

Report No.:

Test Time: 2021/11/16 11:27

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: COB RIBBONLYTE

Lamp Catalog: FCOB-24V-D480-2700-8W-6MM-IP20 RA>90

Lamp Description: 2700K

Luminous Length (mm): 500

Luminous Height (mm): 1.5

Current: 0.157 A

Power Factor: 1.000

Luminaire Description: RB90LINEA202.427

Number of Lamps: 480/M

Luminous Width (mm): 6

Voltage: 24.0 V

Power: 3.78 W

Photometric Results

CIE Class: Direct

Measurement Flux: 247.6 lm

Downward Ratio: 97%

Horizontal Diffuse Angle(10%,50%): H159.6,H112.3

Vertical Diffuse Angle(10%,50%): V193,V149.6

Luminaire Efficacy Rating (LER): 65

Max. Intensity: 68.48 cd

Total Rated Lamp Lumens: 247.6 lm

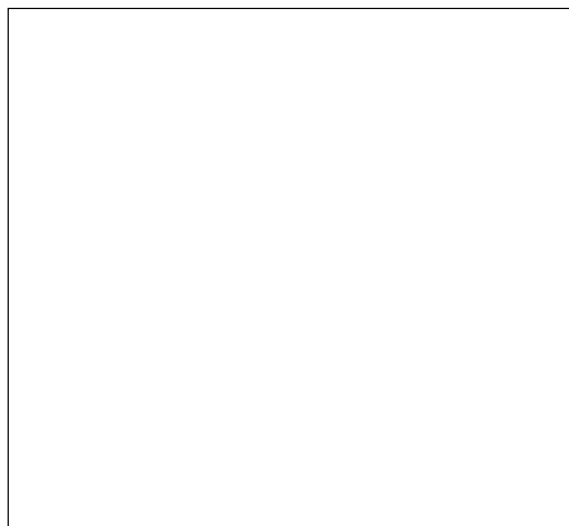
Efficiency: 100%

Upward Ratio: 3%

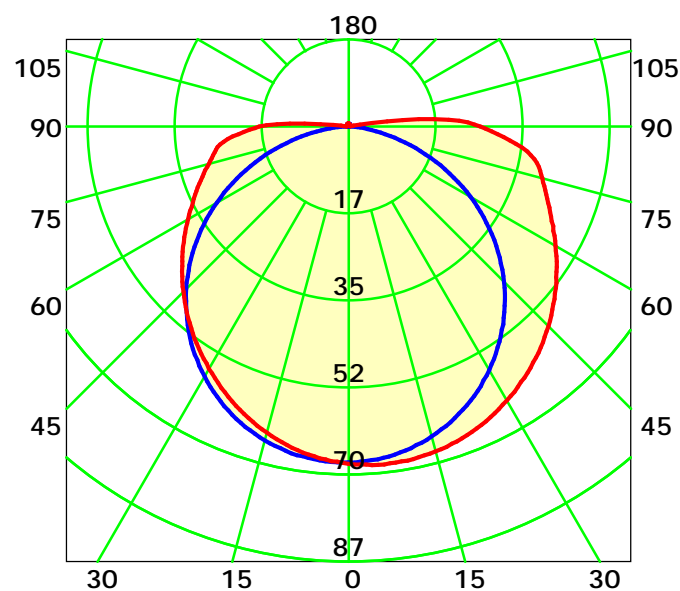
Central Intensity: 67.68 cd

Pos of Max. Intensity: H90 V6

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 130.9° Unit: cd

— C0-C180 — C90-C270

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

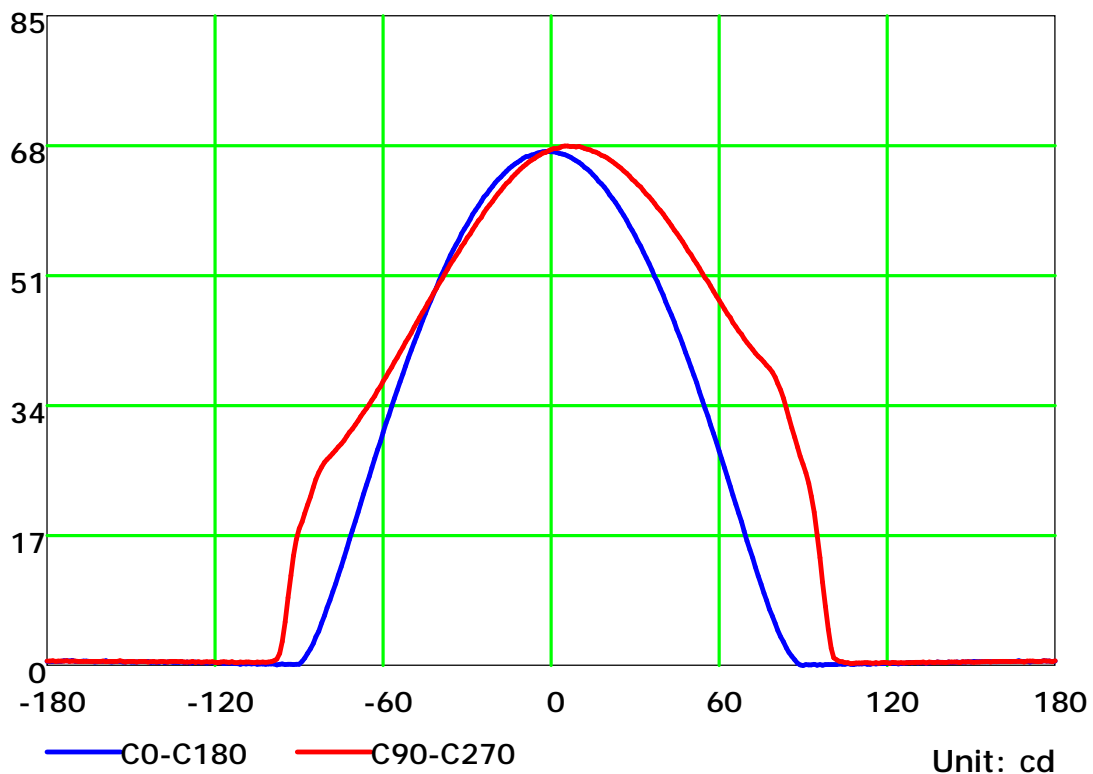
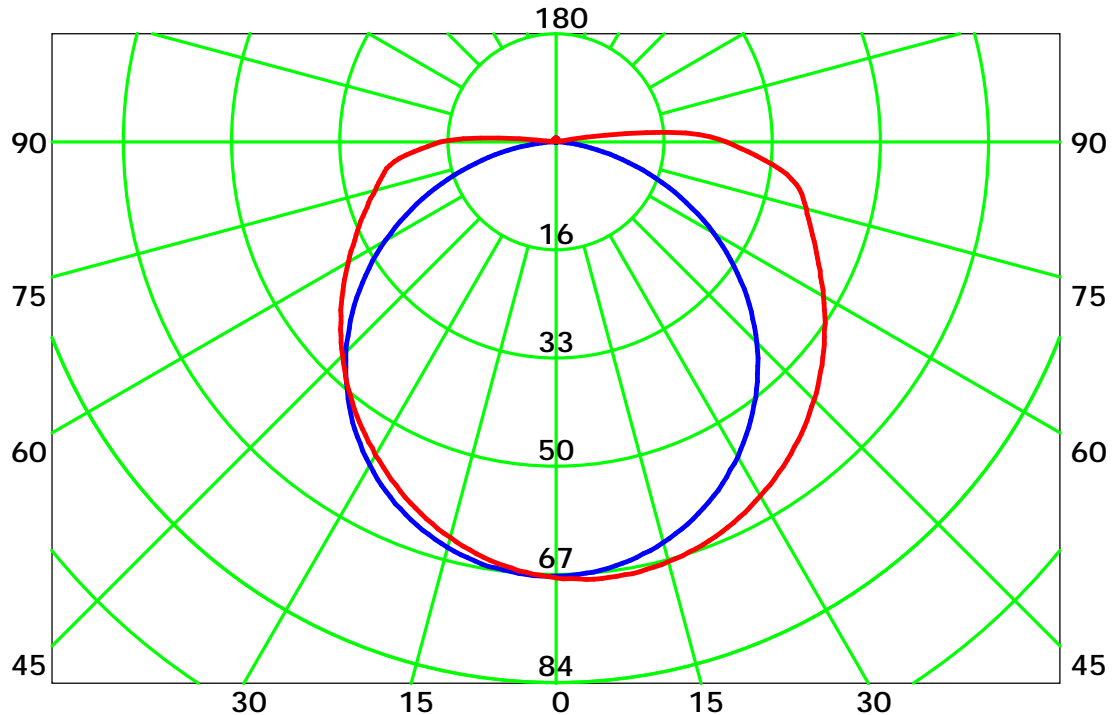
Distance: 9.028 m

Humidity: 60%

Inspector:



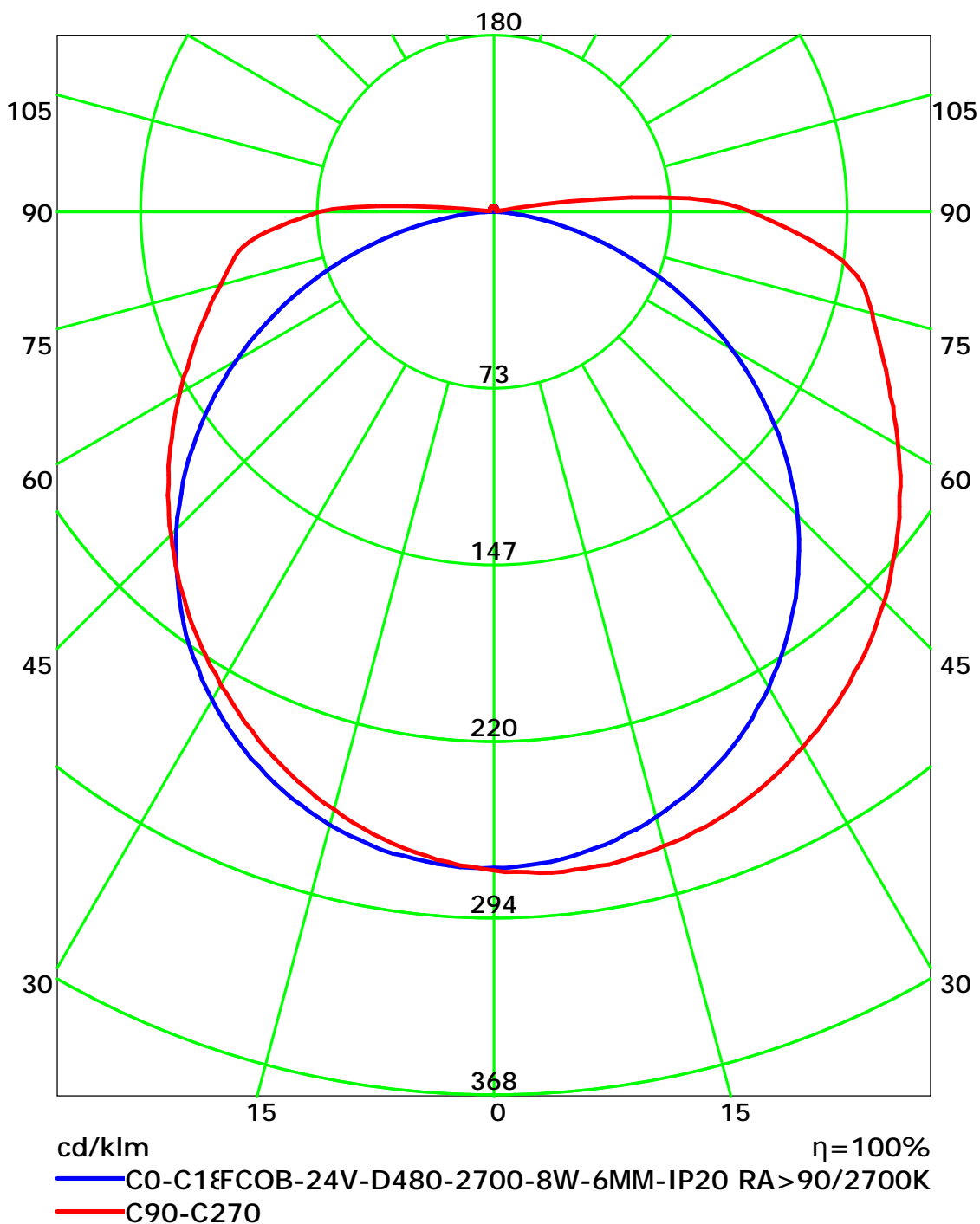
Luminous Intensity Distribution Curve



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:

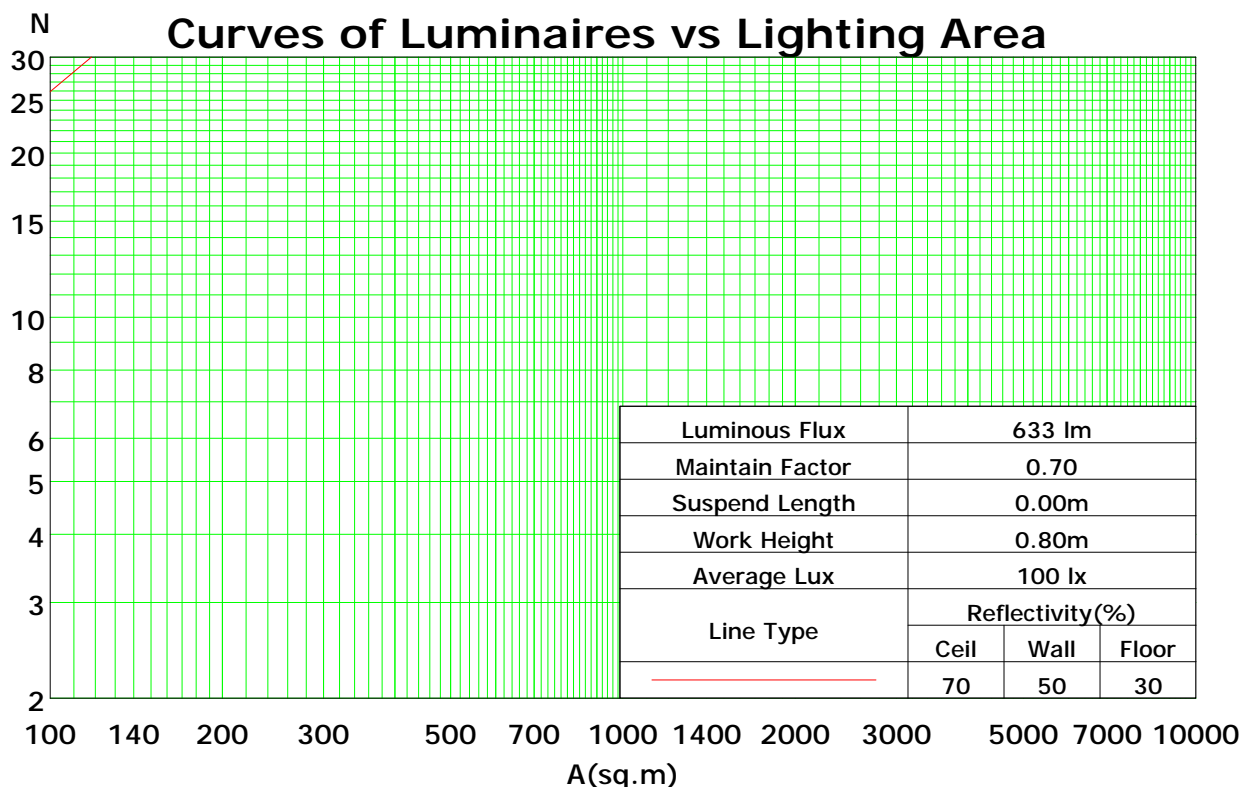
Coefficients Of Utilization - Zonal Cavity Method

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	109	109	109	104	104	104	99	99	99	97
1	105	99	93	88	102	96	91	87	91	87	83	87	83	80	82	80	77	74
2	94	85	76	70	91	82	75	69	78	72	66	74	69	64	71	66	62	60
3	85	73	64	57	82	71	63	56	68	61	55	65	58	53	61	56	52	49
4	78	65	55	47	75	63	54	47	60	52	46	57	50	45	54	49	44	41
5	71	57	48	40	69	56	47	40	53	45	39	51	44	38	49	43	38	35
6	66	51	42	35	64	50	41	35	48	40	34	46	39	34	44	38	33	31
7	61	47	37	31	59	46	37	30	44	36	30	42	35	30	40	34	29	27
8	57	42	33	27	55	42	33	27	40	32	27	38	31	26	37	31	26	24
9	53	39	30	24	51	38	30	24	37	29	24	35	29	24	34	28	23	21
10	50	36	28	22	48	35	27	22	34	27	22	33	26	21	32	26	21	19

Spacing Criteria (0-180): 1.26

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

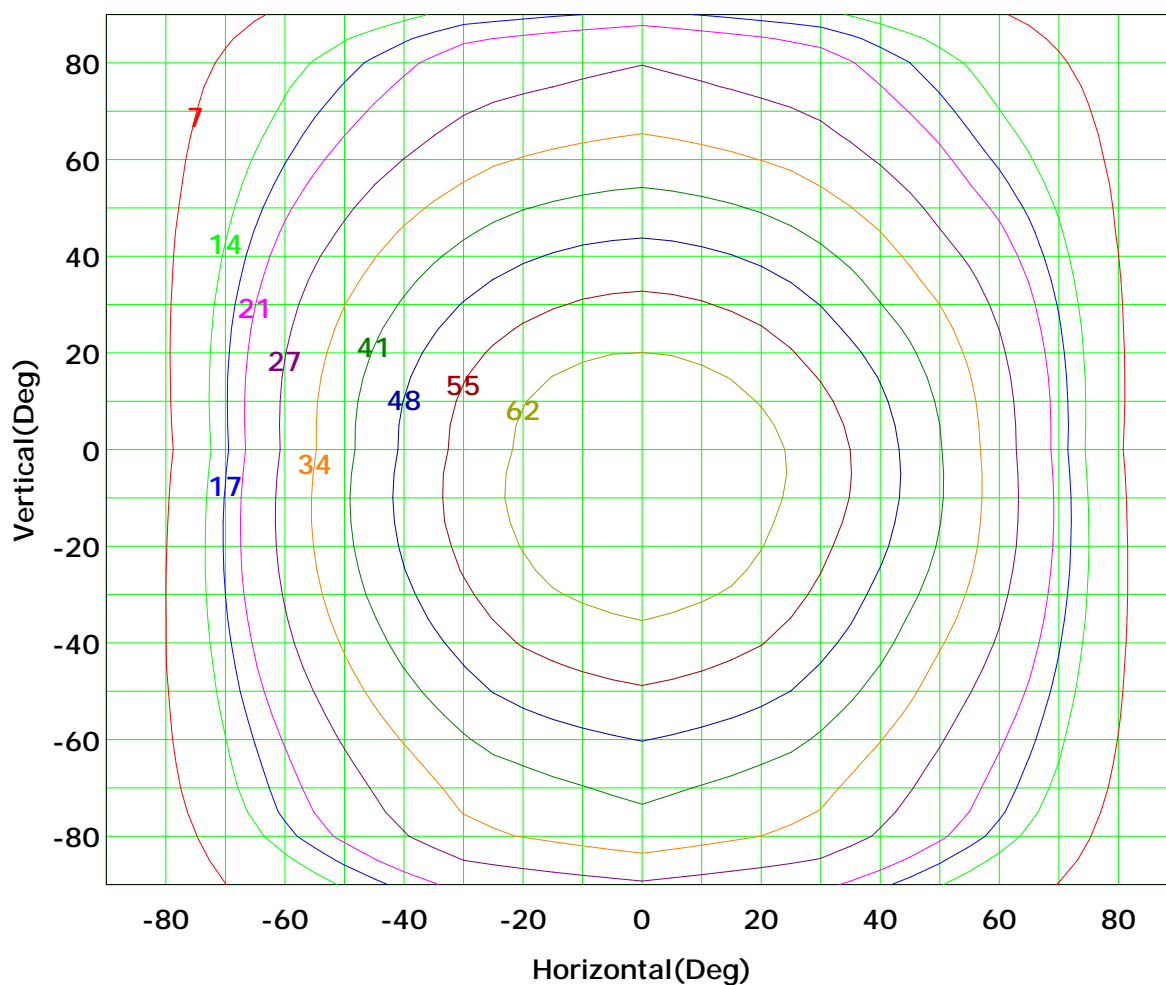
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



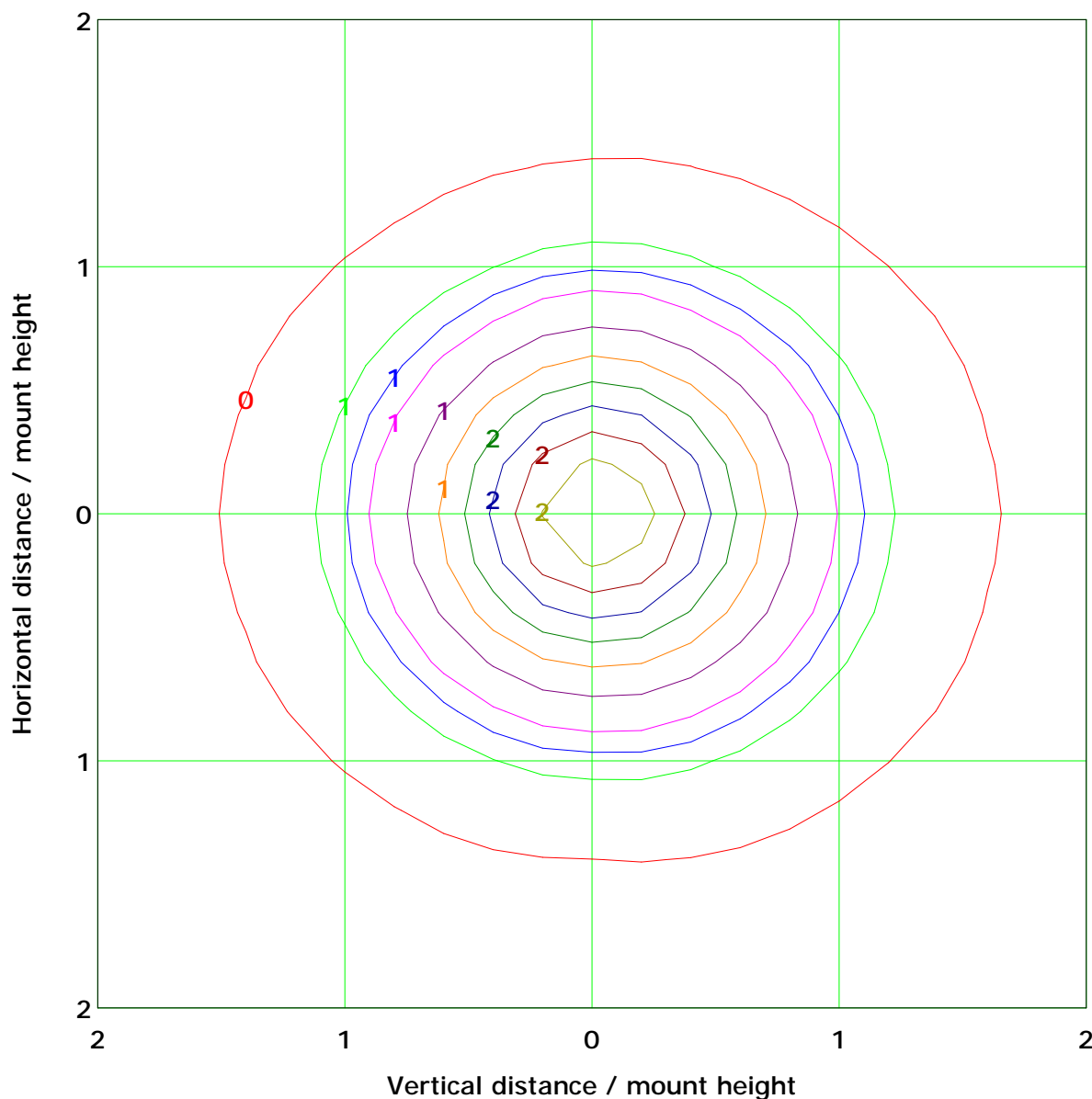
I_{max} (100%): 68 cd

(10%):	7 cd	(20%):	14 cd
(25%):	17 cd	(30%):	21 cd
(40%):	27 cd	(50%):	34 cd
(60%):	41 cd	(70%):	48 cd
(80%):	55 cd	(90%):	62 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%): 2.7 lx

(10%): 0.3 lx	(20%): 0.5 lx
(25%): 0.7 lx	(30%): 0.8 lx
(40%): 1.1 lx	(50%): 1.4 lx
(60%): 1.6 lx	(70%): 1.9 lx
(80%): 2.2 lx	(90%): 2.5 lx

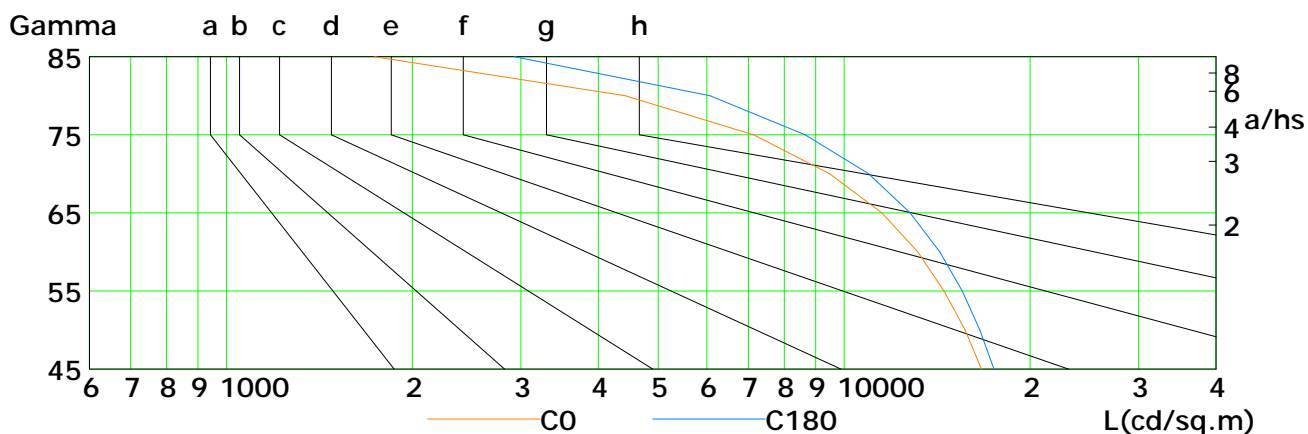
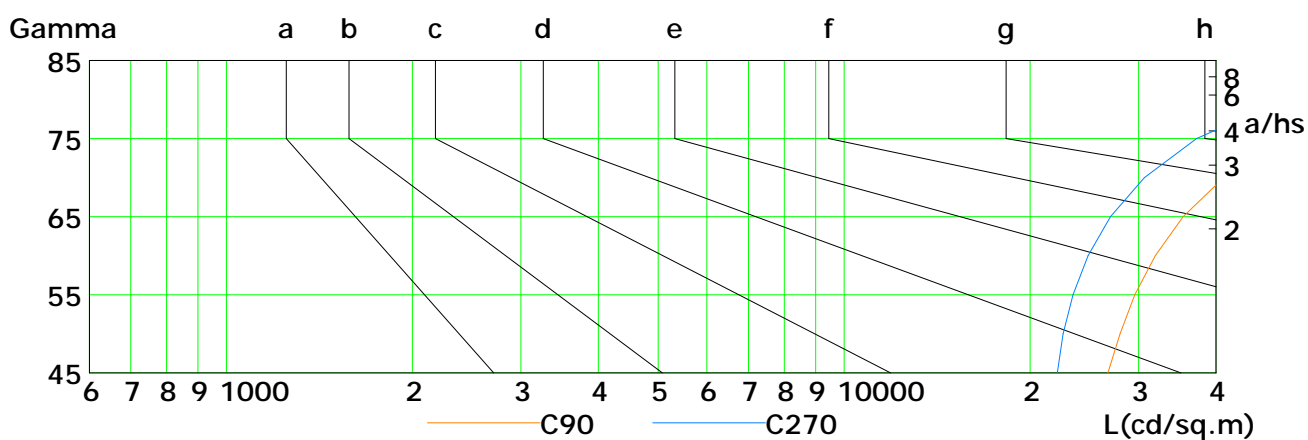
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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

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

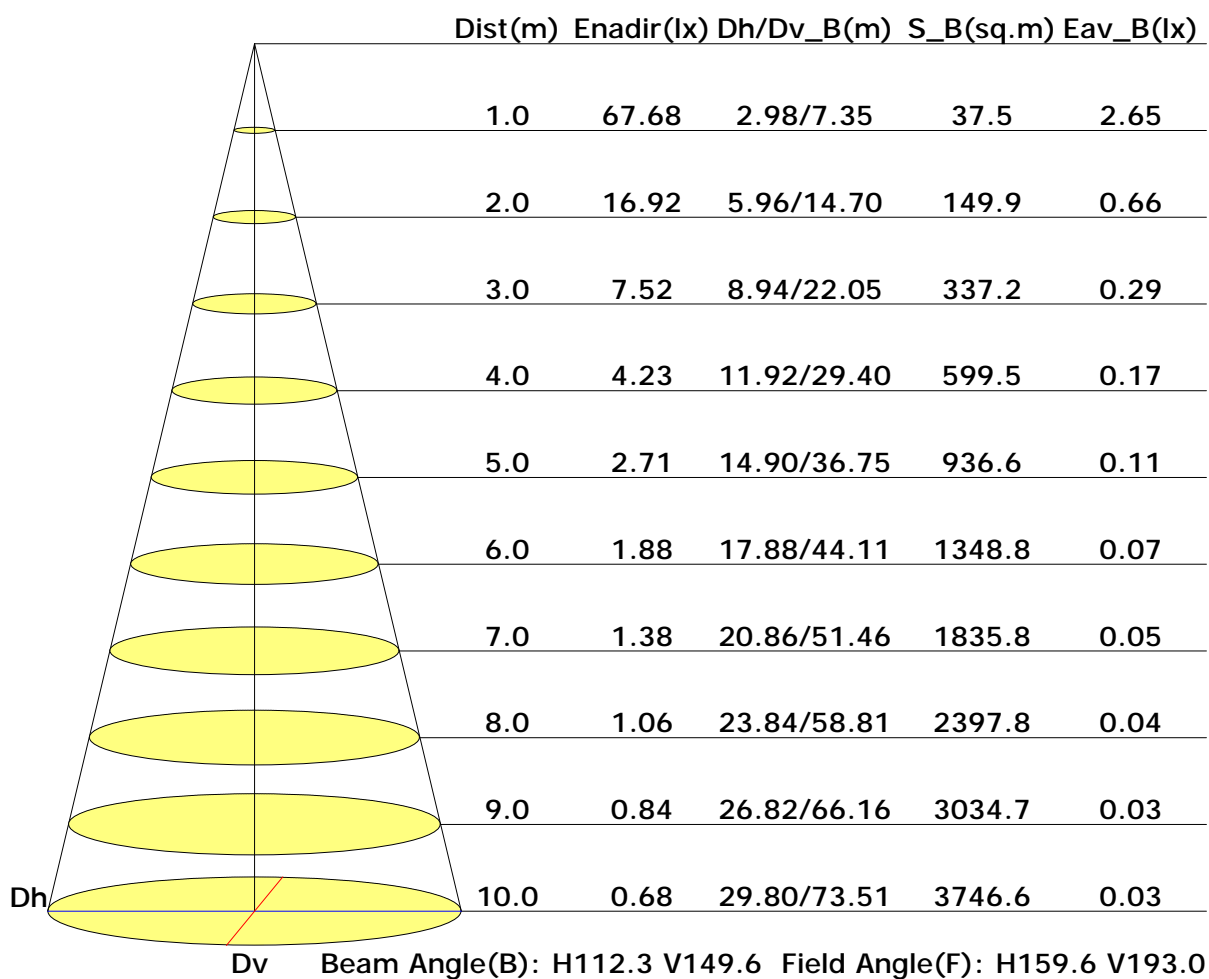


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16691	15702	14513	13161	11522	9481	7142	4422	1735
C90	26757	27976	29564	31921	35392	41159	51455	71762	120695
C180	17483	16593	15545	14292	12795	10966	8655	6066	2925
C270	22141	22638	23482	24831	26983	30652	37203	51320	86898

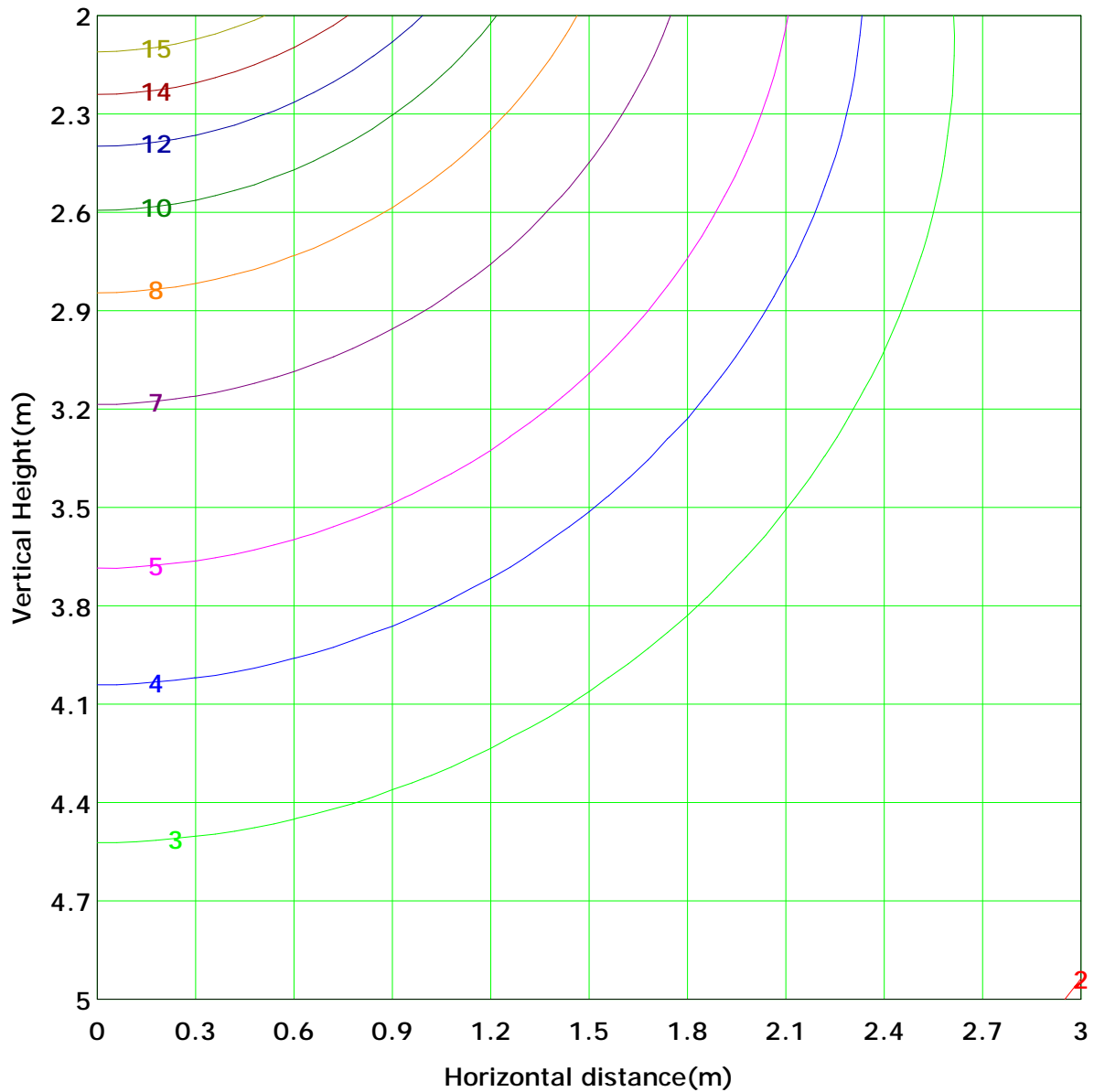
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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: 16.9 lx
(10%): 1.7 lx	(20%): 3.4 lx	
(25%): 4.2 lx	(30%): 5.1 lx	
(40%): 6.8 lx	(50%): 8.5 lx	
(60%): 10.2 lx	(70%): 11.8 lx	
(80%): 13.5 lx	(90%): 15.2 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

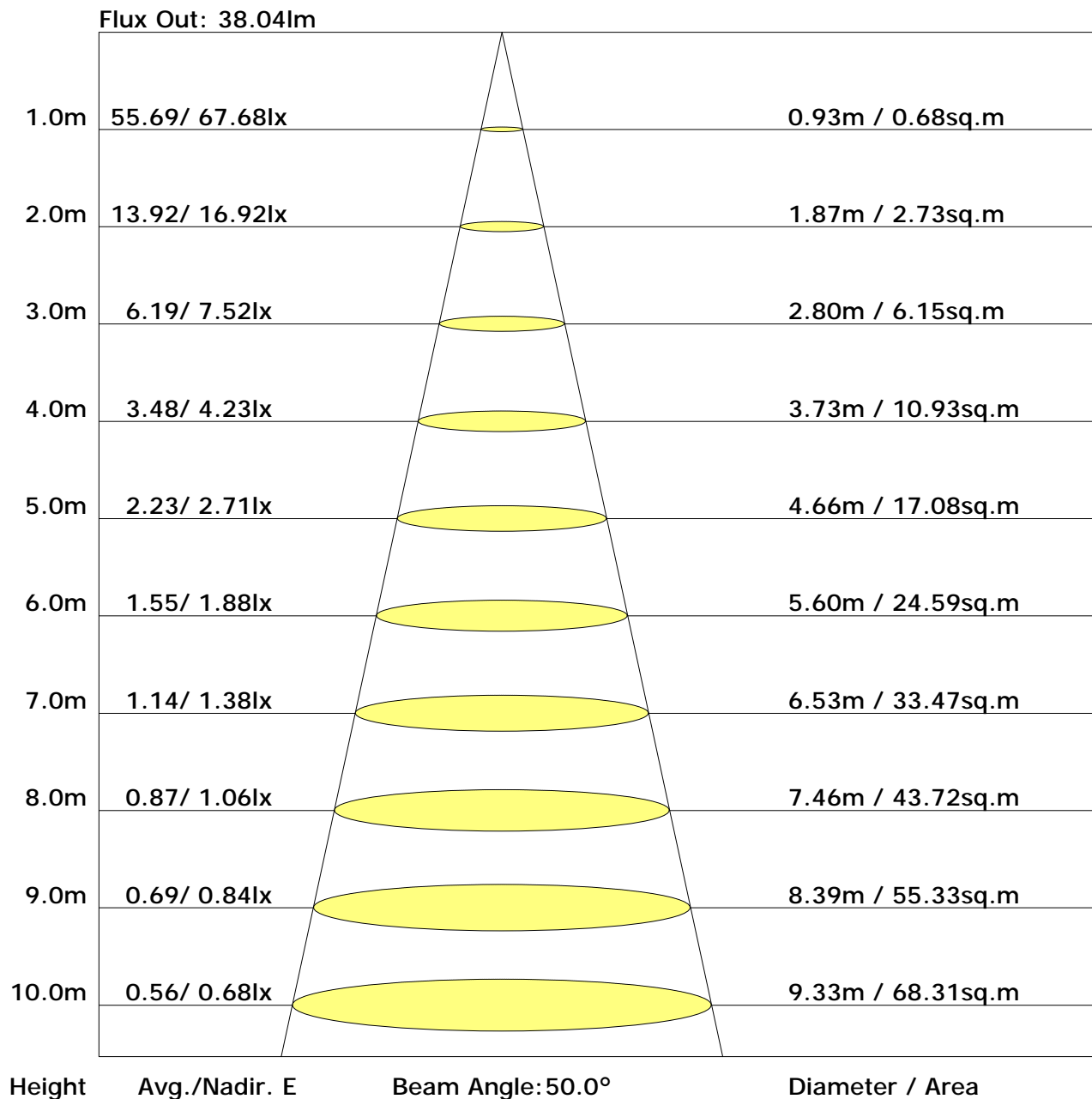
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.2	0.0
	-80	0.0	0.1	0.1	0.3	0.4	0.6	0.7	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.1	0.0	0.0	1.6	1.4
	-70	0.0	0.1	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.2	0.0	0.0	4.4	4.4
	-60	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.1	1.0	0.9	0.8	0.6	0.4	0.1	0.0	0.0	8.3	8.3
	-50	0.0	0.1	0.2	0.4	0.7	0.9	1.2	1.3	1.4	1.4	1.3	1.2	1.1	0.9	0.7	0.5	0.2	0.0	0.0	12.9	12.9
	-40	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.5	1.6	1.6	1.5	1.4	1.3	1.1	0.9	0.7	0.3	0.0	0.0	17.8	17.8
	-30	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.8	1.7	1.6	1.5	1.3	1.0	0.8	0.4	0.0	0.0	22.1	22.1
	-20	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.8	1.9	2.0	2.0	1.9	1.8	1.6	1.4	1.1	0.7	0.0	0.0	25.3	25.3
	-10	0.0	0.1	0.3	0.6	1.0	1.3	1.7	1.9	2.0	2.1	2.1	2.0	1.9	1.7	1.5	1.2	0.8	0.0	0.0	27.2	27.2
	0	0.0	0.1	0.3	0.6	1.0	1.3	1.7	1.9	2.0	2.1	2.1	2.0	1.9	1.7	1.5	1.2	0.8	0.0	0.0	27.2	27.2
	10	0.0	0.1	0.3	0.6	1.0	1.3	1.7	1.9	2.0	2.1	2.1	2.0	1.9	1.7	1.5	1.2	0.8	0.0	0.0	25.4	25.4
	20	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.9	1.9	1.8	1.7	1.6	1.4	1.1	0.7	0.0	0.0	22.2	22.2
	30	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.9	1.9	1.8	1.7	1.6	1.4	1.1	0.7	0.0	0.0	17.9	17.9
	40	0.0	0.1	0.3	0.6	0.9	1.2	1.5	1.7	1.8	1.9	1.9	1.8	1.7	1.6	1.4	1.1	0.7	0.0	0.0	12.9	12.9
	50	0.0	0.1	0.3	0.5	0.8	1.1	1.4	1.6	1.7	1.7	1.7	1.6	1.5	1.4	1.3	1.0	0.6	0.0	0.0	8.2	8.2
	60	0.0	0.1	0.2	0.5	0.7	1.0	1.2	1.4	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.8	0.4	0.0	0.0	4.2	4.2
	70	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.2	1.3	1.3	1.2	1.1	1.0	0.9	0.7	0.5	0.2	0.0	0.0	1.4	1.4
	80	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	0.6	0.4	0.3	0.1	0.0	0.0	0.2	0.2
	90	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	239	239
	Flux(E)	0.0	1.4	4.4	8.3	12.9	17.8	22.1	25.3	27.2	27.2	25.4	22.2	17.9	12.9	8.2	4.2	1.2	0.0	0.0	239	239

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	26.3	28.0	26.7	28.4	28.8	28.0	29.7	28.4	30.0	30.4
3H	28.1	29.6	28.5	30.0	30.5	30.7	32.2	31.1	32.6	33.0
4H	28.7	30.2	29.2	30.6	31.0	32.0	33.5	32.4	33.9	34.3
6H	29.2	30.5	29.6	31.0	31.4	33.4	34.8	33.9	35.2	35.7
8H	29.3	30.6	29.8	31.1	31.5	34.1	35.4	34.5	35.8	36.3
12H	29.4	30.6	29.8	31.1	31.6	34.7	36.0	35.2	36.4	36.9
X=4H Y=2H	27.2	28.7	27.6	29.1	29.5	28.6	30.1	29.0	30.5	30.9
3H	29.3	30.5	29.7	31.0	31.5	31.6	32.9	32.1	33.3	33.8
4H	30.1	31.3	30.6	31.7	32.2	33.1	34.3	33.6	34.8	35.3
6H	30.8	31.8	31.3	32.3	32.8	34.8	35.8	35.2	36.3	36.8
8H	31.0	32.0	31.5	32.5	33.0	35.5	36.5	36.0	37.0	37.5
12H	31.1	32.0	31.7	32.6	33.1	36.3	37.2	36.8	37.7	38.2
X=8H Y=4H	30.9	31.9	31.4	32.4	32.9	33.6	34.5	34.1	35.0	35.6
6H	31.9	32.7	32.4	33.3	33.8	35.4	36.3	36.0	36.8	37.3
8H	32.3	33.1	32.8	33.6	34.1	36.4	37.1	36.9	37.7	38.2
12H	32.6	33.3	33.2	33.8	34.5	37.3	38.0	37.8	38.5	39.1
X=12H Y=4H	31.2	32.1	31.7	32.6	33.1	33.6	34.5	34.1	35.0	35.6
6H	32.3	33.0	32.8	33.5	34.1	35.6	36.3	36.1	36.8	37.4
8H	32.8	33.5	33.4	34.0	34.7	36.6	37.3	37.1	37.8	38.4

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	0.53	0.61	0.68	0.73	0.81	0.86	0.89	0.94	0.98	
	0.30		0.45	0.53	0.60	0.65	0.73	0.79	0.83	0.89	0.93	
	0.20		0.39	0.46	0.54	0.59	0.67	0.73	0.78	0.84	0.89	
0.50	0.50	0.20	0.51	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	0.30		0.44	0.51	0.58	0.63	0.71	0.76	0.80	0.85	0.89	
	0.20		0.39	0.46	0.53	0.58	0.65	0.71	0.75	0.81	0.86	
0.30	0.50	0.20	0.49	0.56	0.63	0.67	0.73	0.78	0.81	0.85	0.88	
	0.30		0.43	0.50	0.57	0.61	0.68	0.73	0.77	0.82	0.85	
	0.20		0.38	0.45	0.52	0.57	0.64	0.69	0.73	0.78	0.82	
0.00	0.00	0.00	0.36	0.42	0.48	0.53	0.60	0.65	0.68	0.73	0.77	
Rating: 4W 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	1.03	0.89	0.77	0.69	0.57	0.48	0.42	0.34	0.28	
	0.30		0.86	0.77	0.67	0.61	0.51	0.44	0.39	0.32	0.27	
	0.20		0.74	0.67	0.60	0.55	0.47	0.41	0.36	0.30	0.26	
0.50	0.50	0.20	0.99	0.86	0.74	0.66	0.54	0.49	0.40	0.32	0.27	
	0.30		0.84	0.74	0.65	0.59	0.49	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	
0.30	0.50	0.20	0.96	0.82	0.71	0.63	0.52	0.44	0.39	0.31	0.26	
	0.30		0.82	0.72	0.63	0.57	0.48	0.41	0.36	0.30	0.25	
	0.20		0.72	0.65	0.57	0.52	0.44	0.39	0.34	0.28	0.24	
0.00	0.00	0.00	0.61	0.55	0.49	0.44	0.37	0.32	0.29	0.24	0.20	
Rating: 4W 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	0.19	0.21	0.22	0.23	0.23	0.24	0.24	0.25	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	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.19	0.20	0.21	0.22	0.23	0.23	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.11	0.13	0.14	0.15	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	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.16	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: 4W 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	67.9	0.1	0.1	0.03	0.03
1.0-2.0	67.8	0.2	0.3	0.08	0.10
2.0-3.0	67.8	0.3	0.6	0.13	0.24
3.0-4.0	67.7	0.5	1.0	0.18	0.42
4.0-5.0	67.7	0.6	1.6	0.24	0.65
5.0-6.0	67.6	0.7	2.3	0.29	0.94
6.0-7.0	67.4	0.8	3.2	0.34	1.28
7.0-8.0	67.3	1.0	4.1	0.39	1.67
8.0-9.0	67.1	1.1	5.2	0.44	2.11
9.0-10.0	66.9	1.2	6.4	0.49	2.60
10.0-11.0	66.7	1.3	7.8	0.54	3.14
11.0-12.0	66.5	1.5	9.2	0.59	3.72
12.0-13.0	66.2	1.6	10.8	0.63	4.36
13.0-14.0	65.9	1.7	12.5	0.68	5.04
14.0-15.0	65.6	1.8	14.3	0.73	5.77
15.0-16.0	65.3	1.9	16.2	0.77	6.54
16.0-17.0	65.0	2.0	18.2	0.82	7.36
17.0-18.0	64.6	2.1	20.3	0.86	8.22
18.0-19.0	64.3	2.2	22.6	0.90	9.12
19.0-20.0	63.9	2.3	24.9	0.94	10.07
20.0-21.0	63.5	2.4	27.4	0.98	11.05
21.0-22.0	63.1	2.5	29.9	1.02	12.07
22.0-23.0	62.6	2.6	32.5	1.06	13.14
23.0-24.0	62.1	2.7	35.2	1.10	14.23
24.0-25.0	61.6	2.8	38.0	1.13	15.37
25.0-26.0	61.1	2.9	40.9	1.17	16.53
26.0-27.0	60.6	3.0	43.9	1.20	17.73
27.0-28.0	60.1	3.0	46.9	1.23	18.96
28.0-29.0	59.6	3.1	50.1	1.26	20.22
29.0-30.0	59.0	3.2	53.2	1.29	21.50
30.0-31.0	58.4	3.3	56.5	1.31	22.82
31.0-32.0	57.8	3.3	59.8	1.34	24.16
32.0-33.0	57.2	3.4	63.2	1.36	25.52
33.0-34.0	56.6	3.4	66.6	1.38	26.90
34.0-35.0	56.0	3.5	70.1	1.40	28.31
35.0-36.0	55.3	3.5	73.6	1.42	29.73

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	54.7	3.6	77.2	1.44	31.17
37.0-38.0	54.0	3.6	80.8	1.46	32.62
38.0-39.0	53.3	3.6	84.4	1.47	34.09
39.0-40.0	52.6	3.7	88.1	1.48	35.58
40.0-41.0	51.9	3.7	91.8	1.49	37.07
41.0-42.0	51.2	3.7	95.5	1.50	38.57
42.0-43.0	50.5	3.7	99.2	1.51	40.08
43.0-44.0	49.7	3.8	103.0	1.52	41.60
44.0-45.0	49.0	3.8	106.7	1.52	43.12
45.0-46.0	48.2	3.8	110.5	1.52	44.64
46.0-47.0	47.4	3.8	114.3	1.52	46.17
47.0-48.0	46.6	3.8	118.1	1.52	47.69
48.0-49.0	45.8	3.8	121.8	1.52	49.21
49.0-50.0	45.1	3.8	125.6	1.52	50.73
50.0-51.0	44.3	3.7	129.3	1.51	52.24
51.0-52.0	43.5	3.7	133.1	1.51	53.75
52.0-53.0	42.6	3.7	136.8	1.50	55.25
53.0-54.0	41.8	3.7	140.5	1.49	56.73
54.0-55.0	41.0	3.7	144.1	1.48	58.21
55.0-56.0	40.2	3.6	147.7	1.47	59.68
56.0-57.0	39.3	3.6	151.3	1.45	61.13
57.0-58.0	38.5	3.6	154.9	1.44	62.57
58.0-59.0	37.6	3.5	158.4	1.42	63.99
59.0-60.0	36.8	3.5	161.9	1.40	65.39
60.0-61.0	36.0	3.4	165.3	1.39	66.78
61.0-62.0	35.1	3.4	168.7	1.37	68.15
62.0-63.0	34.3	3.3	172.1	1.35	69.50
63.0-64.0	33.5	3.3	175.3	1.33	70.82
64.0-65.0	32.7	3.2	178.6	1.31	72.13
65.0-66.0	31.8	3.2	181.7	1.28	73.41
66.0-67.0	31.0	3.1	184.9	1.26	74.67
67.0-68.0	30.3	3.1	187.9	1.24	75.91
68.0-69.0	29.5	3.0	190.9	1.22	77.13
69.0-70.0	28.7	2.9	193.9	1.19	78.32
70.0-71.0	27.9	2.9	196.8	1.17	79.48
71.0-72.0	27.2	2.8	199.6	1.14	80.63

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	26.5	2.8	202.4	1.12	81.75
73.0-74.0	25.8	2.7	205.1	1.09	82.84
74.0-75.0	25.1	2.7	207.7	1.07	83.91
75.0-76.0	24.4	2.6	210.3	1.05	84.96
76.0-77.0	23.8	2.5	212.9	1.02	85.98
77.0-78.0	23.2	2.5	215.4	1.00	86.99
78.0-79.0	22.6	2.4	217.8	0.98	87.97
79.0-80.0	22.0	2.4	220.1	0.96	88.92
80.0-81.0	21.4	2.3	222.5	0.93	89.86
81.0-82.0	20.7	2.2	224.7	0.91	90.77
82.0-83.0	20.0	2.2	226.9	0.88	91.64
83.0-84.0	19.2	2.1	229.0	0.85	92.49
84.0-85.0	18.3	2.0	231.0	0.81	93.30
85.0-86.0	17.3	1.9	232.9	0.76	94.06
86.0-87.0	16.2	1.8	234.6	0.72	94.78
87.0-88.0	15.2	1.7	236.3	0.67	95.45
88.0-89.0	14.2	1.6	237.9	0.63	96.08
89.0-90.0	13.2	1.5	239.3	0.59	96.67
90.0-91.0	12.3	1.3	240.7	0.54	97.21
91.0-92.0	10.9	1.2	241.9	0.48	97.69
92.0-93.0	9.1	1.0	242.9	0.40	98.09
93.0-94.0	7.2	0.8	243.6	0.32	98.41
94.0-95.0	5.4	0.6	244.2	0.24	98.65
95.0-96.0	3.9	0.4	244.7	0.17	98.82
96.0-97.0	2.8	0.3	245.0	0.12	98.95
97.0-98.0	1.8	0.2	245.2	0.08	99.03
98.0-99.0	1.1	0.1	245.3	0.05	99.08
99.0-100.0	0.7	0.1	245.4	0.03	99.11
100.0-101.0	0.5	0.1	245.4	0.02	99.13
101.0-102.0	0.4	0.0	245.4	0.02	99.14
102.0-103.0	0.3	0.0	245.5	0.01	99.16
103.0-104.0	0.3	0.0	245.5	0.01	99.17
104.0-105.0	0.3	0.0	245.6	0.01	99.19
105.0-106.0	0.3	0.0	245.6	0.01	99.20
106.0-107.0	0.3	0.0	245.6	0.01	99.21
107.0-108.0	0.3	0.0	245.7	0.01	99.23

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 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.3	0.0	245.7	0.01	99.24
109.0-110.0	0.3	0.0	245.7	0.01	99.25
110.0-111.0	0.3	0.0	245.8	0.01	99.27
111.0-112.0	0.3	0.0	245.8	0.01	99.28
112.0-113.0	0.3	0.0	245.8	0.01	99.29
113.0-114.0	0.3	0.0	245.9	0.01	99.31
114.0-115.0	0.3	0.0	245.9	0.01	99.32
115.0-116.0	0.4	0.0	245.9	0.01	99.34
116.0-117.0	0.4	0.0	246.0	0.01	99.35
117.0-118.0	0.4	0.0	246.0	0.01	99.36
118.0-119.0	0.4	0.0	246.0	0.01	99.38
119.0-120.0	0.4	0.0	246.1	0.01	99.39
120.0-121.0	0.4	0.0	246.1	0.01	99.41
121.0-122.0	0.4	0.0	246.1	0.01	99.42
122.0-123.0	0.4	0.0	246.2	0.02	99.44
123.0-124.0	0.4	0.0	246.2	0.01	99.45
124.0-125.0	0.4	0.0	246.3	0.01	99.47
125.0-126.0	0.4	0.0	246.3	0.01	99.48
126.0-127.0	0.4	0.0	246.3	0.01	99.50
127.0-128.0	0.4	0.0	246.4	0.01	99.51
128.0-129.0	0.4	0.0	246.4	0.01	99.53
129.0-130.0	0.4	0.0	246.4	0.01	99.54
130.0-131.0	0.4	0.0	246.5	0.01	99.56
131.0-132.0	0.4	0.0	246.5	0.01	99.57
132.0-133.0	0.4	0.0	246.5	0.01	99.59
133.0-134.0	0.4	0.0	246.6	0.01	99.60
134.0-135.0	0.4	0.0	246.6	0.01	99.61
135.0-136.0	0.5	0.0	246.6	0.01	99.63
136.0-137.0	0.5	0.0	246.7	0.01	99.64
137.0-138.0	0.5	0.0	246.7	0.01	99.66
138.0-139.0	0.5	0.0	246.8	0.01	99.67
139.0-140.0	0.5	0.0	246.8	0.01	99.68
140.0-141.0	0.5	0.0	246.8	0.01	99.70
141.0-142.0	0.5	0.0	246.9	0.01	99.71
142.0-143.0	0.5	0.0	246.9	0.01	99.72
143.0-144.0	0.5	0.0	246.9	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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.5	0.0	246.9	0.01	99.75
145.0-146.0	0.5	0.0	247.0	0.01	99.76
146.0-147.0	0.5	0.0	247.0	0.01	99.77
147.0-148.0	0.5	0.0	247.0	0.01	99.79
148.0-149.0	0.5	0.0	247.1	0.01	99.80
149.0-150.0	0.5	0.0	247.1	0.01	99.81
150.0-151.0	0.5	0.0	247.1	0.01	99.82
151.0-152.0	0.5	0.0	247.2	0.01	99.83
152.0-153.0	0.5	0.0	247.2	0.01	99.84
153.0-154.0	0.5	0.0	247.2	0.01	99.86
154.0-155.0	0.5	0.0	247.2	0.01	99.87
155.0-156.0	0.5	0.0	247.3	0.01	99.88
156.0-157.0	0.5	0.0	247.3	0.01	99.88
157.0-158.0	0.5	0.0	247.3	0.01	99.89
158.0-159.0	0.5	0.0	247.3	0.01	99.90
159.0-160.0	0.6	0.0	247.3	0.01	99.91
160.0-161.0	0.6	0.0	247.4	0.01	99.92
161.0-162.0	0.6	0.0	247.4	0.01	99.93
162.0-163.0	0.6	0.0	247.4	0.01	99.94
163.0-164.0	0.6	0.0	247.4	0.01	99.94
164.0-165.0	0.6	0.0	247.4	0.01	99.95
165.0-166.0	0.6	0.0	247.5	0.01	99.96
166.0-167.0	0.6	0.0	247.5	0.01	99.96
167.0-168.0	0.6	0.0	247.5	0.01	99.97
168.0-169.0	0.6	0.0	247.5	0.01	99.97
169.0-170.0	0.6	0.0	247.5	0.00	99.98
170.0-171.0	0.6	0.0	247.5	0.00	99.98
171.0-172.0	0.6	0.0	247.5	0.00	99.99
172.0-173.0	0.6	0.0	247.5	0.00	99.99
173.0-174.0	0.6	0.0	247.5	0.00	99.99
174.0-175.0	0.6	0.0	247.6	0.00	99.99
175.0-176.0	0.6	0.0	247.6	0.00	100.00
176.0-177.0	0.6	0.0	247.6	0.00	100.00
177.0-178.0	0.6	0.0	247.6	0.00	100.00
178.0-179.0	0.6	0.0	247.6	0.00	100.00
179.0-180.0	0.6	0.0	247.6	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: