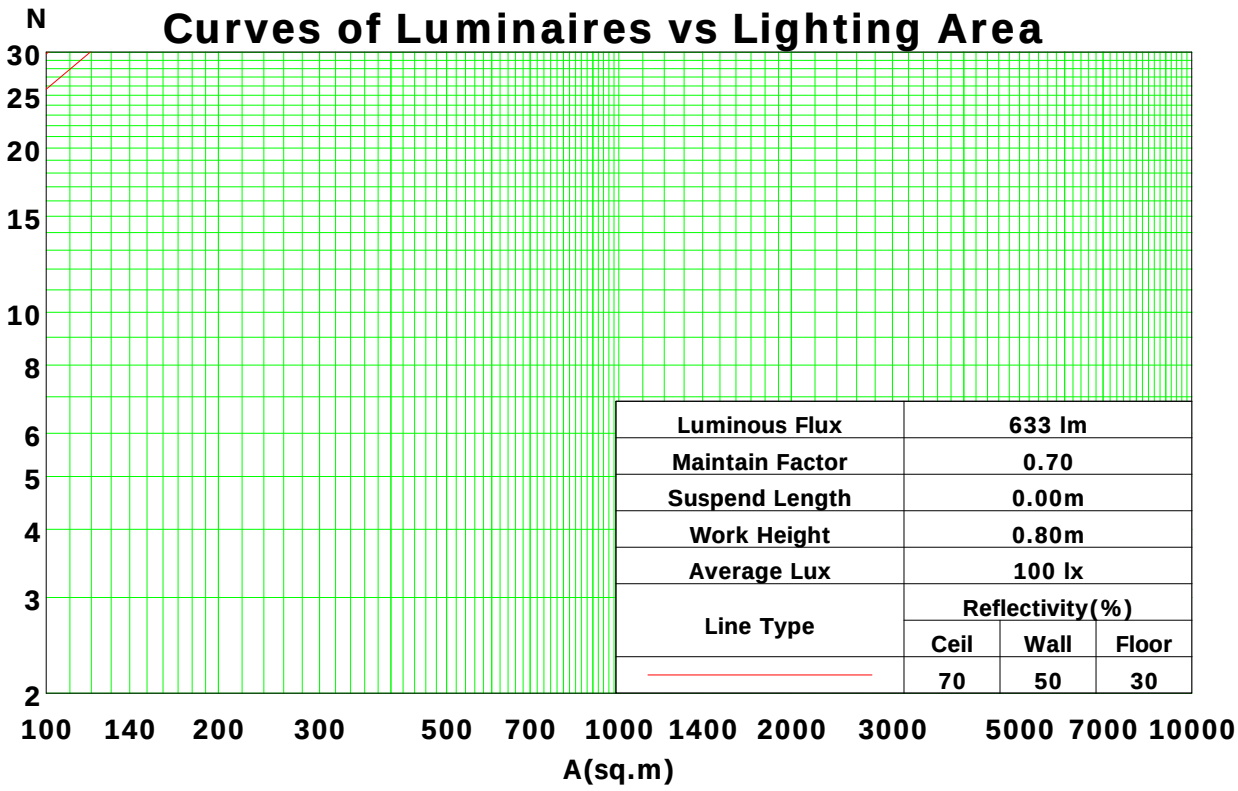
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	105	100	94	90	102	97	92	88	92	88	84	87	84	81	83	81	78	76
2	95	85	78	71	92	83	76	70	79	73	68	75	70	66	72	67	64	61
3	86	74	65	58	83	72	64	57	69	62	56	66	59	54	62	57	53	50
4	78	65	56	48	76	64	55	48	61	53	47	58	51	46	55	50	45	42
5	72	58	48	41	69	57	48	41	54	46	40	52	45	39	50	44	39	36
6	66	52	43	36	64	51	42	36	49	41	35	47	40	34	45	39	34	32
7	61	47	38	31	59	46	37	31	44	36	31	43	36	30	41	35	30	28
8	57	43	34	28	55	42	34	28	40	33	27	39	32	27	38	31	27	25
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	28	24	22
10	50	36	28	23	48	36	28	22	34	27	22	33	27	22	32	26	22	20

Spacing Criteria (0-180): 1.27
Spacing Criteria (90-270): 1.31
Spacing Criteria (Diagonal): 1.42

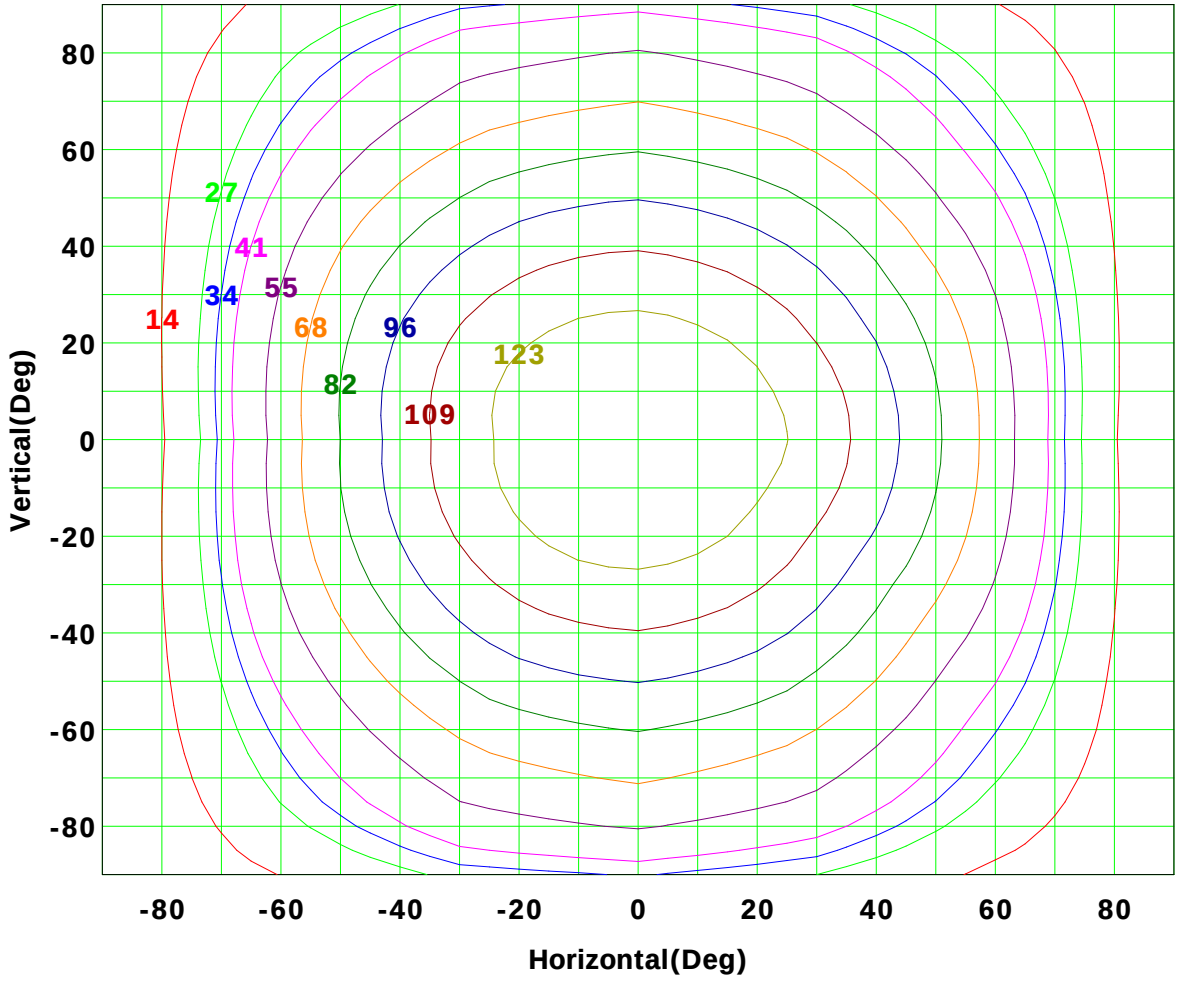
Curves of Luminaires vs Lighting Area



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)



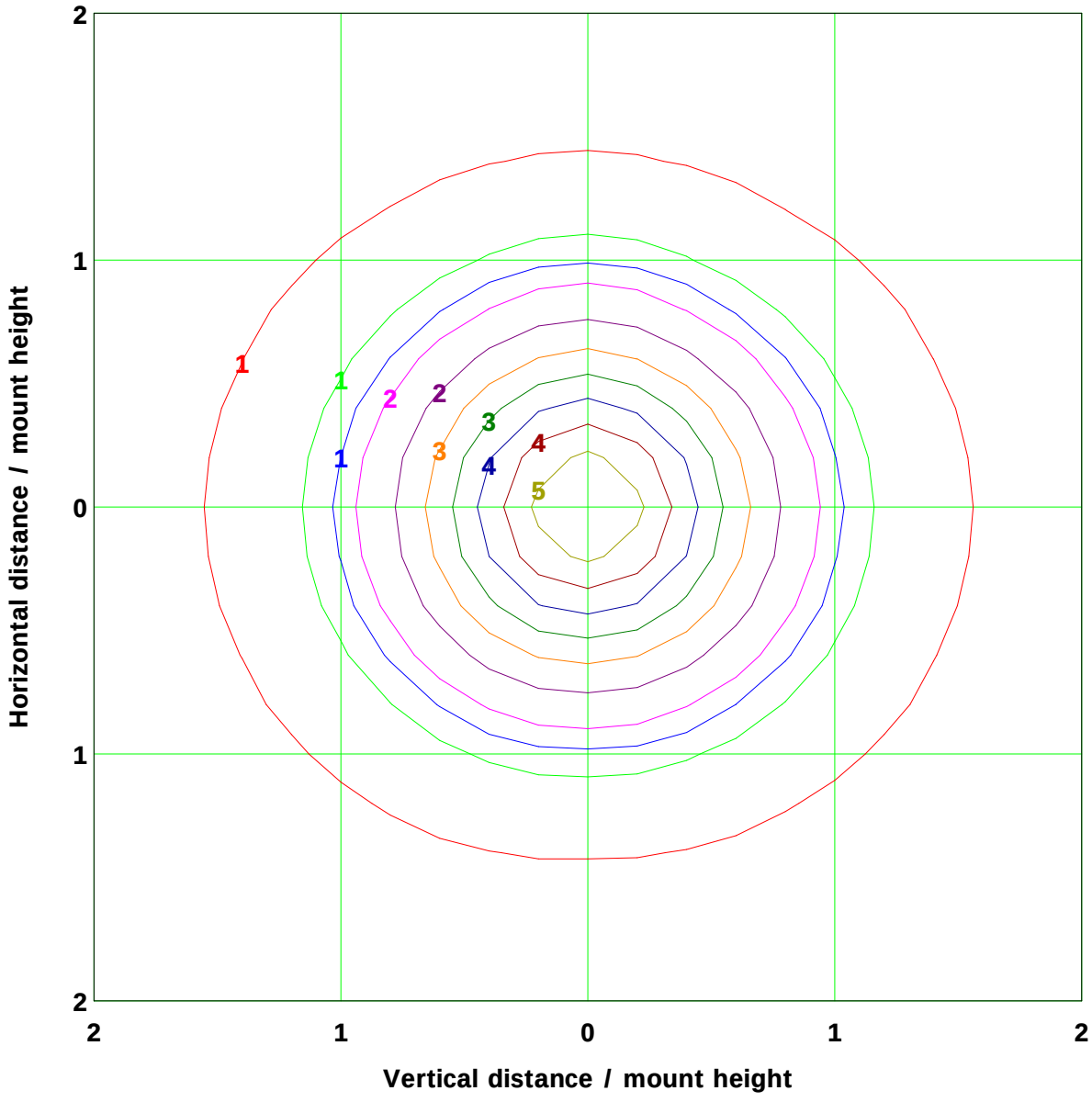
Imax (100%): 137 cd

(10%):	14 cd	(20%):	27 cd
(25%):	34 cd	(30%):	41 cd
(40%):	55 cd	(50%):	68 cd
(60%):	82 cd	(70%):	96 cd
(80%):	109 cd	(90%):	123 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%): 5.5 lx

(10%): 0.5 lx	(20%): 1.1 lx
(25%): 1.4 lx	(30%): 1.6 lx
(40%): 2.2 lx	(50%): 2.7 lx
(60%): 3.3 lx	(70%): 3.8 lx
(80%): 4.4 lx	(90%): 4.9 lx

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
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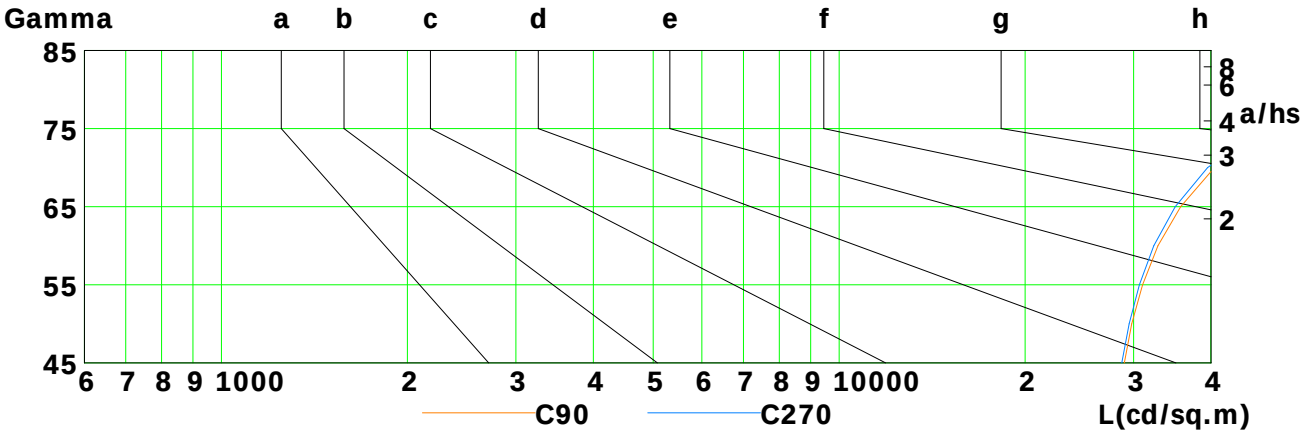
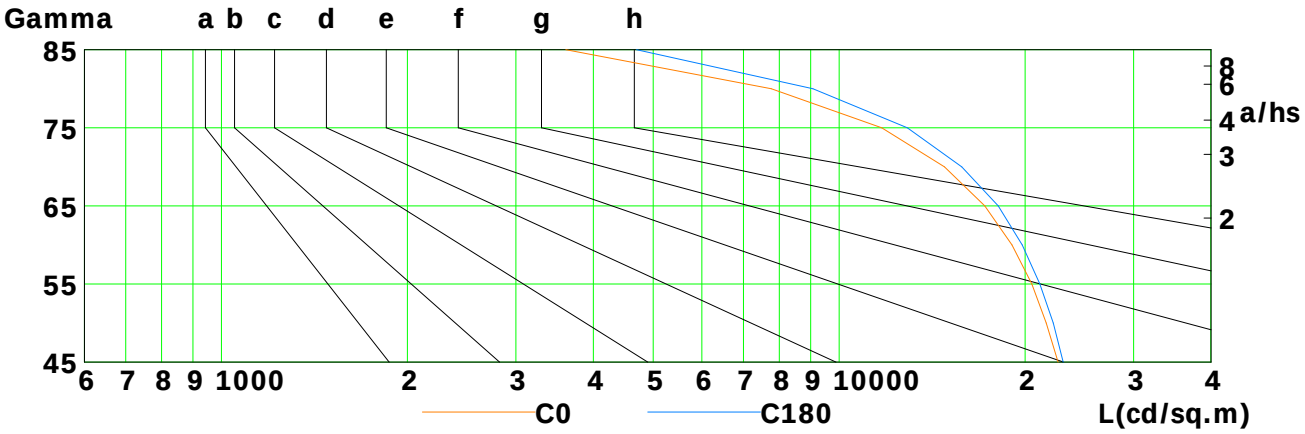
Operator: Kerr

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



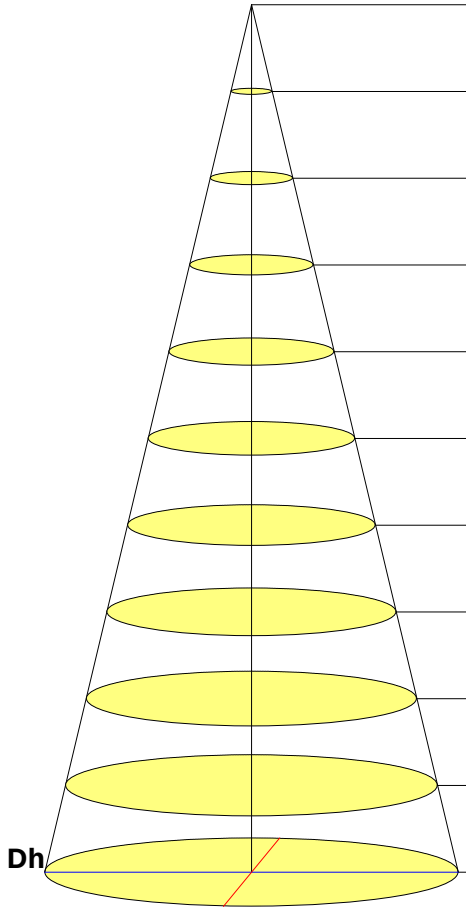


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	22615	21655	20513	19066	17212	14817	11731	7773	3610
C90	28953	29770	31016	32841	35746	40517	48488	63170	102258
C180	23063	22233	21133	19787	18093	15802	12895	9067	4700
C270	28685	29494	30620	32344	35022	39514	47456	62887	104898

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



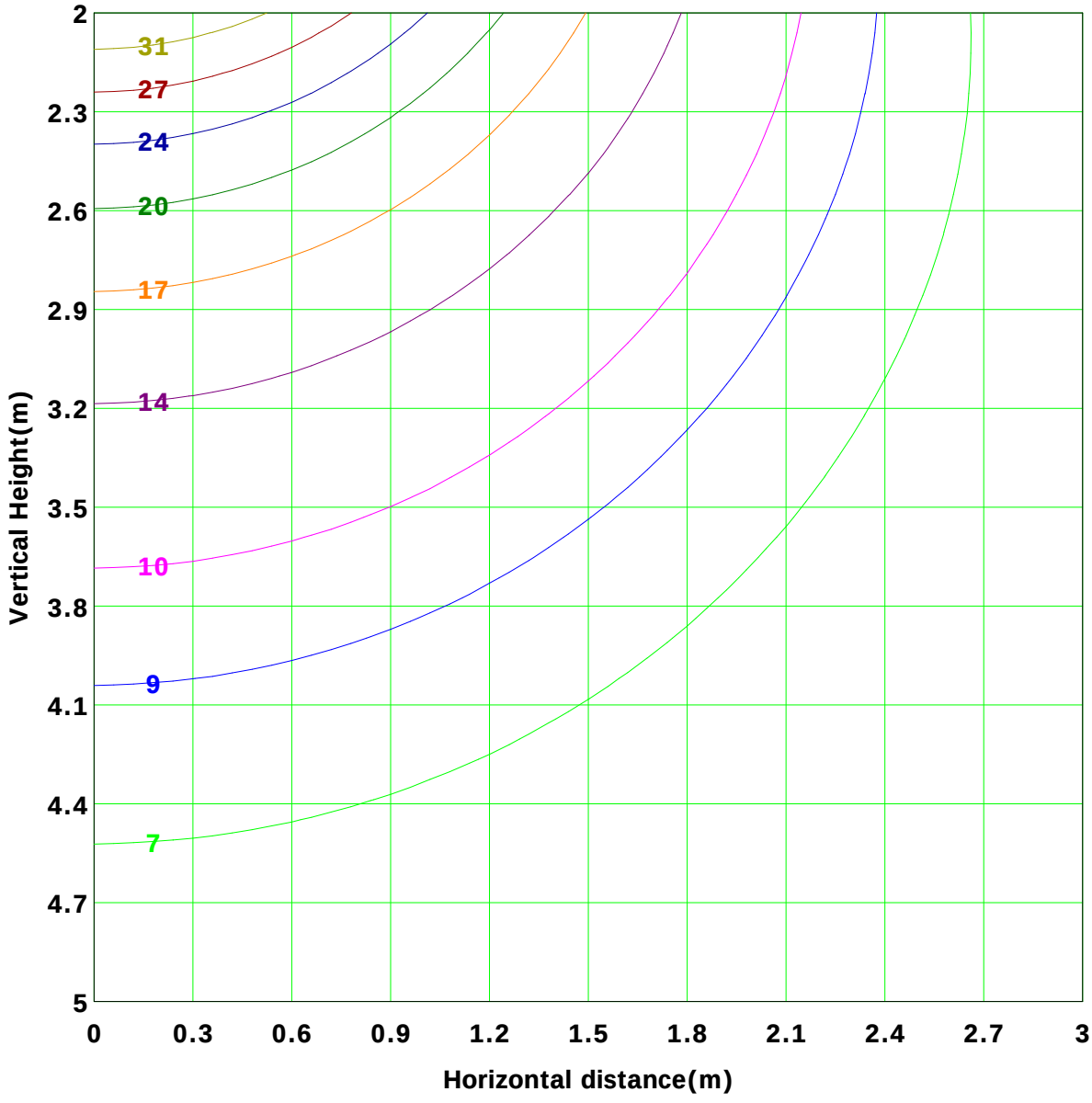
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	136.57	3.07/5.66	13.4	14.14
2.0	34.14	6.13/11.33	53.8	3.53
3.0	15.17	9.20/16.99	121.0	1.57
4.0	8.54	12.27/22.65	215.1	0.88
5.0	5.46	15.33/28.32	336.0	0.57
6.0	3.79	18.40/33.98	483.9	0.39
7.0	2.79	21.47/39.64	658.6	0.29
8.0	2.13	24.53/45.31	860.2	0.22
9.0	1.69	27.60/50.97	1088.7	0.17
10.0	1.37	30.67/56.63	1344.1	0.14

Beam Angle(B): H113.8 V141.1 Field Angle(F): H159.9 V194.6

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:

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 34.1 lx

(10%): 3.4 lx	(20%): 6.8 lx
(25%): 8.5 lx	(30%): 10.2 lx
(40%): 13.7 lx	(50%): 17.1 lx
(60%): 20.5 lx	(70%): 23.9 lx
(80%): 27.3 lx	(90%): 30.7 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

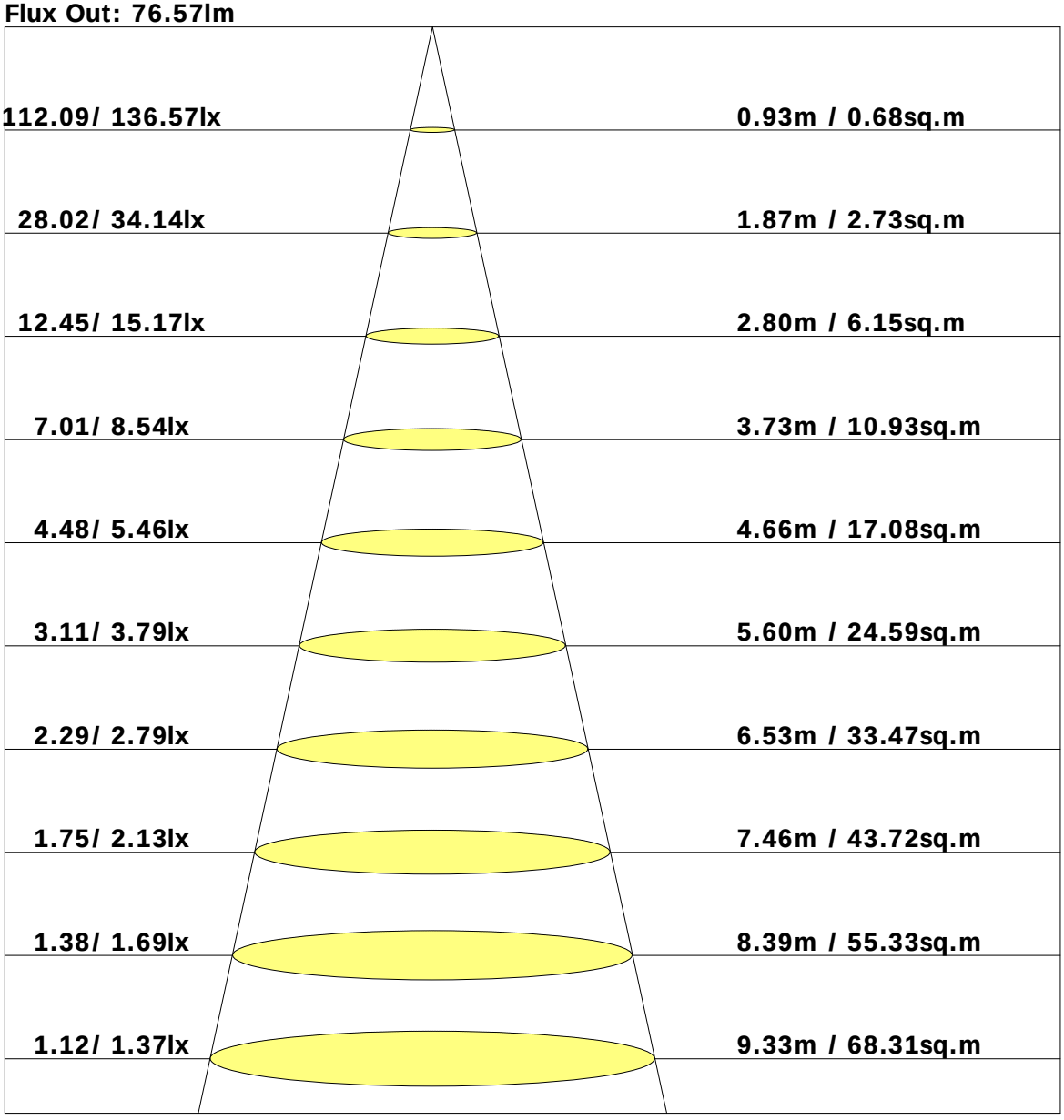
Horizontal plane	Vertical plane																									
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.3	1.4	1.4	1.4	1.3	1.1	0.9	0.7	0.4	0.2	0.1	0.0		11.8
-80	0.0	0.1	0.3	0.5	0.8	1.2	1.5	1.7	1.8	1.8	1.8	1.7	1.5	1.2	0.9	0.6	0.3	0.1	0.0	16.1	16.0
-70	0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.0	2.2	2.2	2.2	2.1	1.8	1.5	1.1	0.7	0.4	0.1	0.0	19.6	19.5
-60	0.0	0.1	0.4	0.8	1.2	1.7	2.1	2.4	2.6	2.6	2.6	2.5	2.2	1.8	1.3	0.8	0.4	0.2	0.0	23.4	23.3
-50	0.0	0.2	0.5	0.9	1.4	2.0	2.5	2.8	3.0	3.1	3.1	2.9	2.5	2.1	1.5	1.0	0.5	0.2	0.0	27.1	27.1
-40	0.0	0.2	0.6	1.1	1.6	2.3	2.8	3.2	3.4	3.4	3.4	3.2	2.9	2.3	1.7	1.1	0.6	0.2	0.0	30.6	30.5
-30	0.0	0.2	0.6	1.2	1.8	2.5	3.1	3.5	3.7	3.8	3.8	3.5	3.1	2.5	1.9	1.2	0.6	0.2	0.0	33.4	33.4
-20	0.0	0.2	0.6	1.2	1.9	2.6	3.3	3.7	4.0	4.1	4.0	3.8	3.3	2.7	2.0	1.2	0.6	0.2	0.0	35.4	35.4
-10	0.0	0.2	0.7	1.3	2.0	2.7	3.4	3.8	4.1	4.1	4.1	3.9	3.4	2.7	2.0	1.3	0.6	0.2	0.0	36.4	36.4
0	0.0	0.2	0.7	1.3	2.0	2.7	3.4	3.8	4.1	4.1	4.1	3.8	3.4	2.7	2.0	1.3	0.6	0.2	0.0	36.3	36.2
10	0.0	0.2	0.6	1.2	1.9	2.6	3.3	3.7	4.0	4.1	4.0	3.7	3.3	2.6	1.9	1.2	0.6	0.2	0.0	35.2	35.2
20	0.0	0.2	0.6	1.2	1.8	2.5	3.2	3.5	3.7	3.8	3.8	3.5	3.1	2.5	1.8	1.2	0.6	0.2	0.0	33.2	33.2
30	0.0	0.2	0.6	1.1	1.6	2.3	2.9	3.2	3.4	3.4	3.4	3.2	2.8	2.3	1.7	1.1	0.6	0.2	0.0	30.4	30.3
40	0.0	0.2	0.5	1.0	1.5	2.1	2.8	3.2	3.4	3.4	3.4	3.2	2.8	2.3	1.7	1.1	0.6	0.2	0.0	30.4	30.3
50	0.0	0.1	0.4	0.8	1.2	1.7	2.2	2.5	2.7	2.7	2.7	2.5	2.2	1.8	1.3	0.8	0.4	0.1	0.0	23.4	23.4
60	0.0	0.1	0.3	0.6	1.0	1.5	1.8	2.1	2.3	2.3	2.3	2.1	1.9	1.5	1.1	0.7	0.4	0.1	0.0	19.8	19.8
70	0.0	0.1	0.3	0.5	0.8	1.2	1.5	1.7	1.9	1.9	1.9	1.8	1.6	1.2	0.9	0.6	0.3	0.1	0.0	16.3	16.1
80	0.0	0.1	0.2	0.3	0.6	0.8	1.1	1.2	1.3	1.4	1.4	1.3	1.1	0.9	0.6	0.4	0.2	0.1	0.0	11.5	11.2
90	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.3	1.4	1.4	1.4	1.3	1.1	0.9	0.7	0.4	0.2	0.1	0.0	12.1	11.8
Flux(E)	0.0	2.5	8.1	15.9	25.0	34.4	42.9	49.1	52.8	53.0	49.8	43.8	35.4	25.8	16.4	8.4	2.5	0.0		466	
Flux(T)	0.3	2.9	8.3	15.9	25.0	34.4	42.9	49.1	52.8	53.0	49.8	43.8	35.4	25.8	16.4	8.4	2.8	0.3	467		

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

Flux Out: 76.57lm



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: 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	25.1	26.8	25.5	27.1	27.5	25.8	27.5	26.2	27.9	28.3
3H	26.9	28.4	27.3	28.8	29.3	28.4	29.9	28.8	30.3	30.8
4H	27.6	29.0	28.0	29.4	29.9	29.7	31.1	30.1	31.6	32.0
6H	28.0	29.4	28.5	29.8	30.2	31.0	32.3	31.4	32.7	33.2
8H	28.1	29.4	28.6	29.9	30.3	31.6	32.9	32.0	33.3	33.8
12H	28.2	29.4	28.7	29.9	30.4	32.1	33.4	32.6	33.8	34.3
X=4H Y=2H	25.9	27.4	26.4	27.8	28.2	26.5	27.9	26.9	28.3	28.8
3H	28.0	29.3	28.5	29.7	30.2	29.4	30.6	29.8	31.1	31.5
4H	28.9	30.0	29.4	30.5	31.0	30.8	32.0	31.3	32.4	32.9
6H	29.6	30.6	30.1	31.1	31.6	32.3	33.3	32.8	33.8	34.3
8H	29.8	30.7	30.3	31.2	31.8	33.0	33.9	33.5	34.4	35.0
12H	29.9	30.8	30.4	31.3	31.8	33.6	34.5	34.2	35.0	35.6
X=8H Y=4H	29.6	30.6	30.1	31.1	31.6	31.2	32.2	31.7	32.7	33.2
6H	30.6	31.4	31.1	31.9	32.5	32.9	33.7	33.4	34.3	34.8
8H	31.0	31.7	31.5	32.3	32.8	33.8	34.5	34.3	35.1	35.6
12H	31.3	31.9	31.8	32.5	33.1	34.6	35.3	35.2	35.8	36.5
X=12H Y=4H	29.9	30.7	30.4	31.3	31.8	31.3	32.1	31.8	32.7	33.2
6H	30.9	31.7	31.5	32.2	32.8	33.0	33.8	33.6	34.3	34.9
8H	31.4	32.1	32.0	32.6	33.3	34.0	34.6	34.5	35.2	35.8

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	0.54	0.62	0.69	0.74	0.82	0.87	0.90	0.95	0.99
	0.30		0.46	0.54	0.61	0.67	0.75	0.80	0.84	0.90	0.94
	0.20		0.40	0.48	0.55	0.61	0.69	0.75	0.79	0.86	0.90
0.50	0.50	0.20	0.52	0.60	0.66	0.71	0.78	0.83	0.86	0.91	0.94
	0.30		0.45	0.52	0.59	0.65	0.72	0.77	0.81	0.86	0.90
	0.20		0.40	0.47	0.54	0.59	0.67	0.73	0.77	0.83	0.87
0.30	0.50	0.20	0.50	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.89
	0.30		0.44	0.51	0.58	0.63	0.70	0.74	0.78	0.83	0.86
	0.20		0.39	0.46	0.53	0.58	0.65	0.70	0.74	0.80	0.84
0.00	0.00	0.00	0.37	0.43	0.50	0.54	0.61	0.66	0.70	0.75	0.78

Rating:6W 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: Kerr

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 = 1.50								
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	1.02	0.88	0.76	0.67	0.55	0.47	0.41	0.33	0.27
	0.30		0.85	0.76	0.66	0.60	0.50	0.43	0.38	0.31	0.26
	0.20		0.73	0.66	0.59	0.53	0.46	0.40	0.35	0.29	0.25
0.50	0.50	0.20	0.98	0.84	0.73	0.64	0.53	0.48	0.39	0.31	0.26
	0.30		0.83	0.73	0.64	0.58	0.48	0.41	0.36	0.29	0.25
	0.20		0.72	0.65	0.58	0.52	0.44	0.39	0.34	0.28	0.24
0.30	0.50	0.20	0.95	0.81	0.70	0.62	0.50	0.43	0.37	0.30	0.25
	0.30		0.81	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.24
	0.20		0.71	0.64	0.56	0.51	0.43	0.37	0.33	0.27	0.23
0.00	0.00	0.00	0.60	0.54	0.47	0.43	0.36	0.31	0.27	0.22	0.19

Rating:6W 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: Kerr

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 = 1.50								
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	0.20	0.21	0.22	0.23	0.24	0.24	0.24	0.25	0.25
	0.30		0.13	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.24
	0.30		0.12	0.14	0.15	0.16	0.17	0.19	0.19	0.20	0.21
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.30	0.50	0.20	0.18	0.20	0.20	0.21	0.22	0.22	0.23	0.23	0.23
	0.30		0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20
	0.20		0.07	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Rating:6W 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: Kerr

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	136.5	0.1	0.1	0.03	0.03
1.0-2.0	136.5	0.4	0.5	0.08	0.11
2.0-3.0	136.4	0.7	1.2	0.14	0.24
3.0-4.0	136.3	0.9	2.1	0.19	0.43
4.0-5.0	136.1	1.2	3.3	0.24	0.67
5.0-6.0	135.9	1.4	4.7	0.30	0.97
6.0-7.0	135.7	1.7	6.4	0.35	1.32
7.0-8.0	135.4	1.9	8.3	0.40	1.72
8.0-9.0	135.0	2.2	10.5	0.45	2.17
9.0-10.0	134.6	2.4	12.9	0.50	2.68
10.0-11.0	134.2	2.7	15.6	0.56	3.23
11.0-12.0	133.8	2.9	18.5	0.61	3.84
12.0-13.0	133.3	3.2	21.7	0.65	4.49
13.0-14.0	132.7	3.4	25.1	0.70	5.20
14.0-15.0	132.1	3.6	28.7	0.75	5.95
15.0-16.0	131.5	3.9	32.6	0.80	6.74
16.0-17.0	130.8	4.1	36.7	0.84	7.59
17.0-18.0	130.1	4.3	40.9	0.89	8.48
18.0-19.0	129.4	4.5	45.5	0.93	9.41
19.0-20.0	128.6	4.7	50.2	0.97	10.38
20.0-21.0	127.8	4.9	55.1	1.02	11.40
21.0-22.0	126.9	5.1	60.2	1.06	12.46
22.0-23.0	126.0	5.3	65.5	1.09	13.55
23.0-24.0	125.1	5.5	70.9	1.13	14.68
24.0-25.0	124.1	5.6	76.6	1.17	15.85
25.0-26.0	123.1	5.8	82.4	1.20	17.05
26.0-27.0	122.1	6.0	88.4	1.24	18.29
27.0-28.0	121.0	6.1	94.5	1.27	19.56
28.0-29.0	119.9	6.3	100.8	1.30	20.86
29.0-30.0	118.7	6.4	107.2	1.33	22.18
30.0-31.0	117.5	6.5	113.7	1.35	23.54
31.0-32.0	116.3	6.7	120.4	1.38	24.92
32.0-33.0	115.1	6.8	127.2	1.40	26.32
33.0-34.0	113.8	6.9	134.0	1.43	27.75
34.0-35.0	112.5	7.0	141.0	1.45	29.19
35.0-36.0	111.2	7.1	148.1	1.47	30.66

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	109.8	7.2	155.3	1.48	32.14
37.0-38.0	108.4	7.2	162.5	1.50	33.64
38.0-39.0	107.0	7.3	169.8	1.51	35.15
39.0-40.0	105.6	7.4	177.2	1.52	36.68
40.0-41.0	104.1	7.4	184.6	1.54	38.21
41.0-42.0	102.6	7.5	192.1	1.54	39.76
42.0-43.0	101.2	7.5	199.6	1.55	41.31
43.0-44.0	99.6	7.5	207.1	1.56	42.87
44.0-45.0	98.1	7.5	214.6	1.56	44.43
45.0-46.0	96.5	7.5	222.2	1.56	45.99
46.0-47.0	94.9	7.5	229.7	1.56	47.55
47.0-48.0	93.2	7.5	237.2	1.56	49.11
48.0-49.0	91.6	7.5	244.8	1.56	50.67
49.0-50.0	89.9	7.5	252.3	1.55	52.22
50.0-51.0	88.2	7.5	259.7	1.55	53.76
51.0-52.0	86.5	7.4	267.1	1.54	55.30
52.0-53.0	84.8	7.4	274.5	1.53	56.83
53.0-54.0	83.1	7.3	281.8	1.52	58.34
54.0-55.0	81.4	7.3	289.1	1.50	59.85
55.0-56.0	79.6	7.2	296.3	1.49	61.34
56.0-57.0	77.8	7.1	303.4	1.47	62.81
57.0-58.0	76.1	7.0	310.5	1.46	64.27
58.0-59.0	74.3	6.9	317.4	1.44	65.71
59.0-60.0	72.5	6.9	324.3	1.42	67.12
60.0-61.0	70.8	6.8	331.0	1.40	68.52
61.0-62.0	69.0	6.6	337.7	1.38	69.90
62.0-63.0	67.2	6.5	344.2	1.35	71.25
63.0-64.0	65.4	6.4	350.6	1.33	72.58
64.0-65.0	63.7	6.3	356.9	1.31	73.89
65.0-66.0	61.9	6.2	363.1	1.28	75.17
66.0-67.0	60.2	6.1	369.2	1.25	76.42
67.0-68.0	58.5	5.9	375.1	1.23	77.65
68.0-69.0	56.8	5.8	380.9	1.20	78.84
69.0-70.0	55.1	5.7	386.5	1.17	80.02
70.0-71.0	53.4	5.5	392.1	1.14	81.16
71.0-72.0	51.7	5.4	397.4	1.11	82.27

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	50.1	5.2	402.7	1.08	83.36
73.0-74.0	48.5	5.1	407.8	1.05	84.41
74.0-75.0	46.9	5.0	412.7	1.03	85.44
75.0-76.0	45.3	4.8	417.5	0.99	86.43
76.0-77.0	43.7	4.7	422.2	0.96	87.40
77.0-78.0	42.1	4.5	426.7	0.93	88.33
78.0-79.0	40.5	4.4	431.1	0.90	89.23
79.0-80.0	38.9	4.2	435.2	0.87	90.10
80.0-81.0	37.3	4.0	439.3	0.84	90.93
81.0-82.0	35.6	3.9	443.1	0.80	91.73
82.0-83.0	33.9	3.7	446.8	0.76	92.50
83.0-84.0	32.2	3.5	450.3	0.73	93.22
84.0-85.0	30.4	3.3	453.7	0.69	93.91
85.0-86.0	28.7	3.1	456.8	0.65	94.56
86.0-87.0	26.9	2.9	459.7	0.61	95.17
87.0-88.0	25.2	2.8	462.5	0.57	95.74
88.0-89.0	23.4	2.6	465.1	0.53	96.27
89.0-90.0	21.7	2.4	467.5	0.49	96.77
90.0-91.0	19.9	2.2	469.6	0.45	97.22
91.0-92.0	17.9	2.0	471.6	0.41	97.63
92.0-93.0	15.7	1.7	473.3	0.36	97.98
93.0-94.0	13.5	1.5	474.8	0.31	98.29
94.0-95.0	11.1	1.2	476.0	0.25	98.54
95.0-96.0	8.7	0.9	477.0	0.20	98.73
96.0-97.0	6.5	0.7	477.7	0.15	98.88
97.0-98.0	4.7	0.5	478.2	0.11	98.99
98.0-99.0	3.3	0.4	478.5	0.07	99.06
99.0-100.0	2.3	0.2	478.8	0.05	99.11
100.0-101.0	1.6	0.2	479.0	0.03	99.15
101.0-102.0	1.1	0.1	479.1	0.03	99.17
102.0-103.0	0.9	0.1	479.2	0.02	99.19
103.0-104.0	0.7	0.1	479.2	0.02	99.21
104.0-105.0	0.6	0.1	479.3	0.01	99.22
105.0-106.0	0.5	0.1	479.4	0.01	99.23
106.0-107.0	0.5	0.1	479.4	0.01	99.24
107.0-108.0	0.5	0.1	479.5	0.01	99.26

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.5	0.1	479.5	0.01	99.27
109.0-110.0	0.6	0.1	479.6	0.01	99.28
110.0-111.0	0.6	0.1	479.7	0.01	99.29
111.0-112.0	0.6	0.1	479.7	0.01	99.30
112.0-113.0	0.6	0.1	479.8	0.01	99.32
113.0-114.0	0.6	0.1	479.8	0.01	99.33
114.0-115.0	0.6	0.1	479.9	0.01	99.34
115.0-116.0	0.6	0.1	480.0	0.01	99.35
116.0-117.0	0.6	0.1	480.0	0.01	99.37
117.0-118.0	0.7	0.1	480.1	0.01	99.38
118.0-119.0	0.7	0.1	480.2	0.01	99.39
119.0-120.0	0.7	0.1	480.2	0.01	99.41
120.0-121.0	0.7	0.1	480.3	0.01	99.42
121.0-122.0	0.7	0.1	480.3	0.01	99.44
122.0-123.0	0.7	0.1	480.4	0.01	99.45
123.0-124.0	0.7	0.1	480.5	0.01	99.46
124.0-125.0	0.8	0.1	480.6	0.01	99.48
125.0-126.0	0.8	0.1	480.6	0.01	99.49
126.0-127.0	0.8	0.1	480.7	0.01	99.51
127.0-128.0	0.8	0.1	480.8	0.01	99.52
128.0-129.0	0.8	0.1	480.8	0.01	99.53
129.0-130.0	0.8	0.1	480.9	0.01	99.55
130.0-131.0	0.8	0.1	481.0	0.01	99.56
131.0-132.0	0.8	0.1	481.0	0.01	99.58
132.0-133.0	0.8	0.1	481.1	0.01	99.59
133.0-134.0	0.8	0.1	481.2	0.01	99.60
134.0-135.0	0.9	0.1	481.2	0.01	99.62
135.0-136.0	0.9	0.1	481.3	0.01	99.63
136.0-137.0	0.9	0.1	481.4	0.01	99.65
137.0-138.0	0.9	0.1	481.4	0.01	99.66
138.0-139.0	0.9	0.1	481.5	0.01	99.67
139.0-140.0	0.9	0.1	481.6	0.01	99.69
140.0-141.0	0.9	0.1	481.6	0.01	99.70
141.0-142.0	0.9	0.1	481.7	0.01	99.71
142.0-143.0	0.9	0.1	481.8	0.01	99.73
143.0-144.0	0.9	0.1	481.8	0.01	99.74

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.0	0.1	481.9	0.01	99.75
145.0-146.0	1.0	0.1	481.9	0.01	99.76
146.0-147.0	1.0	0.1	482.0	0.01	99.78
147.0-148.0	1.0	0.1	482.1	0.01	99.79
148.0-149.0	1.0	0.1	482.1	0.01	99.80
149.0-150.0	1.0	0.1	482.2	0.01	99.81
150.0-151.0	1.0	0.1	482.2	0.01	99.82
151.0-152.0	1.0	0.1	482.3	0.01	99.83
152.0-153.0	1.0	0.1	482.3	0.01	99.84
153.0-154.0	1.0	0.1	482.4	0.01	99.86
154.0-155.0	1.0	0.0	482.4	0.01	99.87
155.0-156.0	1.0	0.0	482.5	0.01	99.88
156.0-157.0	1.0	0.0	482.5	0.01	99.88
157.0-158.0	1.1	0.0	482.6	0.01	99.89
158.0-159.0	1.1	0.0	482.6	0.01	99.90
159.0-160.0	1.1	0.0	482.6	0.01	99.91
160.0-161.0	1.1	0.0	482.7	0.01	99.92
161.0-162.0	1.1	0.0	482.7	0.01	99.93
162.0-163.0	1.1	0.0	482.8	0.01	99.94
163.0-164.0	1.1	0.0	482.8	0.01	99.94
164.0-165.0	1.1	0.0	482.8	0.01	99.95
165.0-166.0	1.1	0.0	482.9	0.01	99.96
166.0-167.0	1.1	0.0	482.9	0.01	99.96
167.0-168.0	1.1	0.0	482.9	0.01	99.97
168.0-169.0	1.1	0.0	482.9	0.01	99.97
169.0-170.0	1.2	0.0	483.0	0.00	99.98
170.0-171.0	1.2	0.0	483.0	0.00	99.98
171.0-172.0	1.1	0.0	483.0	0.00	99.99
172.0-173.0	1.2	0.0	483.0	0.00	99.99
173.0-174.0	1.2	0.0	483.0	0.00	99.99
174.0-175.0	1.2	0.0	483.0	0.00	99.99
175.0-176.0	1.2	0.0	483.1	0.00	100.00
176.0-177.0	1.2	0.0	483.1	0.00	100.00
177.0-178.0	1.2	0.0	483.1	0.00	100.00
178.0-179.0	1.2	0.0	483.1	0.00	100.00
179.0-180.0	1.2	0.0	483.1	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: