

Report No.:

Test Time: 2021/10/20 16:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: COB RIBBONLYTE

Lamp Catalog: FCOB-24V-D480-2700-14W-10MM-IP20

Lamp Description: 2700K

Luminous Length (mm): 500

Luminous Height (mm): 1.5

Current: 0.272 A

Power Factor: 1.000

Luminaire Description: RB90LINEA204.327

Number of Lamps: 480/M

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 6.52 W

Photometric Results

CIE Class: Direct

Measurement Flux: 422.1 lm

Downward Ratio: 97%

Horizontal Diffuse Angle(10%,50%): H160.2,H113

Vertical Diffuse Angle(10%,50%): V191.8,V126.7

Luminaire Efficacy Rating (LER): 65

Max. Intensity: 128.03 cd

Total Rated Lamp Lumens: 422.1 lm

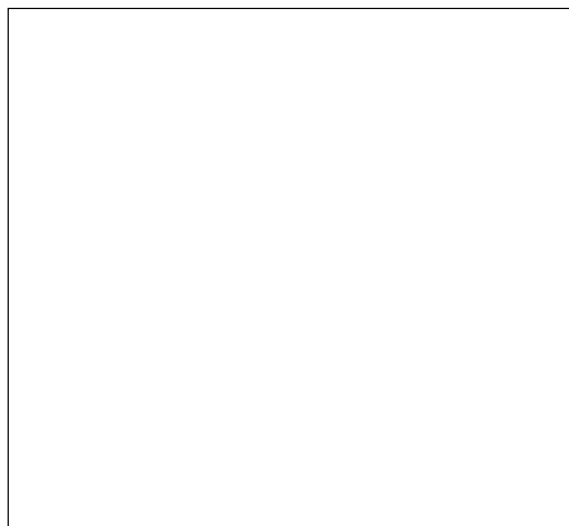
Efficiency: 100%

Upward Ratio: 3%

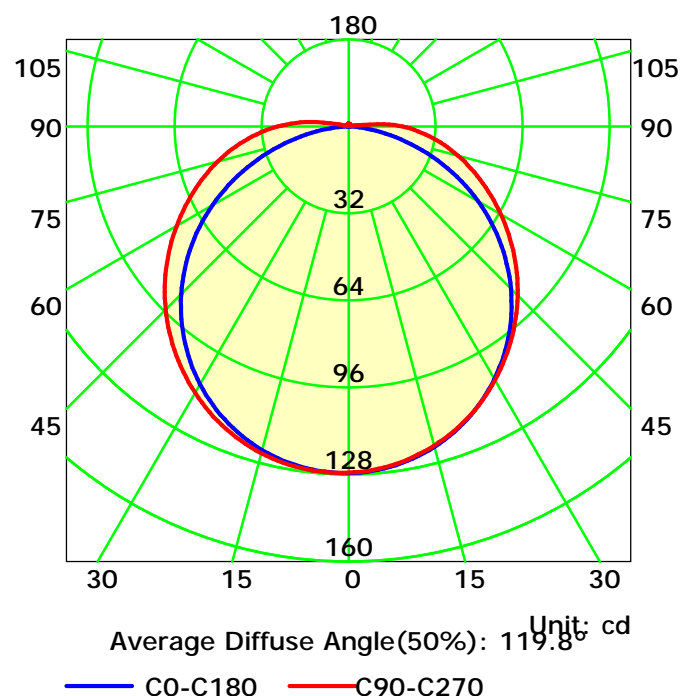
Central Intensity: 127.97 cd

Pos of Max. Intensity: H180 V1

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

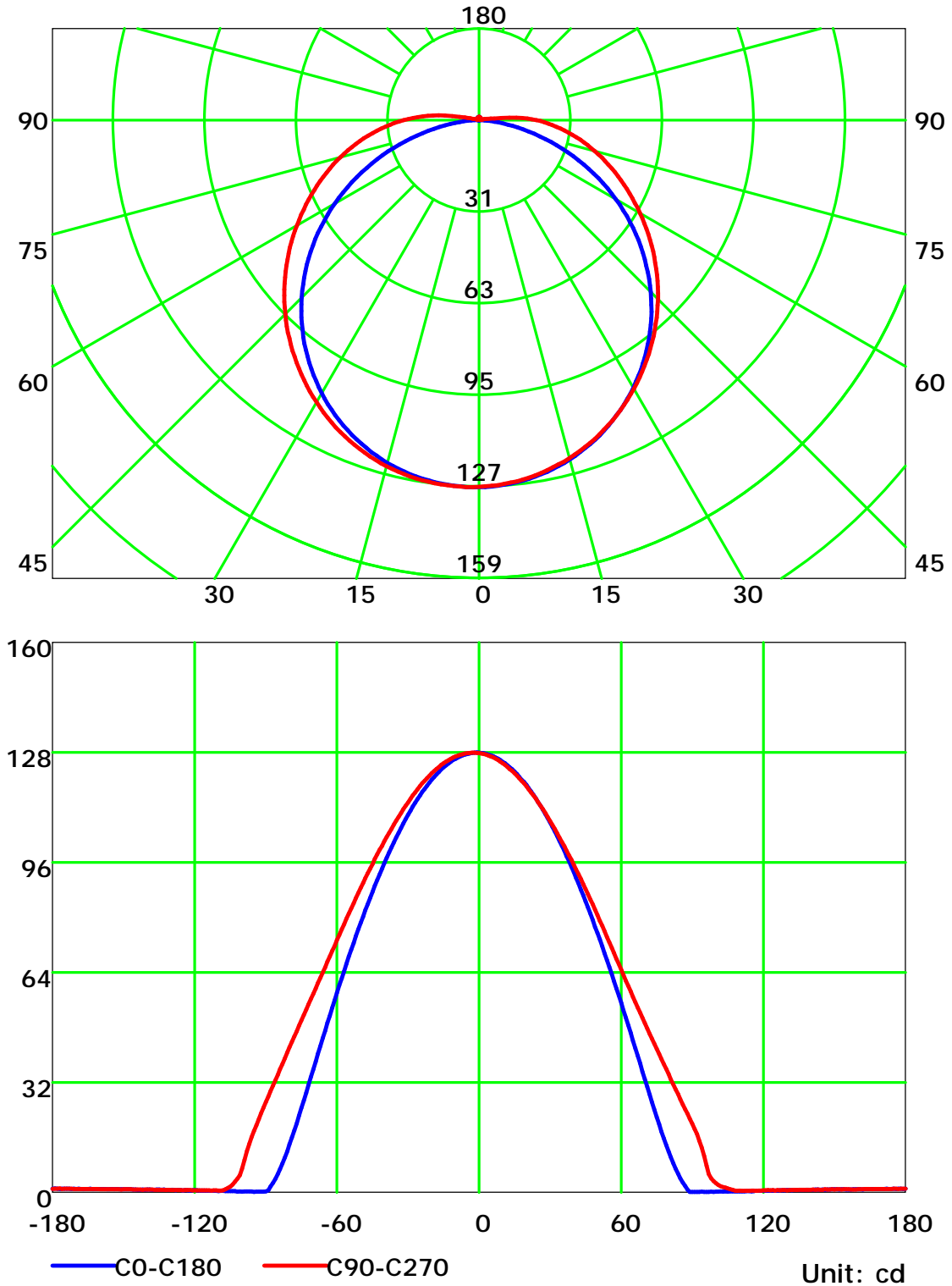
Distance: 9.028 m

Humidity: 60%

Inspector:



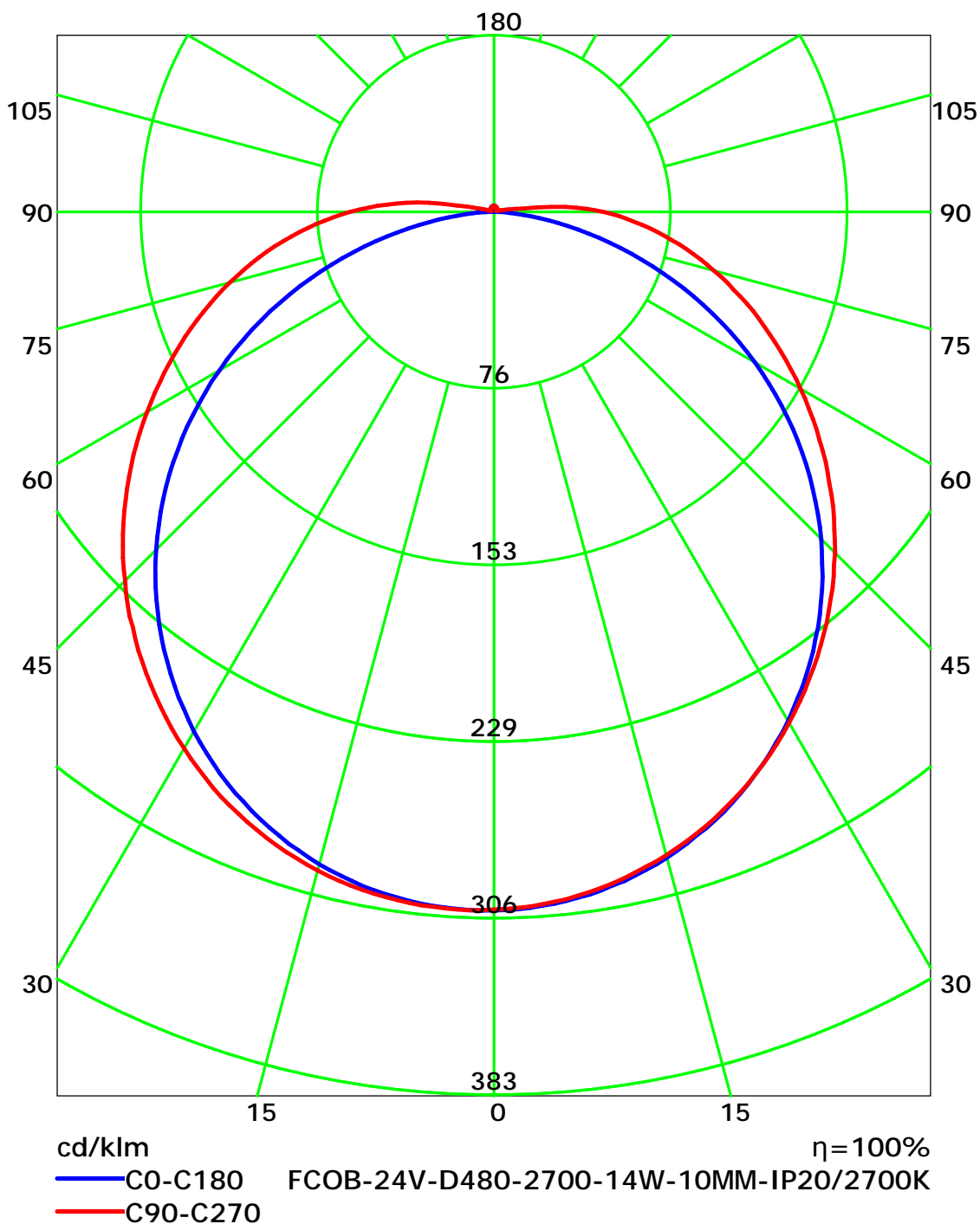
Luminous Intensity Distribution Curve



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:

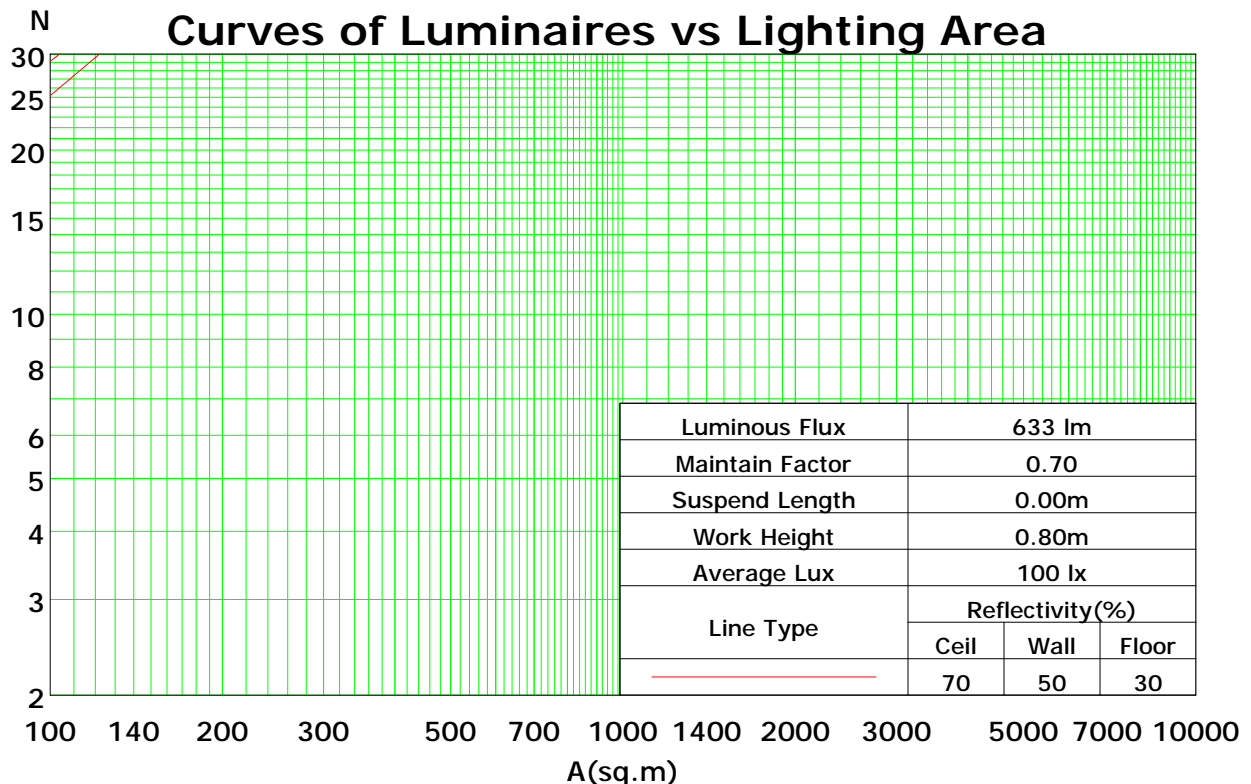
Coefficients Of Utilization - Zonal Cavity Method

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	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	106	101	96	91	103	98	94	90	93	90	86	89	86	83	85	82	80	78
2	96	87	79	73	93	85	78	72	81	75	70	77	72	68	73	69	66	63
3	87	76	67	60	84	74	66	59	71	64	58	67	61	56	64	59	55	53
4	80	67	58	50	77	65	57	50	62	55	49	60	53	48	57	52	47	45
5	73	60	50	43	71	58	49	43	56	48	42	53	47	41	51	45	41	38
6	67	54	44	37	65	52	44	37	50	42	37	48	41	36	46	40	36	33
7	62	48	39	33	60	47	39	33	46	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26
9	54	40	32	26	53	40	32	26	38	31	26	37	30	26	36	30	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	28	23	33	27	23	21

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.29

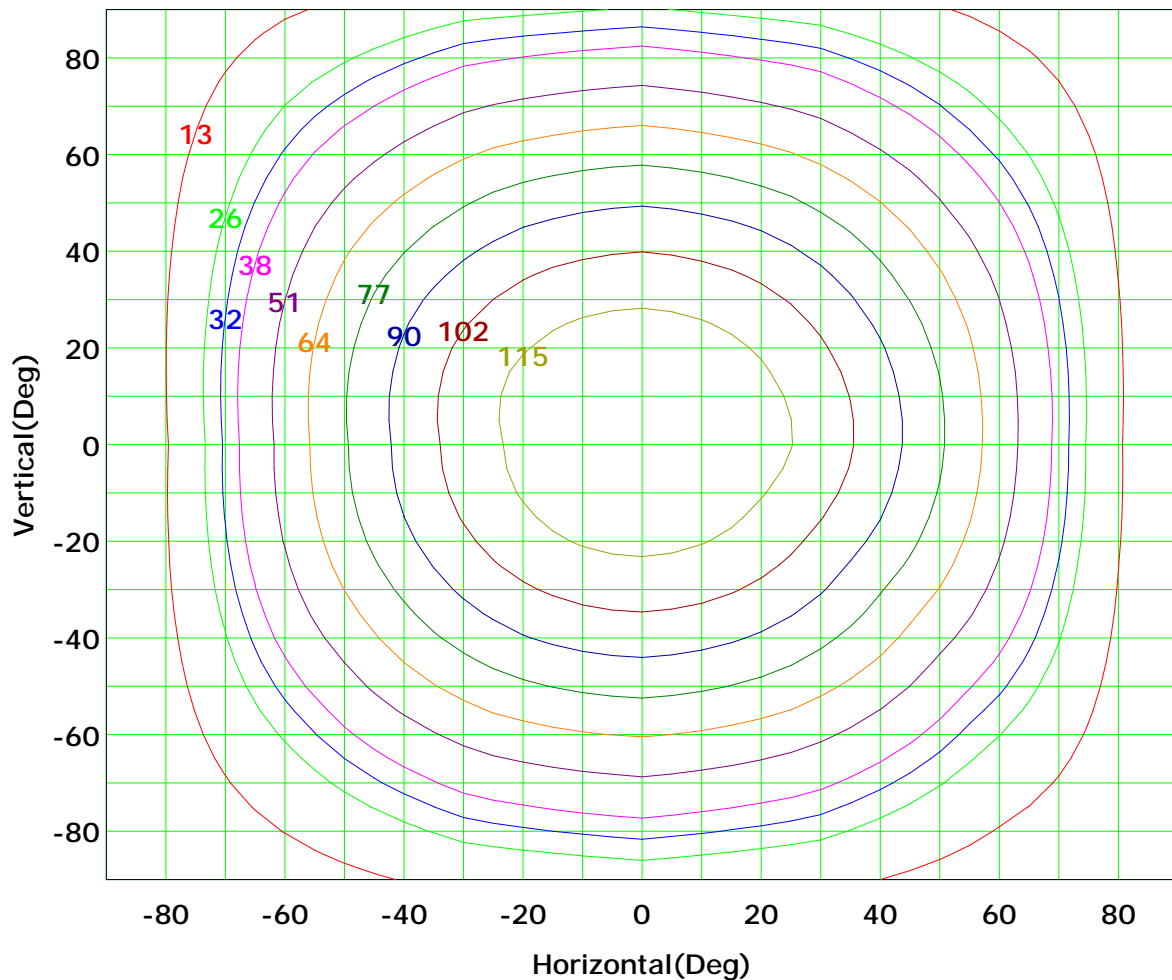
Spacing Criteria (Diagonal): 1.40



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)



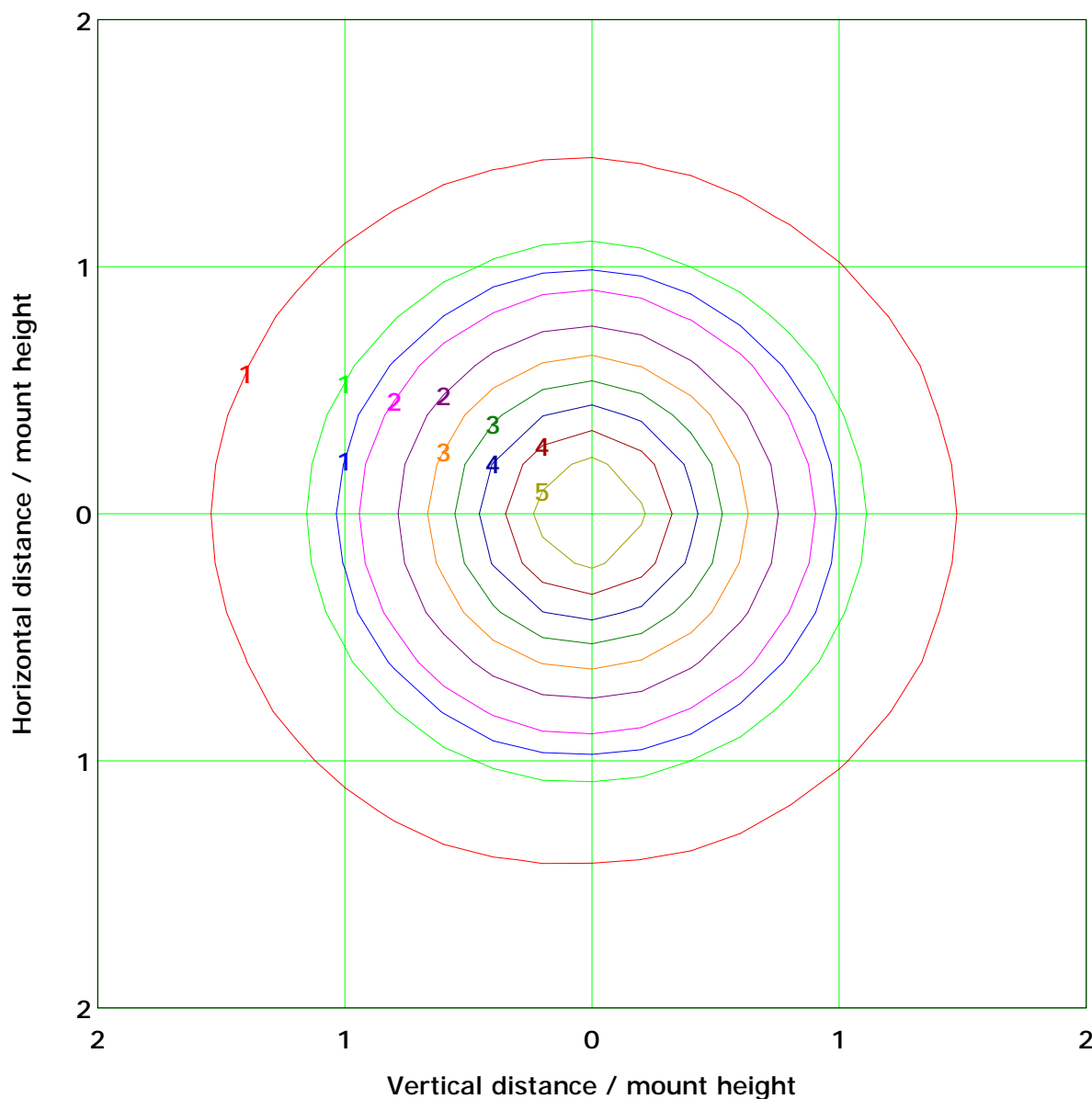
I_{max} (100%): 128 cd

(10%):	13 cd	(20%):	26 cd
(25%):	32 cd	(30%):	38 cd
(40%):	51 cd	(50%):	64 cd
(60%):	77 cd	(70%):	90 cd
(80%):	102 cd	(90%):	115 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%): 5.1 lx

(10%): 0.5 lx	(20%): 1.0 lx
(25%): 1.3 lx	(30%): 1.5 lx
(40%): 2.0 lx	(50%): 2.6 lx
(60%): 3.1 lx	(70%): 3.6 lx
(80%): 4.1 lx	(90%): 4.6 lx

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

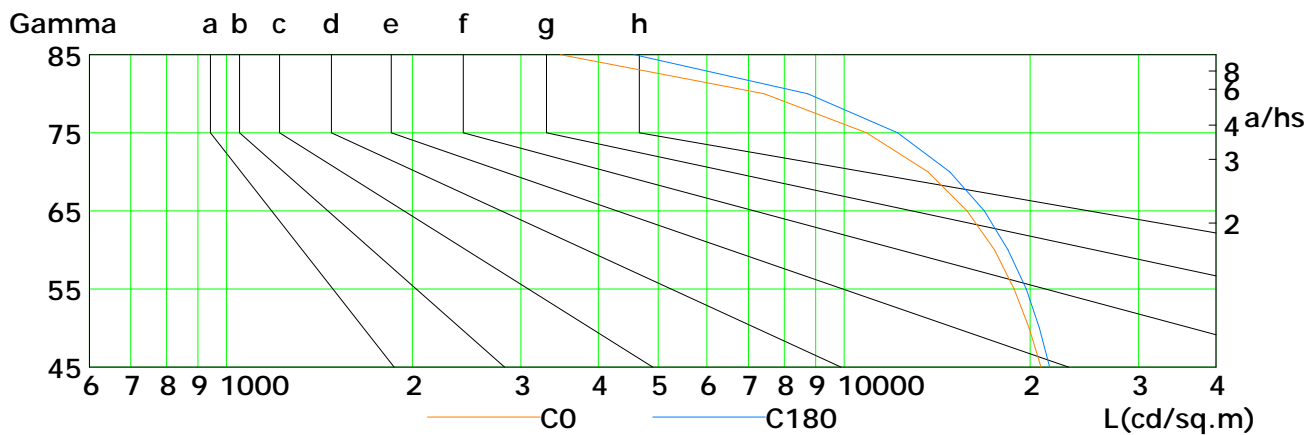
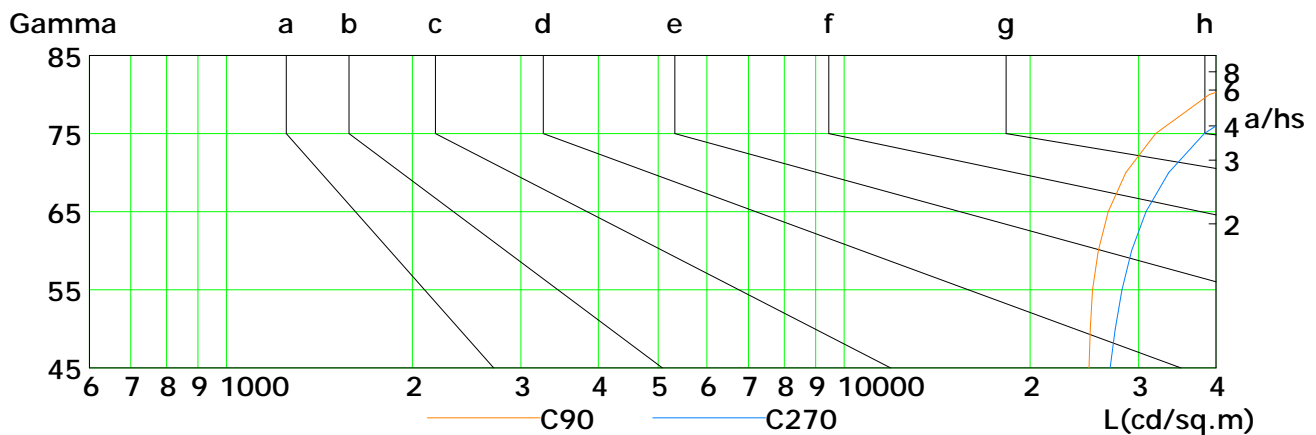
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



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

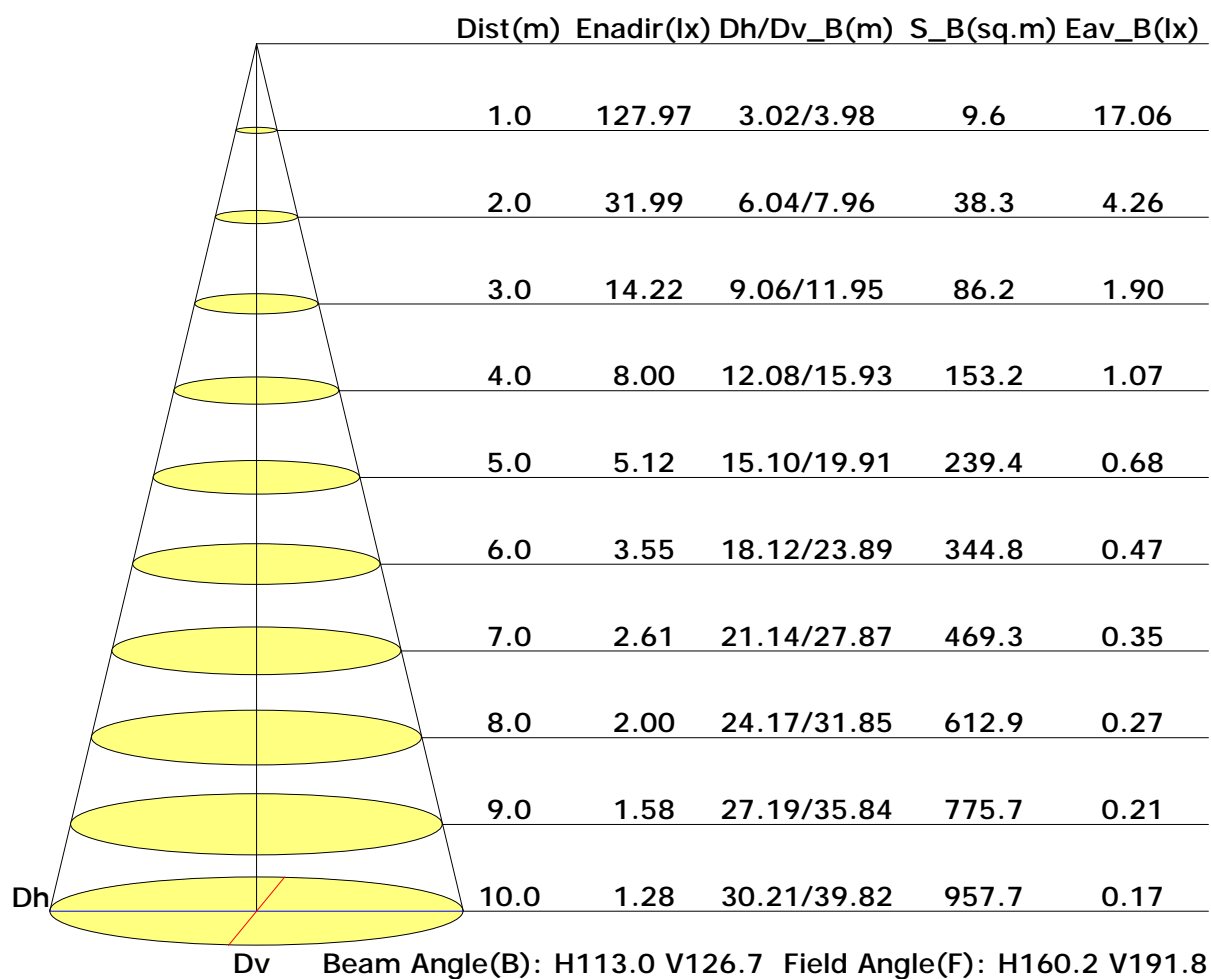


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	20849	19939	18844	17523	15816	13669	10879	7424	3474
C90	24917	25029	25266	25806	26765	28593	31943	39048	60215
C180	21533	20713	19720	18428	16868	14829	12207	8738	4573
C270	26959	27482	28179	29208	30832	33558	38293	47893	75989

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

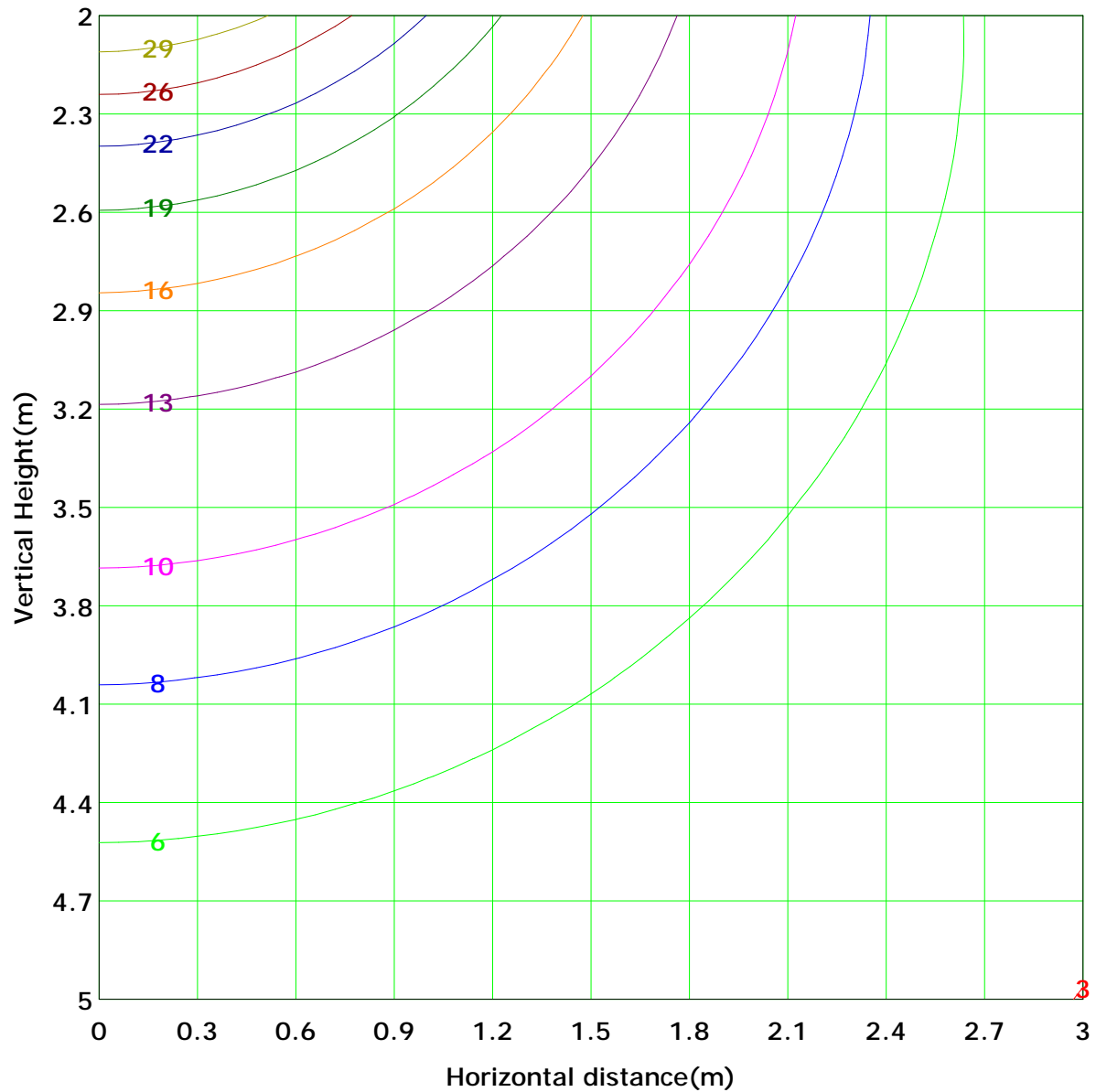
Gamma Plane (°):0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 32.0 lx
(10%): 3.2 lx	(20%): 6.4 lx	
(25%): 8.0 lx	(30%): 9.6 lx	
(40%): 12.8 lx	(50%): 16.0 lx	
(60%): 19.2 lx	(70%): 22.4 lx	
(80%): 25.6 lx	(90%): 28.8 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

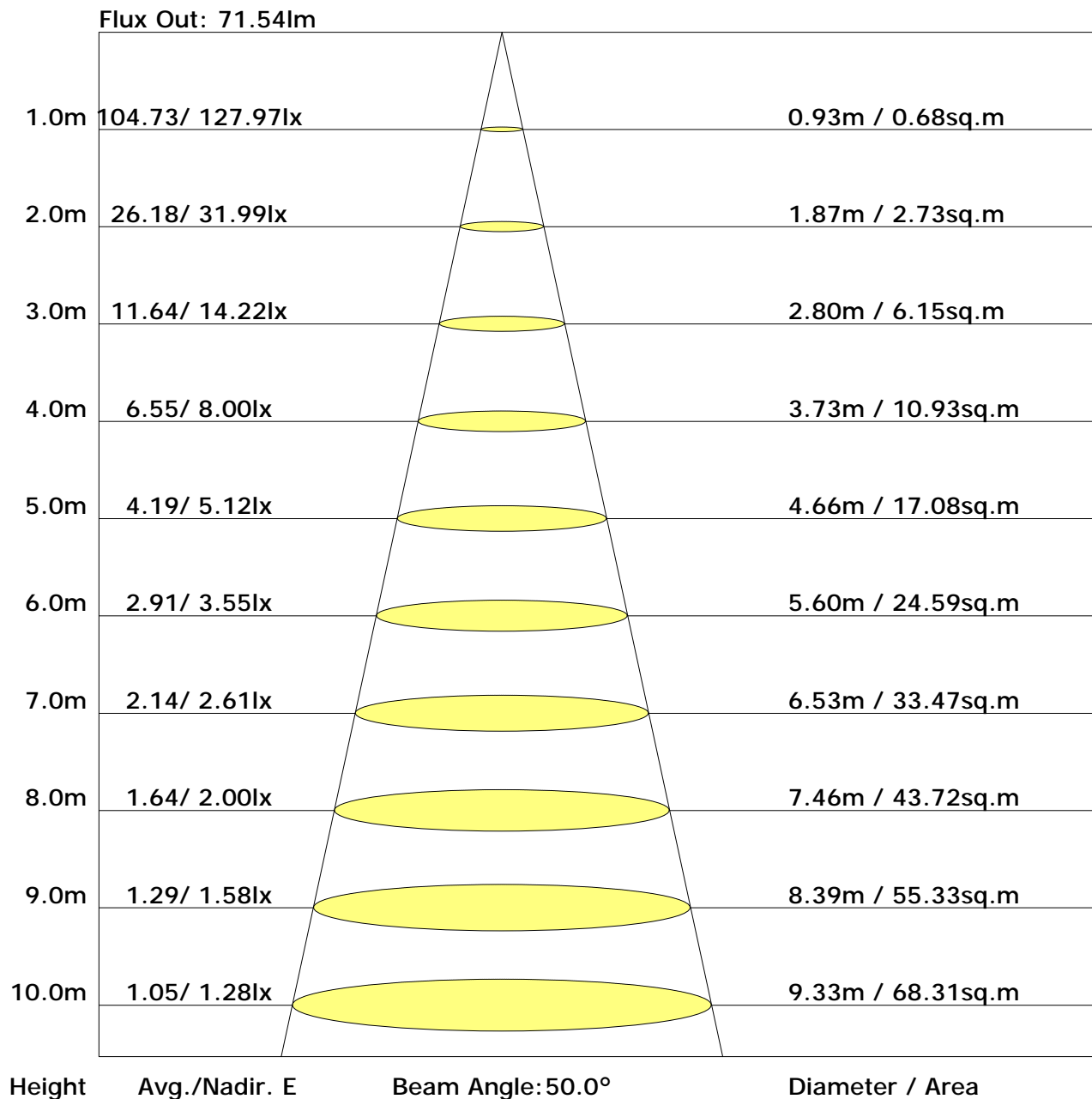
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.1	0.1	0.3	0.4	0.6	0.8	0.9	1.0	1.0	0.9	0.8	0.7	0.5	0.3	0.2	0.1	0.0	0.0	8.8	8.4
	-80	0.0	0.1	0.2	0.4	0.7	0.9	1.2	1.4	1.5	1.5	1.4	1.2	1.0	0.7	0.5	0.2	0.1	0.0	0.0	13.0	12.8
	-70	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.8	2.0	2.0	1.8	1.6	1.3	0.9	0.6	0.3	0.1	0.0	0.0	17.2	17.1
	-60	0.0	0.1	0.4	0.7	1.1	1.6	2.0	2.3	2.4	2.4	2.3	2.0	1.6	1.2	0.8	0.4	0.1	0.0	0.0	21.4	21.4
	-50	0.0	0.2	0.4	0.9	1.4	1.9	2.3	2.7	2.9	2.9	2.7	2.4	1.9	1.4	0.9	0.5	0.2	0.0	0.0	25.4	25.4
	-40	0.0	0.2	0.5	1.0	1.6	2.1	2.7	3.0	3.2	3.3	3.1	2.7	2.2	1.6	1.0	0.5	0.2	0.0	0.0	28.8	28.8
	-30	0.0	0.2	0.6	1.1	1.7	2.4	2.9	3.3	3.6	3.6	3.3	2.9	2.4	1.7	1.1	0.6	0.2	0.0	0.0	31.6	31.5
	-20	0.0	0.2	0.6	1.2	1.8	2.5	3.1	3.5	3.8	3.8	3.5	3.1	2.5	1.8	1.1	0.6	0.2	0.0	0.0	33.3	33.3
	-10	0.0	0.2	0.6	1.2	1.9	2.6	3.2	3.6	3.9	3.9	3.6	3.1	2.5	1.8	1.2	0.6	0.2	0.0	0.0	34.1	34.0
	0	0.0	0.2	0.6	1.2	1.9	2.5	3.1	3.6	3.8	3.8	3.6	3.1	2.5	1.8	1.1	0.6	0.2	0.0	0.0	33.7	33.7
	10	0.0	0.2	0.6	1.1	1.8	2.4	3.0	3.4	3.7	3.7	3.4	3.0	2.4	1.8	1.1	0.6	0.2	0.0	0.0	32.3	32.3
	20	0.0	0.2	0.5	1.0	1.6	2.2	2.8	3.2	3.4	3.4	3.2	2.8	2.2	1.6	1.0	0.5	0.2	0.0	0.0	30.0	30.0
	30	0.0	0.2	0.5	0.9	1.4	2.0	2.5	2.9	3.1	3.1	2.9	2.5	2.0	1.5	0.9	0.5	0.2	0.0	0.0	26.9	26.8
	40	0.0	0.1	0.4	0.8	1.2	1.7	2.1	2.5	2.6	2.7	2.5	2.2	1.7	1.2	0.8	0.4	0.1	0.0	0.0	23.1	23.0
	50	0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.0	2.2	2.2	2.0	1.8	1.4	1.0	0.6	0.3	0.1	0.0	0.0	18.9	18.8
	60	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	14.6	14.5
	70	0.0	0.1	0.2	0.3	0.5	0.8	1.0	1.1	1.2	1.2	1.2	1.0	0.8	0.6	0.3	0.2	0.1	0.0	0.0	10.6	10.3
	80	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.0	0.0	0.0	6.7	6.1
	90	0.3	2.5	7.2	13.9	22.0	30.5	38.0	43.5	46.7	46.8	43.8	38.3	30.8	22.3	14.1	7.1	2.4	0.3	0.0	410	
	Flux(E)	0.0	2.1	6.9	13.8	22.0	30.5	38.0	43.5	46.7	46.8	43.8	38.3	30.8	22.3	14.0	6.9	1.9	0.0	0.0	408	

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	25.4	27.0	25.8	27.4	27.8	25.4	27.0	25.8	27.4	27.7
3H	27.2	28.7	27.6	29.0	29.5	27.6	29.1	28.0	29.4	29.9
4H	27.8	29.2	28.2	29.6	30.1	28.6	30.0	29.0	30.4	30.8
6H	28.2	29.6	28.7	30.0	30.4	29.5	30.8	30.0	31.3	31.7
8H	28.3	29.6	28.8	30.1	30.5	30.0	31.2	30.4	31.7	32.1
12H	28.4	29.6	28.9	30.1	30.6	30.4	31.6	30.9	32.0	32.5
X=4H Y=2H	26.1	27.6	26.6	28.0	28.4	26.0	27.4	26.4	27.8	28.2
3H	28.2	29.4	28.6	29.8	30.3	28.4	29.6	28.9	30.1	30.5
4H	29.0	30.1	29.4	30.5	31.0	29.6	30.7	30.1	31.2	31.7
6H	29.6	30.6	30.1	31.0	31.6	30.7	31.7	31.2	32.2	32.7
8H	29.8	30.7	30.3	31.2	31.7	31.3	32.2	31.8	32.7	33.2
12H	29.9	30.7	30.4	31.2	31.8	31.8	32.6	32.3	33.1	33.7
X=8H Y=4H	29.5	30.5	30.0	30.9	31.5	29.9	30.9	30.4	31.3	31.9
6H	30.3	31.1	30.9	31.7	32.2	31.3	32.1	31.8	32.6	33.1
8H	30.7	31.4	31.2	31.9	32.5	31.9	32.7	32.5	33.2	33.7
12H	30.9	31.5	31.4	32.1	32.7	32.6	33.3	33.2	33.8	34.4
X=12H Y=4H	29.7	30.5	30.2	31.0	31.5	30.0	30.8	30.5	31.3	31.9
6H	30.6	31.3	31.1	31.8	32.4	31.4	32.1	31.9	32.6	33.2
8H	31.0	31.6	31.5	32.1	32.8	32.1	32.7	32.7	33.3	33.9

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 = 1.25								
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	0.53	0.63	0.70	0.75	0.83	0.88	0.91	0.96	1.00
	0.30		0.44	0.54	0.62	0.67	0.76	0.81	0.86	0.92	0.95
	0.20		0.38	0.48	0.56	0.61	0.70	0.76	0.81	0.87	0.92
0.50	0.50	0.20	0.51	0.60	0.67	0.72	0.79	0.84	0.87	0.92	0.95
	0.30		0.43	0.53	0.60	0.65	0.73	0.79	0.82	0.88	0.91
	0.20		0.38	0.48	0.55	0.60	0.68	0.74	0.78	0.84	0.88
0.30	0.50	0.20	0.49	0.58	0.64	0.69	0.76	0.80	0.83	0.88	0.90
	0.30		0.42	0.52	0.58	0.63	0.71	0.76	0.79	0.84	0.88
	0.20		0.37	0.47	0.54	0.59	0.66	0.72	0.76	0.81	0.85
0.00	0.00	0.00	0.35	0.44	0.50	0.55	0.63	0.68	0.71	0.76	0.80
Rating: 7W 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	1.04	0.88	0.76	0.67	0.54	0.46	0.40	0.31	0.26	
	0.30		0.87	0.75	0.66	0.59	0.49	0.42	0.37	0.29	0.25	
	0.20		0.75	0.65	0.58	0.53	0.45	0.39	0.34	0.28	0.24	
0.50	0.50	0.20	1.00	0.84	0.72	0.64	0.52	0.47	0.38	0.30	0.25	
	0.30		0.85	0.73	0.64	0.57	0.47	0.40	0.35	0.28	0.24	
	0.20		0.74	0.64	0.57	0.52	0.44	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.97	0.80	0.69	0.61	0.49	0.42	0.36	0.28	0.24	
	0.30		0.83	0.71	0.62	0.55	0.46	0.39	0.34	0.27	0.23	
	0.20		0.73	0.63	0.56	0.51	0.42	0.36	0.32	0.26	0.22	
0.00	0.00	0.00	0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.18	
Rating: 7W 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	0.19	0.21	0.21	0.22	0.23	0.24	0.24	0.24	0.25
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.19	0.20	0.21	0.21	0.22	0.23	0.23	0.23	0.24
	0.30		0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.23
	0.30		0.12	0.13	0.14	0.15	0.17	0.18	0.18	0.19	0.20
	0.20		0.07	0.08	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: 7W 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	127.9	0.1	0.1	0.03	0.03
1.0-2.0	127.9	0.4	0.5	0.09	0.12
2.0-3.0	127.8	0.6	1.1	0.14	0.26
3.0-4.0	127.6	0.9	2.0	0.20	0.46
4.0-5.0	127.5	1.1	3.1	0.26	0.72
5.0-6.0	127.3	1.3	4.4	0.32	1.04
6.0-7.0	127.0	1.6	6.0	0.37	1.41
7.0-8.0	126.7	1.8	7.8	0.43	1.84
8.0-9.0	126.4	2.0	9.8	0.49	2.33
9.0-10.0	126.0	2.3	12.1	0.54	2.87
10.0-11.0	125.6	2.5	14.6	0.59	3.46
11.0-12.0	125.2	2.7	17.4	0.65	4.11
12.0-13.0	124.7	3.0	20.3	0.70	4.81
13.0-14.0	124.1	3.2	23.5	0.75	5.57
14.0-15.0	123.5	3.4	26.9	0.80	6.37
15.0-16.0	122.9	3.6	30.5	0.85	7.22
16.0-17.0	122.3	3.8	34.3	0.90	8.13
17.0-18.0	121.6	4.0	38.3	0.95	9.08
18.0-19.0	120.9	4.2	42.5	1.00	10.07
19.0-20.0	120.1	4.4	46.9	1.04	11.11
20.0-21.0	119.3	4.6	51.5	1.09	12.20
21.0-22.0	118.4	4.8	56.2	1.13	13.33
22.0-23.0	117.6	4.9	61.2	1.17	14.50
23.0-24.0	116.6	5.1	66.3	1.21	15.70
24.0-25.0	115.7	5.3	71.5	1.25	16.95
25.0-26.0	114.7	5.4	77.0	1.28	18.23
26.0-27.0	113.7	5.6	82.5	1.32	19.55
27.0-28.0	112.6	5.7	88.2	1.35	20.90
28.0-29.0	111.5	5.8	94.1	1.38	22.28
29.0-30.0	110.3	6.0	100.0	1.41	23.70
30.0-31.0	109.2	6.1	106.1	1.44	25.14
31.0-32.0	108.0	6.2	112.3	1.47	26.60
32.0-33.0	106.7	6.3	118.6	1.49	28.09
33.0-34.0	105.5	6.4	124.9	1.51	29.60
34.0-35.0	104.2	6.5	131.4	1.53	31.14
35.0-36.0	102.9	6.6	138.0	1.55	32.69

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 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	101.5	6.6	144.6	1.57	34.26
37.0-38.0	100.1	6.7	151.3	1.58	35.84
38.0-39.0	98.7	6.7	158.0	1.60	37.44
39.0-40.0	97.3	6.8	164.8	1.61	39.05
40.0-41.0	95.8	6.8	171.6	1.62	40.66
41.0-42.0	94.3	6.9	178.5	1.62	42.29
42.0-43.0	92.8	6.9	185.4	1.63	43.92
43.0-44.0	91.3	6.9	192.2	1.63	45.55
44.0-45.0	89.7	6.9	199.1	1.63	47.18
45.0-46.0	88.1	6.9	206.0	1.63	48.82
46.0-47.0	86.5	6.9	212.9	1.63	50.45
47.0-48.0	84.8	6.9	219.8	1.63	52.07
48.0-49.0	83.2	6.8	226.6	1.62	53.69
49.0-50.0	81.5	6.8	233.4	1.61	55.30
50.0-51.0	79.8	6.8	240.2	1.60	56.90
51.0-52.0	78.1	6.7	246.9	1.59	58.49
52.0-53.0	76.4	6.6	253.5	1.57	60.06
53.0-54.0	74.6	6.6	260.1	1.56	61.62
54.0-55.0	72.8	6.5	266.6	1.54	63.16
55.0-56.0	71.1	6.4	273.0	1.52	64.68
56.0-57.0	69.3	6.3	279.3	1.50	66.18
57.0-58.0	67.5	6.2	285.6	1.48	67.66
58.0-59.0	65.6	6.1	291.7	1.45	69.12
59.0-60.0	63.8	6.0	297.7	1.43	70.54
60.0-61.0	62.0	5.9	303.7	1.40	71.95
61.0-62.0	60.1	5.8	309.4	1.37	73.32
62.0-63.0	58.3	5.7	315.1	1.34	74.66
63.0-64.0	56.5	5.5	320.7	1.31	75.98
64.0-65.0	54.6	5.4	326.1	1.28	77.26
65.0-66.0	52.8	5.3	331.3	1.25	78.50
66.0-67.0	50.9	5.1	336.5	1.21	79.72
67.0-68.0	49.1	5.0	341.4	1.18	80.90
68.0-69.0	47.3	4.8	346.3	1.14	82.04
69.0-70.0	45.4	4.7	350.9	1.11	83.15
70.0-71.0	43.6	4.5	355.4	1.07	84.21
71.0-72.0	41.9	4.4	359.8	1.03	85.25

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	40.1	4.2	364.0	0.99	86.24
73.0-74.0	38.3	4.0	368.0	0.96	87.19
74.0-75.0	36.6	3.9	371.9	0.92	88.11
75.0-76.0	34.9	3.7	375.6	0.88	88.99
76.0-77.0	33.2	3.5	379.1	0.84	89.82
77.0-78.0	31.5	3.4	382.5	0.80	90.62
78.0-79.0	29.9	3.2	385.7	0.76	91.38
79.0-80.0	28.2	3.0	388.7	0.72	92.11
80.0-81.0	26.6	2.9	391.6	0.68	92.79
81.0-82.0	25.1	2.7	394.3	0.64	93.43
82.0-83.0	23.5	2.6	396.9	0.61	94.04
83.0-84.0	22.0	2.4	399.3	0.57	94.60
84.0-85.0	20.5	2.2	401.5	0.53	95.14
85.0-86.0	19.1	2.1	403.6	0.49	95.63
86.0-87.0	17.6	1.9	405.5	0.46	96.09
87.0-88.0	16.3	1.8	407.3	0.42	96.51
88.0-89.0	14.9	1.6	409.0	0.39	96.90
89.0-90.0	13.7	1.5	410.5	0.36	97.25
90.0-91.0	12.5	1.4	411.8	0.32	97.58
91.0-92.0	11.2	1.2	413.1	0.29	97.87
92.0-93.0	9.9	1.1	414.1	0.26	98.13
93.0-94.0	8.5	0.9	415.1	0.22	98.35
94.0-95.0	7.2	0.8	415.9	0.19	98.53
95.0-96.0	5.8	0.6	416.5	0.15	98.68
96.0-97.0	4.7	0.5	417.0	0.12	98.81
97.0-98.0	3.7	0.4	417.4	0.10	98.90
98.0-99.0	2.9	0.3	417.7	0.07	98.98
99.0-100.0	2.2	0.2	418.0	0.06	99.03
100.0-101.0	1.7	0.2	418.1	0.04	99.07
101.0-102.0	1.3	0.1	418.3	0.03	99.11
102.0-103.0	1.1	0.1	418.4	0.03	99.14
103.0-104.0	0.9	0.1	418.5	0.02	99.16
104.0-105.0	0.8	0.1	418.6	0.02	99.18
105.0-106.0	0.6	0.1	418.7	0.02	99.19
106.0-107.0	0.6	0.1	418.7	0.01	99.21
107.0-108.0	0.5	0.1	418.8	0.01	99.22

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	0.5	0.1	418.8	0.01	99.23
109.0-110.0	0.5	0.1	418.9	0.01	99.25
110.0-111.0	0.5	0.1	418.9	0.01	99.26
111.0-112.0	0.5	0.1	419.0	0.01	99.27
112.0-113.0	0.5	0.1	419.0	0.01	99.28
113.0-114.0	0.5	0.1	419.1	0.01	99.30
114.0-115.0	0.5	0.1	419.1	0.01	99.31
115.0-116.0	0.6	0.1	419.2	0.01	99.32
116.0-117.0	0.6	0.1	419.2	0.01	99.33
117.0-118.0	0.6	0.1	419.3	0.01	99.35
118.0-119.0	0.6	0.1	419.4	0.01	99.36
119.0-120.0	0.6	0.1	419.4	0.01	99.38
120.0-121.0	0.6	0.1	419.5	0.01	99.39
121.0-122.0	0.6	0.1	419.5	0.01	99.40
122.0-123.0	0.6	0.1	419.6	0.01	99.42
123.0-124.0	0.7	0.1	419.7	0.01	99.43
124.0-125.0	0.7	0.1	419.7	0.01	99.45
125.0-126.0	0.7	0.1	419.8	0.01	99.46
126.0-127.0	0.7	0.1	419.8	0.01	99.48
127.0-128.0	0.7	0.1	419.9	0.01	99.49
128.0-129.0	0.7	0.1	420.0	0.01	99.50
129.0-130.0	0.7	0.1	420.0	0.01	99.52
130.0-131.0	0.8	0.1	420.1	0.02	99.53
131.0-132.0	0.8	0.1	420.2	0.01	99.55
132.0-133.0	0.8	0.1	420.2	0.01	99.56
133.0-134.0	0.8	0.1	420.3	0.01	99.58
134.0-135.0	0.8	0.1	420.3	0.01	99.59
135.0-136.0	0.8	0.1	420.4	0.01	99.61
136.0-137.0	0.8	0.1	420.5	0.01	99.62
137.0-138.0	0.8	0.1	420.5	0.01	99.64
138.0-139.0	0.8	0.1	420.6	0.01	99.65
139.0-140.0	0.8	0.1	420.6	0.01	99.67
140.0-141.0	0.9	0.1	420.7	0.01	99.68
141.0-142.0	0.9	0.1	420.8	0.01	99.69
142.0-143.0	0.9	0.1	420.8	0.01	99.71
143.0-144.0	0.9	0.1	420.9	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	0.9	0.1	420.9	0.01	99.73
145.0-146.0	0.9	0.1	421.0	0.01	99.75
146.0-147.0	0.9	0.1	421.0	0.01	99.76
147.0-148.0	0.9	0.1	421.1	0.01	99.77
148.0-149.0	0.9	0.1	421.2	0.01	99.79
149.0-150.0	0.9	0.1	421.2	0.01	99.80
150.0-151.0	0.9	0.1	421.3	0.01	99.81
151.0-152.0	1.0	0.1	421.3	0.01	99.82
152.0-153.0	1.0	0.0	421.4	0.01	99.83
153.0-154.0	1.0	0.0	421.4	0.01	99.84
154.0-155.0	1.0	0.0	421.4	0.01	99.86
155.0-156.0	1.0	0.0	421.5	0.01	99.87
156.0-157.0	1.0	0.0	421.5	0.01	99.88
157.0-158.0	1.0	0.0	421.6	0.01	99.89
158.0-159.0	1.0	0.0	421.6	0.01	99.90
159.0-160.0	1.0	0.0	421.7	0.01	99.90
160.0-161.0	1.0	0.0	421.7	0.01	99.91
161.0-162.0	1.0	0.0	421.7	0.01	99.92
162.0-163.0	1.0	0.0	421.8	0.01	99.93
163.0-164.0	1.0	0.0	421.8	0.01	99.94
164.0-165.0	1.0	0.0	421.8	0.01	99.95
165.0-166.0	1.1	0.0	421.9	0.01	99.95
166.0-167.0	1.1	0.0	421.9	0.01	99.96
167.0-168.0	1.1	0.0	421.9	0.01	99.96
168.0-169.0	1.1	0.0	421.9	0.01	99.97
169.0-170.0	1.1	0.0	421.9	0.01	99.98
170.0-171.0	1.1	0.0	422.0	0.00	99.98
171.0-172.0	1.1	0.0	422.0	0.00	99.98
172.0-173.0	1.1	0.0	422.0	0.00	99.99
173.0-174.0	1.1	0.0	422.0	0.00	99.99
174.0-175.0	1.1	0.0	422.0	0.00	99.99
175.0-176.0	1.1	0.0	422.0	0.00	100.00
176.0-177.0	1.1	0.0	422.0	0.00	100.00
177.0-178.0	1.1	0.0	422.1	0.00	100.00
178.0-179.0	1.1	0.0	422.1	0.00	100.00
179.0-180.0	1.1	0.0	422.1	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: