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

Report No.:

Test Time: 2021/11/16 17:08

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: COB RIBBONLYTE
Luminaire Description: RB0LINEA674.3VW-2700
Lamp Catalog: FCOB-24V-D576-VW-14W-10MM-IP67 RA>80

Lamp Description: 2700K	**Number of Lamps: 576/M**
Luminous Length (mm): 500	**Luminous Width (mm): 10**
Luminous Height (mm): 1.5	**Voltage: 24.0 V**
Current: 0.205 A	**Power: 4.92 W**
Power Factor: 1.000	

Photometric Results

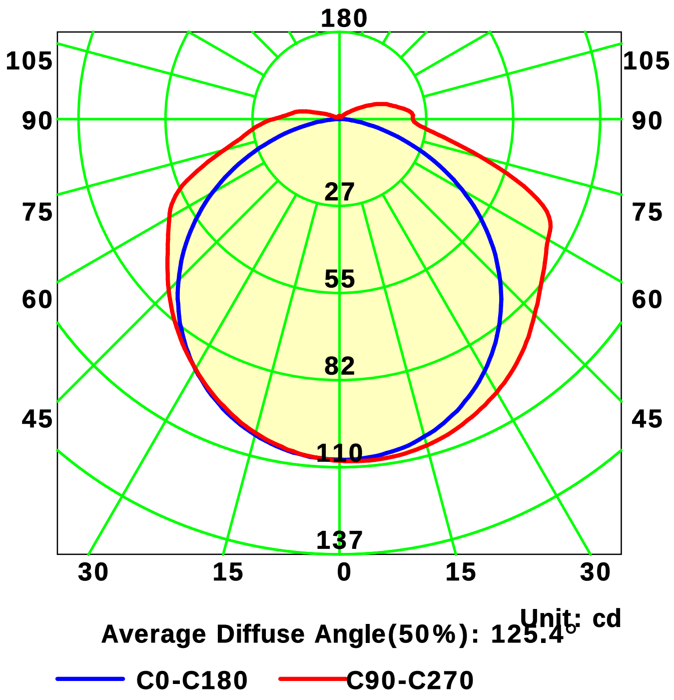
CIE Class: Direct	**Total Rated Lamp Lumens: 386.1 lm**
Measurement Flux: 386.1 lm	**Efficiency: 100%**
Downward Ratio: 93%	**Upward Ratio: 7%**

Horizontal Diffuse Angle(10%,50%): H157.6,H111.3
Vertical Diffuse Angle(10%,50%): V217.5,V139.5

Luminaire Efficacy Rating (LER): 78	**Central Intensity: 107.86 cd**
Max. Intensity: 108.57 cd	**Pos of Max. Intensity: H60 V4**

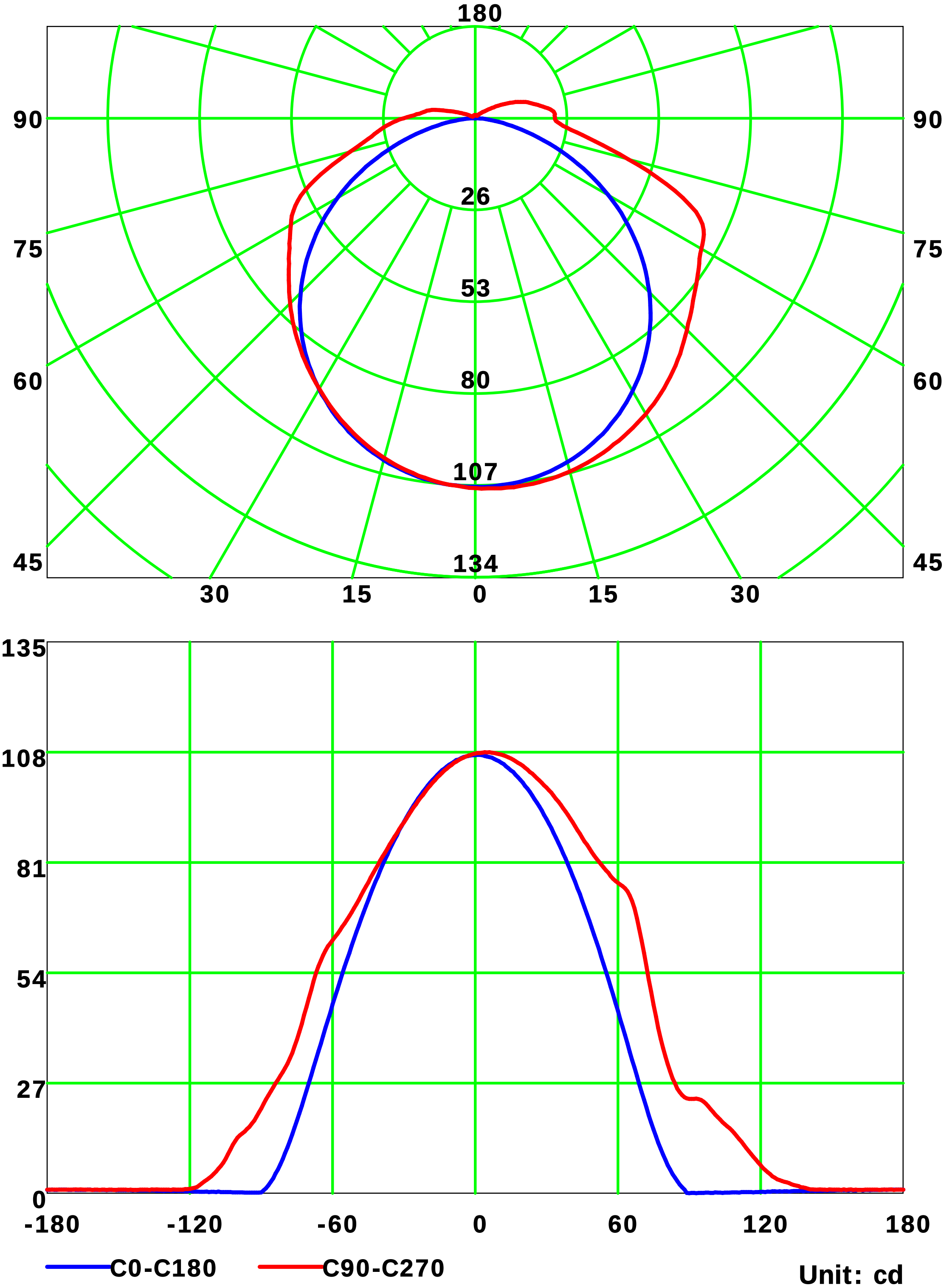
Picture Of Luminaire

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

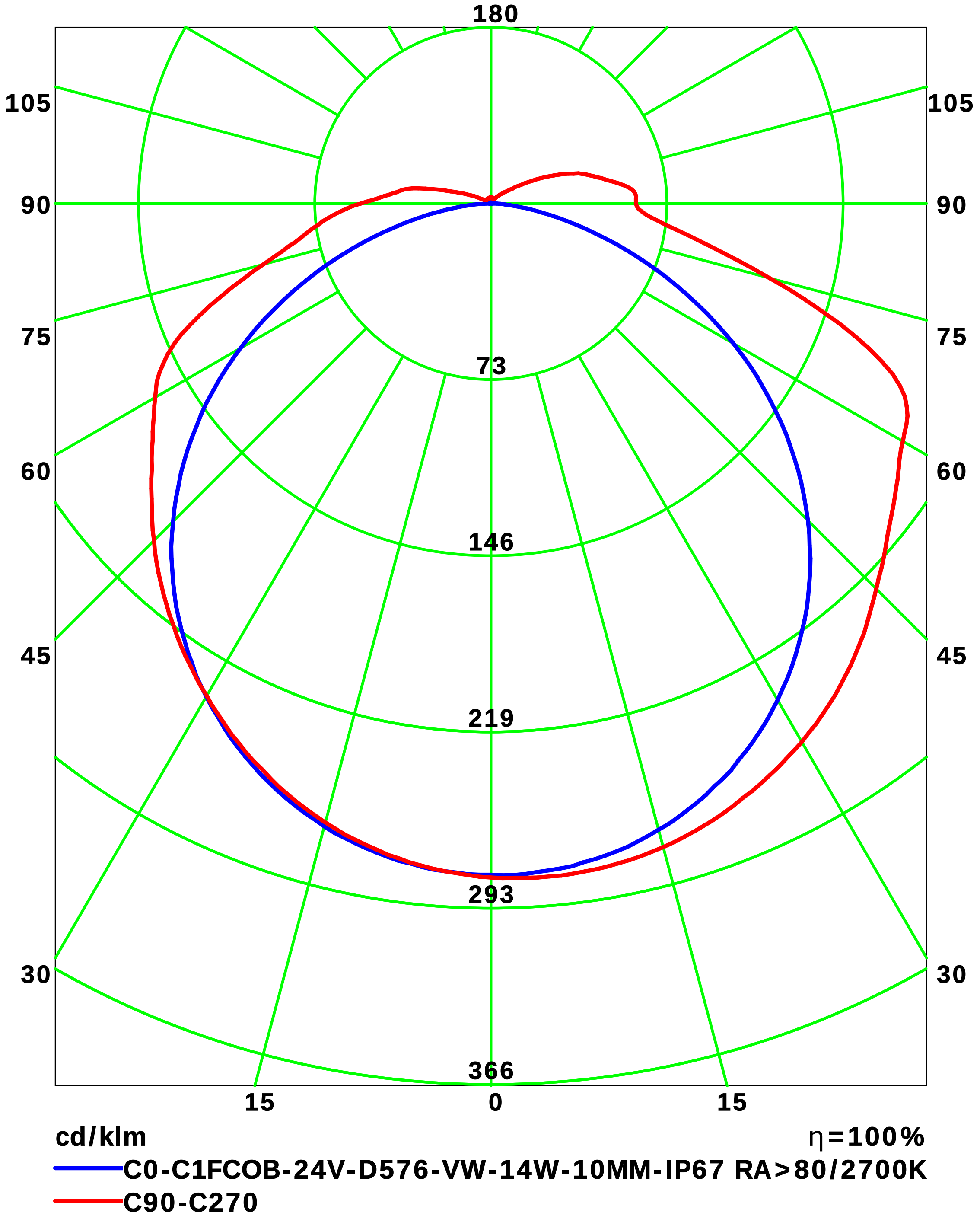


Unit: cd

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:

Luminous Intensity Distribution Curve(cd/klm)



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

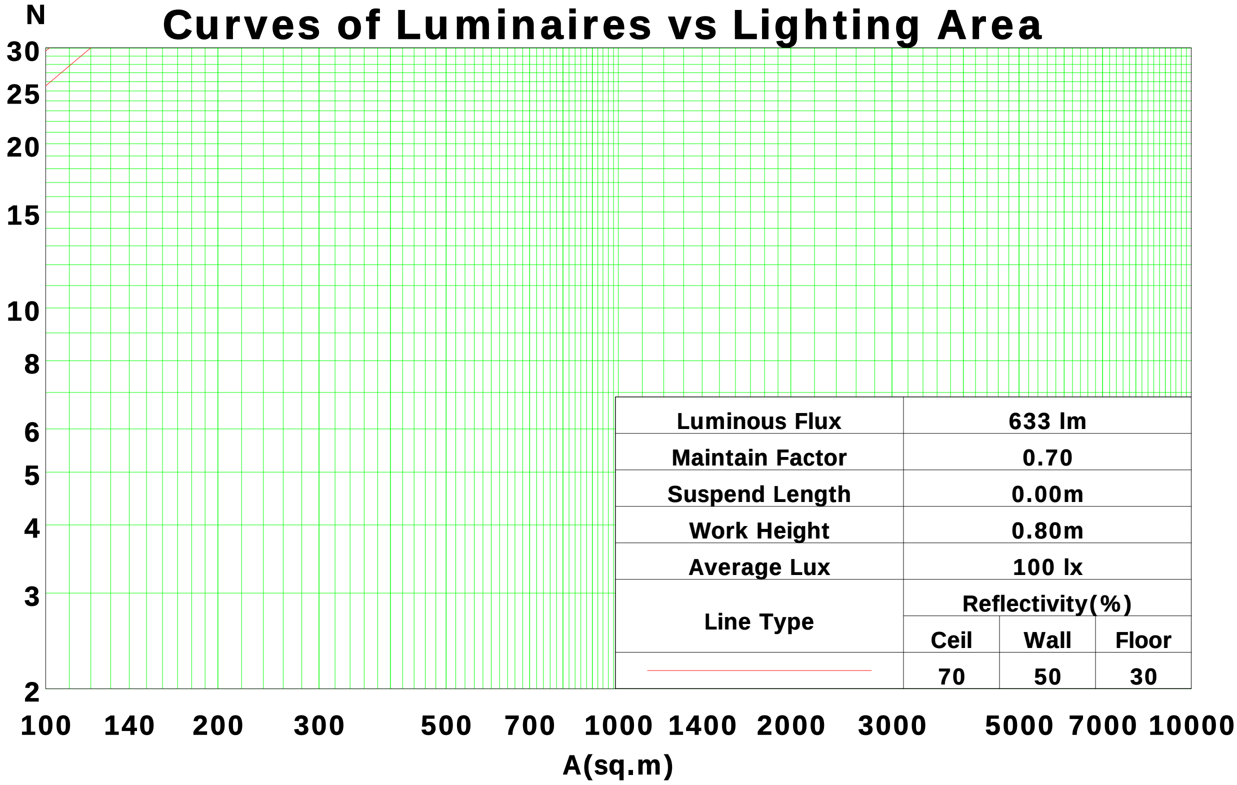
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	105	100	95	91	102	97	93	88	91	88	84	86	83	81	82	79	77	74
2	95	86	78	72	92	84	77	71	79	73	68	75	70	66	71	67	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	62	57	53	50
4	79	66	57	49	76	64	55	49	61	53	47	58	51	46	55	49	45	42
5	72	59	49	42	69	57	48	42	54	46	41	51	45	40	49	43	38	36
6	66	53	43	37	64	51	42	36	49	41	35	46	40	34	44	38	34	31
7	62	47	38	32	59	46	38	32	44	37	31	42	35	30	40	34	30	28
8	57	43	34	28	55	42	34	28	40	33	28	39	32	27	37	31	26	24
9	53	40	31	25	52	39	31	25	37	30	25	36	29	24	34	28	24	22
10	50	36	28	23	48	36	28	23	34	27	22	33	26	22	32	26	22	20

Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.32
Spacing Criteria (Diagonal): 1.42

Curves of Luminaires vs Lighting Area

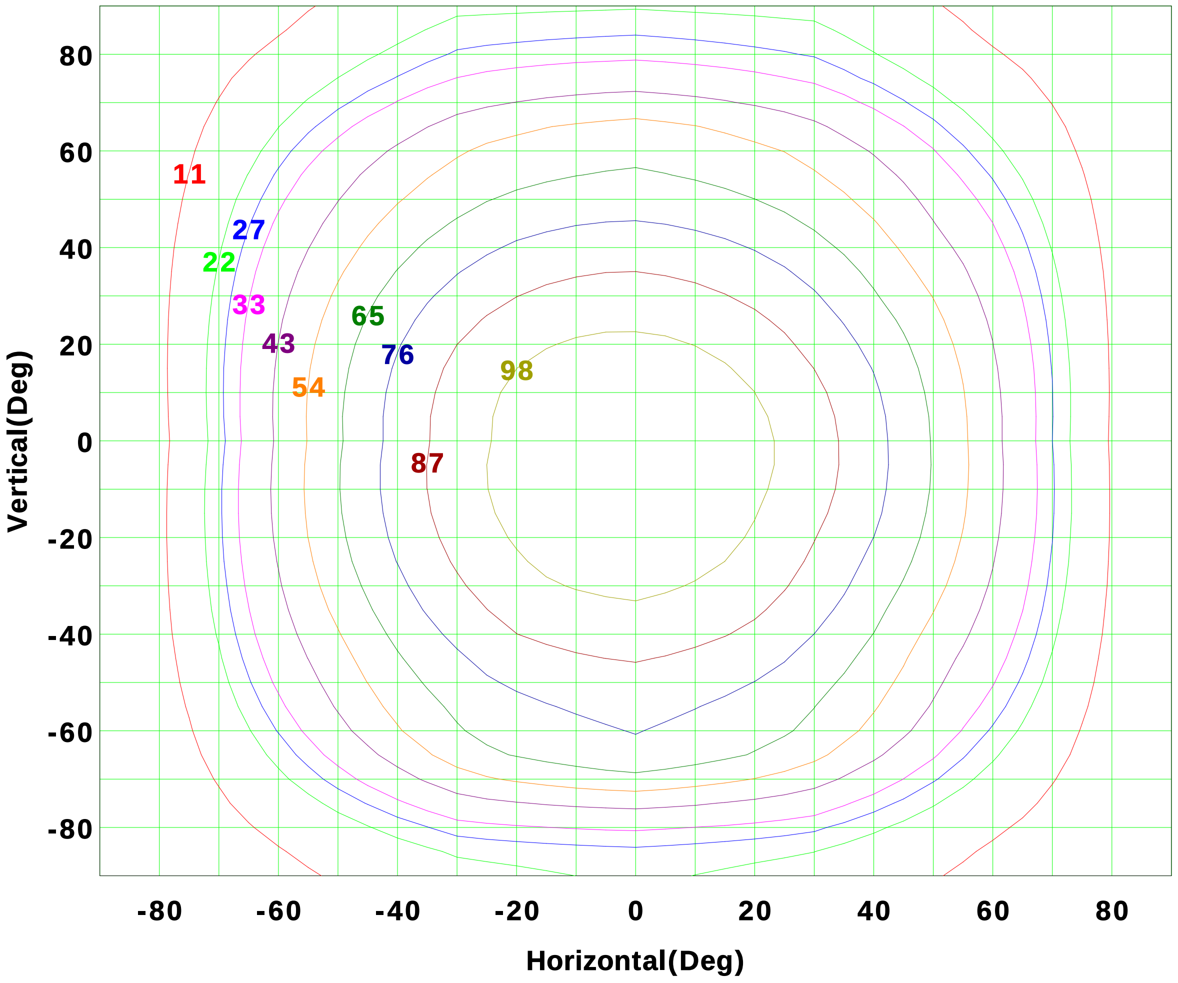


Luminous Flux	633 lm		
Maintain Factor	0.70		
Suspend Length	0.00m		
Work Height	0.80m		
Average Lux	100 lx		
Line Type	Reflectivity(%)		
	Ceil	Wall	Floor
—	70	50	30

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)



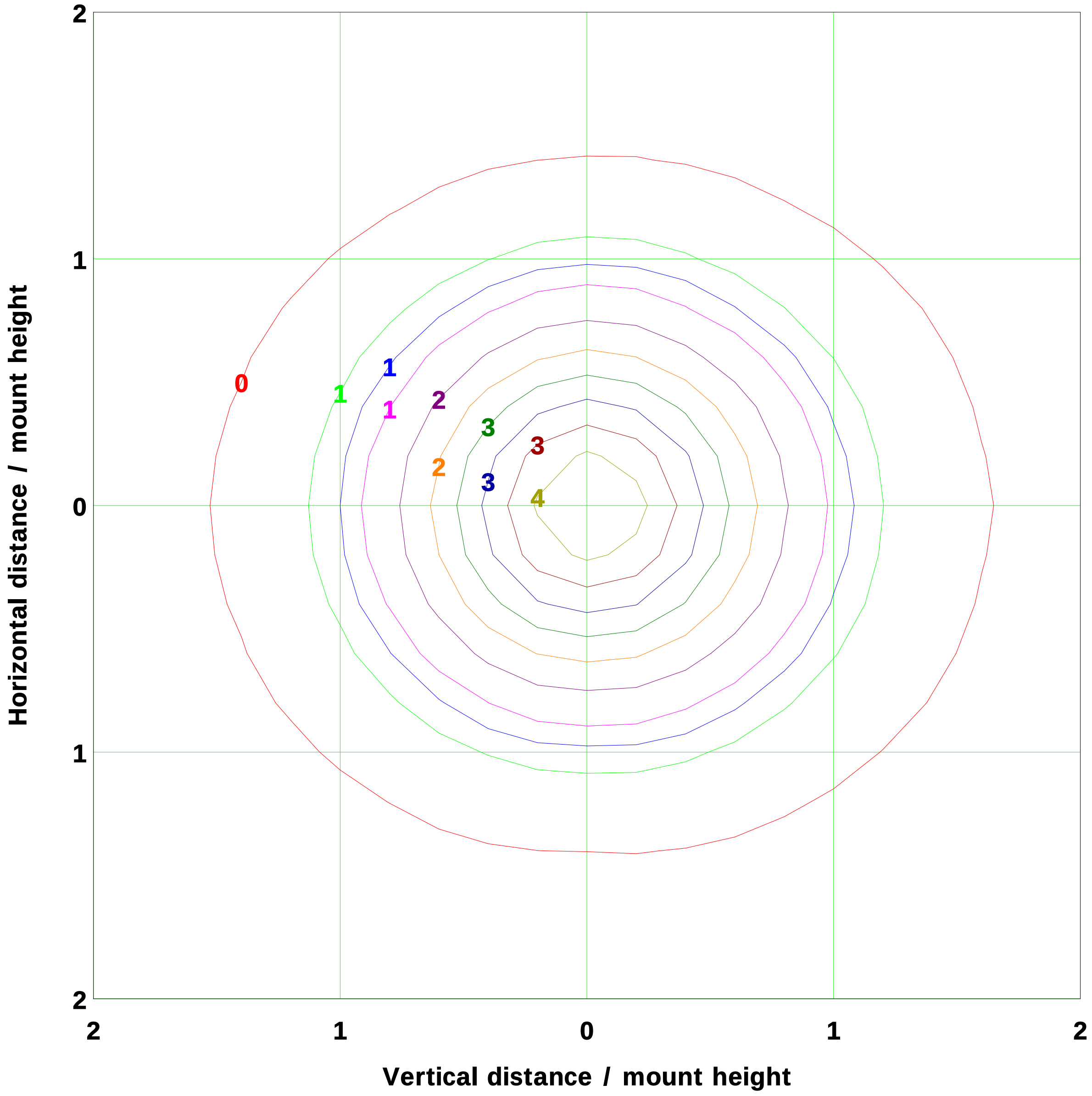
Imax (100%): 109 cd

—	(10%):	11 cd	—	(20%):	22 cd
—	(25%):	27 cd	—	(30%):	33 cd
—	(40%):	43 cd	—	(50%):	54 cd
—	(60%):	65 cd	—	(70%):	76 cd
—	(80%):	87 cd	—	(90%):	98 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%): 4.3 lx

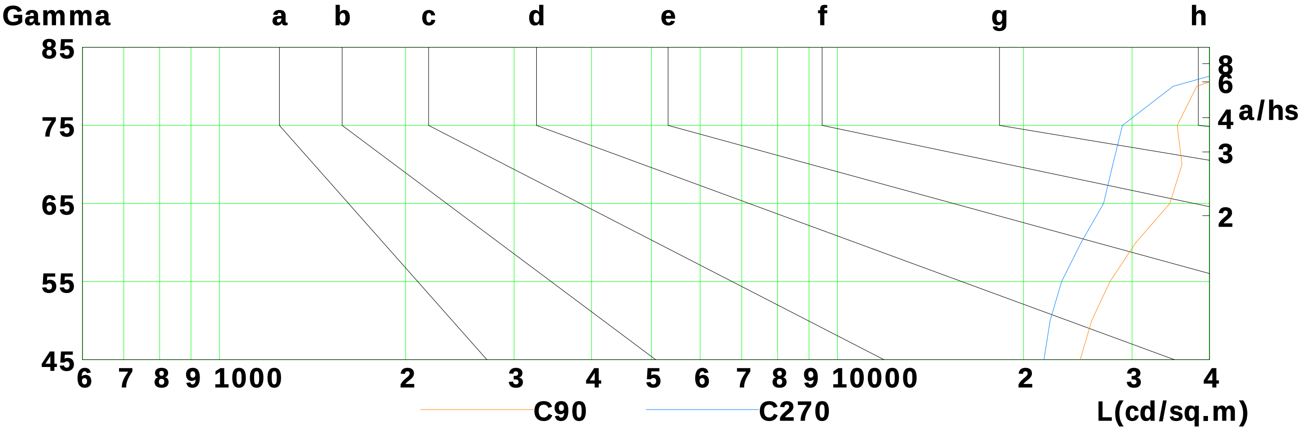
🟥	(10%):	0.4 lx	🟩	(20%):	0.9 lx
🟦	(25%):	1.1 lx	🟪	(30%):	1.3 lx
🟪	(40%):	1.7 lx	🟧	(50%):	2.2 lx
🟩	(60%):	2.6 lx	🟦	(70%):	3.0 lx
🟥	(80%):	3.5 lx	🟨	(90%):	3.9 lx

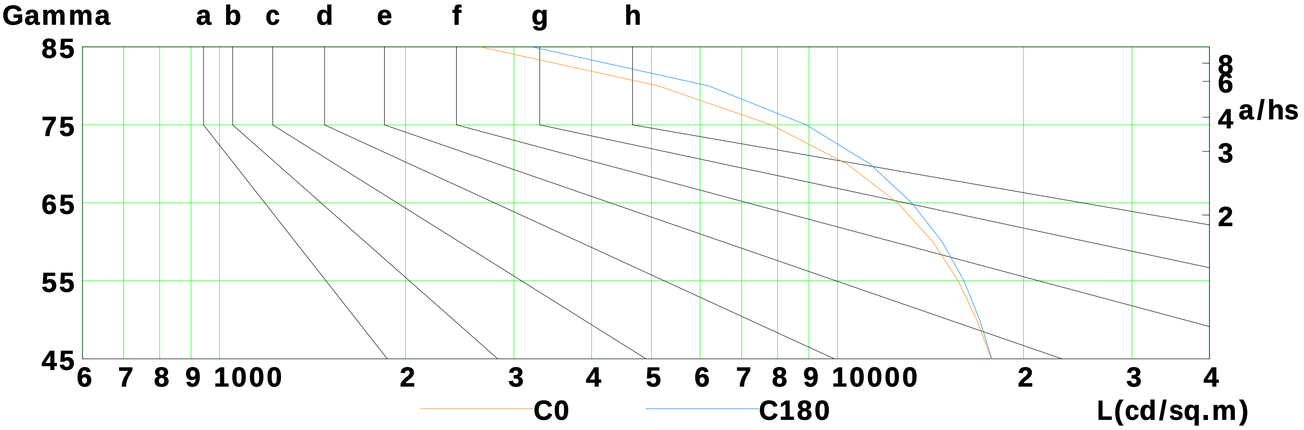
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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



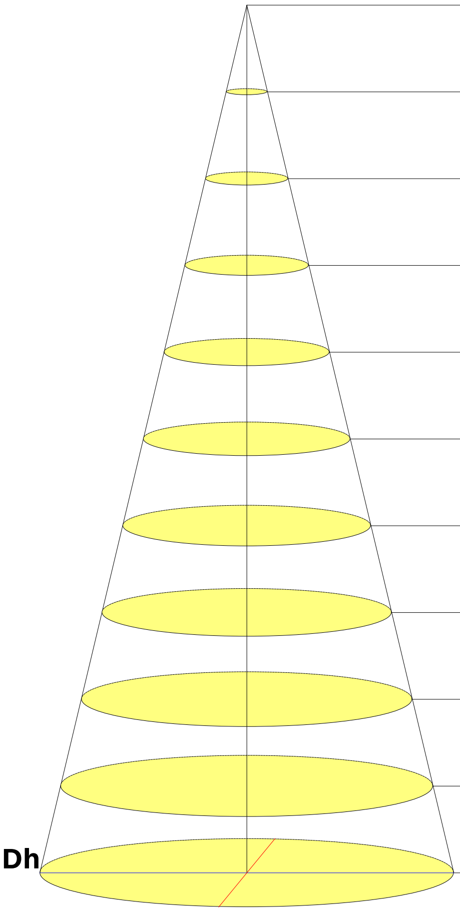


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	17731	16812	15682	14278	12514	10353	7813	5128	2638
C90	24709	25786	27603	30422	34509	36110	35473	38153	57308
C180	17775	16999	16021	14777	13191	11280	8902	6186	3204
C270	21598	22090	23051	24795	26957	27903	28947	34915	58085

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

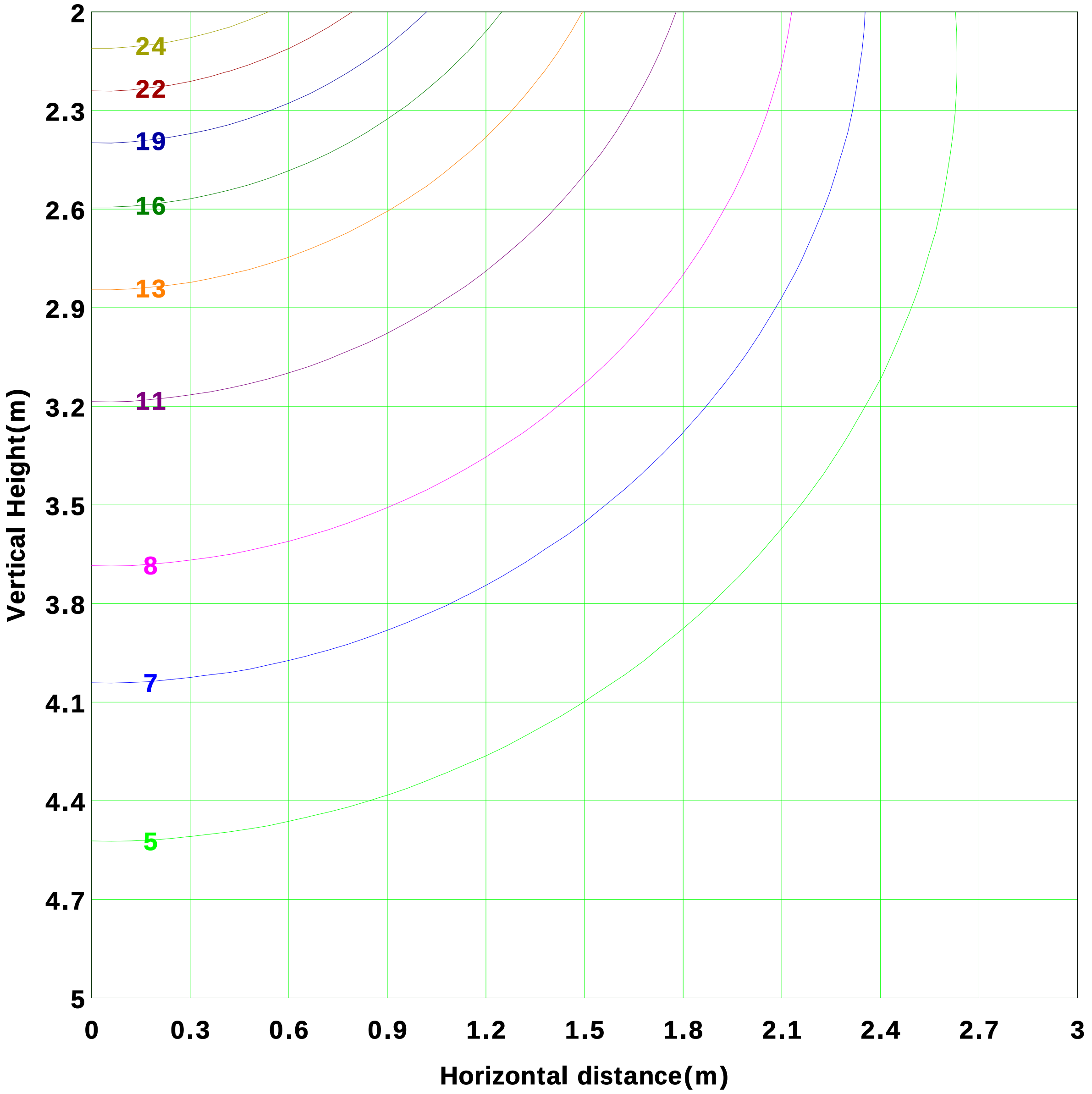


Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	107.86	2.93/5.43	14.3	10.52
2.0	26.97	5.86/10.86	57.2	2.63
3.0	11.98	8.78/16.28	128.6	1.17
4.0	6.74	11.71/21.71	228.6	0.66
5.0	4.31	14.64/27.14	357.2	0.42
6.0	3.00	17.57/32.57	514.4	0.29
7.0	2.20	20.50/38.00	700.1	0.21
8.0	1.69	23.43/43.42	914.4	0.16
9.0	1.33	26.35/48.85	1157.3	0.13
10.0	1.08	29.28/54.28	1428.8	0.11

Beam Angle(B): H111.3 V139.5 Field Angle(F): H157.6 V217.5

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:

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 27.0 lx

(10%): 2.7 lx
(20%): 5.4 lx
(25%): 6.7 lx
(30%): 8.1 lx
(40%): 10.8 lx
(50%): 13.5 lx
(60%): 16.2 lx
(70%): 18.9 lx
(80%): 21.6 lx
(90%): 24.3 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:

Area Flux Table

Unit: lm

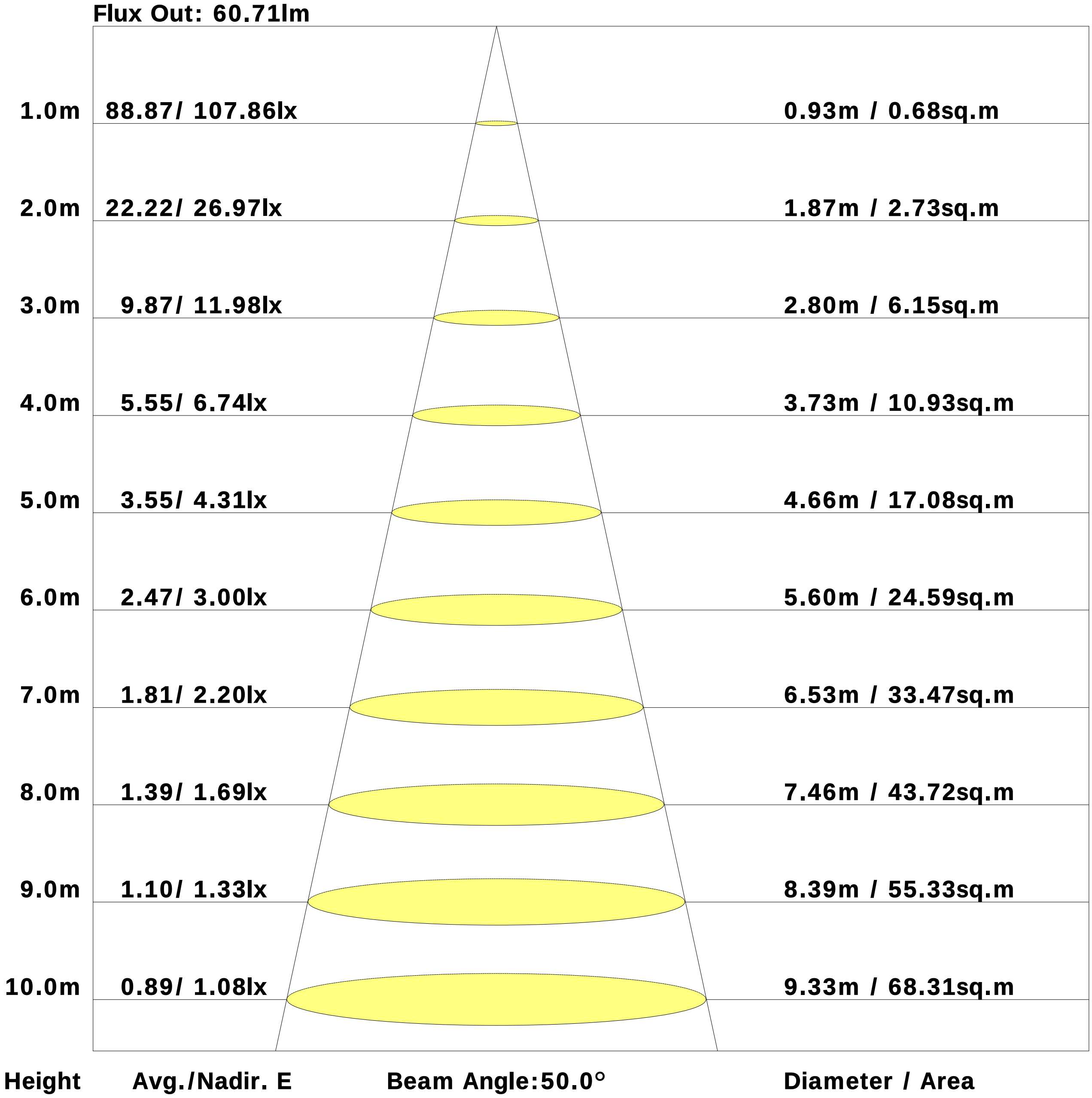
Vertical plane / Horizontal plane

	-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	0.1	0.2	0.4	0.5	0.7	0.7	0.8	0.8	0.7	0.7	0.5	0.4	0.2	0.1	0.0	0.0	6.9	6.5
-80	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.1	1.1	1.2	1.1	1.0	0.8	0.5	0.3	0.2	0.1	0.0	9.9	9.7
-70	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.7	1.7	1.6	1.4	1.1	0.8	0.5	0.2	0.1	0.0	14.2	14.1
-60	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.8	2.0	2.0	1.9	1.7	1.3	1.0	0.6	0.3	0.1	0.0	17.4	17.3
-50	0.0	0.1	0.3	0.7	1.1	1.5	1.9	2.1	2.3	2.3	2.2	1.9	1.5	1.1	0.7	0.3	0.1	0.0	20.2	20.2
-40	0.0	0.1	0.4	0.8	1.2	1.7	2.1	2.4	2.6	2.6	2.5	2.2	1.8	1.3	0.8	0.4	0.1	0.0	23.0	23.0
-30	0.0	0.1	0.4	0.9	1.4	1.9	2.3	2.7	2.9	2.9	2.7	2.4	2.0	1.4	0.9	0.4	0.1	0.0	25.5	25.4
-20	0.0	0.1	0.5	0.9	1.5	2.0	2.5	2.9	3.1	3.1	2.9	2.6	2.1	1.5	0.9	0.5	0.1	0.0	27.3	27.3
-10	0.0	0.2	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.7	2.1	1.6	1.0	0.5	0.1	0.0	28.4	28.3
0	0.0	0.2	0.5	1.0	1.6	2.1	2.7	3.0	3.3	3.3	3.1	2.7	2.2	1.6	1.0	0.5	0.1	0.0	28.6	28.6
10	0.0	0.2	0.5	1.0	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.7	2.1	1.6	1.0	0.5	0.1	0.0	28.2	28.2
20	0.0	0.1	0.5	0.9	1.4	2.0	2.5	2.9	3.1	3.1	2.9	2.6	2.1	1.5	0.9	0.5	0.1	0.0	27.0	27.0
30	0.0	0.1	0.4	0.8	1.3	1.8	2.3	2.7	2.9	2.9	2.7	2.4	1.9	1.4	0.9	0.4	0.1	0.0	25.2	25.1
40	0.0	0.1	0.4	0.7	1.2	1.7	2.1	2.4	2.6	2.6	2.5	2.2	1.7	1.2	0.8	0.4	0.1	0.0	22.8	22.7
50	0.0	0.1	0.3	0.6	1.1	1.5	1.9	2.2	2.4	2.4	2.2	2.0	1.6	1.1	0.7	0.3	0.1	0.0	20.4	20.3
60	0.0	0.1	0.2	0.5	0.8	1.3	1.7	1.9	2.1	2.1	2.0	1.7	1.3	0.9	0.5	0.2	0.1	0.0	17.5	17.4
70	0.0	0.1	0.2	0.3	0.6	0.8	1.1	1.3	1.4	1.4	1.3	1.1	0.9	0.6	0.4	0.2	0.1	0.0	11.7	11.5
80	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.8	0.7	0.7	0.5	0.4	0.2	0.1	0.0	0.0	6.9	6.5
90 Flux(T)	0.2	1.9	5.9	11.8	19.0	26.6	33.4	38.4	41.4	41.6	39.1	34.3	27.5	19.7	12.1	5.9	1.8	0.2	361	
Flux(E)	0.0	1.5	5.6	11.7	19.0	26.6	33.4	38.4	41.4	41.6	39.1	34.3	27.5	19.7	12.1	5.7	1.4	0.0		359

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	24.8	26.4	25.2	26.8	27.3	26.5	28.1	27.0	28.5	29.0
3H	26.4	27.9	26.9	28.3	28.8	29.2	30.7	29.7	31.1	31.6
4H	27.0	28.3	27.5	28.8	29.3	30.2	31.5	30.7	32.0	32.5
6H	27.3	28.6	27.8	29.1	29.6	30.9	32.2	31.4	32.7	33.2
8H	27.4	28.6	27.9	29.1	29.7	31.2	32.4	31.7	32.9	33.5
12H	27.5	28.6	28.0	29.1	29.7	31.5	32.7	32.0	33.2	33.8
X=4H Y=2H	25.7	27.1	26.2	27.6	28.1	27.1	28.5	27.6	28.9	29.5
3H	27.7	28.8	28.2	29.3	29.9	30.1	31.2	30.6	31.8	32.3
4H	28.4	29.4	28.9	30.0	30.5	31.2	32.2	31.7	32.8	33.3
6H	28.9	29.8	29.4	30.4	31.0	32.1	33.0	32.6	33.6	34.2
8H	29.0	29.9	29.6	30.4	31.1	32.5	33.3	33.0	33.9	34.5
12H	29.1	29.9	29.7	30.5	31.1	32.9	33.6	33.4	34.2	34.8
X=8H Y=4H	29.0	29.9	29.6	30.5	31.1	31.5	32.3	32.0	32.9	33.5
6H	29.7	30.5	30.3	31.1	31.7	32.5	33.3	33.1	33.9	34.5
8H	30.0	30.7	30.6	31.3	31.9	33.1	33.7	33.7	34.3	35.0
12H	30.2	30.8	30.8	31.4	32.1	33.6	34.2	34.2	34.8	35.5
X=12H Y=4H	29.2	30.0	29.7	30.5	31.2	31.5	32.3	32.1	32.9	33.5
6H	30.0	30.6	30.6	31.2	31.9	32.6	33.3	33.2	33.9	34.5
8H	30.3	30.9	30.9	31.5	32.2	33.2	33.8	33.8	34.4	35.1

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	0.70	0.75	0.82	0.87	0.91	0.96	0.99
	0.30		0.46	0.54	0.62	0.67	0.75	0.81	0.85	0.91	0.95
	0.20		0.41	0.48	0.56	0.62	0.70	0.76	0.80	0.87	0.91
0.50	0.50	0.20	0.52	0.59	0.66	0.71	0.78	0.83	0.86	0.90	0.93
	0.30		0.45	0.52	0.60	0.65	0.72	0.78	0.81	0.86	0.90
	0.20		0.40	0.47	0.54	0.60	0.68	0.73	0.77	0.83	0.87
0.30	0.50	0.20	0.50	0.57	0.63	0.68	0.74	0.78	0.81	0.86	0.88
	0.30		0.44	0.51	0.58	0.63	0.69	0.74	0.78	0.82	0.86
	0.20		0.39	0.46	0.53	0.58	0.65	0.71	0.74	0.80	0.83
0.00	0.00	0.00	0.36	0.43	0.49	0.54	0.61	0.66	0.69	0.74	0.77

Rating:5W 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
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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	1.00	0.86	0.74	0.65	0.53	0.44	0.38	0.30	0.25
	0.30		0.83	0.74	0.64	0.57	0.48	0.41	0.36	0.29	0.24
	0.20		0.71	0.64	0.57	0.51	0.43	0.38	0.33	0.27	0.23
0.50	0.50	0.20	0.95	0.82	0.70	0.61	0.50	0.45	0.36	0.29	0.24
	0.30		0.80	0.71	0.62	0.55	0.46	0.39	0.34	0.27	0.23
	0.20		0.70	0.63	0.55	0.50	0.42	0.36	0.32	0.26	0.22
0.30	0.50	0.20	0.91	0.78	0.66	0.58	0.47	0.40	0.34	0.27	0.23
	0.30		0.78	0.68	0.59	0.53	0.44	0.37	0.32	0.26	0.22
	0.20		0.68	0.61	0.54	0.48	0.41	0.35	0.31	0.25	0.21
0.00	0.00	0.00	0.57	0.51	0.44	0.40	0.33	0.28	0.25	0.20	0.17

Rating:5W 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	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.28	0.28
	0.30		0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
	0.20		0.11	0.12	0.14	0.15	0.17	0.18	0.20	0.21	0.22
0.50	0.50	0.20	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27
	0.30		0.15	0.17	0.18	0.19	0.21	0.22	0.22	0.24	0.24
	0.20		0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22
0.30	0.50	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26
	0.30		0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23
	0.20		0.11	0.12	0.13	0.14	0.16	0.18	0.19	0.20	0.21
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

Rating:5W 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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	108.1	0.1	0.1	0.03	0.03
1.0-2.0	108.1	0.3	0.4	0.08	0.11
2.0-3.0	108.0	0.5	0.9	0.13	0.24
3.0-4.0	107.9	0.7	1.7	0.19	0.43
4.0-5.0	107.8	0.9	2.6	0.24	0.67
5.0-6.0	107.6	1.1	3.7	0.29	0.96
6.0-7.0	107.5	1.3	5.0	0.35	1.31
7.0-8.0	107.2	1.5	6.6	0.40	1.70
8.0-9.0	107.0	1.7	8.3	0.45	2.15
9.0-10.0	106.7	1.9	10.2	0.50	2.65
10.0-11.0	106.4	2.1	12.4	0.55	3.20
11.0-12.0	106.0	2.3	14.7	0.60	3.80
12.0-13.0	105.6	2.5	17.2	0.65	4.45
13.0-14.0	105.2	2.7	19.9	0.70	5.15
14.0-15.0	104.7	2.9	22.8	0.74	5.90
15.0-16.0	104.3	3.1	25.8	0.79	6.69
16.0-17.0	103.7	3.2	29.1	0.84	7.52
17.0-18.0	103.2	3.4	32.5	0.88	8.40
18.0-19.0	102.6	3.6	36.0	0.92	9.33
19.0-20.0	102.0	3.7	39.8	0.97	10.30
20.0-21.0	101.3	3.9	43.6	1.01	11.30
21.0-22.0	100.7	4.0	47.7	1.05	12.35
22.0-23.0	100.0	4.2	51.9	1.09	13.44
23.0-24.0	99.2	4.3	56.2	1.12	14.56
24.0-25.0	98.5	4.5	60.7	1.16	15.72
25.0-26.0	97.7	4.6	65.3	1.19	16.92
26.0-27.0	96.9	4.7	70.1	1.23	18.14
27.0-28.0	96.0	4.9	74.9	1.26	19.40
28.0-29.0	95.1	5.0	79.9	1.29	20.69
29.0-30.0	94.2	5.1	85.0	1.32	22.01
30.0-31.0	93.3	5.2	90.2	1.35	23.36
31.0-32.0	92.4	5.3	95.5	1.37	24.73
32.0-33.0	91.4	5.4	100.9	1.40	26.12
33.0-34.0	90.4	5.5	106.3	1.42	27.54
34.0-35.0	89.4	5.6	111.9	1.44	28.98
35.0-36.0	88.3	5.6	117.5	1.46	30.44

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	87.3	5.7	123.2	1.47	31.91
37.0-38.0	86.2	5.8	129.0	1.49	33.40
38.0-39.0	85.1	5.8	134.8	1.50	34.90
39.0-40.0	83.9	5.9	140.6	1.52	36.42
40.0-41.0	82.8	5.9	146.5	1.53	37.95
41.0-42.0	81.6	5.9	152.5	1.54	39.48
42.0-43.0	80.4	6.0	158.4	1.54	41.03
43.0-44.0	79.1	6.0	164.4	1.55	42.57
44.0-45.0	77.9	6.0	170.4	1.55	44.12
45.0-46.0	76.6	6.0	176.4	1.55	45.68
46.0-47.0	75.3	6.0	182.4	1.55	47.23
47.0-48.0	74.0	6.0	188.3	1.55	48.78
48.0-49.0	72.7	6.0	194.3	1.55	50.32
49.0-50.0	71.4	6.0	200.3	1.54	51.86
50.0-51.0	70.0	5.9	206.2	1.53	53.40
51.0-52.0	68.7	5.9	212.1	1.53	54.93
52.0-53.0	67.4	5.9	217.9	1.52	56.44
53.0-54.0	66.1	5.8	223.8	1.51	57.95
54.0-55.0	64.7	5.8	229.5	1.50	59.45
55.0-56.0	63.4	5.7	235.3	1.48	60.93
56.0-57.0	62.1	5.7	241.0	1.47	62.40
57.0-58.0	60.8	5.6	246.6	1.46	63.86
58.0-59.0	59.5	5.6	252.1	1.44	65.30
59.0-60.0	58.2	5.5	257.6	1.42	66.73
60.0-61.0	56.9	5.4	263.1	1.41	68.13
61.0-62.0	55.7	5.4	268.4	1.39	69.52
62.0-63.0	54.4	5.3	273.7	1.37	70.89
63.0-64.0	53.1	5.2	278.9	1.35	72.24
64.0-65.0	51.7	5.1	284.1	1.33	73.57
65.0-66.0	50.3	5.0	289.1	1.30	74.87
66.0-67.0	48.7	4.9	294.0	1.27	76.14
67.0-68.0	47.1	4.8	298.8	1.24	77.37
68.0-69.0	45.3	4.6	303.4	1.20	78.57
69.0-70.0	43.3	4.5	307.8	1.15	79.72
70.0-71.0	41.4	4.3	312.1	1.11	80.83
71.0-72.0	39.3	4.1	316.2	1.06	81.89

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:

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	37.3	3.9	320.1	1.01	82.90
73.0-74.0	35.2	3.7	323.8	0.96	83.86
74.0-75.0	33.2	3.5	327.3	0.91	84.77
75.0-76.0	31.3	3.3	330.6	0.86	85.63
76.0-77.0	29.4	3.1	333.8	0.81	86.44
77.0-78.0	27.6	3.0	336.7	0.76	87.20
78.0-79.0	25.8	2.8	339.5	0.72	87.92
79.0-80.0	24.2	2.6	342.1	0.68	88.60
80.0-81.0	22.7	2.5	344.6	0.64	89.23
81.0-82.0	21.3	2.3	346.9	0.60	89.83
82.0-83.0	20.0	2.2	349.0	0.56	90.39
83.0-84.0	18.7	2.0	351.1	0.53	90.92
84.0-85.0	17.6	1.9	353.0	0.50	91.42
85.0-86.0	16.5	1.8	354.8	0.47	91.88
86.0-87.0	15.5	1.7	356.5	0.44	92.32
87.0-88.0	14.6	1.6	358.1	0.41	92.74
88.0-89.0	13.8	1.5	359.6	0.39	93.13
89.0-90.0	13.1	1.4	361.0	0.37	93.50
90.0-91.0	12.5	1.4	362.4	0.36	93.85
91.0-92.0	12.1	1.3	363.7	0.34	94.20
92.0-93.0	11.7	1.3	365.0	0.33	94.53
93.0-94.0	11.4	1.2	366.3	0.32	94.85
94.0-95.0	11.1	1.2	367.5	0.31	95.17
95.0-96.0	10.8	1.2	368.6	0.31	95.47
96.0-97.0	10.5	1.1	369.8	0.30	95.77
97.0-98.0	10.1	1.1	370.9	0.28	96.05
98.0-99.0	9.7	1.1	371.9	0.27	96.33
99.0-100.0	9.3	1.0	372.9	0.26	96.59
100.0-101.0	8.8	0.9	373.9	0.24	96.83
101.0-102.0	8.2	0.9	374.8	0.23	97.06
102.0-103.0	7.6	0.8	375.6	0.21	97.27
103.0-104.0	7.0	0.8	376.3	0.19	97.46
104.0-105.0	6.5	0.7	377.0	0.18	97.64
105.0-106.0	6.1	0.6	377.7	0.17	97.81
106.0-107.0	5.6	0.6	378.3	0.15	97.96
107.0-108.0	5.3	0.5	378.8	0.14	98.10

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	4.9	0.5	379.3	0.13	98.24
109.0-110.0	4.5	0.5	379.8	0.12	98.36
110.0-111.0	4.2	0.4	380.2	0.11	98.47
111.0-112.0	3.9	0.4	380.6	0.10	98.57
112.0-113.0	3.6	0.4	381.0	0.09	98.67
113.0-114.0	3.3	0.3	381.3	0.09	98.75
114.0-115.0	3.0	0.3	381.6	0.08	98.83
115.0-116.0	2.8	0.3	381.9	0.07	98.90
116.0-117.0	2.5	0.2	382.1	0.06	98.97
117.0-118.0	2.3	0.2	382.4	0.06	99.02
118.0-119.0	2.1	0.2	382.6	0.05	99.08
119.0-120.0	2.0	0.2	382.7	0.05	99.13
120.0-121.0	1.8	0.2	382.9	0.04	99.17
121.0-122.0	1.7	0.2	383.1	0.04	99.21
122.0-123.0	1.6	0.1	383.2	0.04	99.25
123.0-124.0	1.5	0.1	383.4	0.04	99.29
124.0-125.0	1.4	0.1	383.5	0.03	99.32
125.0-126.0	1.4	0.1	383.6	0.03	99.35
126.0-127.0	1.3	0.1	383.7	0.03	99.38
127.0-128.0	1.3	0.1	383.8	0.03	99.41
128.0-129.0	1.2	0.1	383.9	0.03	99.44
129.0-130.0	1.2	0.1	384.0	0.03	99.46
130.0-131.0	1.1	0.1	384.1	0.02	99.48
131.0-132.0	1.1	0.1	384.2	0.02	99.51
132.0-133.0	1.0	0.1	384.3	0.02	99.53
133.0-134.0	1.0	0.1	384.4	0.02	99.55
134.0-135.0	1.0	0.1	384.5	0.02	99.57
135.0-136.0	0.9	0.1	384.5	0.02	99.59
136.0-137.0	0.9	0.1	384.6	0.02	99.61
137.0-138.0	0.9	0.1	384.7	0.02	99.62
138.0-139.0	0.9	0.1	384.7	0.02	99.64
139.0-140.0	0.9	0.1	384.8	0.02	99.66
140.0-141.0	0.9	0.1	384.9	0.02	99.67
141.0-142.0	0.9	0.1	384.9	0.02	99.69
142.0-143.0	0.9	0.1	385.0	0.01	99.70
143.0-144.0	0.9	0.1	385.0	0.01	99.72

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	0.9	0.1	385.1	0.01	99.73
145.0-146.0	0.9	0.1	385.1	0.01	99.75
146.0-147.0	0.9	0.1	385.2	0.01	99.76
147.0-148.0	0.9	0.1	385.2	0.01	99.77
148.0-149.0	0.9	0.1	385.3	0.01	99.79
149.0-150.0	0.9	0.0	385.3	0.01	99.80
150.0-151.0	0.9	0.0	385.4	0.01	99.81
151.0-152.0	0.9	0.0	385.4	0.01	99.82
152.0-153.0	0.9	0.0	385.5	0.01	99.84
153.0-154.0	0.9	0.0	385.5	0.01	99.85
154.0-155.0	0.9	0.0	385.6	0.01	99.86
155.0-156.0	0.9	0.0	385.6	0.01	99.87
156.0-157.0	0.9	0.0	385.7	0.01	99.88
157.0-158.0	0.9	0.0	385.7	0.01	99.89
158.0-159.0	0.9	0.0	385.7	0.01	99.90
159.0-160.0	0.9	0.0	385.8	0.01	99.91
160.0-161.0	0.9	0.0	385.8	0.01	99.92
161.0-162.0	0.9	0.0	385.8	0.01	99.93
162.0-163.0	0.9	0.0	385.9	0.01	99.93
163.0-164.0	0.9	0.0	385.9	0.01	99.94
164.0-165.0	0.9	0.0	385.9	0.01	99.95
165.0-166.0	0.9	0.0	385.9	0.01	99.95
166.0-167.0	0.9	0.0	386.0	0.01	99.96
167.0-168.0	0.9	0.0	386.0	0.01	99.97
168.0-169.0	1.0	0.0	386.0	0.01	99.97
169.0-170.0	0.9	0.0	386.0	0.00	99.98
170.0-171.0	0.9	0.0	386.0	0.00	99.98
171.0-172.0	1.0	0.0	386.1	0.00	99.98
172.0-173.0	1.0	0.0	386.1	0.00	99.99
173.0-174.0	1.0	0.0	386.1	0.00	99.99
174.0-175.0	1.0	0.0	386.1	0.00	99.99
175.0-176.0	1.0	0.0	386.1	0.00	100.00
176.0-177.0	1.0	0.0	386.1	0.00	100.00
177.0-178.0	1.0	0.0	386.1	0.00	100.00
178.0-179.0	1.0	0.0	386.1	0.00	100.00
179.0-180.0	1.0	0.0	386.1	0.00	100.00

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: