

Report No.:

Test Time: 2021/11/17 09:41

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: COB RIBBONLYTE

Luminaire Description: RBOLINEA674.3VW-6500

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

Lamp Description: 6500K

Number of Lamps: 576/M

Luminous Length (mm): 500

Luminous Width (mm): 10

Luminous Height (mm): 1.5

Voltage: 24.0 V

Current: 0.205 A

Power: 4.92 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 441.4 lm

Measurement Flux: 441.4 lm

Efficiency: 100%

Downward Ratio: 93%

Upward Ratio: 7%

Horizontal Diffuse Angle(10%,50%): H158,H112.3

Vertical Diffuse Angle(10%,50%): V217.9,V139.5

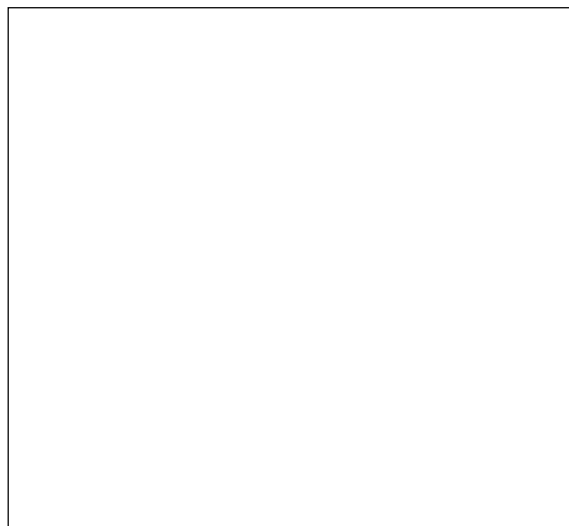
Luminaire Efficacy Rating (LER): 90

Central Intensity: 122.15 cd

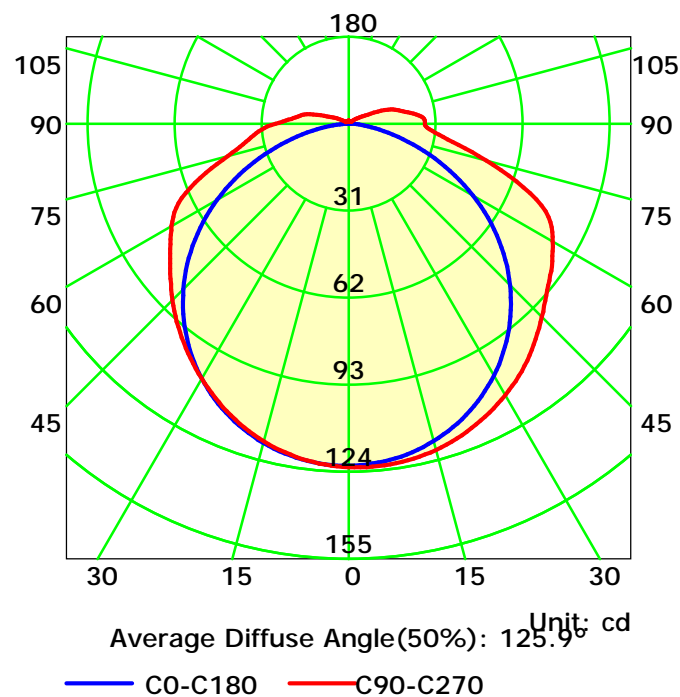
Max. Intensity: 122.84 cd

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

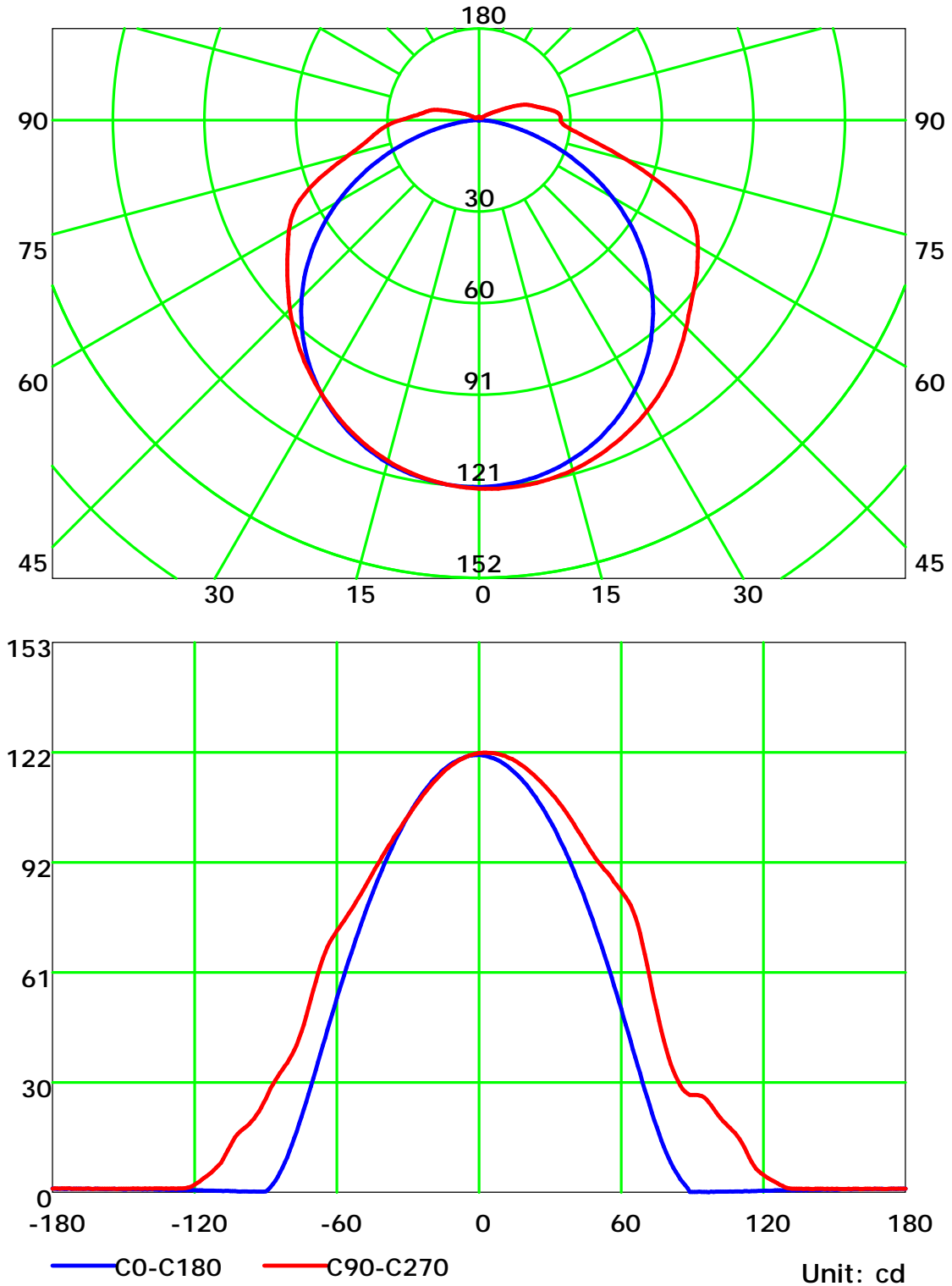
Distance: 9.028 m

Humidity: 60%

Inspector:



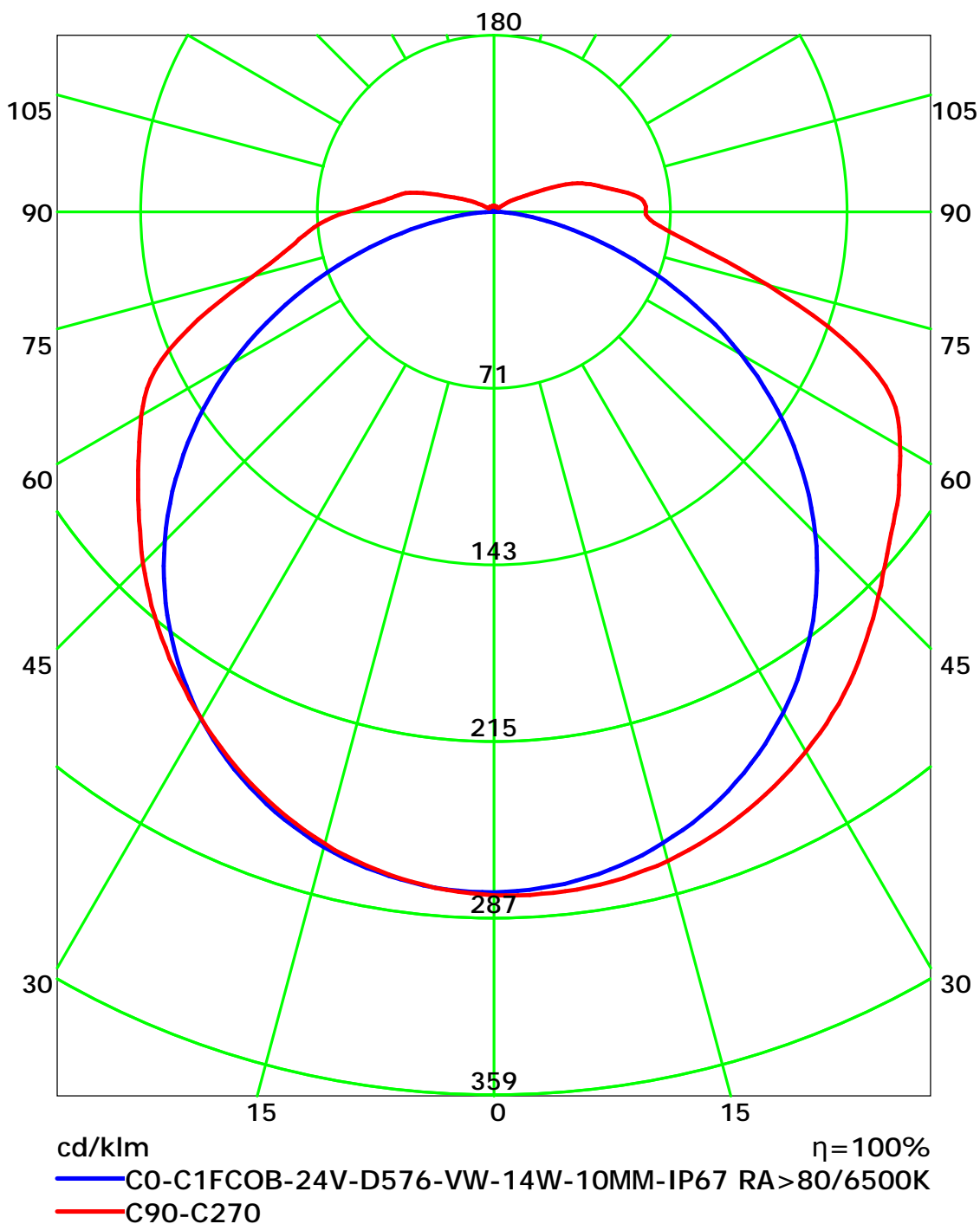
Luminous Intensity Distribution Curve



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:

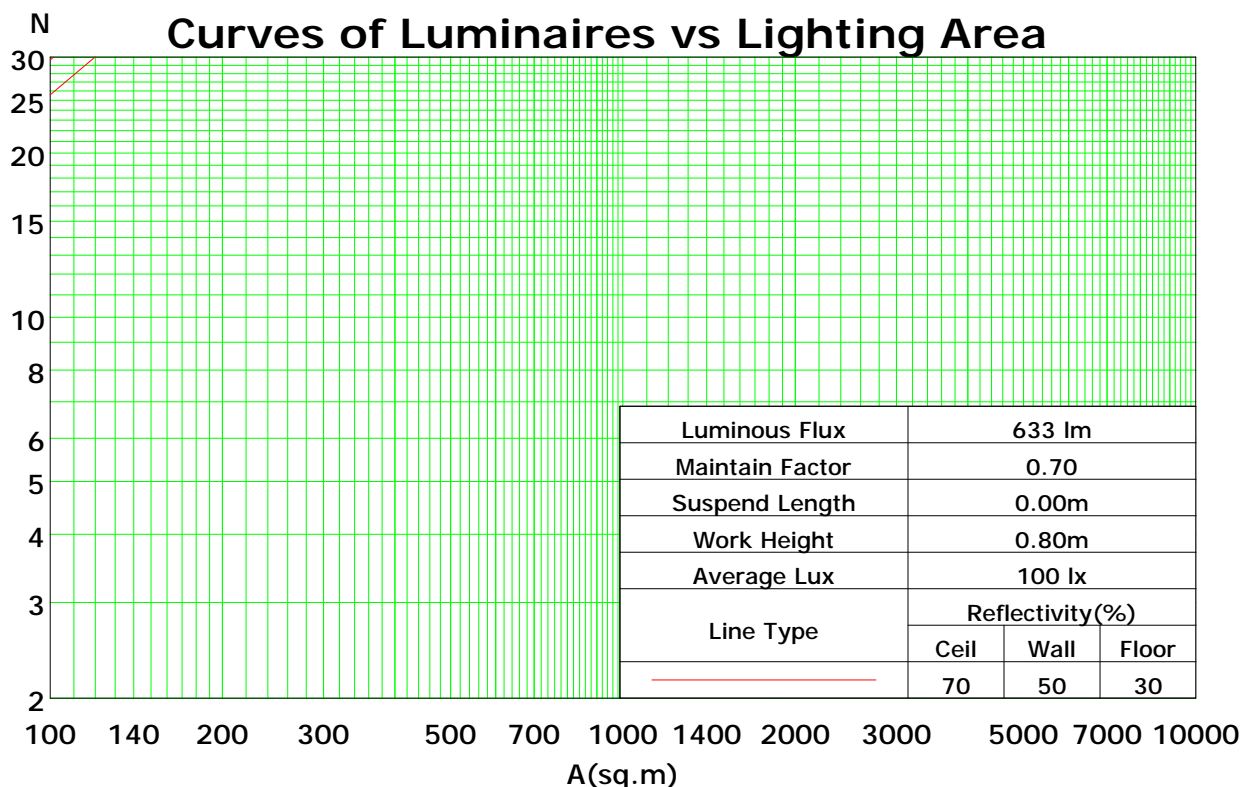
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	105	100	95	90	102	97	92	88	91	88	84	86	83	80	82	79	77	74
2	95	86	78	72	92	83	76	71	79	73	68	74	70	65	70	66	63	60
3	86	75	66	59	83	73	64	58	69	62	56	65	59	54	61	57	52	50
4	79	66	56	49	76	64	55	49	61	53	47	57	51	46	54	49	44	42
5	72	58	49	42	69	57	48	41	54	46	40	51	45	39	49	43	38	36
6	66	52	43	36	64	51	42	36	49	41	35	46	39	34	44	38	33	31
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	40	34	30	27
8	57	43	34	28	55	42	34	28	40	33	27	38	32	27	37	31	26	24
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	34	28	24	22
10	50	36	28	23	48	36	28	23	34	27	22	33	26	22	31	26	21	20

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.32

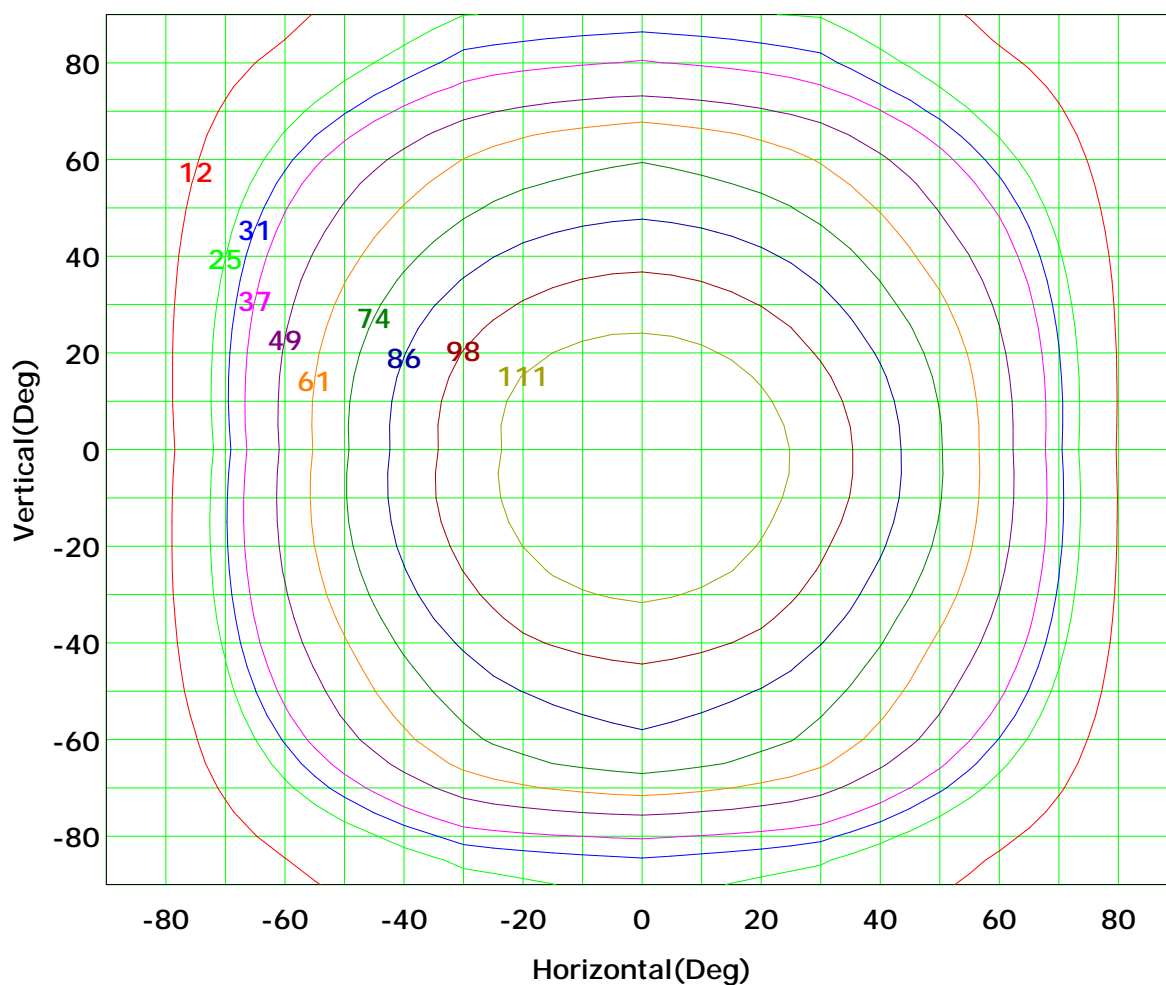
Spacing Criteria (Diagonal): 1.43



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)



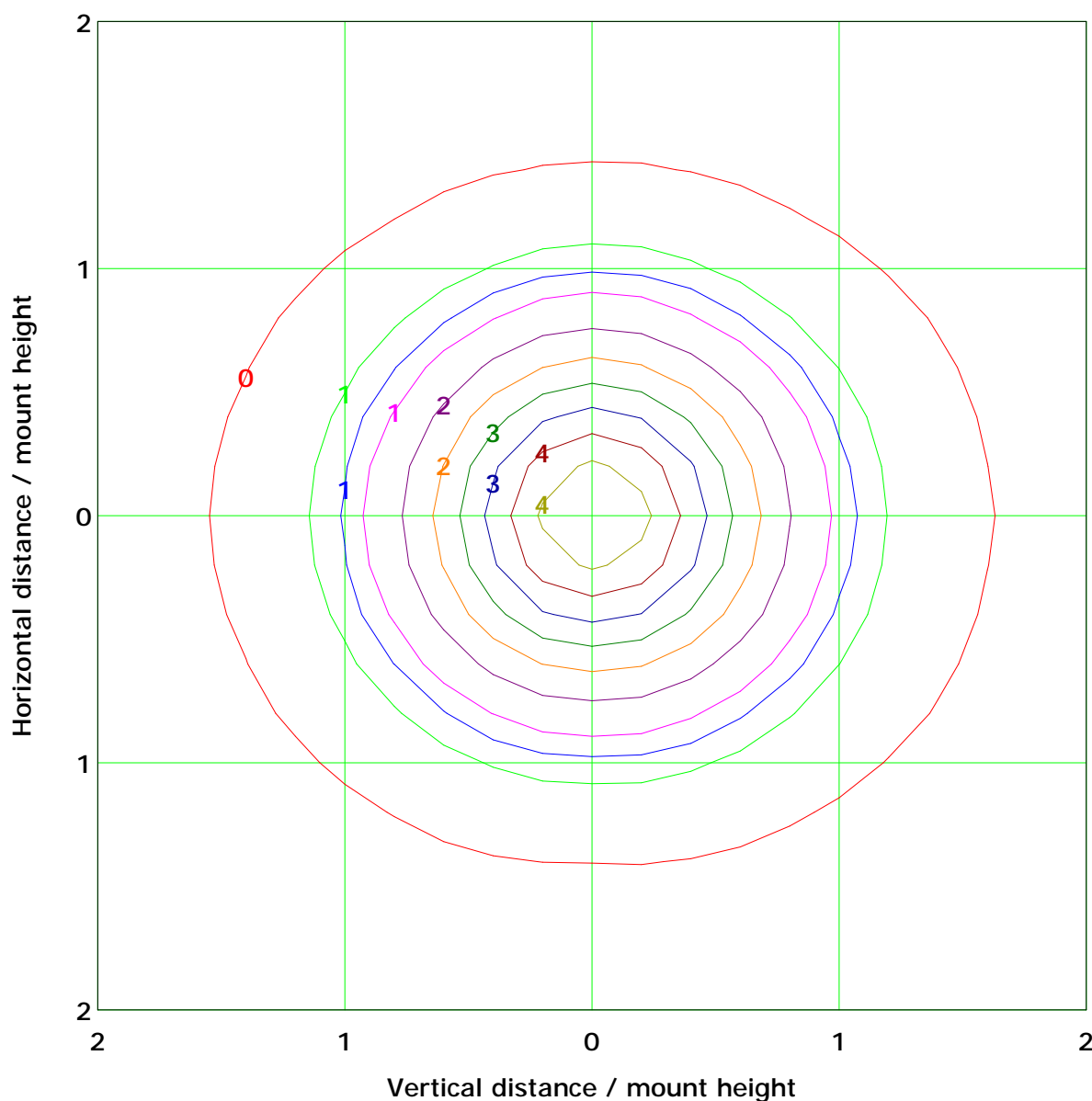
I_{max} (100%): 123 cd

(10%):	12 cd	(20%):	25 cd
(25%):	31 cd	(30%):	37 cd
(40%):	49 cd	(50%):	61 cd
(60%):	74 cd	(70%):	86 cd
(80%):	98 cd	(90%):	111 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%): 4.9 lx

(10%): 0.5 lx	(20%): 1.0 lx
(25%): 1.2 lx	(30%): 1.5 lx
(40%): 2.0 lx	(50%): 2.5 lx
(60%): 2.9 lx	(70%): 3.4 lx
(80%): 3.9 lx	(90%): 4.4 lx

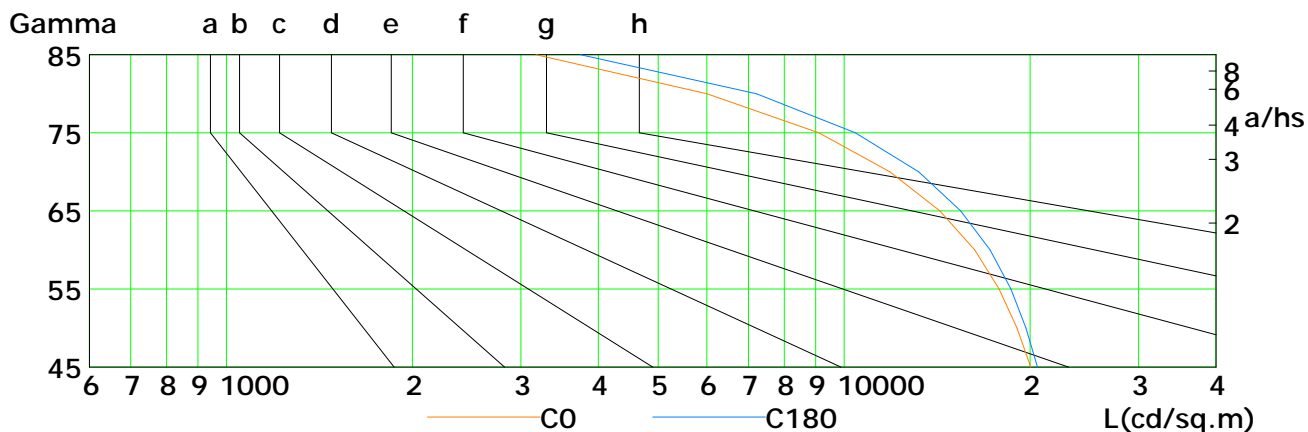
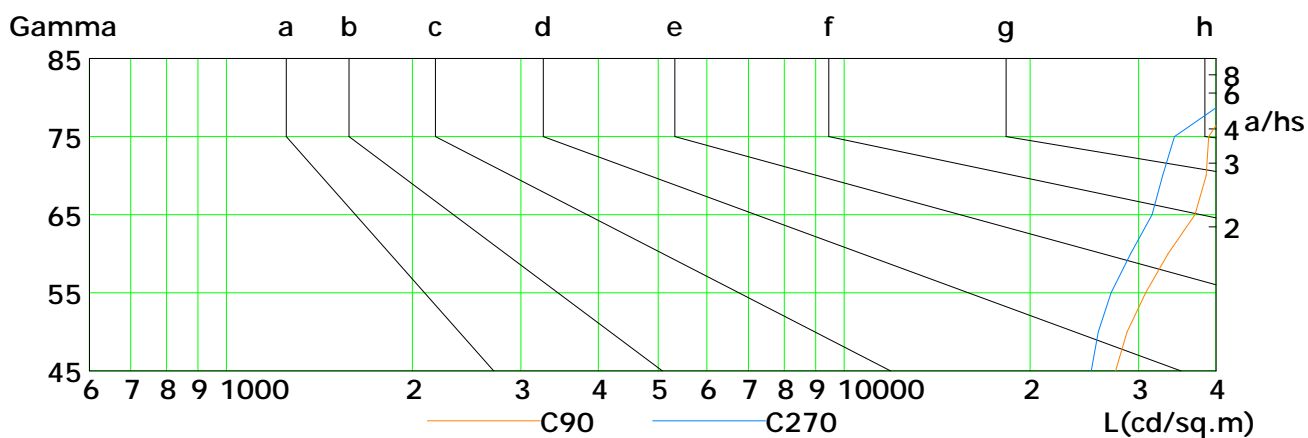
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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

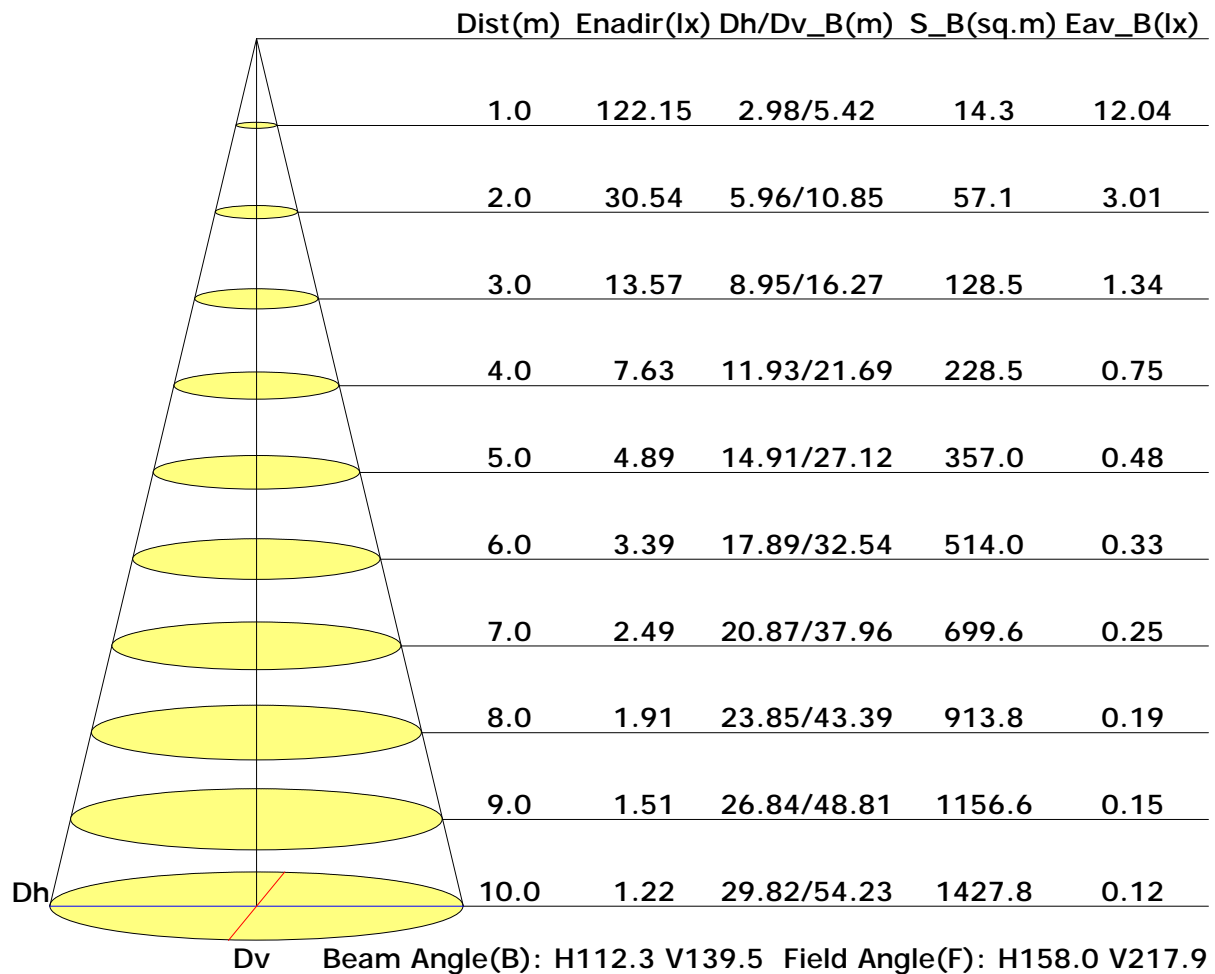


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	20055	19066	17833	16285	14294	11860	9101	5999	3170
C90	27526	28716	30790	33482	37011	38580	38920	42740	66427
C180	20561	19694	18620	17247	15443	13206	10428	7213	3745
C270	25129	25811	27061	29093	31542	32786	34258	42253	71973

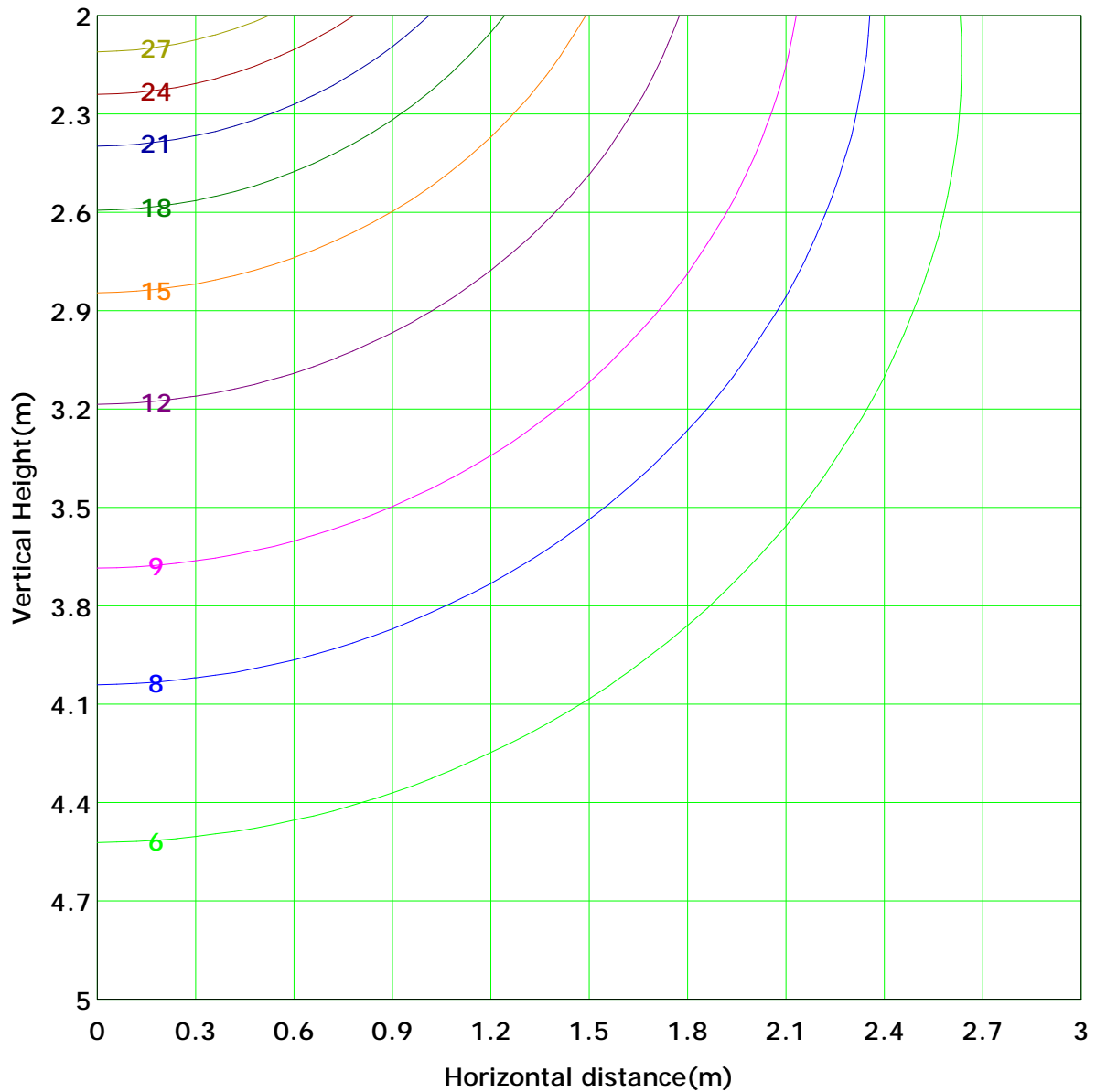
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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: 30.5 lx
(10%): 3.1 lx	(20%): 6.1 lx	
(25%): 7.6 lx	(30%): 9.2 lx	
(40%): 12.2 lx	(50%): 15.3 lx	
(60%): 18.3 lx	(70%): 21.4 lx	
(80%): 24.4 lx	(90%): 27.5 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

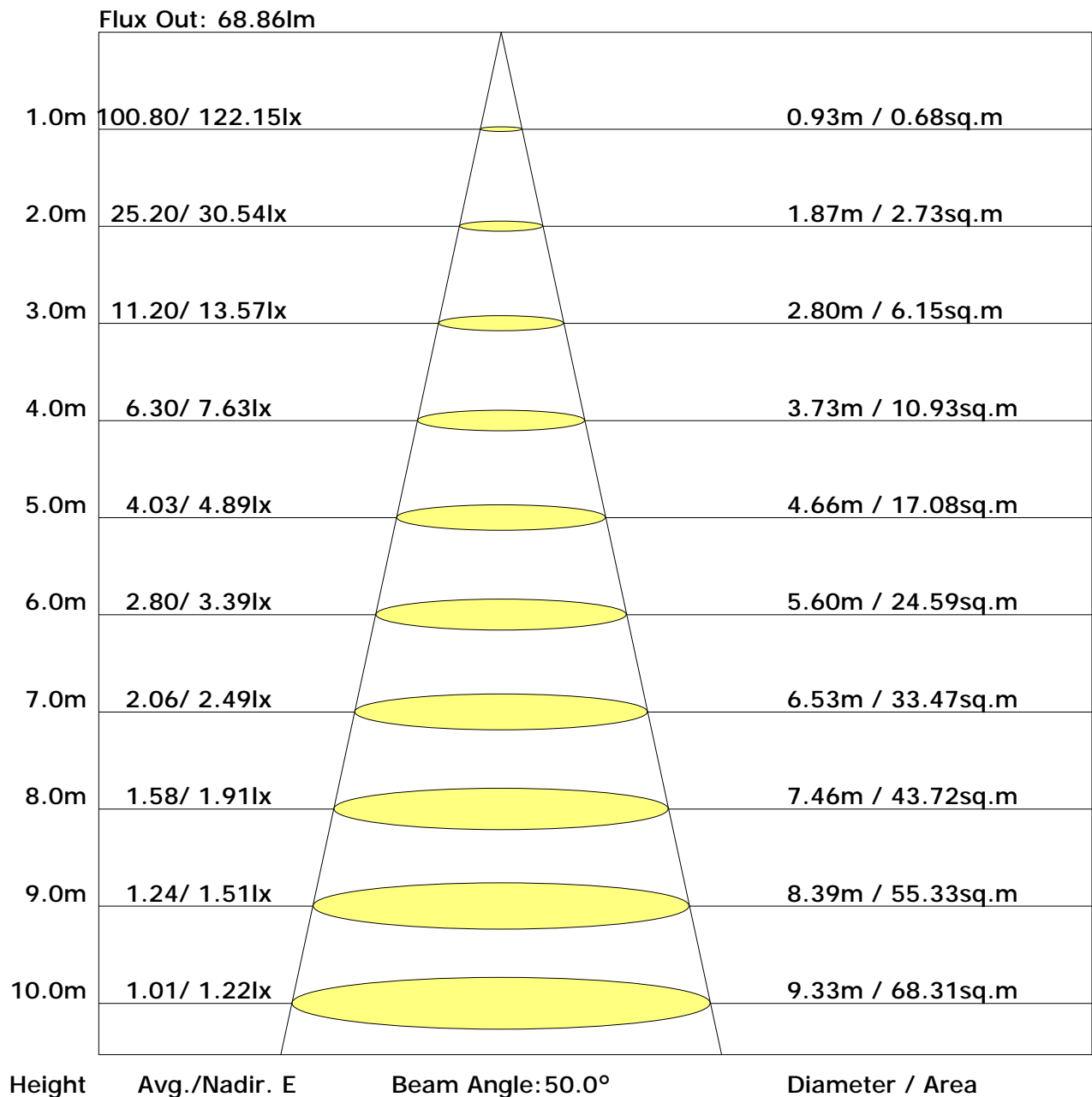
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.1	0.3	0.4	0.6	0.8	0.9	1.0	1.0	0.9	0.8	0.7	0.4	0.3	0.1	0.0	0.0	0.0	8.4	8.0
	-80	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.3	1.4	1.4	1.3	1.1	0.9	0.6	0.4	0.2	0.1	0.0	0.0	11.7	11.5
	-70	0.0	0.1	0.3	0.5	0.8	1.2	1.6	1.8	2.0	2.0	1.8	1.6	1.2	0.9	0.5	0.3	0.1	0.0	0.0	16.7	16.6
	-60	0.0	0.1	0.3	0.7	1.1	1.5	1.9	2.2	2.3	2.3	2.2	1.9	1.6	1.1	0.7	0.3	0.1	0.0	0.0	20.4	20.3
	-50	0.0	0.1	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.5	2.2	1.8	1.3	0.8	0.4	0.1	0.0	0.0	23.6	23.5
	-40	0.0	0.2	0.5	0.9	1.4	2.0	2.5	2.8	3.0	3.0	2.8	2.5	2.0	1.5	0.9	0.5	0.1	0.0	0.0	26.7	26.6
	-30	0.0	0.2	0.5	1.0	1.6	2.2	2.7	3.1	3.3	3.3	3.1	2.7	2.2	1.6	1.0	0.5	0.2	0.0	0.0	29.3	29.3
	-20	0.0	0.2	0.6	1.1	1.7	2.3	2.9	3.3	3.5	3.5	3.3	2.9	2.4	1.7	1.1	0.5	0.2	0.0	0.0	31.3	31.3
	-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	0.5	0.2	0.0	0.0	32.3	32.3
	0	0.0	0.2	0.6	1.1	1.8	2.5	3.0	3.5	3.7	3.7	3.5	3.0	2.4	1.8	1.1	0.5	0.2	0.0	0.0	32.5	32.5
	10	0.0	0.2	0.6	1.1	1.8	2.4	3.0	3.4	3.6	3.6	3.4	3.0	2.4	1.7	1.1	0.5	0.2	0.0	0.0	32.0	32.0
	20	0.0	0.2	0.6	1.1	1.7	2.3	2.8	3.2	3.5	3.5	3.3	2.9	2.3	1.7	1.0	0.5	0.2	0.0	0.0	30.6	30.5
	30	0.0	0.2	0.5	1.1	1.5	2.1	2.6	3.0	3.2	3.2	3.0	2.7	2.1	1.5	1.0	0.5	0.1	0.0	0.0	28.4	28.3
	40	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	1.5	1.0	0.5	0.1	0.0	0.0	25.6	25.6
	50	0.0	0.1	0.4	0.9	1.4	1.9	2.4	2.7	2.9	2.9	2.7	2.4	1.9	1.4	0.9	0.4	0.1	0.0	0.0	22.9	22.8
	60	0.0	0.1	0.4	0.7	1.2	1.7	2.2	2.5	2.6	2.6	2.5	2.2	1.7	1.2	0.8	0.4	0.1	0.0	0.0	19.3	19.1
	70	0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.1	2.3	2.3	2.1	1.9	1.4	1.0	0.6	0.3	0.1	0.0	0.0	12.9	12.7
	80	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.4	1.5	1.5	1.4	1.3	1.0	0.7	0.4	0.2	0.1	0.0	0.0	7.9	7.5
	90	0.0	0.0	0.1	0.2	0.4	0.6	0.7	0.8	0.9	0.9	0.9	0.8	0.6	0.4	0.3	0.1	0.0	0.0	0.0	412	
	Flux(E)	0.0	1.8	6.7	13.7	22.1	30.8	38.4	43.9	47.1	47.2	44.2	38.8	31.1	22.4	13.8	6.5	1.6	0.0	0.0	410	

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	24.7	26.3	25.2	26.8	27.2	26.4	27.9	26.8	28.4	28.8
3H	26.4	27.9	26.9	28.3	28.8	28.9	30.4	29.4	30.8	31.3
4H	27.0	28.4	27.5	28.8	29.4	29.9	31.2	30.3	31.7	32.2
6H	27.3	28.6	27.9	29.1	29.6	30.6	31.9	31.1	32.4	32.9
8H	27.4	28.6	28.0	29.2	29.7	30.9	32.2	31.5	32.7	33.2
12H	27.5	28.7	28.0	29.2	29.7	31.3	32.4	31.8	32.9	33.5
X=4H Y=2H	25.7	27.0	26.2	27.5	28.0	27.0	28.3	27.5	28.8	29.3
3H	27.7	28.8	28.2	29.3	29.9	29.8	30.9	30.3	31.5	32.0
4H	28.4	29.4	28.9	30.0	30.6	30.9	31.9	31.4	32.5	33.0
6H	28.9	29.8	29.4	30.4	31.0	31.8	32.7	32.4	33.3	33.9
8H	29.0	29.9	29.6	30.5	31.1	32.2	33.1	32.8	33.6	34.3
12H	29.2	29.9	29.7	30.5	31.1	32.6	33.4	33.2	34.0	34.6
X=8H Y=4H	29.0	29.9	29.6	30.5	31.1	31.2	32.1	31.7	32.6	33.2
6H	29.7	30.5	30.3	31.1	31.7	32.3	33.0	32.9	33.6	34.3
8H	30.0	30.7	30.6	31.3	31.9	32.8	33.5	33.4	34.1	34.7
12H	30.2	30.8	30.8	31.4	32.1	33.4	34.0	34.0	34.6	35.3
X=12H Y=4H	29.2	30.0	29.7	30.5	31.2	31.2	32.0	31.8	32.6	33.2
6H	30.0	30.7	30.6	31.2	31.9	32.4	33.0	33.0	33.6	34.3
8H	30.4	31.0	31.0	31.6	32.2	33.0	33.6	33.6	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	0.95	0.99	
	0.30		0.46	0.54	0.62	0.67	0.75	0.81	0.85	0.91	0.95	
	0.20		0.40	0.48	0.56	0.61	0.70	0.76	0.80	0.86	0.91	
0.50	0.50	0.20	0.52	0.59	0.66	0.71	0.78	0.82	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	0.85	0.88	
	0.30		0.44	0.51	0.57	0.62	0.69	0.74	0.77	0.82	0.86	
	0.20		0.39	0.46	0.53	0.58	0.65	0.70	0.74	0.79	0.83	
0.00	0.00	0.00	0.36	0.42	0.49	0.54	0.61	0.65	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												

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		0.84	0.74	0.64	0.58	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	0.37	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	0.67	0.59	0.47	0.40	0.35	0.27	0.23	
	0.30		0.78	0.69	0.60	0.53	0.44	0.37	0.33	0.26	0.22	
	0.20		0.68	0.61	0.54	0.49	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												

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	0.26	0.26	0.26	0.27	0.27
	0.30		0.16	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	0.17	0.18	0.19	0.21	0.22
0.30	0.50	0.20	0.21	0.23	0.23	0.24	0.25	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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	122.5	0.1	0.1	0.03	0.03
1.0-2.0	122.5	0.4	0.5	0.08	0.11
2.0-3.0	122.4	0.6	1.1	0.13	0.24
3.0-4.0	122.3	0.8	1.9	0.19	0.42
4.0-5.0	122.1	1.1	2.9	0.24	0.66
5.0-6.0	122.0	1.3	4.2	0.29	0.95
6.0-7.0	121.8	1.5	5.7	0.34	1.30
7.0-8.0	121.5	1.7	7.5	0.39	1.69
8.0-9.0	121.2	2.0	9.4	0.45	2.13
9.0-10.0	120.9	2.2	11.6	0.50	2.63
10.0-11.0	120.5	2.4	14.0	0.55	3.18
11.0-12.0	120.1	2.6	16.6	0.60	3.77
12.0-13.0	119.7	2.8	19.5	0.64	4.42
13.0-14.0	119.3	3.1	22.5	0.69	5.11
14.0-15.0	118.8	3.3	25.8	0.74	5.85
15.0-16.0	118.2	3.5	29.3	0.78	6.63
16.0-17.0	117.6	3.7	32.9	0.83	7.46
17.0-18.0	117.0	3.9	36.8	0.87	8.34
18.0-19.0	116.4	4.0	40.8	0.92	9.25
19.0-20.0	115.7	4.2	45.1	0.96	10.21
20.0-21.0	115.0	4.4	49.5	1.00	11.21
21.0-22.0	114.3	4.6	54.1	1.04	12.25
22.0-23.0	113.5	4.8	58.8	1.08	13.33
23.0-24.0	112.7	4.9	63.8	1.12	14.45
24.0-25.0	111.8	5.1	68.9	1.15	15.60
25.0-26.0	110.9	5.2	74.1	1.19	16.79
26.0-27.0	110.0	5.4	79.5	1.22	18.01
27.0-28.0	109.1	5.5	85.0	1.25	19.26
28.0-29.0	108.1	5.7	90.7	1.28	20.54
29.0-30.0	107.1	5.8	96.4	1.31	21.85
30.0-31.0	106.1	5.9	102.4	1.34	23.19
31.0-32.0	105.0	6.0	108.4	1.36	24.55
32.0-33.0	104.0	6.1	114.5	1.39	25.94
33.0-34.0	102.8	6.2	120.7	1.41	27.35
34.0-35.0	101.7	6.3	127.0	1.43	28.78
35.0-36.0	100.5	6.4	133.4	1.45	30.23

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	99.4	6.5	139.9	1.47	31.70
37.0-38.0	98.1	6.6	146.5	1.48	33.19
38.0-39.0	96.9	6.6	153.1	1.50	34.68
39.0-40.0	95.6	6.7	159.8	1.51	36.19
40.0-41.0	94.3	6.7	166.5	1.52	37.72
41.0-42.0	93.0	6.8	173.2	1.53	39.25
42.0-43.0	91.6	6.8	180.0	1.54	40.78
43.0-44.0	90.2	6.8	186.8	1.54	42.33
44.0-45.0	88.8	6.8	193.6	1.55	43.88
45.0-46.0	87.4	6.8	200.5	1.55	45.42
46.0-47.0	86.0	6.8	207.3	1.55	46.97
47.0-48.0	84.5	6.8	214.2	1.55	48.52
48.0-49.0	83.1	6.8	221.0	1.55	50.07
49.0-50.0	81.6	6.8	227.8	1.54	51.61
50.0-51.0	80.1	6.8	234.6	1.54	53.15
51.0-52.0	78.6	6.7	241.3	1.53	54.67
52.0-53.0	77.1	6.7	248.0	1.52	56.19
53.0-54.0	75.7	6.7	254.7	1.51	57.70
54.0-55.0	74.2	6.6	261.3	1.50	59.21
55.0-56.0	72.7	6.6	267.9	1.49	60.69
56.0-57.0	71.2	6.5	274.4	1.48	62.17
57.0-58.0	69.8	6.5	280.8	1.46	63.63
58.0-59.0	68.3	6.4	287.2	1.45	65.08
59.0-60.0	66.8	6.3	293.5	1.43	66.51
60.0-61.0	65.3	6.2	299.8	1.41	67.92
61.0-62.0	63.8	6.1	305.9	1.39	69.31
62.0-63.0	62.3	6.1	312.0	1.37	70.68
63.0-64.0	60.7	6.0	317.9	1.35	72.03
64.0-65.0	59.0	5.8	323.8	1.32	73.36
65.0-66.0	57.3	5.7	329.5	1.30	74.65
66.0-67.0	55.5	5.6	335.1	1.26	75.92
67.0-68.0	53.6	5.4	340.5	1.23	77.15
68.0-69.0	51.5	5.3	345.8	1.19	78.34
69.0-70.0	49.4	5.1	350.8	1.15	79.49
70.0-71.0	47.1	4.9	355.7	1.10	80.59
71.0-72.0	44.9	4.7	360.4	1.06	81.65

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	42.6	4.5	364.8	1.01	82.66
73.0-74.0	40.3	4.2	369.1	0.96	83.62
74.0-75.0	38.0	4.0	373.1	0.91	84.53
75.0-76.0	35.8	3.8	376.9	0.86	85.39
76.0-77.0	33.7	3.6	380.5	0.81	86.21
77.0-78.0	31.8	3.4	383.9	0.77	86.98
78.0-79.0	29.9	3.2	387.1	0.73	87.70
79.0-80.0	28.1	3.0	390.1	0.69	88.39
80.0-81.0	26.4	2.9	393.0	0.65	89.04
81.0-82.0	24.9	2.7	395.7	0.61	89.65
82.0-83.0	23.4	2.5	398.2	0.58	90.22
83.0-84.0	22.0	2.4	400.6	0.54	90.77
84.0-85.0	20.8	2.3	402.9	0.51	91.28
85.0-86.0	19.5	2.1	405.0	0.48	91.77
86.0-87.0	18.4	2.0	407.0	0.46	92.22
87.0-88.0	17.4	1.9	408.9	0.43	92.65
88.0-89.0	16.5	1.8	410.8	0.41	93.06
89.0-90.0	15.7	1.7	412.5	0.39	93.45
90.0-91.0	15.1	1.7	414.1	0.38	93.83
91.0-92.0	14.6	1.6	415.7	0.36	94.19
92.0-93.0	14.2	1.6	417.3	0.35	94.55
93.0-94.0	13.8	1.5	418.8	0.34	94.89
94.0-95.0	13.4	1.5	420.3	0.33	95.22
95.0-96.0	13.0	1.4	421.7	0.32	95.54
96.0-97.0	12.6	1.4	423.1	0.31	95.85
97.0-98.0	12.2	1.3	424.4	0.30	96.15
98.0-99.0	11.7	1.3	425.7	0.29	96.44
99.0-100.0	11.2	1.2	426.9	0.28	96.72
100.0-101.0	10.7	1.2	428.0	0.26	96.98
101.0-102.0	10.1	1.1	429.1	0.24	97.22
102.0-103.0	9.4	1.0	430.1	0.23	97.45
103.0-104.0	8.7	0.9	431.0	0.21	97.66
104.0-105.0	8.0	0.8	431.9	0.19	97.85
105.0-106.0	7.3	0.8	432.7	0.18	98.03
106.0-107.0	6.7	0.7	433.4	0.16	98.19
107.0-108.0	6.2	0.6	434.0	0.15	98.33

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	5.6	0.6	434.6	0.13	98.47
109.0-110.0	5.1	0.5	435.1	0.12	98.59
110.0-111.0	4.6	0.5	435.6	0.11	98.70
111.0-112.0	4.1	0.4	436.0	0.10	98.79
112.0-113.0	3.7	0.4	436.4	0.08	98.87
113.0-114.0	3.3	0.3	436.7	0.07	98.95
114.0-115.0	2.9	0.3	437.0	0.07	99.02
115.0-116.0	2.6	0.3	437.3	0.06	99.07
116.0-117.0	2.3	0.2	437.5	0.05	99.13
117.0-118.0	2.1	0.2	437.7	0.05	99.17
118.0-119.0	1.9	0.2	437.9	0.04	99.21
119.0-120.0	1.7	0.2	438.1	0.04	99.25
120.0-121.0	1.6	0.1	438.2	0.03	99.29
121.0-122.0	1.5	0.1	438.3	0.03	99.32
122.0-123.0	1.3	0.1	438.5	0.03	99.34
123.0-124.0	1.2	0.1	438.6	0.03	99.37
124.0-125.0	1.2	0.1	438.7	0.02	99.39
125.0-126.0	1.1	0.1	438.8	0.02	99.42
126.0-127.0	1.0	0.1	438.9	0.02	99.44
127.0-128.0	1.0	0.1	439.0	0.02	99.46
128.0-129.0	1.0	0.1	439.1	0.02	99.48
129.0-130.0	1.0	0.1	439.1	0.02	99.49
130.0-131.0	0.9	0.1	439.2	0.02	99.51
131.0-132.0	0.9	0.1	439.3	0.02	99.53
132.0-133.0	0.9	0.1	439.4	0.02	99.55
133.0-134.0	0.9	0.1	439.4	0.02	99.56
134.0-135.0	0.9	0.1	439.5	0.02	99.58
135.0-136.0	0.9	0.1	439.6	0.02	99.60
136.0-137.0	1.0	0.1	439.7	0.02	99.61
137.0-138.0	1.0	0.1	439.7	0.02	99.63
138.0-139.0	1.0	0.1	439.8	0.02	99.65
139.0-140.0	1.0	0.1	439.9	0.02	99.66
140.0-141.0	1.0	0.1	439.9	0.02	99.68
141.0-142.0	1.0	0.1	440.0	0.02	99.69
142.0-143.0	1.0	0.1	440.1	0.01	99.71
143.0-144.0	1.0	0.1	440.1	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	1.0	0.1	440.2	0.01	99.74
145.0-146.0	1.0	0.1	440.3	0.01	99.75
146.0-147.0	1.0	0.1	440.3	0.01	99.76
147.0-148.0	1.0	0.1	440.4	0.01	99.78
148.0-149.0	1.0	0.1	440.4	0.01	99.79
149.0-150.0	1.0	0.1	440.5	0.01	99.80
150.0-151.0	1.0	0.1	440.5	0.01	99.81
151.0-152.0	1.0	0.1	440.6	0.01	99.83
152.0-153.0	1.0	0.1	440.6	0.01	99.84
153.0-154.0	1.0	0.1	440.7	0.01	99.85
154.0-155.0	1.0	0.0	440.7	0.01	99.86
155.0-156.0	1.0	0.0	440.8	0.01	99.87
156.0-157.0	1.0	0.0	440.8	0.01	99.88
157.0-158.0	1.0	0.0	440.9	0.01	99.89
158.0-159.0	1.0	0.0	440.9	0.01	99.90
159.0-160.0	1.0	0.0	441.0	0.01	99.91
160.0-161.0	1.0	0.0	441.0	0.01	99.92
161.0-162.0	1.0	0.0	441.0	0.01	99.93
162.0-163.0	1.0	0.0	441.1	0.01	99.93
163.0-164.0	1.1	0.0	441.1	0.01	99.94
164.0-165.0	1.1	0.0	441.1	0.01	99.95
165.0-166.0	1.1	0.0	441.2	0.01	99.95
166.0-167.0	1.1	0.0	441.2	0.01	99.96
167.0-168.0	1.1	0.0	441.2	0.01	99.97
168.0-169.0	1.1	0.0	441.2	0.01	99.97
169.0-170.0	1.1	0.0	441.3	0.00	99.98
170.0-171.0	1.1	0.0	441.3	0.00	99.98
171.0-172.0	1.1	0.0	441.3	0.00	99.98
172.0-173.0	1.1	0.0	441.3	0.00	99.99
173.0-174.0	1.1	0.0	441.3	0.00	99.99
174.0-175.0	1.1	0.0	441.3	0.00	99.99
175.0-176.0	1.1	0.0	441.3	0.00	100.00
176.0-177.0	1.1	0.0	441.4	0.00	100.00
177.0-178.0	1.1	0.0	441.4	0.00	100.00
178.0-179.0	1.1	0.0	441.4	0.00	100.00
179.0-180.0	1.1	0.0	441.4	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: