

Report No.:

Test Time: 2020/11/26 12:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: FOB RIBBON

Luminaire Description: DC24V 360LEDS 10MM 14W/M

Lamp Catalog: 3000K RA>90

Number of Lamps: 360

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 12.19 W

Lamp Description: FOB 3000K

Luminous Length (mm): 1000

Luminous Height (mm): 2

Current: 0.508 A

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 832.7 lm

Downward Ratio: 96%

Horizontal Diffuse Angle(10%,50%): H159.5,H113.7

Vertical Diffuse Angle(10%,50%): V196.4,V154.1

Luminaire Efficacy Rating (LER): 68

Max. Intensity: 224.93 cd

Total Rated Lamp Lumens: 832.7 lm

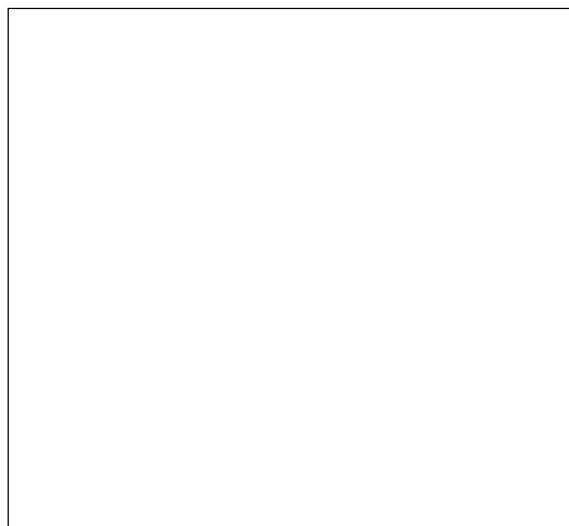
Efficiency: 100%

Upward Ratio: 4%

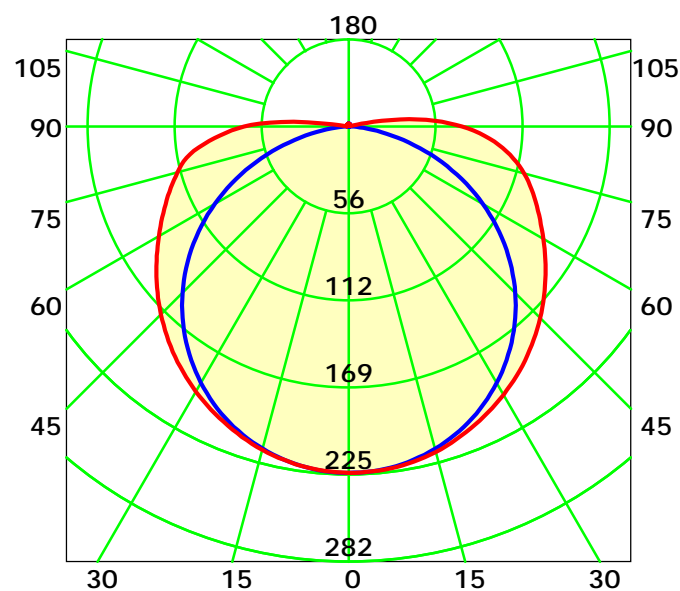
Central Intensity: 224.74 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 133.9° 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

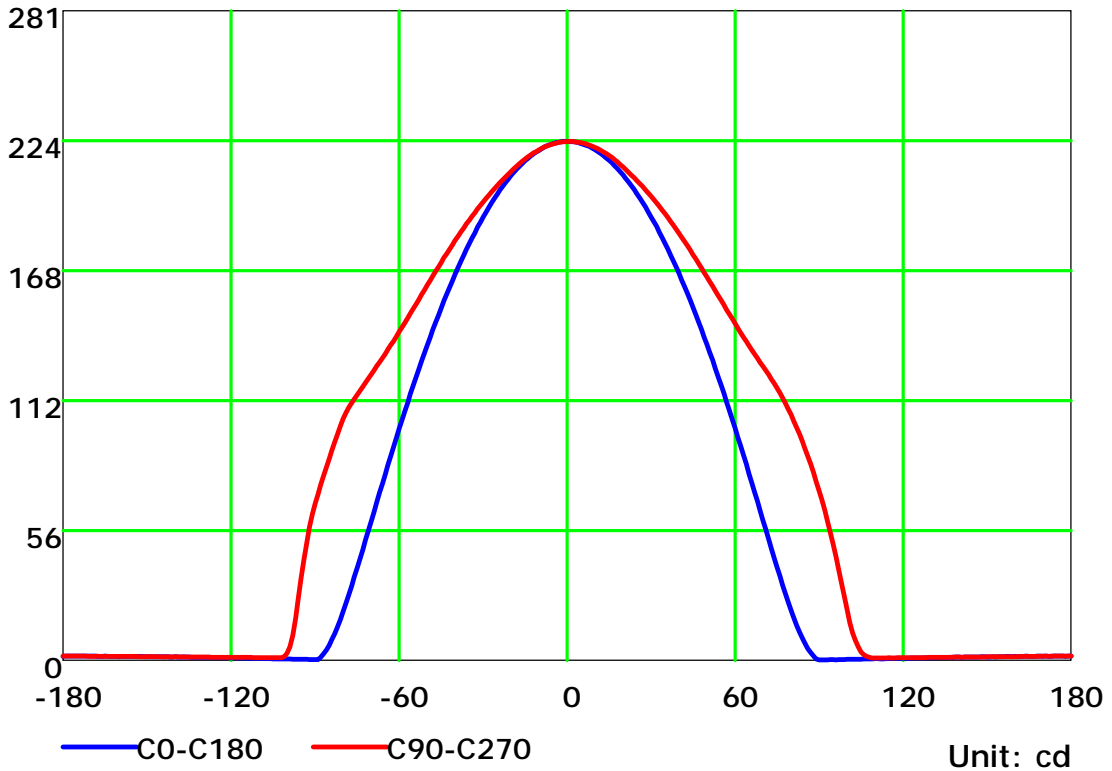
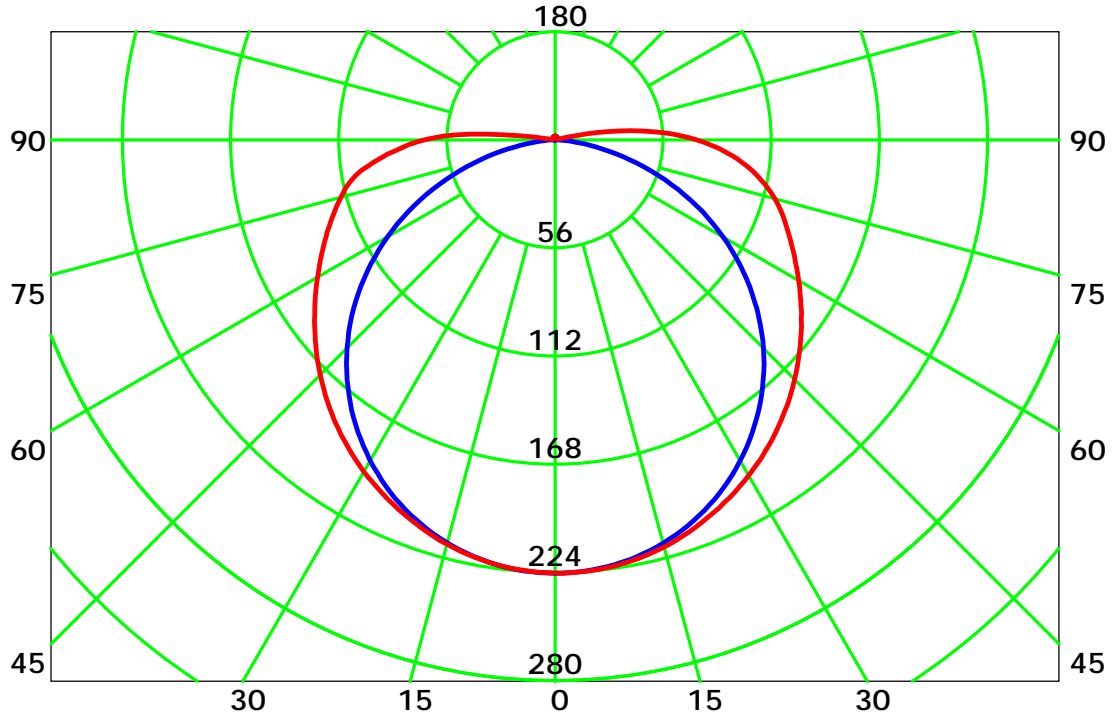
Distance: 9.028 m

Humidity: 60%

Inspector:



Luminous Intensity Distribution Curve

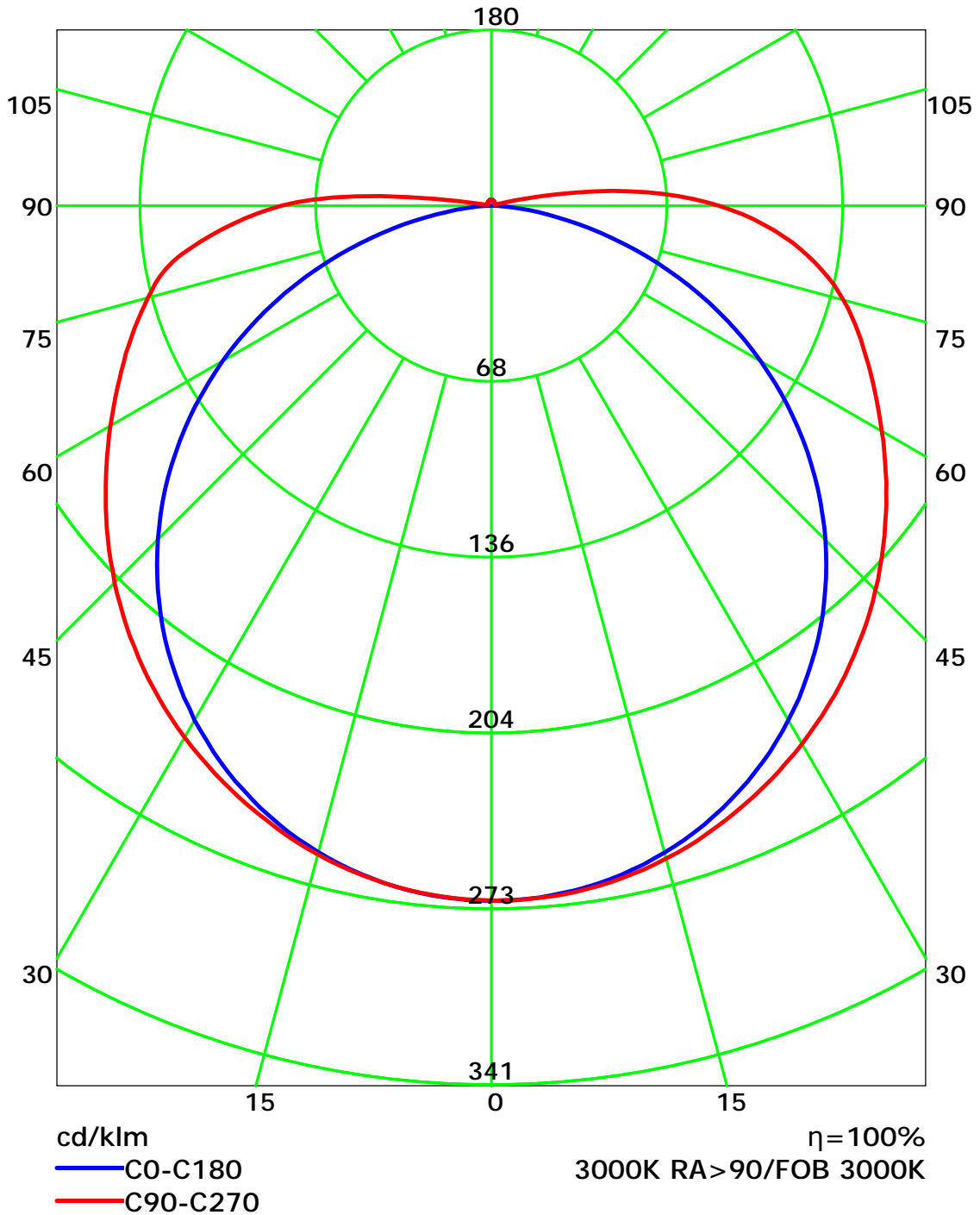


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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)



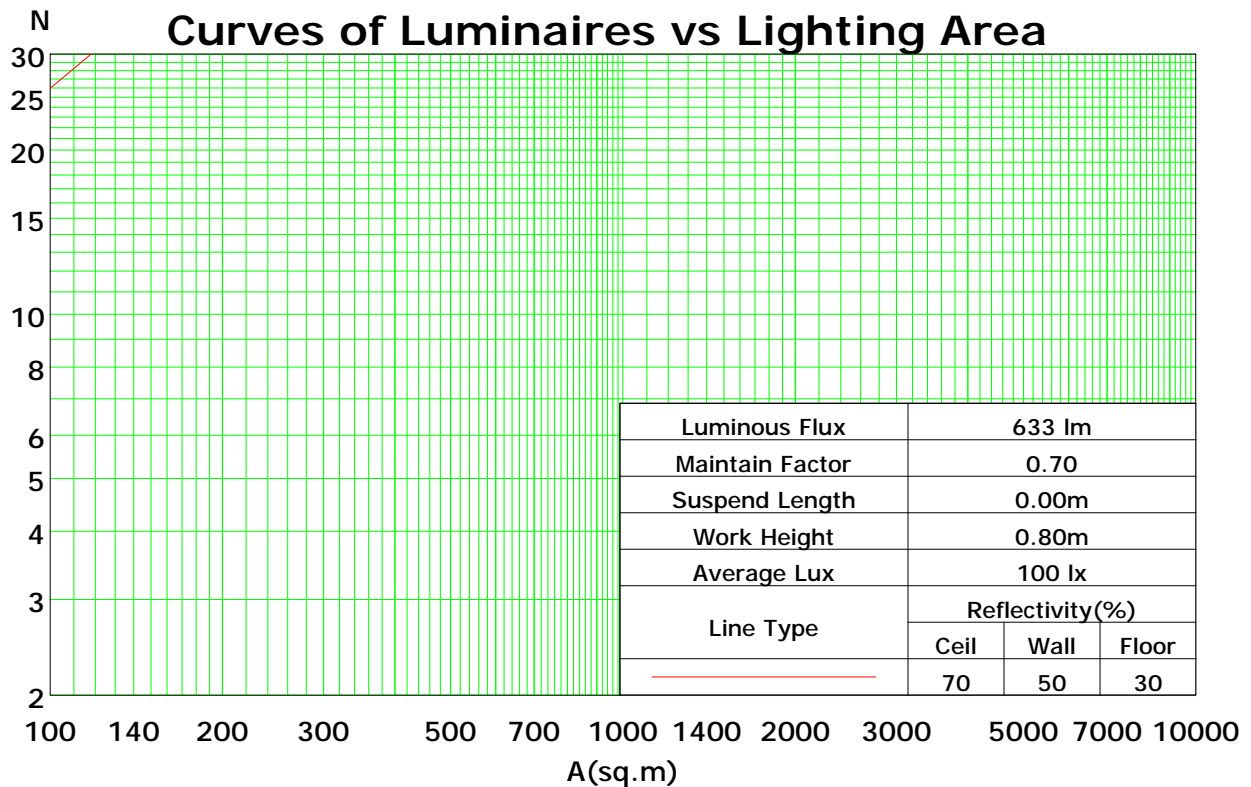
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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	96
1	105	99	93	88	102	96	91	87	91	87	83	86	83	80	82	79	77	74
2	94	84	76	70	91	82	75	69	78	72	66	74	69	64	70	66	62	60
3	85	73	64	57	82	71	63	56	68	60	54	64	58	53	61	56	52	49
4	78	64	55	47	75	63	54	47	60	52	46	57	50	45	54	48	44	41
5	71	57	48	40	69	56	47	40	53	45	39	51	44	38	49	42	38	35
6	66	51	42	35	63	50	41	35	48	40	34	46	39	33	44	38	33	30
7	61	46	37	31	59	45	37	30	43	36	30	42	35	29	40	34	29	27
8	56	42	33	27	55	41	33	27	40	32	27	38	31	26	37	30	26	24
9	53	39	30	24	51	38	30	24	36	29	24	35	28	23	34	28	23	21
10	49	36	27	22	48	35	27	22	34	26	22	33	26	21	31	25	21	19

Spacing Criteria (0-180): 1.27
 Spacing Criteria (90-270): 1.33
 Spacing Criteria (Diagonal): 1.43

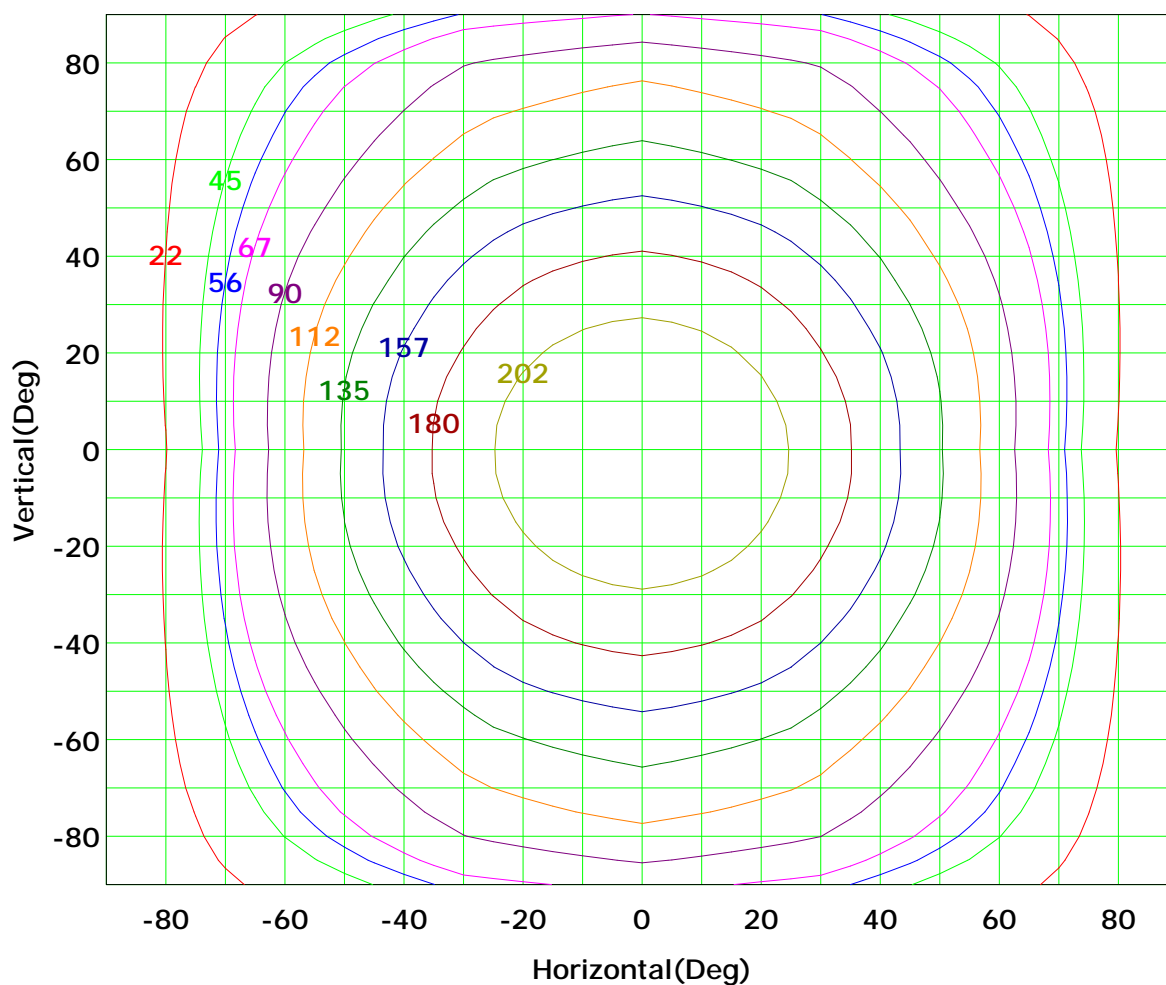


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: Kerr

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



Isocandela (rectangle)



Imax (100%): 225 cd

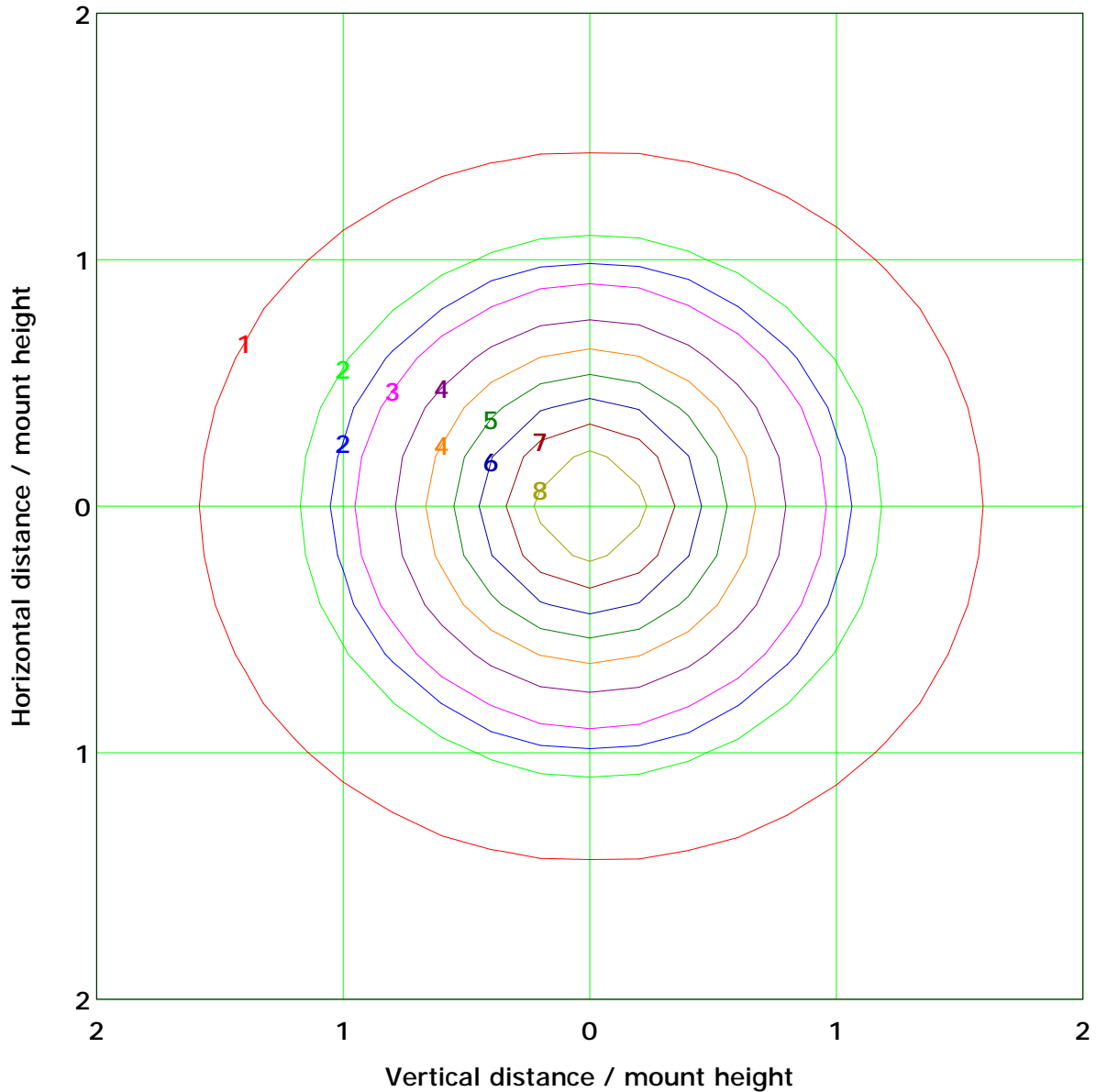
— (10%):	22 cd	— (20%):	45 cd
— (25%):	56 cd	— (30%):	67 cd
— (40%):	90 cd	— (50%):	112 cd
— (60%):	135 cd	— (70%):	157 cd
— (80%):	180 cd	— (90%):	202 cd

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%): 9.0 lx	
(10%):	0.9 lx	(20%):	1.8 lx
(25%):	2.2 lx	(30%):	2.7 lx
(40%):	3.6 lx	(50%):	4.5 lx
(60%):	5.4 lx	(70%):	6.3 lx
(80%):	7.2 lx	(90%):	8.1 lx

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

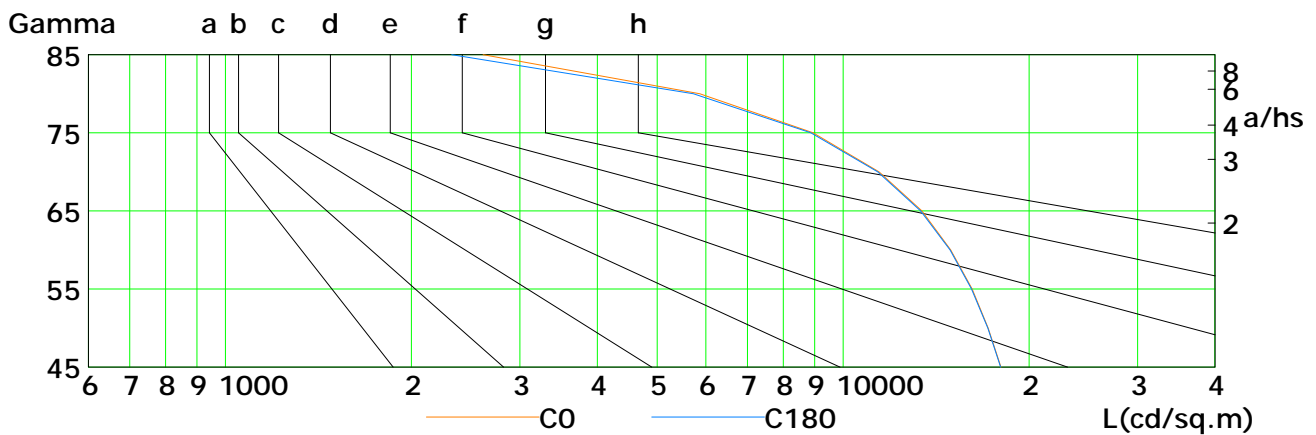
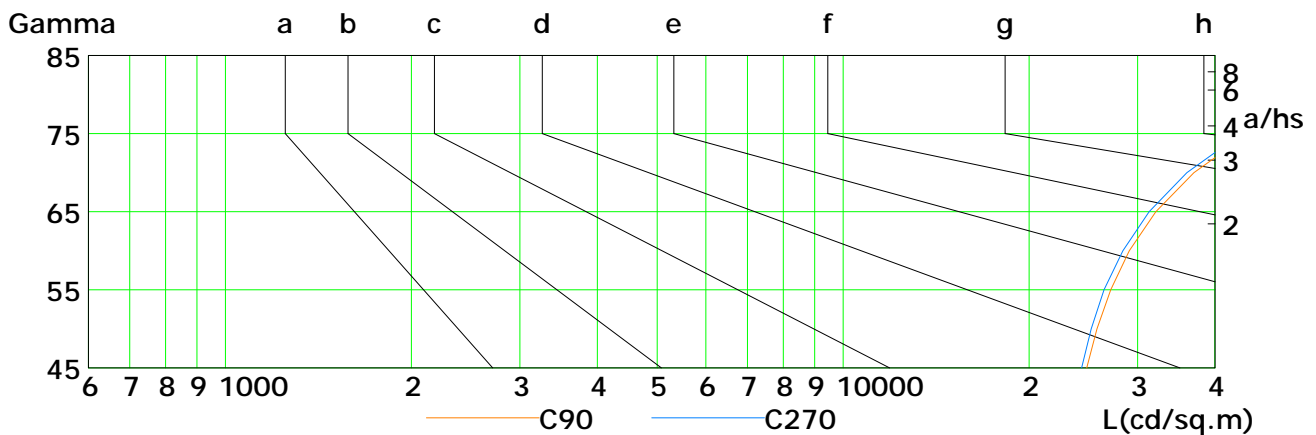
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

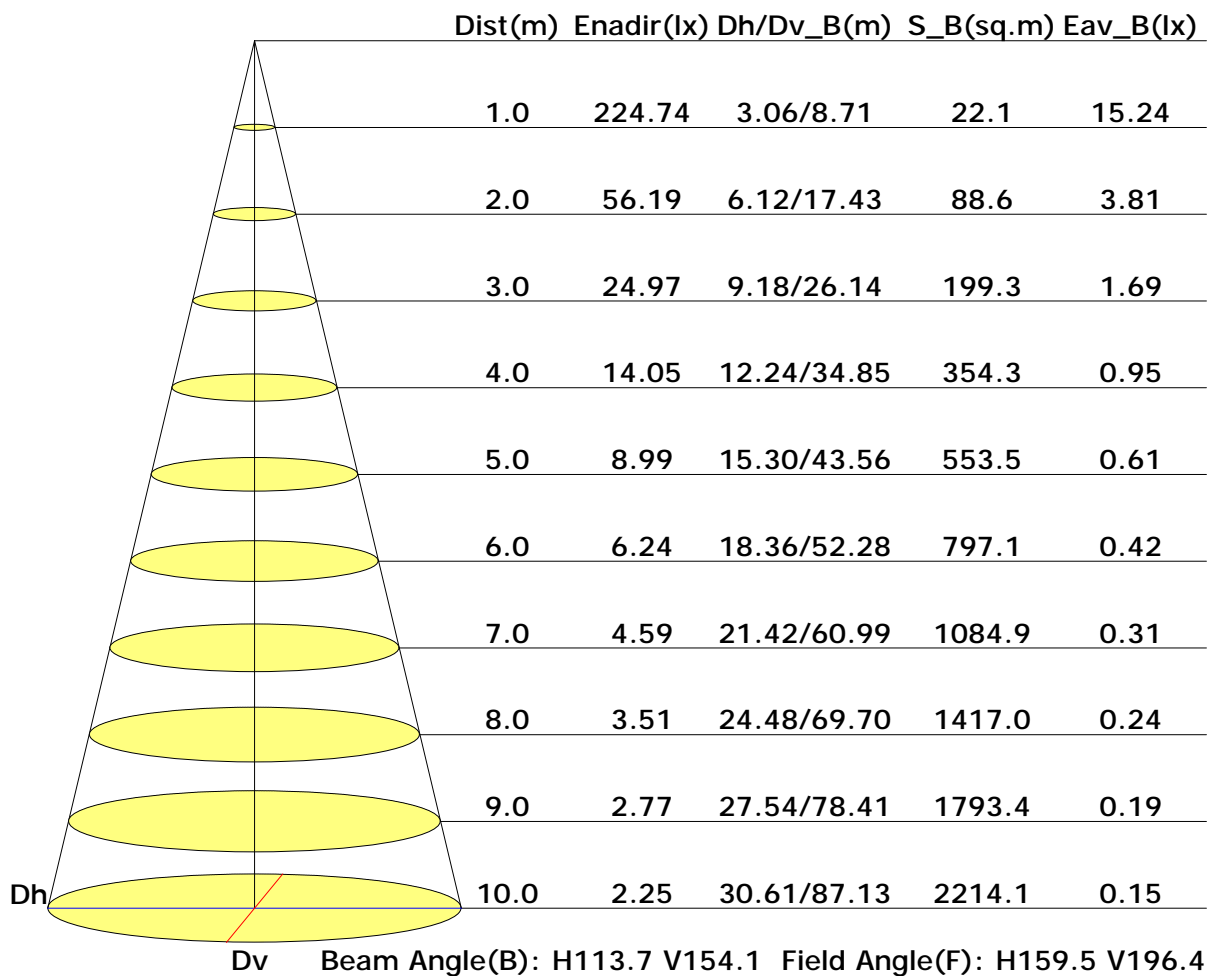


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	18022	17176	16173	14939	13417	11437	8940	5863	2615
C90	24807	25762	27120	29069	32111	37014	45227	60580	102997
C180	17989	17156	16136	14908	13354	11380	8874	5723	2325
C270	24331	25217	26468	28374	31289	36022	44119	59607	98140

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

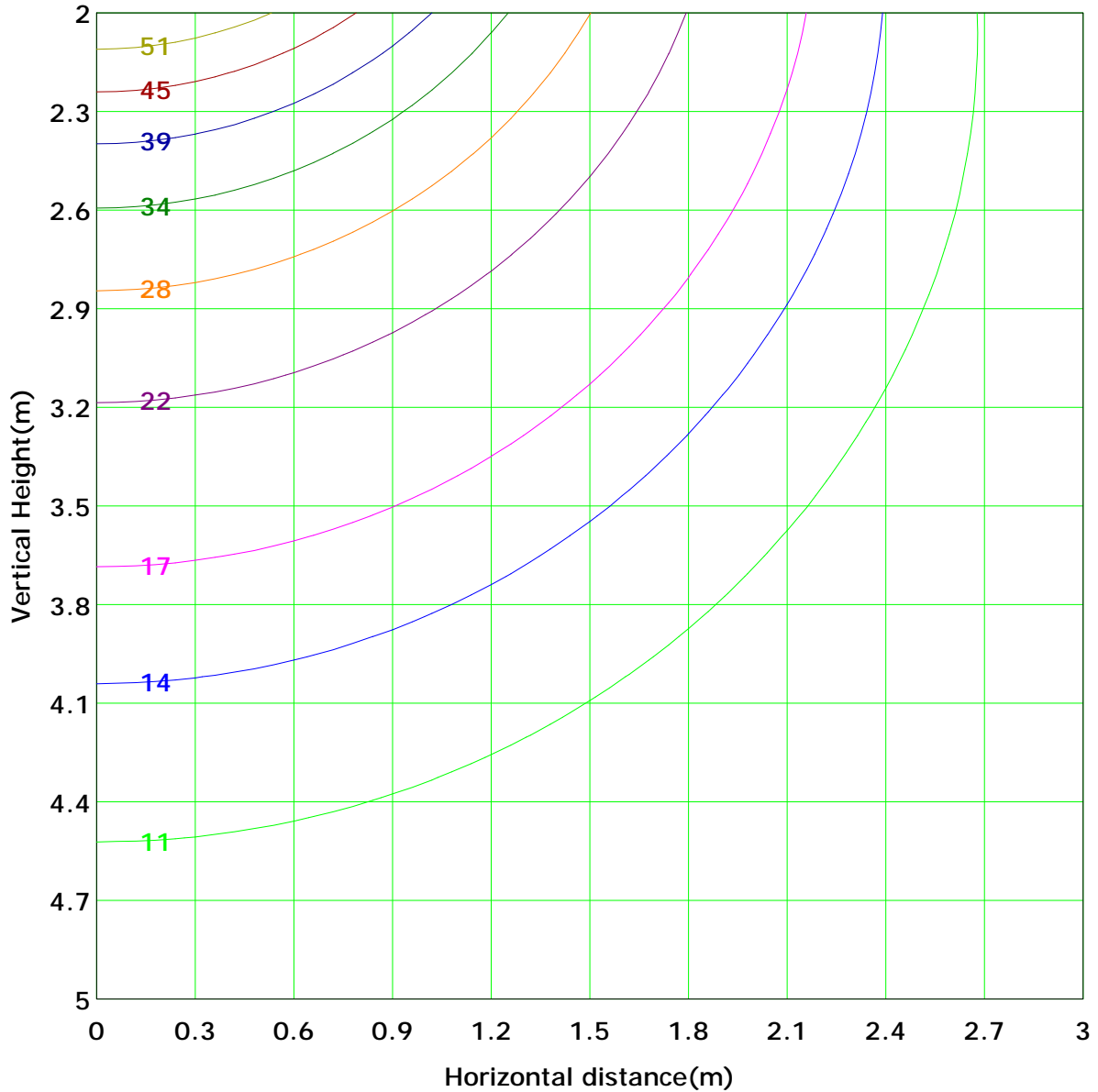
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 56.2 lx
(10%): 5.6 lx	(20%): 11.2 lx	
(25%): 14.0 lx	(30%): 16.9 lx	
(40%): 22.5 lx	(50%): 28.1 lx	
(60%): 33.7 lx	(70%): 39.3 lx	
(80%): 44.9 lx	(90%): 50.6 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:



Area Flux Table

Unit: lm

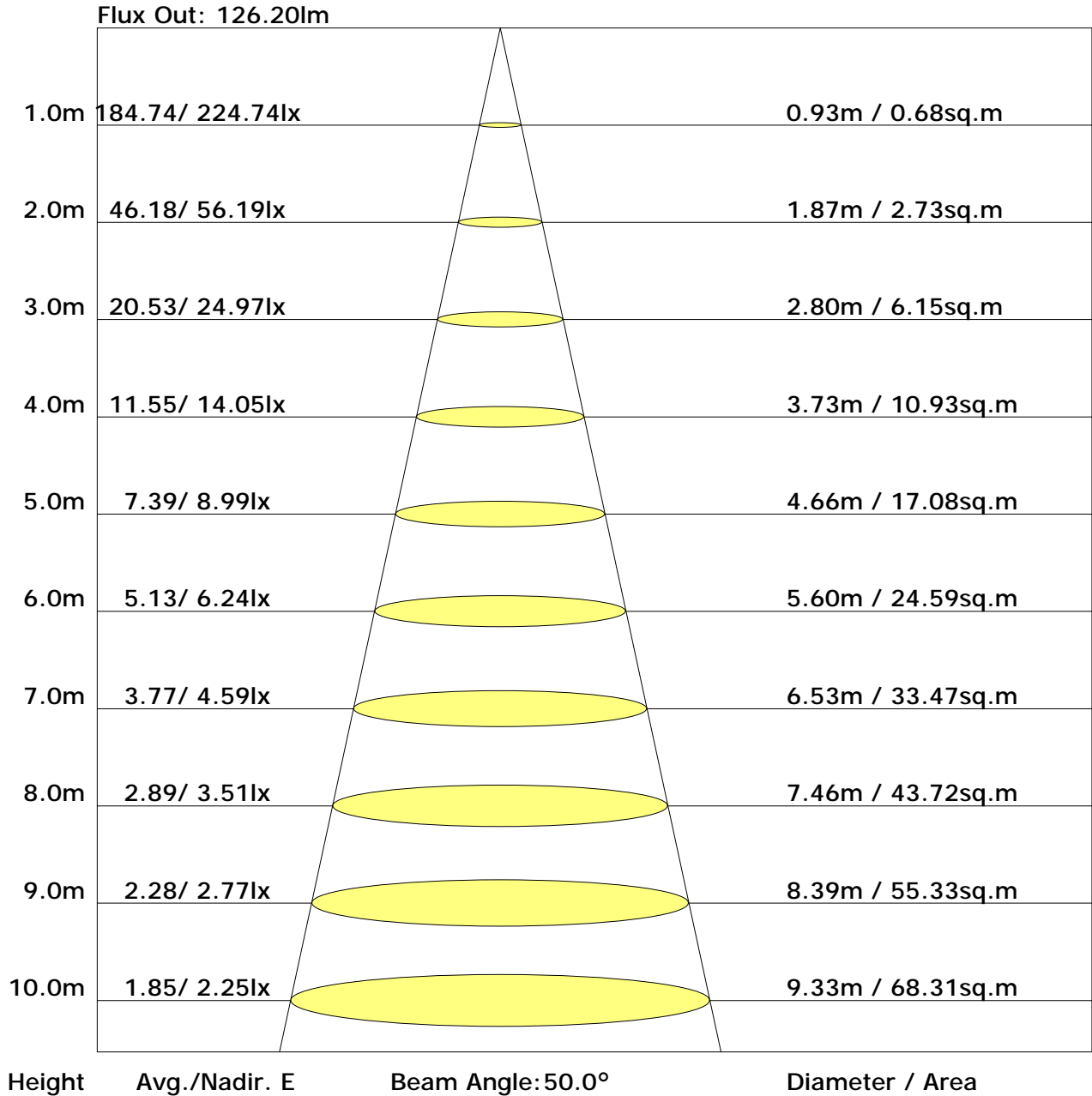
		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.1	0.4	0.7	1.2	1.7	2.1	2.4	2.6	2.6	2.4	2.1	1.7	1.2	0.7	0.4	0.1	0.0	22.4	22.0	
	-80	0.0	0.2	0.5	1.0	1.6	2.2	2.8	3.2	3.4	3.4	3.2	2.8	2.3	1.6	1.0	0.5	0.2	0.0	30.0	29.9	
	-70	0.0	0.2	0.6	1.2	1.9	2.6	3.3	3.7	4.0	4.0	3.7	3.3	2.6	1.9	1.2	0.7	0.2	0.0	35.1	35.0	
	-60	0.0	0.3	0.7	1.4	2.2	3.0	3.7	4.2	4.6	4.6	4.3	3.7	3.0	2.2	1.4	0.8	0.3	0.0	40.4	40.3	
	-50	0.0	0.3	0.8	1.6	2.5	3.4	4.2	4.8	5.2	5.2	4.8	4.3	3.4	2.5	1.6	0.9	0.3	0.0	45.9	45.8	
	-40	0.0	0.3	0.9	1.8	2.8	3.8	4.7	5.4	5.7	5.7	5.4	4.7	3.8	2.8	1.8	0.9	0.3	0.0	51.0	50.9	
	-30	0.0	0.3	1.0	1.9	3.0	4.1	5.1	5.8	6.2	6.2	5.8	5.1	4.1	3.0	2.0	1.0	0.3	0.0	55.1	55.0	
	-20	0.0	0.3	1.1	2.1	3.2	4.4	5.4	6.1	6.5	6.5	6.1	5.4	4.4	3.2	2.1	1.1	0.4	0.0	58.2	58.1	
	-10	0.0	0.3	1.1	2.1	3.3	4.5	5.5	6.3	6.7	6.7	6.3	5.5	4.5	3.3	2.1	1.1	0.3	0.0	59.8	59.7	
	0	0.0	0.3	1.1	2.1	3.3	4.5	5.5	6.3	6.8	6.7	6.3	5.6	4.5	3.3	2.1	1.1	0.3	0.0	59.9	59.8	
	10	0.0	0.4	1.1	2.1	3.2	4.4	5.4	6.2	6.6	6.6	6.2	5.4	4.4	3.2	2.1	1.1	0.4	0.0	58.6	58.5	
	20	0.0	0.3	1.0	2.0	3.1	4.2	5.1	5.9	6.2	6.2	5.9	5.1	4.2	3.1	2.0	1.0	0.3	0.0	55.7	55.6	
	30	0.0	0.3	1.0	1.8	2.8	3.9	4.8	5.5	5.8	5.8	5.4	4.8	3.9	2.8	1.8	1.0	0.3	0.0	51.7	51.6	
	40	0.0	0.3	0.9	1.6	2.6	3.5	4.3	4.9	5.3	5.3	4.9	4.3	3.5	2.5	1.6	0.9	0.3	0.0	46.8	46.8	
	50	0.0	0.3	0.8	1.4	2.3	3.1	3.8	4.4	4.7	4.7	4.3	3.8	3.1	2.2	1.4	0.8	0.3	0.0	41.4	41.3	
	60	0.0	0.2	0.7	1.3	2.0	2.7	3.4	3.8	4.1	4.1	3.8	3.3	2.7	2.0	1.3	0.7	0.2	0.0	36.0	35.9	
	70	0.0	0.2	0.5	1.1	1.7	2.3	2.9	3.2	3.5	3.5	3.2	2.9	2.3	1.6	1.1	0.5	0.2	0.0	30.7	30.6	
	80	0.0	0.1	0.4	0.8	1.2	1.8	2.2	2.5	2.7	2.7	2.5	2.2	1.7	1.2	0.8	0.4	0.1	0.0	23.4	23.1	
90	0.5	4.9	14.5	28.0	43.7	59.9	74.3	84.5	90.4	90.4	84.6	74.3	60.0	43.8	28.1	14.6	5.0	0.6	802			
	0.0	4.5	14.5	28.0	43.7	59.9	74.3	84.5	90.4	90.4	84.6	74.3	60.0	43.8	28.1	14.6	4.6	0.0		800		

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	22.3	24.0	22.8	24.4	24.8	23.3	25.0	23.7	25.4	25.8
3H	24.2	25.7	24.6	26.1	26.6	26.0	27.5	26.4	27.9	28.3
4H	24.9	26.4	25.3	26.8	27.2	27.3	28.8	27.7	29.2	29.6
6H	25.4	26.8	25.8	27.2	27.7	28.6	30.0	29.1	30.4	30.9
8H	25.5	26.8	26.0	27.3	27.8	29.2	30.5	29.7	31.0	31.5
12H	25.6	26.9	26.1	27.3	27.8	29.8	31.1	30.3	31.5	32.0
X=4H Y=2H	23.2	24.7	23.7	25.1	25.5	24.0	25.4	24.4	25.8	26.3
3H	25.4	26.6	25.8	27.1	27.6	26.9	28.2	27.4	28.6	29.1
4H	26.3	27.4	26.7	27.9	28.4	28.4	29.6	28.9	30.1	30.6
6H	27.0	28.0	27.5	28.5	29.0	29.9	31.0	30.4	31.5	32.0
8H	27.2	28.2	27.7	28.7	29.2	30.7	31.6	31.2	32.1	32.7
12H	27.4	28.2	27.9	28.8	29.3	31.4	32.3	31.9	32.8	33.3
X=8H Y=4H	27.0	28.0	27.6	28.5	29.1	28.9	29.8	29.4	30.3	30.9
6H	28.0	28.9	28.6	29.4	30.0	30.6	31.4	31.2	32.0	32.5
8H	28.5	29.2	29.0	29.8	30.3	31.5	32.3	32.0	32.8	33.4
12H	28.8	29.5	29.3	30.0	30.6	32.4	33.1	33.0	33.6	34.3
X=12H Y=4H	27.3	28.2	27.8	28.7	29.2	28.9	29.8	29.4	30.3	30.9
6H	28.4	29.2	29.0	29.7	30.3	30.7	31.5	31.3	32.0	32.6
8H	28.9	29.6	29.5	30.2	30.8	31.7	32.4	32.3	32.9	33.6

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	0.52	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		0.38	0.45	0.52	0.58	0.65	0.71	0.75	0.81	0.86	
0.30	0.50	0.20	0.49	0.56	0.62	0.67	0.73	0.78	0.81	0.85	0.88	
	0.30		0.43	0.50	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
	0.20		0.38	0.44	0.51	0.56	0.64	0.69	0.73	0.78	0.82	
0.00	0.00	0.00	0.35	0.41	0.48	0.53	0.60	0.64	0.68	0.73	0.77	
<p>Rating: 12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												



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	0.90	0.78	0.69	0.57	0.48	0.42	0.34	0.28	
	0.30		0.86	0.77	0.68	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	0.75	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	0.38	0.31	0.26	
	0.30		0.82	0.72	0.64	0.57	0.48	0.41	0.36	0.29	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	0.28	0.23	0.20	
<p>Rating: 12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												



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	0.20	0.22	0.22	0.23	0.24	0.25	0.25	0.25	0.26	
	0.30		0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.22	0.22	
	0.20		0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.19	0.21	0.22	0.22	0.23	0.24	0.24	0.24	0.25	
	0.30		0.13	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.08	0.09	0.10	0.12	0.13	0.15	0.16	0.17	0.19	
0.30	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	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.08	0.09	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	
<p>Rating: 12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	224.7	0.2	0.2	0.03	0.03
1.0-2.0	224.6	0.6	0.9	0.08	0.10
2.0-3.0	224.5	1.1	1.9	0.13	0.23
3.0-4.0	224.3	1.5	3.4	0.18	0.41
4.0-5.0	224.0	1.9	5.4	0.23	0.64
5.0-6.0	223.7	2.4	7.7	0.28	0.93
6.0-7.0	223.3	2.8	10.5	0.33	1.26
7.0-8.0	222.8	3.2	13.7	0.38	1.64
8.0-9.0	222.3	3.6	17.3	0.43	2.07
9.0-10.0	221.6	4.0	21.3	0.48	2.56
10.0-11.0	221.0	4.4	25.7	0.53	3.09
11.0-12.0	220.2	4.8	30.5	0.58	3.66
12.0-13.0	219.4	5.2	35.7	0.63	4.29
13.0-14.0	218.6	5.6	41.3	0.67	4.96
14.0-15.0	217.6	6.0	47.3	0.72	5.68
15.0-16.0	216.6	6.3	53.6	0.76	6.44
16.0-17.0	215.6	6.7	60.4	0.81	7.25
17.0-18.0	214.5	7.1	67.4	0.85	8.10
18.0-19.0	213.3	7.4	74.9	0.89	8.99
19.0-20.0	212.0	7.8	82.6	0.93	9.92
20.0-21.0	210.7	8.1	90.7	0.97	10.89
21.0-22.0	209.4	8.4	99.1	1.01	11.90
22.0-23.0	207.9	8.7	107.8	1.05	12.95
23.0-24.0	206.5	9.0	116.9	1.08	14.04
24.0-25.0	205.0	9.3	126.2	1.12	15.15
25.0-26.0	203.4	9.6	135.8	1.15	16.31
26.0-27.0	201.8	9.9	145.7	1.19	17.49
27.0-28.0	200.1	10.1	155.8	1.22	18.71
28.0-29.0	198.4	10.4	166.2	1.25	19.96
29.0-30.0	196.6	10.6	176.8	1.27	21.23
30.0-31.0	194.8	10.8	187.6	1.30	22.53
31.0-32.0	192.9	11.1	198.7	1.33	23.86
32.0-33.0	191.0	11.3	209.9	1.35	25.21
33.0-34.0	189.0	11.4	221.4	1.37	26.59
34.0-35.0	187.0	11.6	233.0	1.40	27.98
35.0-36.0	185.0	11.8	244.8	1.41	29.40

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:



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	182.9	11.9	256.7	1.43	30.83
37.0-38.0	180.8	12.1	268.8	1.45	32.28
38.0-39.0	178.5	12.2	281.0	1.46	33.74
39.0-40.0	176.3	12.3	293.3	1.48	35.22
40.0-41.0	174.0	12.4	305.7	1.49	36.71
41.0-42.0	171.7	12.5	318.1	1.50	38.20
42.0-43.0	169.4	12.5	330.7	1.51	39.71
43.0-44.0	167.0	12.6	343.3	1.51	41.22
44.0-45.0	164.6	12.6	355.9	1.52	42.74
45.0-46.0	162.1	12.7	368.6	1.52	44.27
46.0-47.0	159.6	12.7	381.3	1.52	45.79
47.0-48.0	157.1	12.7	394.0	1.52	47.32
48.0-49.0	154.5	12.7	406.7	1.52	48.84
49.0-50.0	151.9	12.7	419.4	1.52	50.36
50.0-51.0	149.3	12.6	432.0	1.52	51.88
51.0-52.0	146.7	12.6	444.6	1.51	53.39
52.0-53.0	144.0	12.5	457.1	1.50	54.89
53.0-54.0	141.3	12.5	469.6	1.50	56.39
54.0-55.0	138.6	12.4	482.0	1.49	57.88
55.0-56.0	135.9	12.3	494.2	1.48	59.35
56.0-57.0	133.2	12.2	506.4	1.46	60.81
57.0-58.0	130.4	12.1	518.5	1.45	62.26
58.0-59.0	127.7	11.9	530.4	1.43	63.70
59.0-60.0	124.9	11.8	542.2	1.42	65.11
60.0-61.0	122.2	11.7	553.9	1.40	66.51
61.0-62.0	119.5	11.5	565.4	1.38	67.90
62.0-63.0	116.7	11.4	576.8	1.36	69.26
63.0-64.0	114.0	11.2	587.9	1.34	70.60
64.0-65.0	111.3	11.0	599.0	1.32	71.93
65.0-66.0	108.6	10.8	609.8	1.30	73.23
66.0-67.0	105.9	10.6	620.4	1.28	74.51
67.0-68.0	103.3	10.5	630.9	1.26	75.76
68.0-69.0	100.6	10.3	641.2	1.23	76.99
69.0-70.0	98.0	10.1	651.2	1.21	78.20
70.0-71.0	95.5	9.9	661.1	1.19	79.39
71.0-72.0	92.9	9.7	670.8	1.16	80.55

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	90.4	9.5	680.2	1.14	81.69
73.0-74.0	87.9	9.2	689.5	1.11	82.80
74.0-75.0	85.5	9.0	698.5	1.08	83.88
75.0-76.0	83.0	8.8	707.3	1.06	84.94
76.0-77.0	80.6	8.6	715.9	1.03	85.97
77.0-78.0	78.2	8.4	724.3	1.00	86.97
78.0-79.0	75.7	8.1	732.4	0.98	87.95
79.0-80.0	73.1	7.9	740.3	0.95	88.90
80.0-81.0	70.5	7.6	747.9	0.92	89.81
81.0-82.0	67.7	7.3	755.3	0.88	90.70
82.0-83.0	64.8	7.0	762.3	0.85	91.54
83.0-84.0	61.8	6.7	769.0	0.81	92.35
84.0-85.0	58.7	6.4	775.5	0.77	93.12
85.0-86.0	55.5	6.1	781.5	0.73	93.85
86.0-87.0	52.3	5.7	787.2	0.69	94.54
87.0-88.0	49.1	5.4	792.6	0.65	95.18
88.0-89.0	45.8	5.0	797.6	0.60	95.79
89.0-90.0	42.5	4.7	802.3	0.56	96.35
90.0-91.0	39.0	4.3	806.6	0.51	96.86
91.0-92.0	35.1	3.9	810.4	0.46	97.32
92.0-93.0	30.7	3.4	813.8	0.40	97.73
93.0-94.0	26.0	2.8	816.7	0.34	98.07
94.0-95.0	21.4	2.3	819.0	0.28	98.35
95.0-96.0	17.1	1.9	820.9	0.22	98.57
96.0-97.0	13.2	1.4	822.3	0.17	98.75
97.0-98.0	9.9	1.1	823.4	0.13	98.88
98.0-99.0	7.3	0.8	824.2	0.10	98.97
99.0-100.0	5.4	0.6	824.8	0.07	99.04
100.0-101.0	4.0	0.4	825.2	0.05	99.09
101.0-102.0	3.0	0.3	825.5	0.04	99.13
102.0-103.0	2.2	0.2	825.7	0.03	99.16
103.0-104.0	1.7	0.2	825.9	0.02	99.18
104.0-105.0	1.4	0.1	826.1	0.02	99.20
105.0-106.0	1.2	0.1	826.2	0.02	99.22
106.0-107.0	1.1	0.1	826.3	0.01	99.23
107.0-108.0	1.1	0.1	826.4	0.01	99.24

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	1.0	0.1	826.5	0.01	99.26
109.0-110.0	1.1	0.1	826.7	0.01	99.27
110.0-111.0	1.1	0.1	826.8	0.01	99.28
111.0-112.0	1.1	0.1	826.9	0.01	99.30
112.0-113.0	1.1	0.1	827.0	0.01	99.31
113.0-114.0	1.1	0.1	827.1	0.01	99.32
114.0-115.0	1.2	0.1	827.2	0.01	99.34
115.0-116.0	1.2	0.1	827.3	0.01	99.35
116.0-117.0	1.2	0.1	827.5	0.01	99.36
117.0-118.0	1.2	0.1	827.6	0.01	99.38
118.0-119.0	1.2	0.1	827.7	0.01	99.39
119.0-120.0	1.2	0.1	827.8	0.01	99.41
120.0-121.0	1.3	0.1	827.9	0.01	99.42
121.0-122.0	1.3	0.1	828.0	0.01	99.44
122.0-123.0	1.3	0.1	828.2	0.01	99.45
123.0-124.0	1.3	0.1	828.3	0.01	99.46
124.0-125.0	1.3	0.1	828.4	0.01	99.48
125.0-126.0	1.4	0.1	828.5	0.01	99.49
126.0-127.0	1.4	0.1	828.7	0.01	99.51
127.0-128.0	1.4	0.1	828.8	0.01	99.52
128.0-129.0	1.4	0.1	828.9	0.01	99.54
129.0-130.0	1.4	0.1	829.0	0.01	99.55
130.0-131.0	1.4	0.1	829.1	0.01	99.57
131.0-132.0	1.4	0.1	829.3	0.01	99.58
132.0-133.0	1.5	0.1	829.4	0.01	99.59
133.0-134.0	1.5	0.1	829.5	0.01	99.61
134.0-135.0	1.5	0.1	829.6	0.01	99.62
135.0-136.0	1.5	0.1	829.7	0.01	99.64
136.0-137.0	1.5	0.1	829.8	0.01	99.65
137.0-138.0	1.5	0.1	830.0	0.01	99.66
138.0-139.0	1.6	0.1	830.1	0.01	99.68
139.0-140.0	1.6	0.1	830.2	0.01	99.69
140.0-141.0	1.6	0.1	830.3	0.01	99.71
141.0-142.0	1.6	0.1	830.4	0.01	99.72
142.0-143.0	1.6	0.1	830.5	0.01	99.73
143.0-144.0	1.6	0.1	830.6	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	1.6	0.1	830.7	0.01	99.76
145.0-146.0	1.7	0.1	830.8	0.01	99.77
146.0-147.0	1.7	0.1	830.9	0.01	99.78
147.0-148.0	1.7	0.1	831.0	0.01	99.79
148.0-149.0	1.7	0.1	831.1	0.01	99.80
149.0-150.0	1.7	0.1	831.2	0.01	99.82
150.0-151.0	1.7	0.1	831.3	0.01	99.83
151.0-152.0	1.7	0.1	831.4	0.01	99.84
152.0-153.0	1.7	0.1	831.5	0.01	99.85
153.0-154.0	1.8	0.1	831.6	0.01	99.86
154.0-155.0	1.8	0.1	831.7	0.01	99.87
155.0-156.0	1.8	0.1	831.7	0.01	99.88
156.0-157.0	1.8	0.1	831.8	0.01	99.89
157.0-158.0	1.8	0.1	831.9	0.01	99.90
158.0-159.0	1.8	0.1	832.0	0.01	99.91
159.0-160.0	1.8	0.1	832.0	0.01	99.91
160.0-161.0	1.8	0.1	832.1	0.01	99.92
161.0-162.0	1.8	0.1	832.2	0.01	99.93
162.0-163.0	1.9	0.1	832.2	0.01	99.94
163.0-164.0	1.9	0.1	832.3	0.01	99.94
164.0-165.0	1.9	0.1	832.3	0.01	99.95
165.0-166.0	1.9	0.1	832.4	0.01	99.96
166.0-167.0	1.9	0.0	832.4	0.01	99.96
167.0-168.0	1.9	0.0	832.5	0.01	99.97
168.0-169.0	1.9	0.0	832.5	0.01	99.97
169.0-170.0	1.9	0.0	832.6	0.00	99.98
170.0-171.0	1.9	0.0	832.6	0.00	99.98
171.0-172.0	1.9	0.0	832.6	0.00	99.99
172.0-173.0	1.9	0.0	832.7	0.00	99.99
173.0-174.0	2.0	0.0	832.7	0.00	99.99
174.0-175.0	2.0	0.0	832.7	0.00	99.99
175.0-176.0	2.0	0.0	832.7	0.00	100.00
176.0-177.0	2.0	0.0	832.7	0.00	100.00
177.0-178.0	2.0	0.0	832.7	0.00	100.00
178.0-179.0	2.0	0.0	832.7	0.00	100.00
179.0-180.0	2.0	0.0	832.7	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: