

Report No.:

Test Time: 2021/11/17 10:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: COB RIBBONLYTE

Luminaire Description: RBOLINEA674.3VW-2700+6500

Lamp Catalog: FCOB-24V-D576-VW-14W-10MM-IP67 RA>80

Lamp Description: 2700+6500K

Number of Lamps: 576/M

Luminous Length (mm): 500

Luminous Width (mm): 10

Luminous Height (mm): 1.5

Voltage: 24.0 V

Current: 0.415 A

Power: 9.95 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 837.4 lm

Downward Ratio: 94%

Horizontal Diffuse Angle(10%,50%): H157.7,H111.7

Vertical Diffuse Angle(10%,50%): V218.1,V139.5

Luminaire Efficacy Rating (LER): 84

Max. Intensity: 234.59 cd

Total Rated Lamp Lumens: 837.4 lm

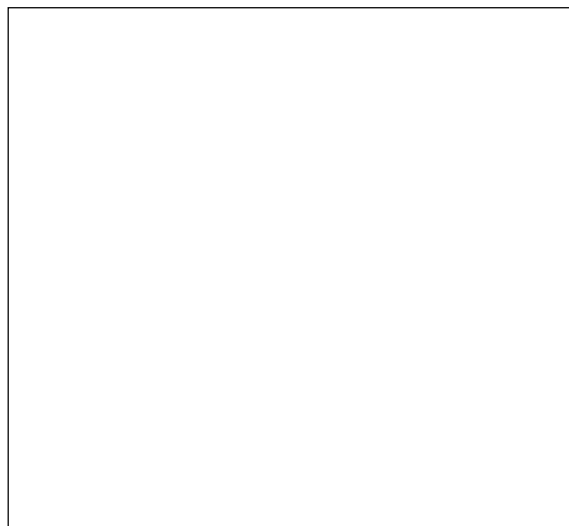
Efficiency: 100%

Upward Ratio: 6%

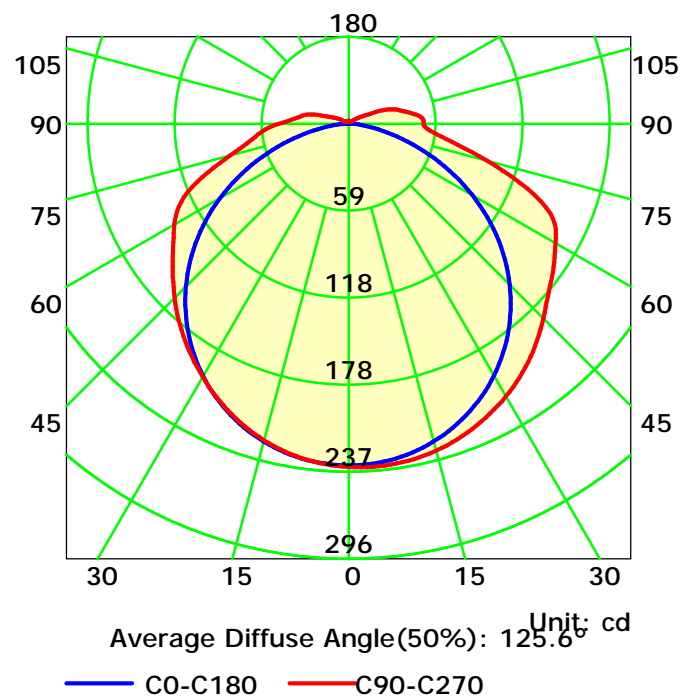
Central Intensity: 233.01 cd

Pos of Max. Intensity: H90 V3

Picture Of Luminaire



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

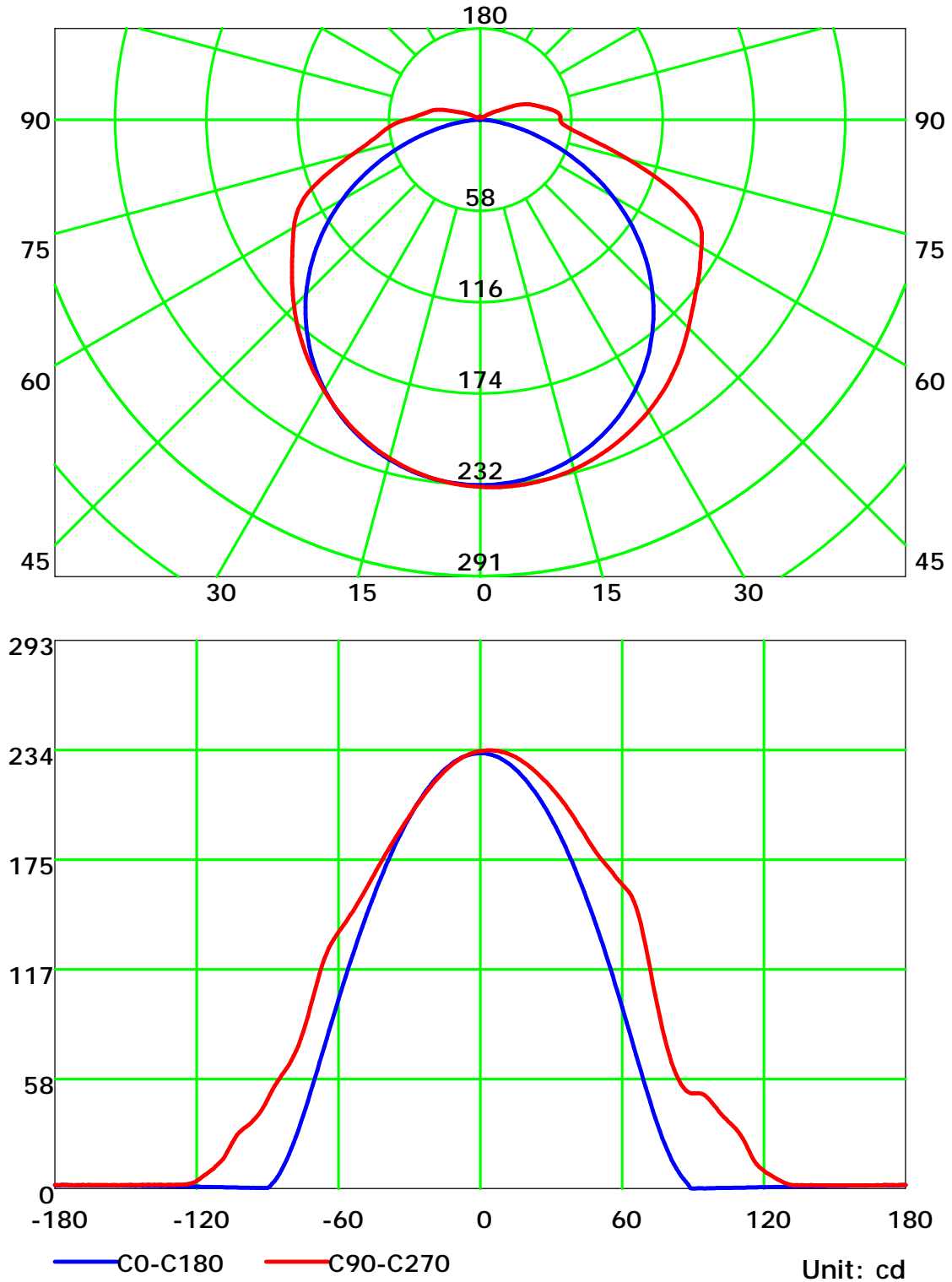
Distance: 9.028 m

Humidity: 60%

Inspector:



Luminous Intensity Distribution Curve

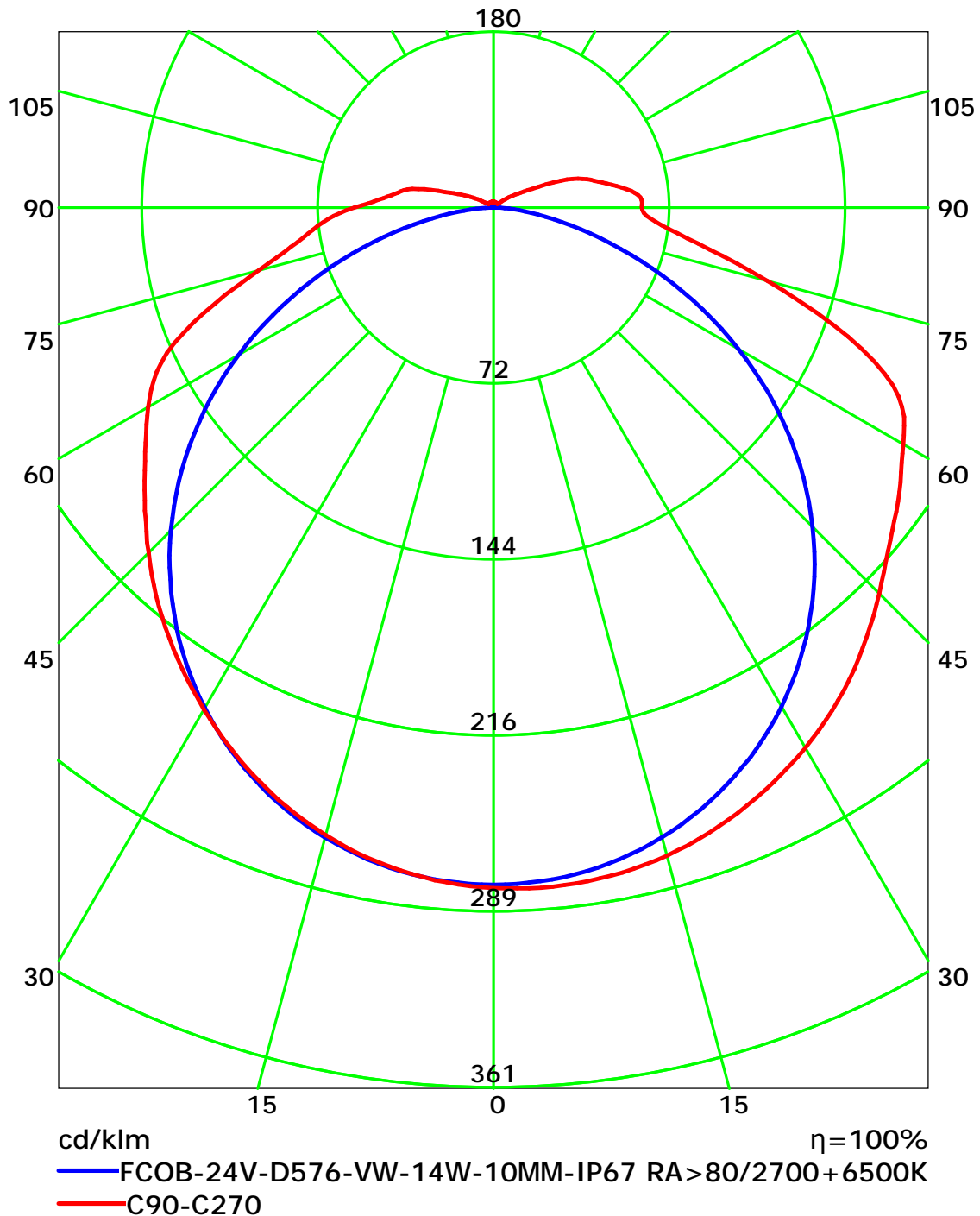


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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:

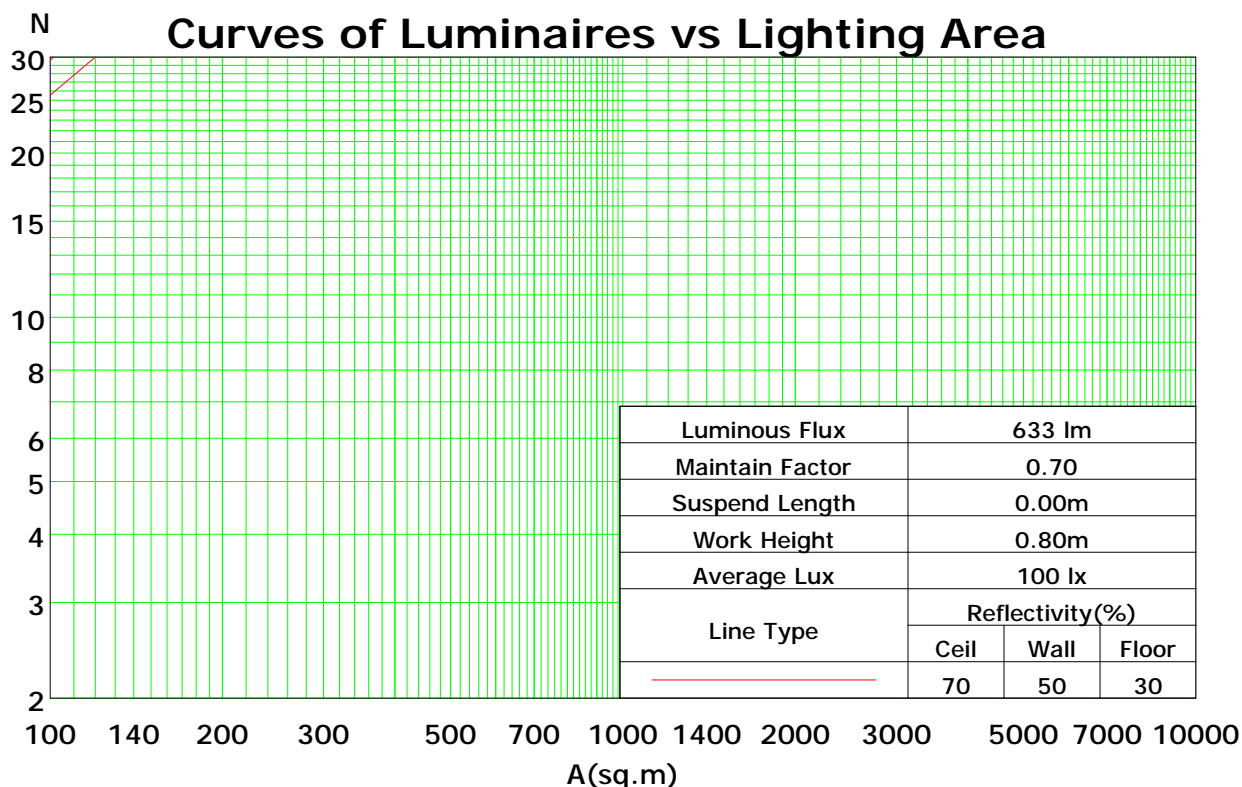
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	105	100	95	90	102	97	92	88	91	88	84	86	83	81	82	79	77	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	66	70	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	39	49	43	38	36
6	66	53	43	36	64	51	42	36	49	41	35	46	40	34	44	38	34	31
7	61	47	38	32	59	46	38	32	44	37	31	42	35	30	40	34	30	27
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): 1.27

Spacing Criteria (90-270): 1.32

Spacing Criteria (Diagonal): 1.43



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

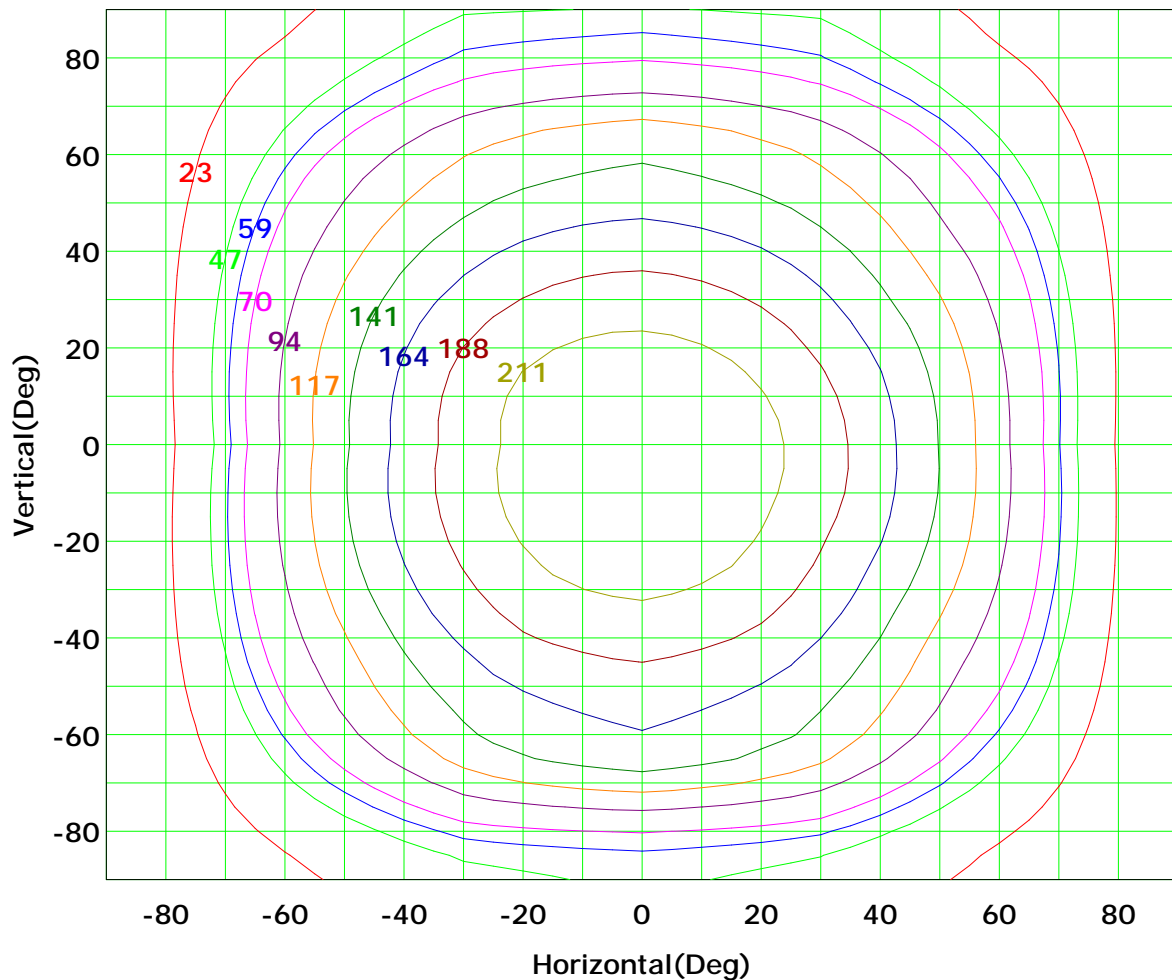
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



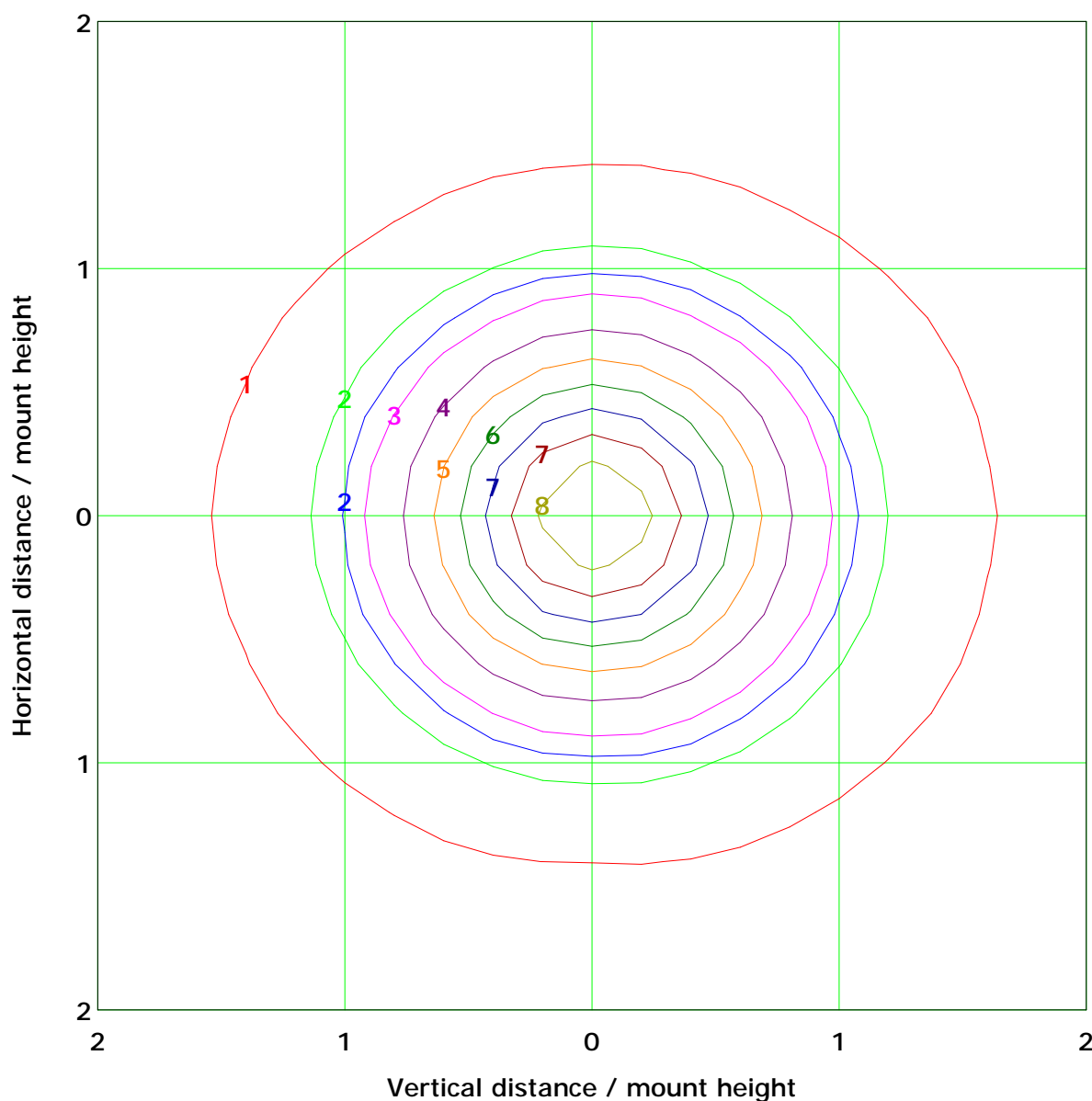
I_{max} (100%): 235 cd

(10%): 23 cd	(20%): 47 cd
(25%): 59 cd	(30%): 70 cd
(40%): 94 cd	(50%): 117 cd
(60%): 141 cd	(70%): 164 cd
(80%): 188 cd	(90%): 211 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%): 9.4 lx

(10%): 0.9 lx	(20%): 1.9 lx
(25%): 2.3 lx	(30%): 2.8 lx
(40%): 3.7 lx	(50%): 4.7 lx
(60%): 5.6 lx	(70%): 6.6 lx
(80%): 7.5 lx	(90%): 8.4 lx

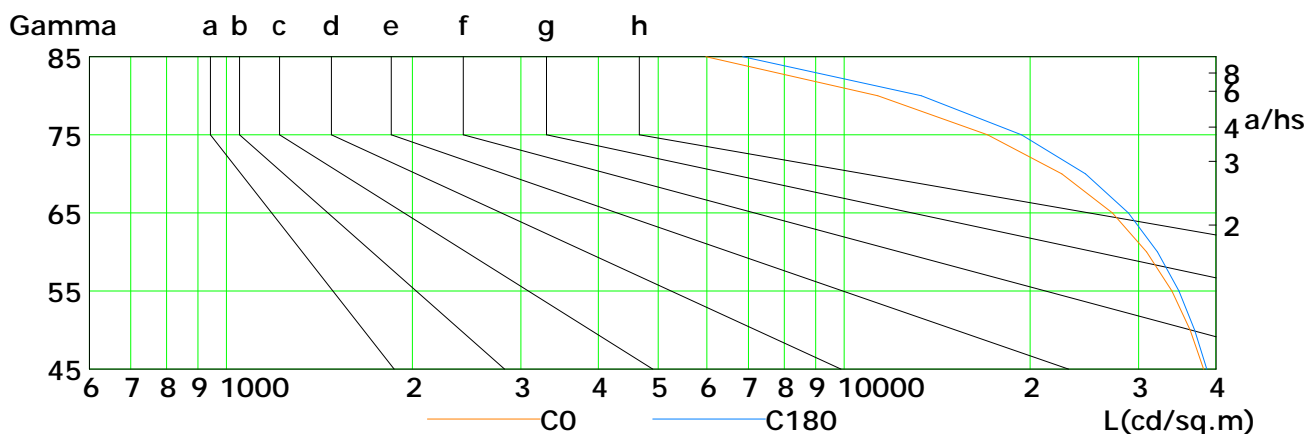
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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



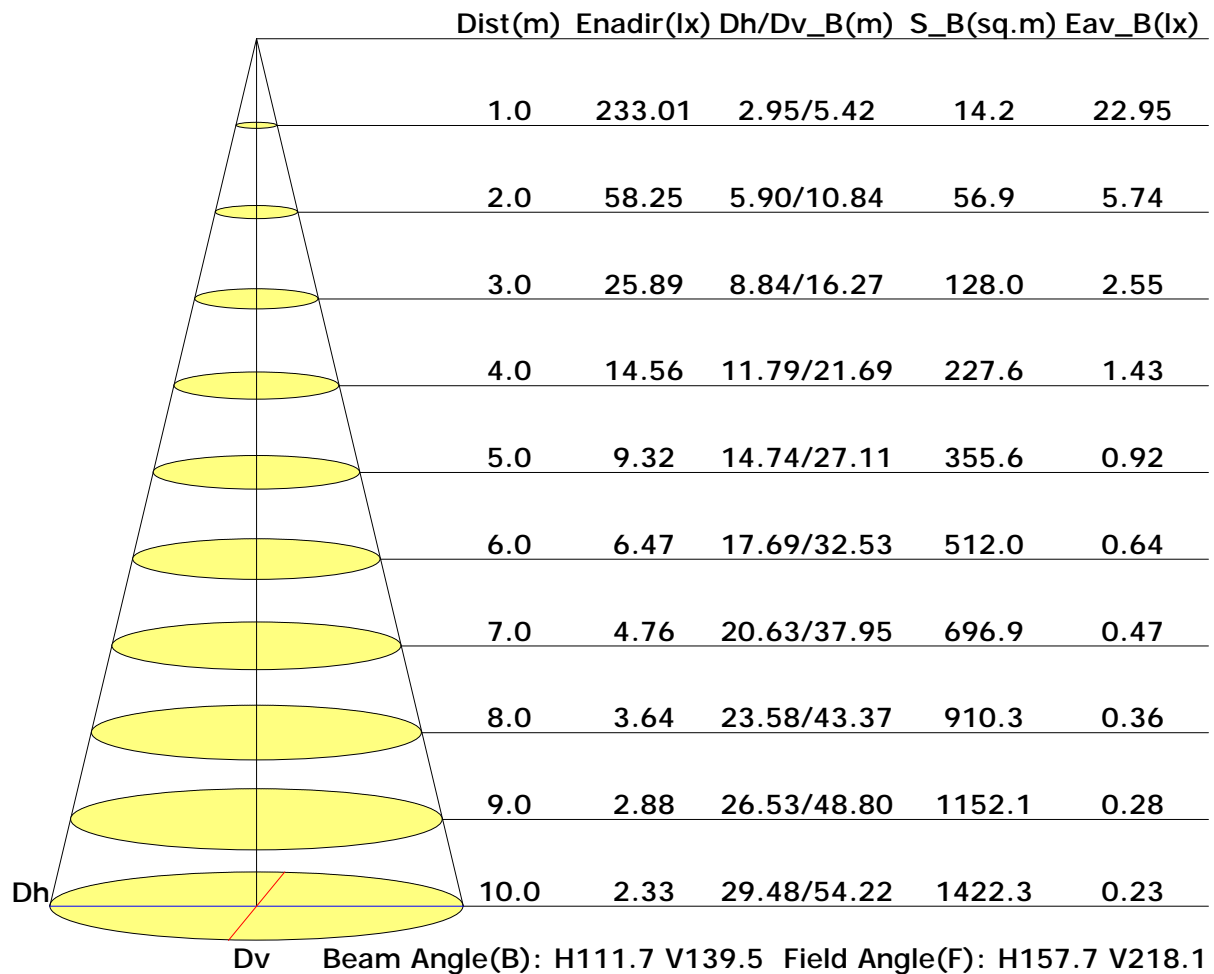
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	38206	36321	33938	30894	27191	22515	17082	11345	5977
C90	52973	55279	59247	64831	72343	75328	74668	81007	124290
C180	38649	36949	34871	32170	28849	24589	19380	13343	6856
C270	47378	48604	50872	54660	59327	61600	64085	77689	131079

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

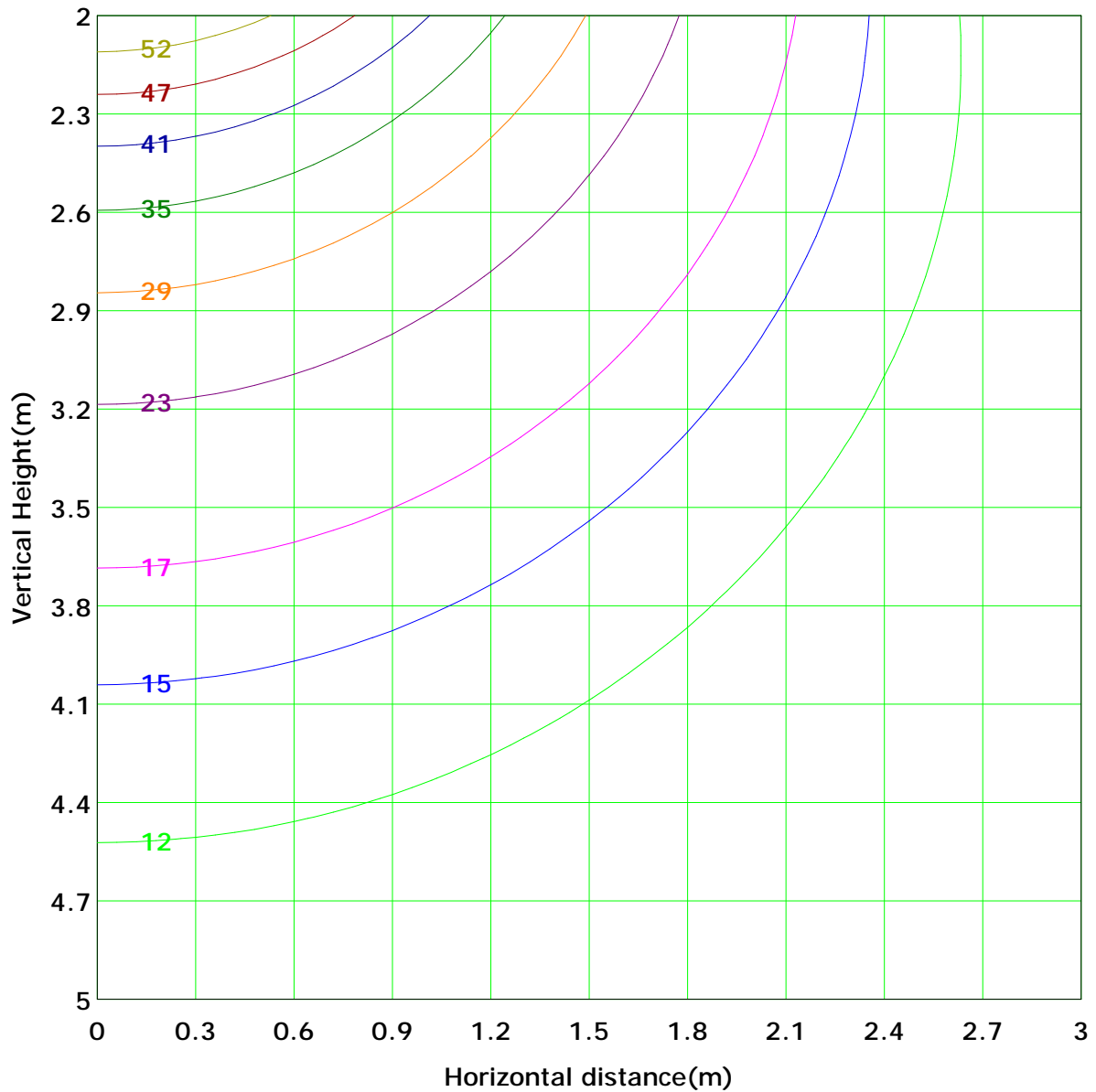
Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 58.3 lx
(10%): 5.8 lx	(20%): 11.7 lx	(30%): 17.5 lx
(25%): 14.6 lx	(40%): 23.3 lx	(50%): 29.1 lx
(60%): 35.0 lx	(70%): 40.8 lx	(80%): 46.6 lx
(90%): 52.4 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

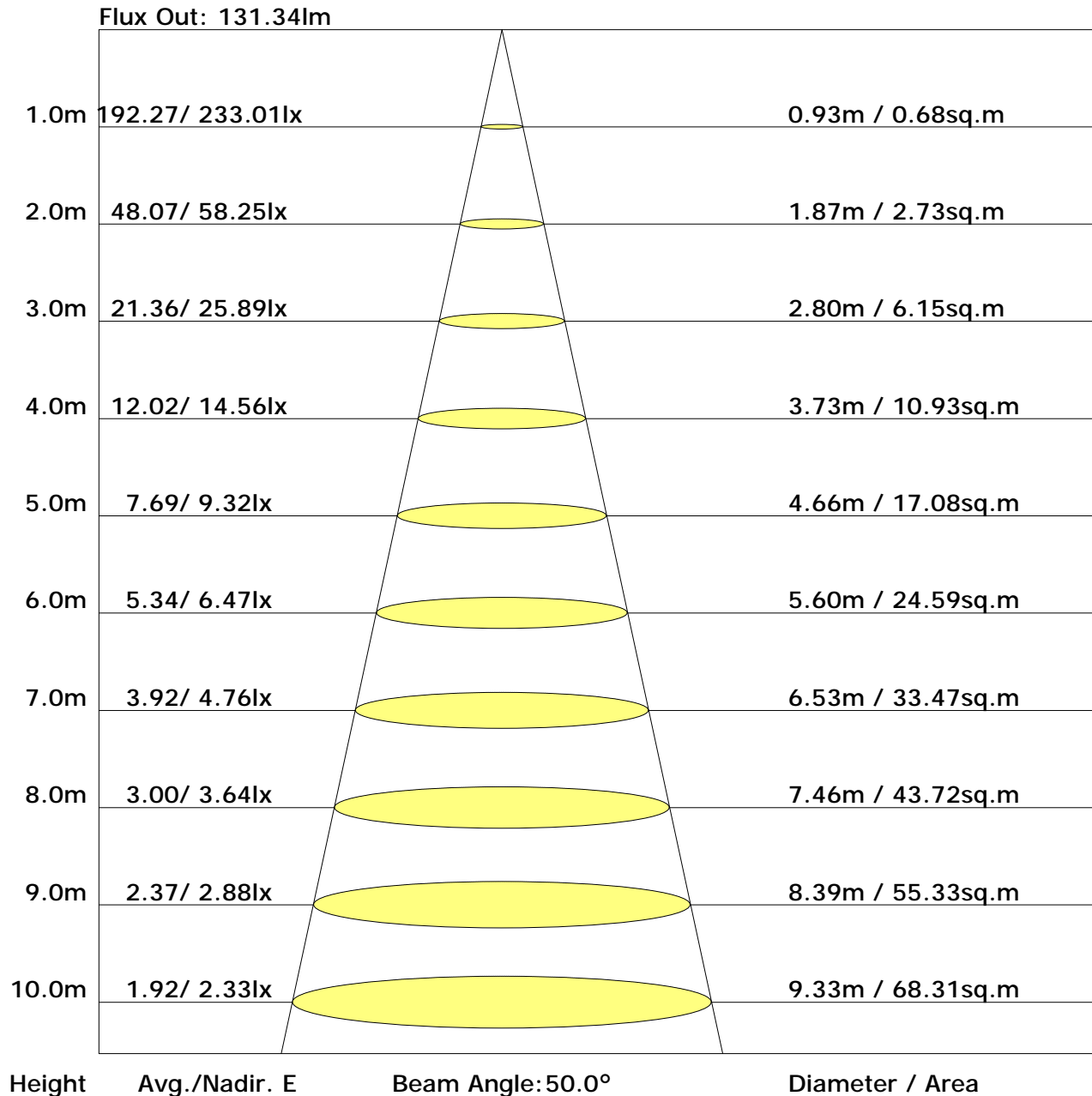
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.1	0.2	0.5	0.8	1.2	1.5	1.6	1.8	1.8	1.7	1.5	1.2	0.8	0.5	0.2	0.1	0.0	0.0	15.4	14.6
	-80	0.0	0.1	0.3	0.7	1.1	1.6	2.0	2.3	2.5	2.5	2.4	2.1	1.7	1.2	0.7	0.4	0.1	0.0	0.0	21.8	21.4
	-70	0.0	0.2	0.5	0.9	1.6	2.3	2.9	3.4	3.7	3.7	3.4	3.0	2.4	1.6	1.0	0.5	0.2	0.0	0.0	31.3	31.1
	-60	0.0	0.2	0.6	1.2	2.0	2.8	3.6	4.1	4.4	4.4	4.1	3.6	2.9	2.1	1.3	0.6	0.2	0.0	0.0	38.3	38.1
	-50	0.0	0.2	0.8	1.5	2.4	3.3	4.1	4.7	5.0	5.1	4.8	4.2	3.4	2.5	1.5	0.8	0.2	0.0	0.0	44.4	44.3
	-40	0.0	0.3	0.9	1.7	2.7	3.7	4.6	5.3	5.7	5.7	5.4	4.7	3.8	2.8	1.8	0.9	0.3	0.0	0.0	50.4	50.3
	-30	0.0	0.3	1.0	1.9	3.0	4.1	5.1	5.9	6.3	6.3	5.9	5.2	4.2	3.1	1.9	1.0	0.3	0.0	0.0	55.5	55.4
	-20	0.0	0.3	1.0	2.0	3.2	4.4	5.5	6.3	6.7	6.7	6.4	5.6	4.5	3.3	2.0	1.0	0.3	0.0	0.0	59.4	59.3
	-10	0.0	0.3	1.1	2.1	3.4	4.6	5.7	6.5	7.0	7.0	6.6	5.7	4.6	3.3	2.1	1.0	0.3	0.0	0.0	61.4	61.3
	0	0.0	0.3	1.1	2.1	3.4	4.6	5.8	6.6	7.0	7.1	6.6	5.8	4.7	3.4	2.1	1.0	0.3	0.0	0.0	61.9	61.8
	10	0.0	0.3	1.1	2.1	3.3	4.5	5.6	6.5	6.9	7.0	6.5	5.7	4.6	3.3	2.1	1.0	0.3	0.0	0.0	61.0	60.9
	20	0.0	0.3	1.0	2.0	3.1	4.3	5.4	6.2	6.6	6.7	6.3	5.5	4.4	3.2	2.0	1.0	0.3	0.0	0.0	58.3	58.2
	30	0.0	0.3	0.9	1.8	2.9	4.0	5.0	5.8	6.2	6.2	5.8	5.1	4.1	3.0	1.9	0.9	0.3	0.0	0.0	54.3	54.2
	40	0.0	0.3	0.8	1.6	2.6	3.6	4.6	5.2	5.6	5.6	5.3	4.6	3.7	2.7	1.7	0.8	0.3	0.0	0.0	49.1	48.9
	50	0.0	0.2	0.7	1.4	2.3	3.3	4.1	4.7	5.1	5.1	4.8	4.2	3.3	2.4	1.4	0.7	0.2	0.0	0.0	43.8	43.7
	60	0.0	0.2	0.5	1.1	1.8	2.7	3.5	4.1	4.5	4.5	4.2	3.6	2.8	1.9	1.1	0.5	0.2	0.0	0.0	37.2	37.0
	70	0.0	0.1	0.3	0.7	1.2	1.8	2.3	2.7	2.9	3.0	2.8	2.4	1.9	1.3	0.8	0.4	0.1	0.0	0.0	24.7	24.3
	80	0.0	0.1	0.2	0.5	0.8	1.1	1.4	1.6	1.7	1.7	1.6	1.4	1.1	0.8	0.5	0.2	0.1	0.0	0.0	14.8	14.0
	90	0.5	4.2	12.9	25.8	41.5	58.0	72.7	83.4	89.7	90.0	84.4	74.1	59.4	42.6	26.4	12.9	4.0	0.4	0.0	783	
	Flux(E)	0.0	3.3	12.3	25.6	41.5	58.0	72.7	83.4	89.7	90.0	84.4	74.1	59.4	42.6	26.3	12.4	3.1	0.0		779	

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	26.3	25.2	26.8	27.3	26.4	28.0	26.9	28.5	28.9
3H	26.5	27.9	26.9	28.3	28.8	29.1	30.5	29.5	31.0	31.5
4H	27.0	28.4	27.5	28.8	29.4	30.0	31.3	30.5	31.8	32.3
6H	27.4	28.6	27.9	29.1	29.6	30.7	32.0	31.2	32.5	33.0
8H	27.4	28.7	28.0	29.2	29.7	31.0	32.3	31.6	32.8	33.3
12H	27.5	28.7	28.0	29.2	29.7	31.4	32.5	31.9	33.0	33.6
X=4H Y=2H	25.7	27.1	26.2	27.5	28.1	27.0	28.4	27.5	28.9	29.4
3H	27.7	28.8	28.2	29.3	29.9	29.9	31.1	30.4	31.6	32.1
4H	28.4	29.5	28.9	30.0	30.6	31.0	32.1	31.5	32.6	33.2
6H	28.9	29.8	29.4	30.4	31.0	31.9	32.8	32.5	33.4	34.0
8H	29.1	29.9	29.6	30.5	31.1	32.3	33.2	32.9	33.7	34.3
12H	29.2	29.9	29.7	30.5	31.1	32.7	33.5	33.3	34.1	34.7
X=8H Y=4H	29.0	29.9	29.6	30.5	31.1	31.3	32.2	31.9	32.7	33.3
6H	29.7	30.5	30.3	31.1	31.7	32.4	33.1	33.0	33.7	34.3
8H	30.0	30.7	30.6	31.3	31.9	32.9	33.6	33.5	34.2	34.8
12H	30.2	30.8	30.8	31.4	32.1	33.5	34.1	34.1	34.7	35.4
X=12H Y=4H	29.2	30.0	29.8	30.6	31.2	31.3	32.1	31.9	32.7	33.3
6H	30.0	30.7	30.6	31.2	31.9	32.5	33.1	33.1	33.7	34.4
8H	30.4	31.0	31.0	31.5	32.2	33.1	33.7	33.7	34.2	34.9

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	0.77	0.81	0.86	0.90	
	0.20		0.40	0.47	0.54	0.60	0.67	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	0.62	0.69	0.74	0.78	0.82	0.86	
	0.20		0.39	0.46	0.53	0.58	0.65	0.70	0.74	0.80	0.83	
0.00	0.00	0.00	0.36	0.43	0.49	0.54	0.61	0.65	0.69	0.74	0.77	
Rating: 10W 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	1.00	0.86	0.74	0.65	0.53	0.45	0.39	0.31	0.25	
	0.30		0.83	0.74	0.64	0.57	0.48	0.41	0.36	0.29	0.24	
	0.20		0.72	0.64	0.57	0.52	0.44	0.38	0.33	0.27	0.23	
0.50	0.50	0.20	0.95	0.82	0.70	0.62	0.50	0.45	0.36	0.29	0.24	
	0.30		0.81	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	0.33	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: 10W 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	0.23	0.24	0.25	0.26	0.27	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	0.13	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: 10W 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	233.8	0.2	0.2	0.03	0.03
1.0-2.0	233.8	0.7	0.9	0.08	0.11
2.0-3.0	233.6	1.1	2.0	0.13	0.24
3.0-4.0	233.4	1.6	3.6	0.19	0.43
4.0-5.0	233.1	2.0	5.6	0.24	0.67
5.0-6.0	232.8	2.4	8.0	0.29	0.96
6.0-7.0	232.4	2.9	10.9	0.34	1.30
7.0-8.0	231.9	3.3	14.2	0.40	1.70
8.0-9.0	231.3	3.7	18.0	0.45	2.15
9.0-10.0	230.7	4.2	22.2	0.50	2.65
10.0-11.0	230.0	4.6	26.8	0.55	3.19
11.0-12.0	229.3	5.0	31.8	0.60	3.79
12.0-13.0	228.4	5.4	37.2	0.65	4.44
13.0-14.0	227.5	5.8	43.0	0.70	5.14
14.0-15.0	226.6	6.2	49.2	0.74	5.88
15.0-16.0	225.5	6.6	55.8	0.79	6.67
16.0-17.0	224.4	7.0	62.8	0.83	7.50
17.0-18.0	223.3	7.4	70.2	0.88	8.38
18.0-19.0	222.0	7.7	77.9	0.92	9.30
19.0-20.0	220.7	8.1	86.0	0.96	10.27
20.0-21.0	219.3	8.4	94.4	1.01	11.28
21.0-22.0	217.9	8.8	103.2	1.05	12.32
22.0-23.0	216.3	9.1	112.3	1.08	13.40
23.0-24.0	214.8	9.4	121.6	1.12	14.53
24.0-25.0	213.1	9.7	131.3	1.16	15.68
25.0-26.0	211.5	10.0	141.3	1.19	16.88
26.0-27.0	209.7	10.3	151.6	1.23	18.10
27.0-28.0	207.9	10.5	162.1	1.26	19.36
28.0-29.0	206.0	10.8	172.9	1.29	20.64
29.0-30.0	204.1	11.0	183.9	1.32	21.96
30.0-31.0	202.1	11.2	195.2	1.34	23.30
31.0-32.0	200.0	11.5	206.6	1.37	24.67
32.0-33.0	198.0	11.7	218.3	1.39	26.07
33.0-34.0	195.8	11.9	230.1	1.42	27.48
34.0-35.0	193.6	12.0	242.2	1.44	28.92
35.0-36.0	191.4	12.2	254.3	1.46	30.37

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	189.1	12.3	266.7	1.47	31.84
37.0-38.0	186.7	12.5	279.1	1.49	33.33
38.0-39.0	184.3	12.6	291.7	1.50	34.83
39.0-40.0	181.9	12.7	304.4	1.51	36.35
40.0-41.0	179.4	12.8	317.2	1.53	37.87
41.0-42.0	176.8	12.8	330.0	1.53	39.41
42.0-43.0	174.2	12.9	342.9	1.54	40.95
43.0-44.0	171.5	12.9	355.9	1.55	42.50
44.0-45.0	168.8	13.0	368.8	1.55	44.04
45.0-46.0	166.1	13.0	381.8	1.55	45.60
46.0-47.0	163.3	13.0	394.8	1.55	47.15
47.0-48.0	160.5	13.0	407.8	1.55	48.70
48.0-49.0	157.7	13.0	420.8	1.55	50.24
49.0-50.0	154.9	12.9	433.7	1.54	51.79
50.0-51.0	152.0	12.9	446.5	1.54	53.32
51.0-52.0	149.2	12.8	459.3	1.53	54.85
52.0-53.0	146.4	12.7	472.1	1.52	56.37
53.0-54.0	143.5	12.6	484.7	1.51	57.88
54.0-55.0	140.7	12.6	497.3	1.50	59.38
55.0-56.0	137.9	12.5	509.7	1.49	60.87
56.0-57.0	135.0	12.3	522.1	1.47	62.34
57.0-58.0	132.2	12.2	534.3	1.46	63.80
58.0-59.0	129.4	12.1	546.4	1.44	65.25
59.0-60.0	126.5	12.0	558.4	1.43	66.68
60.0-61.0	123.7	11.8	570.2	1.41	68.09
61.0-62.0	120.9	11.7	581.8	1.39	69.48
62.0-63.0	118.1	11.5	593.3	1.37	70.85
63.0-64.0	115.2	11.3	604.6	1.35	72.20
64.0-65.0	112.2	11.1	615.7	1.33	73.53
65.0-66.0	109.0	10.9	626.6	1.30	74.83
66.0-67.0	105.6	10.6	637.2	1.27	76.09
67.0-68.0	101.9	10.3	647.5	1.23	77.33
68.0-69.0	98.0	10.0	657.5	1.19	78.52
69.0-70.0	93.9	9.6	667.2	1.15	79.67
70.0-71.0	89.7	9.3	676.5	1.11	80.78
71.0-72.0	85.3	8.9	685.3	1.06	81.84

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	80.8	8.5	693.8	1.01	82.85
73.0-74.0	76.3	8.0	701.8	0.96	83.81
74.0-75.0	72.0	7.6	709.4	0.91	84.71
75.0-76.0	67.7	7.2	716.6	0.86	85.57
76.0-77.0	63.6	6.8	723.4	0.81	86.38
77.0-78.0	59.8	6.4	729.8	0.76	87.15
78.0-79.0	56.1	6.0	735.8	0.72	87.87
79.0-80.0	52.7	5.7	741.5	0.68	88.54
80.0-81.0	49.4	5.3	746.8	0.64	89.18
81.0-82.0	46.4	5.0	751.9	0.60	89.78
82.0-83.0	43.6	4.7	756.6	0.57	90.35
83.0-84.0	41.0	4.5	761.1	0.53	90.88
84.0-85.0	38.6	4.2	765.3	0.50	91.39
85.0-86.0	36.3	4.0	769.3	0.47	91.86
86.0-87.0	34.2	3.7	773.0	0.45	92.31
87.0-88.0	32.3	3.5	776.5	0.42	92.73
88.0-89.0	30.6	3.4	779.9	0.40	93.13
89.0-90.0	29.1	3.2	783.1	0.38	93.51
90.0-91.0	28.0	3.1	786.2	0.37	93.88
91.0-92.0	27.1	3.0	789.1	0.35	94.23
92.0-93.0	26.3	2.9	792.0	0.34	94.57
93.0-94.0	25.5	2.8	794.8	0.33	94.91
94.0-95.0	24.8	2.7	797.5	0.32	95.23
95.0-96.0	24.2	2.6	800.1	0.32	95.55
96.0-97.0	23.5	2.6	802.7	0.31	95.85
97.0-98.0	22.7	2.5	805.2	0.29	96.15
98.0-99.0	21.9	2.4	807.5	0.28	96.43
99.0-100.0	20.9	2.3	809.8	0.27	96.70
100.0-101.0	20.0	2.2	812.0	0.26	96.96
101.0-102.0	18.9	2.0	814.0	0.24	97.20
102.0-103.0	17.7	1.9	815.9	0.23	97.43
103.0-104.0	16.4	1.8	817.6	0.21	97.64
104.0-105.0	15.2	1.6	819.2	0.19	97.83
105.0-106.0	14.0	1.5	820.7	0.18	98.00
106.0-107.0	12.8	1.3	822.1	0.16	98.17
107.0-108.0	11.8	1.2	823.3	0.15	98.31

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	10.8	1.1	824.4	0.13	98.45
109.0-110.0	9.9	1.0	825.4	0.12	98.57
110.0-111.0	9.0	0.9	826.4	0.11	98.68
111.0-112.0	8.0	0.8	827.2	0.10	98.78
112.0-113.0	7.2	0.7	827.9	0.09	98.86
113.0-114.0	6.4	0.6	828.6	0.08	98.94
114.0-115.0	5.7	0.6	829.1	0.07	99.01
115.0-116.0	5.1	0.5	829.6	0.06	99.07
116.0-117.0	4.6	0.4	830.1	0.05	99.12
117.0-118.0	4.1	0.4	830.5	0.05	99.17
118.0-119.0	3.7	0.4	830.8	0.04	99.21
119.0-120.0	3.4	0.3	831.2	0.04	99.25
120.0-121.0	3.1	0.3	831.5	0.03	99.29
121.0-122.0	2.8	0.3	831.7	0.03	99.32
122.0-123.0	2.6	0.2	832.0	0.03	99.35
123.0-124.0	2.4	0.2	832.2	0.03	99.37
124.0-125.0	2.3	0.2	832.4	0.02	99.40
125.0-126.0	2.1	0.2	832.6	0.02	99.42
126.0-127.0	2.0	0.2	832.8	0.02	99.44
127.0-128.0	1.9	0.2	832.9	0.02	99.46
128.0-129.0	1.9	0.2	833.1	0.02	99.48
129.0-130.0	1.8	0.2	833.2	0.02	99.50
130.0-131.0	1.8	0.1	833.4	0.02	99.52
131.0-132.0	1.8	0.1	833.5	0.02	99.53
132.0-133.0	1.8	0.1	833.7	0.02	99.55
133.0-134.0	1.8	0.1	833.8	0.02	99.57
134.0-135.0	1.8	0.1	834.0	0.02	99.58
135.0-136.0	1.8	0.1	834.1	0.02	99.60
136.0-137.0	1.8	0.1	834.2	0.02	99.62
137.0-138.0	1.8	0.1	834.4	0.02	99.63
138.0-139.0	1.8	0.1	834.5	0.02	99.65
139.0-140.0	1.8	0.1	834.6	0.02	99.66
140.0-141.0	1.8	0.1	834.7	0.02	99.68
141.0-142.0	1.8	0.1	834.9	0.01	99.69
142.0-143.0	1.8	0.1	835.0	0.01	99.71
143.0-144.0	1.8	0.1	835.1	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 [°]	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	835.2	0.01	99.74
145.0-146.0	1.9	0.1	835.4	0.01	99.75
146.0-147.0	1.9	0.1	835.5	0.01	99.77
147.0-148.0	1.9	0.1	835.6	0.01	99.78
148.0-149.0	1.9	0.1	835.7	0.01	99.79
149.0-150.0	1.9	0.1	835.8	0.01	99.80
150.0-151.0	1.9	0.1	835.9	0.01	99.82
151.0-152.0	1.9	0.1	836.0	0.01	99.83
152.0-153.0	1.9	0.1	836.1	0.01	99.84
153.0-154.0	1.9	0.1	836.2	0.01	99.85
154.0-155.0	1.9	0.1	836.3	0.01	99.86
155.0-156.0	1.9	0.1	836.4	0.01	99.87
156.0-157.0	1.9	0.1	836.4	0.01	99.88
157.0-158.0	1.9	0.1	836.5	0.01	99.89
158.0-159.0	1.9	0.1	836.6	0.01	99.90
159.0-160.0	1.9	0.1	836.7	0.01	99.91
160.0-161.0	1.9	0.1	836.7	0.01	99.92
161.0-162.0	2.0	0.1	836.8	0.01	99.93
162.0-163.0	2.0	0.1	836.9	0.01	99.93
163.0-164.0	2.0	0.1	836.9	0.01	99.94
164.0-165.0	2.0	0.1	837.0	0.01	99.95
165.0-166.0	2.0	0.1	837.1	0.01	99.95
166.0-167.0	2.0	0.1	837.1	0.01	99.96
167.0-168.0	2.0	0.0	837.2	0.01	99.97
168.0-169.0	2.0	0.0	837.2	0.01	99.97
169.0-170.0	2.0	0.0	837.2	0.00	99.98
170.0-171.0	2.0	0.0	837.3	0.00	99.98
171.0-172.0	2.0	0.0	837.3	0.00	99.99
172.0-173.0	2.0	0.0	837.3	0.00	99.99
173.0-174.0	2.0	0.0	837.4	0.00	99.99
174.0-175.0	2.0	0.0	837.4	0.00	99.99
175.0-176.0	2.0	0.0	837.4	0.00	100.00
176.0-177.0	2.1	0.0	837.4	0.00	100.00
177.0-178.0	2.1	0.0	837.4	0.00	100.00
178.0-179.0	2.0	0.0	837.4	0.00	100.00
179.0-180.0	2.0	0.0	837.4	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: