

Report No.:

Test Time: 2021/10/20 16:44

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: COB RIBBONLYTE

Lamp Catalog: FCOB-24V-D480-3000-14W-10MM-IP20

Lamp Description: 3000K

Luminous Length (mm): 500

Luminous Height (mm): 1.5

Current: 0.260 A

Power Factor: 1.000

Luminaire Description: RB90LINEA204.330

Number of Lamps: 480/M

Luminous Width (mm): 10

Voltage: 24.0 V

Power: 6.23 W

Photometric Results

CIE Class: Direct

Measurement Flux: 435.6 lm

Downward Ratio: 96%

Horizontal Diffuse Angle(10%,50%): H159.6,H113.1

Vertical Diffuse Angle(10%,50%): V196.9,V144.7

Luminaire Efficacy Rating (LER): 70

Max. Intensity: 120.94 cd

Total Rated Lamp Lumens: 435.6 lm

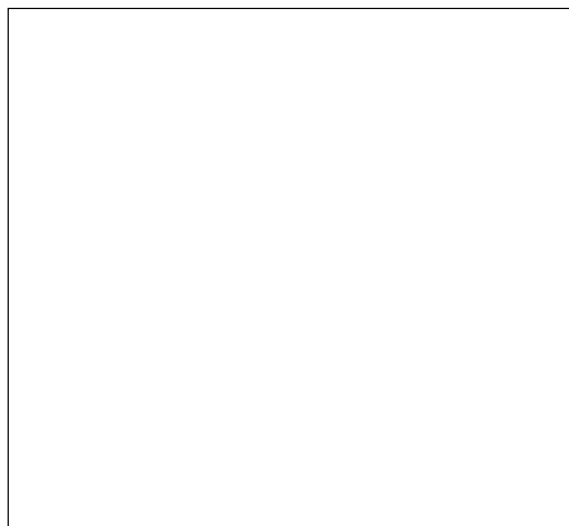
Efficiency: 100%

Upward Ratio: 4%

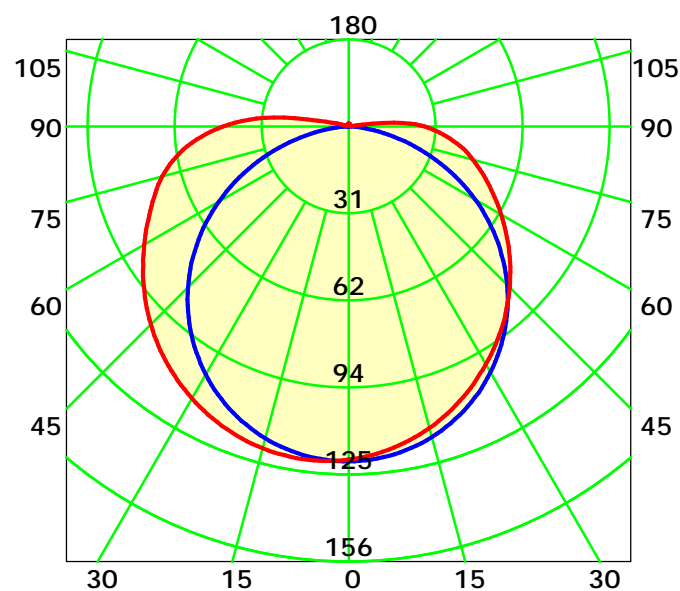
Central Intensity: 120.56 cd

Pos of Max. Intensity: H270 V9

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 128.9° 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

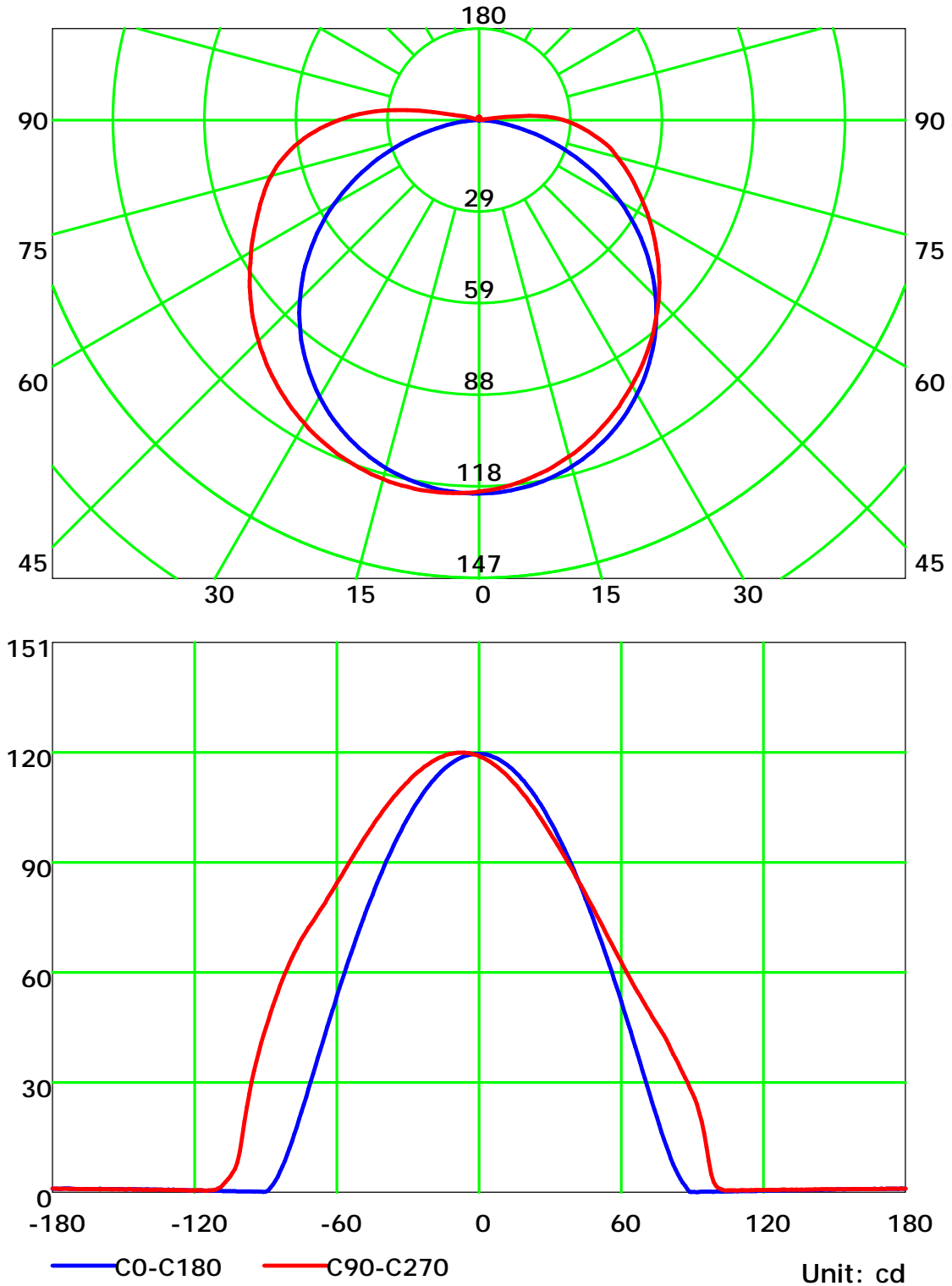
Distance: 9.028 m

Humidity: 60%

Inspector:



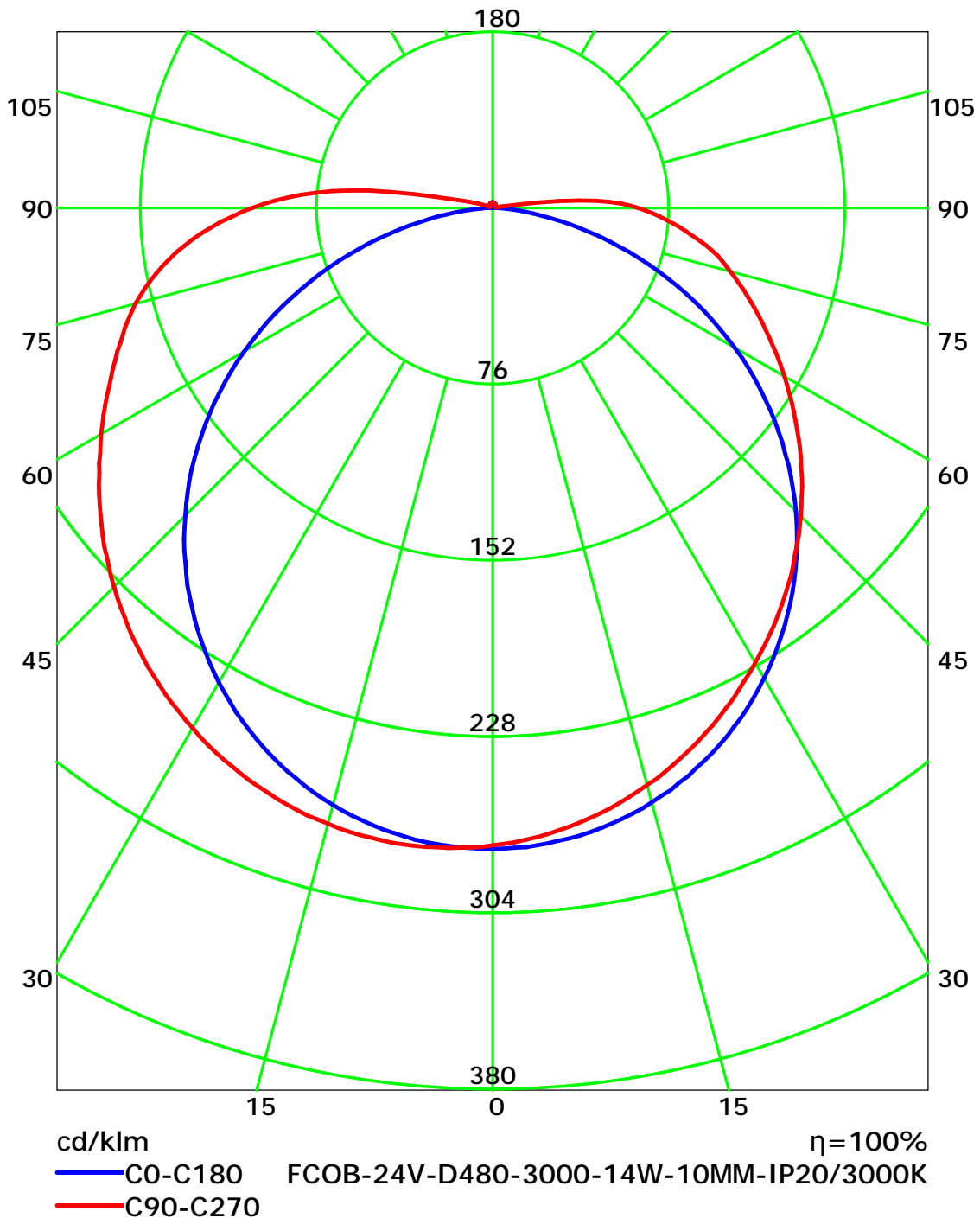
Luminous Intensity Distribution Curve



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:

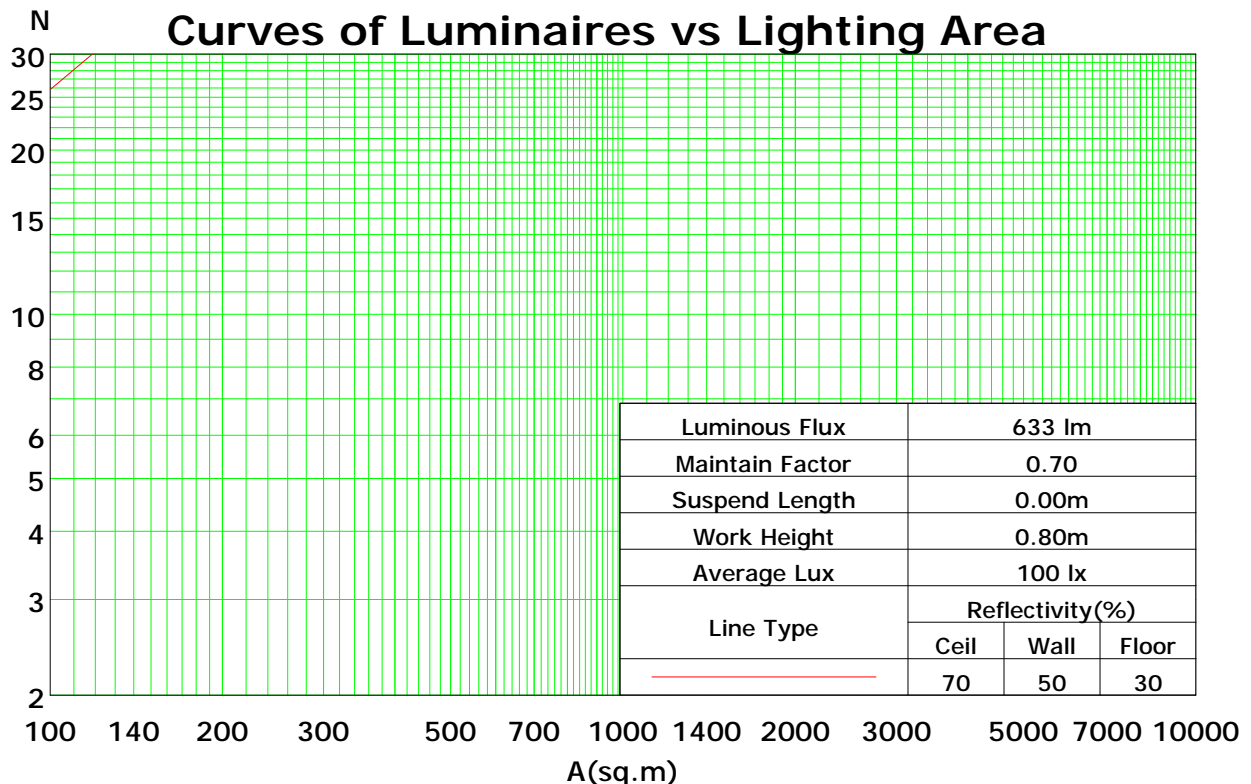
Coefficients Of Utilization - Zonal Cavity Method

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	103	103	103	98	98	98	96
1	105	99	94	89	102	96	91	87	91	87	84	87	83	80	82	80	77	75
2	94	85	77	70	91	83	75	69	78	72	67	74	69	65	71	66	63	60
3	86	74	65	57	83	72	63	57	68	61	55	65	59	53	62	56	52	49
4	78	65	55	48	75	63	54	47	60	52	46	57	51	45	55	49	44	42
5	72	58	48	41	69	56	47	40	54	46	40	51	44	39	49	43	38	36
6	66	52	42	35	64	51	42	35	48	40	34	46	39	34	44	38	33	31
7	61	47	38	31	59	46	37	31	44	36	30	42	35	30	40	34	29	27
8	57	43	34	28	55	42	33	27	40	32	27	38	32	26	37	31	26	24
9	53	39	30	25	51	38	30	24	37	29	24	35	29	24	34	28	23	22
10	50	36	28	22	48	35	27	22	34	27	22	33	26	22	32	26	21	19

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.32

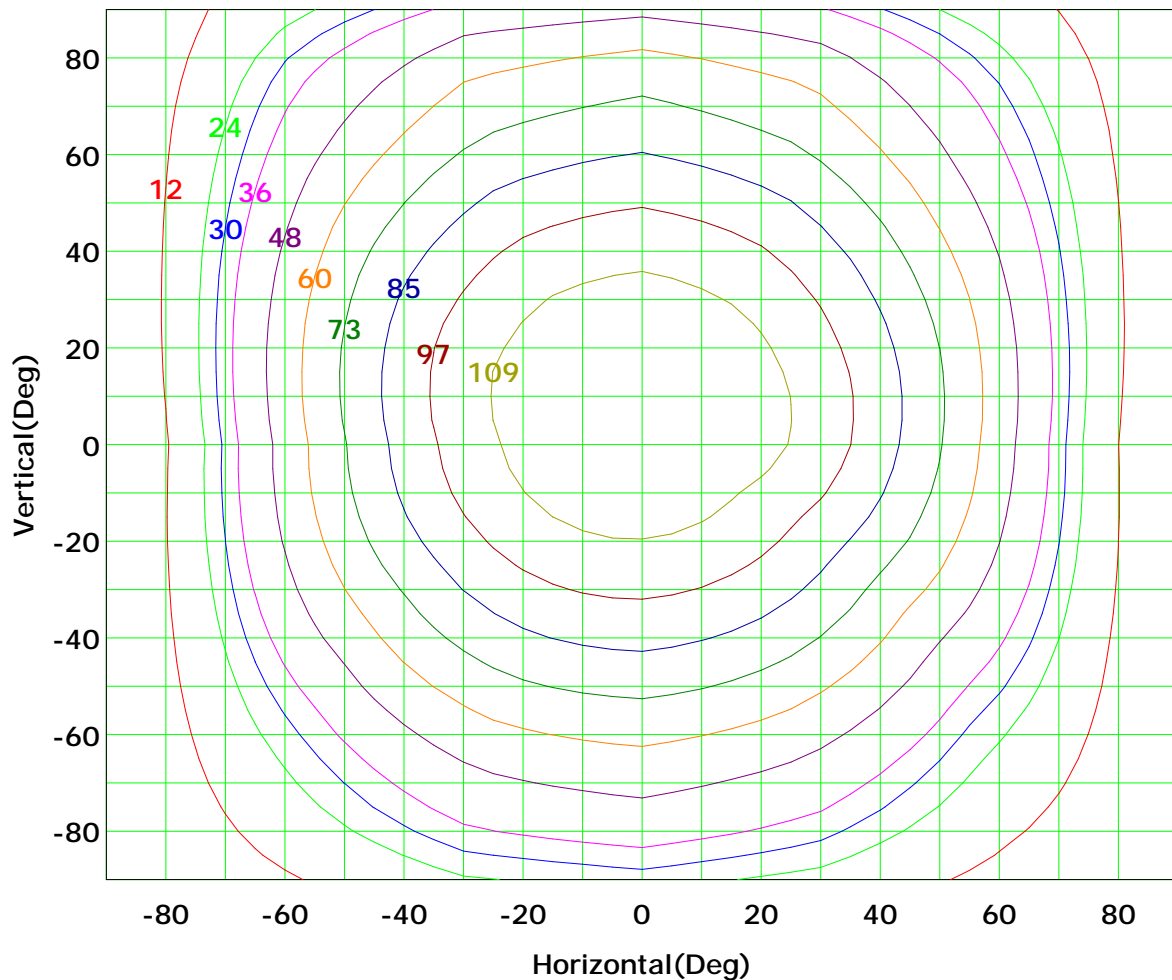
Spacing Criteria (Diagonal): 1.42



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)



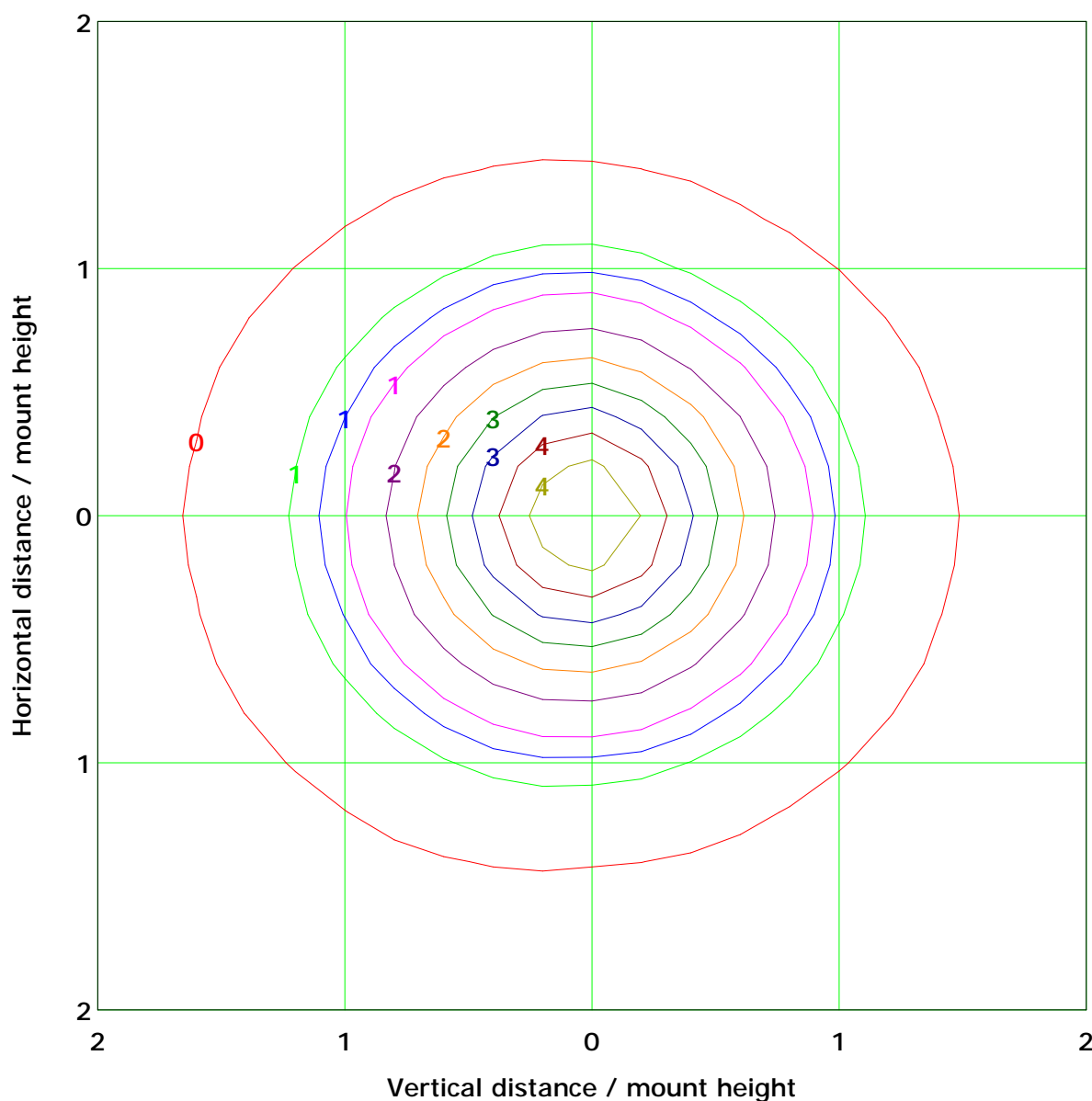
Imax (100%): 121 cd

(10%):	12 cd	(20%):	24 cd
(25%):	30 cd	(30%):	36 cd
(40%):	48 cd	(50%):	60 cd
(60%):	73 cd	(70%):	85 cd
(80%):	97 cd	(90%):	109 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%): 4.8 lx

(10%): 0.5 lx	(20%): 1.0 lx
(25%): 1.2 lx	(30%): 1.4 lx
(40%): 1.9 lx	(50%): 2.4 lx
(60%): 2.9 lx	(70%): 3.4 lx
(80%): 3.9 lx	(90%): 4.3 lx

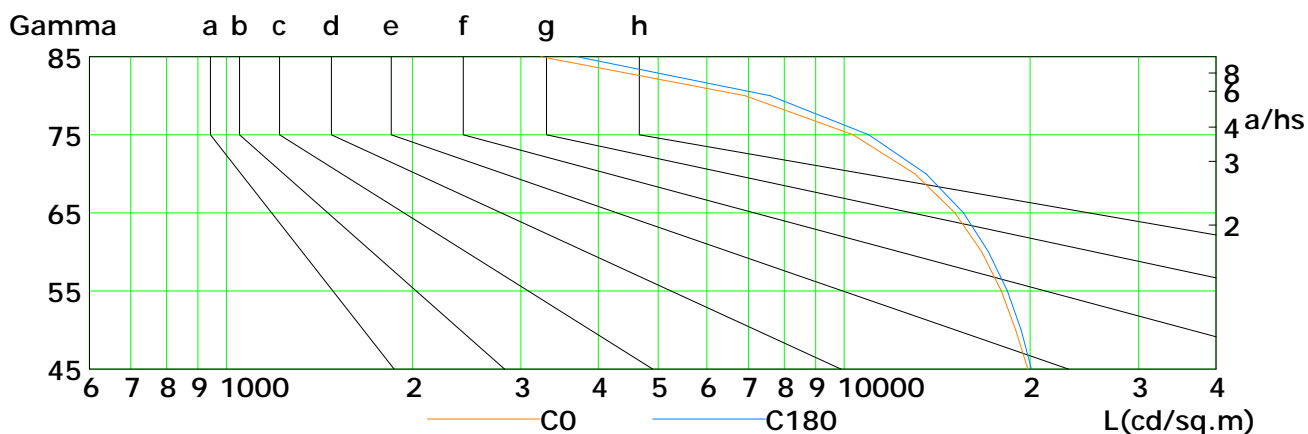
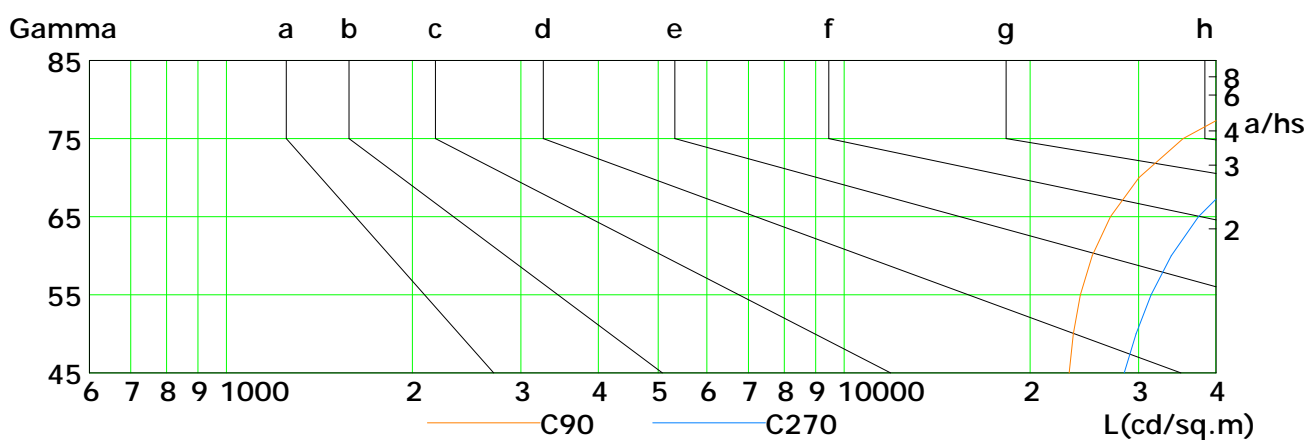
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Kerr

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

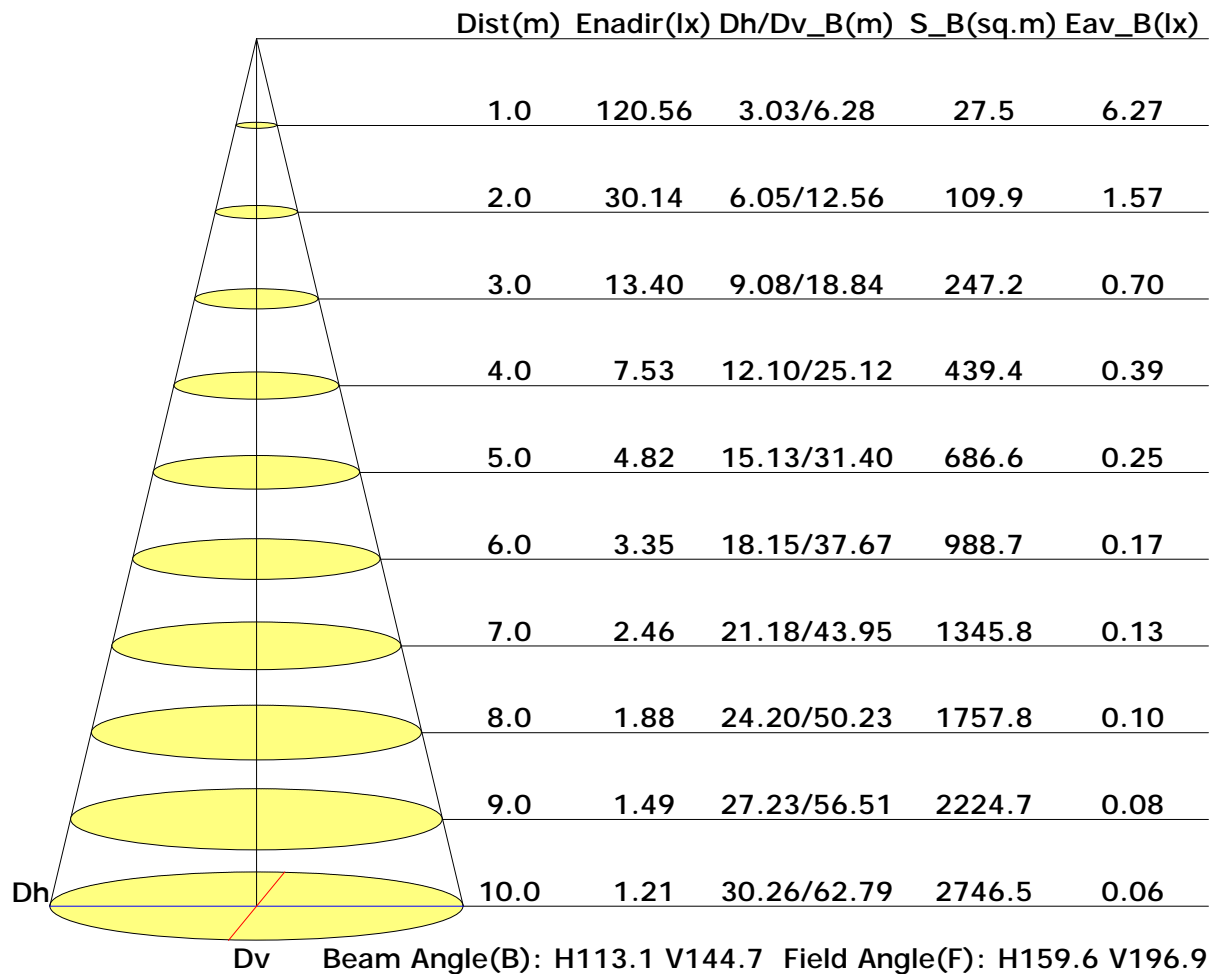


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	19851	18973	17968	16710	15110	13028	10344	6920	3229
C90	23143	23504	24141	25233	26995	30020	35405	46149	75900
C180	20119	19351	18382	17145	15604	13583	10973	7593	3694
C270	28425	29705	31425	33868	37462	43301	53210	71494	122248

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

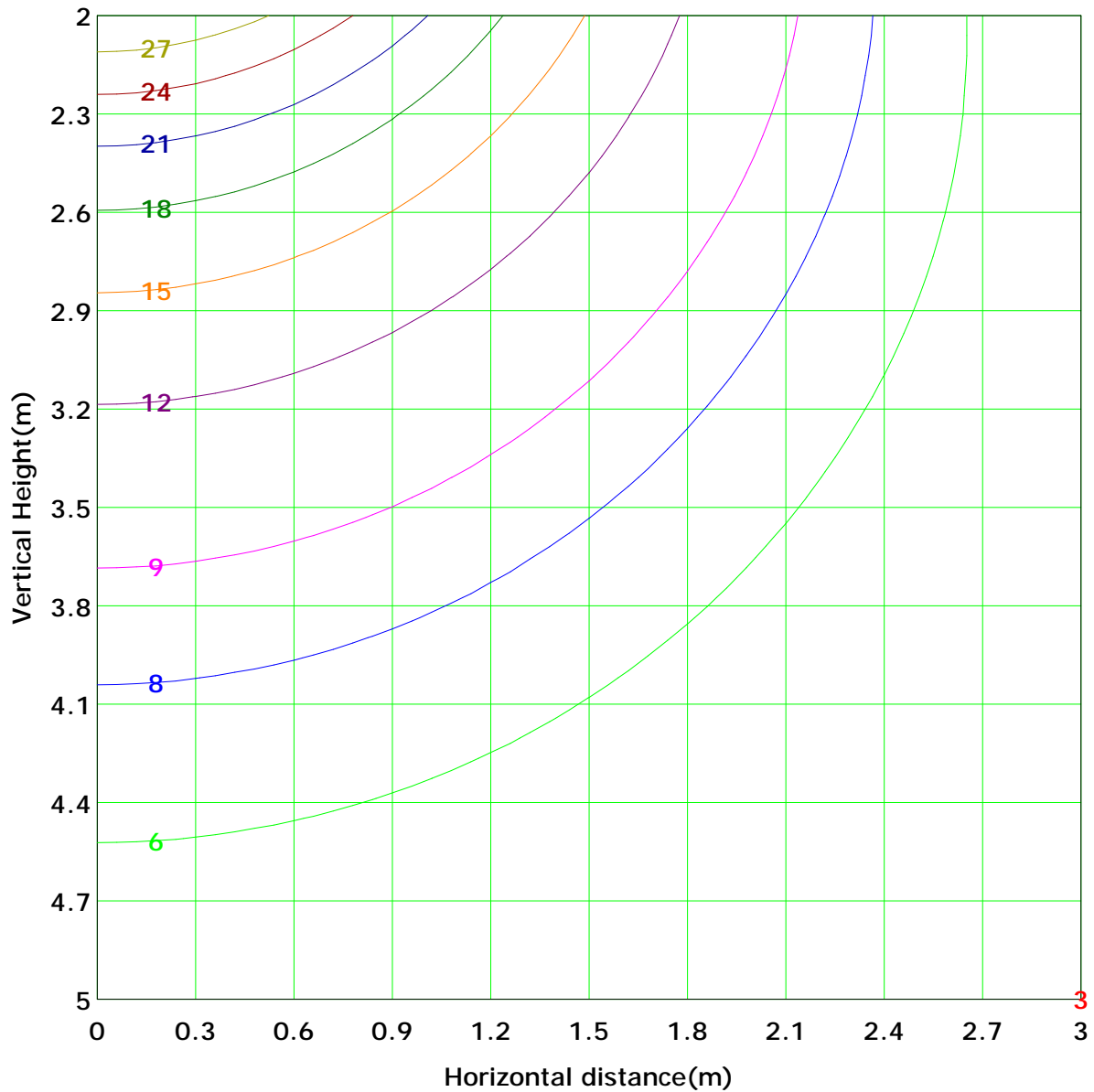
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 30.1 lx
(10%): 3.0 lx	(20%): 6.0 lx	
(25%): 7.5 lx	(30%): 9.0 lx	
(40%): 12.1 lx	(50%): 15.1 lx	
(60%): 18.1 lx	(70%): 21.1 lx	
(80%): 24.1 lx	(90%): 27.1 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:

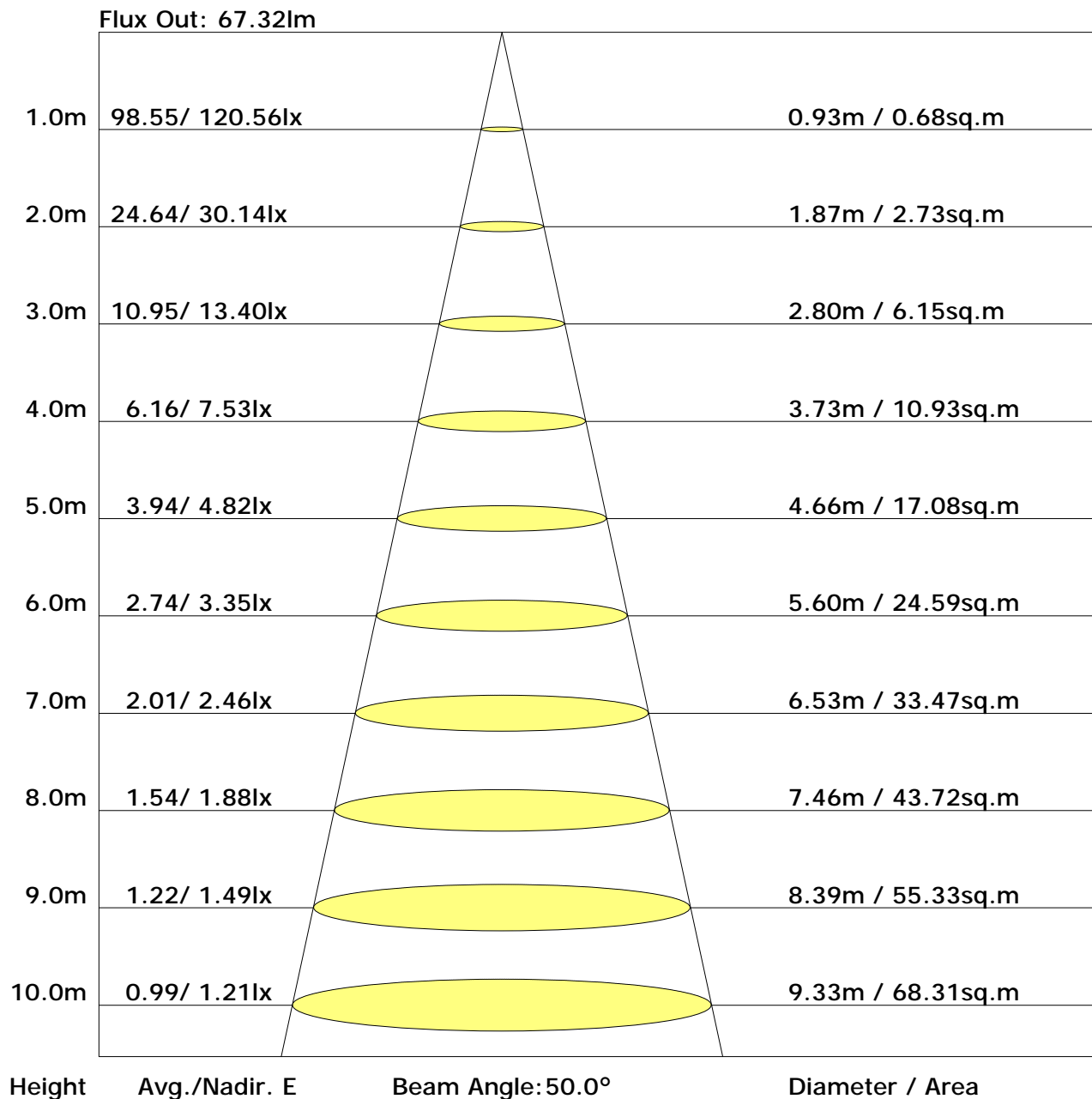
Area Flux Table

Unit: lm

		Orbit, m																			
-90	0.0	0.1	0.2	0.5	0.7	1.0	1.3	1.5	1.6	1.6	1.5	1.3	1.1	0.8	0.5	0.3	0.1	0.0	14.2	14.1	
-80	0.0	0.1	0.3	0.6	1.0	1.3	1.7	1.9	2.1	2.1	1.9	1.7	1.4	1.0	0.7	0.4	0.1	0.0	18.2	18.2	
-70	0.0	0.1	0.4	0.7	1.1	1.6	1.9	2.2	2.4	2.4	2.2	2.0	1.6	1.2	0.8	0.4	0.1	0.0	21.2	21.1	
-60	0.0	0.2	0.4	0.8	1.3	1.8	2.2	2.5	2.7	2.7	2.5	2.3	1.8	1.4	0.9	0.5	0.2	0.0	24.1	24.1	
-50	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	1.0	0.5	0.2	0.0	27.0	26.9	
-40	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	1.1	0.5	0.2	0.0	29.4	29.3	
-30	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	0.6	0.2	0.0	31.1	31.1	
-20	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	1.8	1.1	0.6	0.2	0.0	32.2	32.1	
-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	1.8	1.1	0.6	0.2	0.0	32.3	32.3	
0	0.0	0.2	0.6	1.1	1.7	2.4	2.9	3.3	3.5	3.6	3.4	2.9	2.4	1.7	1.1	0.5	0.2	0.0	31.5	31.5	
10	0.0	0.2	0.5	1.0	1.6	2.2	2.7	3.1	3.4	3.4	3.2	2.8	2.3	1.6	1.0	0.5	0.2	0.0	29.9	29.8	
20	0.0	0.2	0.5	0.9	1.5	2.0	2.5	2.9	3.1	3.1	2.9	2.6	2.1	1.5	1.0	0.5	0.2	0.0	27.5	27.5	
30	0.0	0.2	0.4	0.8	1.3	1.8	2.3	2.6	2.8	2.8	2.7	2.3	1.9	1.4	0.9	0.5	0.2	0.0	24.7	24.6	
40	0.0	0.1	0.4	0.7	1.1	1.6	2.0	2.3	2.5	2.5	2.3	2.0	1.6	1.2	0.8	0.4	0.1	0.0	21.5	21.4	
50	0.0	0.1	0.3	0.6	0.9	1.3	1.7	1.9	2.1	2.1	2.0	1.7	1.4	1.0	0.6	0.3	0.1	0.0	18.1	18.1	
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	0.3	0.1	0.0	14.8	14.7	
70	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.2	1.4	1.4	1.3	1.1	0.9	0.7	0.4	0.2	0.1	0.0	11.8	11.7	
80	0.0	0.0	0.1	0.2	0.4	0.6	0.8	0.9	1.0	1.0	0.9	0.8	0.7	0.5	0.3	0.1	0.1	0.0	8.6	8.2	
90	0.3	2.5	7.4	14.2	22.3	30.7	38.3	43.9	47.2	47.4	44.5	39.2	31.7	23.1	14.8	7.6	2.6	0.3	418		
Flux(T)	0.0	2.3	7.2	14.1	22.3	30.7	38.3	43.9	47.2	47.4	44.5	39.2	31.7	23.1	14.8	7.6	2.3	0.0		417	
Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Horizontal plane																					



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	24.9	26.6	25.4	27.0	27.4	24.7	26.4	25.2	26.8	27.2
3H	26.8	28.3	27.2	28.7	29.1	27.2	28.7	27.6	29.1	29.6
4H	27.4	28.9	27.9	29.3	29.8	28.4	29.8	28.8	30.2	30.7
6H	27.9	29.2	28.4	29.7	30.2	29.6	30.9	30.1	31.4	31.9
8H	28.0	29.3	28.5	29.8	30.3	30.2	31.4	30.6	31.9	32.4
12H	28.1	29.3	28.6	29.8	30.3	30.7	32.0	31.2	32.4	32.9
X=4H Y=2H	25.9	27.3	26.3	27.7	28.2	25.4	26.8	25.8	27.2	27.7
3H	28.0	29.2	28.5	29.7	30.2	28.1	29.3	28.6	29.8	30.3
4H	28.9	30.0	29.4	30.5	31.0	29.5	30.6	29.9	31.1	31.6
6H	29.5	30.6	30.1	31.1	31.6	30.9	31.9	31.4	32.4	32.9
8H	29.8	30.7	30.3	31.2	31.8	31.5	32.5	32.1	33.0	33.6
12H	29.9	30.8	30.5	31.3	31.9	32.2	33.1	32.8	33.6	34.2
X=8H Y=4H	29.7	30.6	30.2	31.1	31.7	29.8	30.8	30.3	31.3	31.8
6H	30.7	31.5	31.2	32.0	32.6	31.5	32.3	32.0	32.8	33.4
8H	31.1	31.8	31.6	32.4	33.0	32.3	33.0	32.9	33.6	34.2
12H	31.4	32.1	32.0	32.6	33.3	33.2	33.8	33.7	34.4	35.0
X=12H Y=4H	29.9	30.8	30.5	31.3	31.9	29.9	30.8	30.4	31.3	31.8
6H	31.1	31.8	31.6	32.3	32.9	31.6	32.3	32.2	32.9	33.5
8H	31.6	32.3	32.2	32.8	33.5	32.5	33.2	33.1	33.7	34.4

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	0.69	0.74	0.81	0.86	0.90	0.95	0.98
	0.30		0.45	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.94
	0.20		0.39	0.47	0.54	0.60	0.68	0.74	0.79	0.85	0.90
0.50	0.50	0.20	0.51	0.59	0.66	0.70	0.77	0.82	0.85	0.90	0.93
	0.30		0.44	0.52	0.59	0.64	0.71	0.76	0.80	0.86	0.89
	0.20		0.39	0.46	0.53	0.58	0.66	0.72	0.76	0.82	0.86
0.30	0.50	0.20	0.50	0.56	0.63	0.67	0.74	0.78	0.81	0.85	0.88
	0.30		0.43	0.50	0.57	0.62	0.69	0.73	0.77	0.82	0.85
	0.20		0.38	0.45	0.52	0.57	0.64	0.69	0.73	0.79	0.83
0.00	0.00	0.00	0.36	0.42	0.49	0.53	0.60	0.65	0.69	0.74	0.77
Rating: 6W 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	0.68	0.56	0.47	0.41	0.33	0.28	
	0.30		0.86	0.76	0.67	0.60	0.50	0.44	0.38	0.31	0.26	
	0.20		0.73	0.66	0.59	0.54	0.46	0.40	0.36	0.29	0.25	
0.50	0.50	0.20	0.98	0.85	0.73	0.65	0.53	0.48	0.39	0.32	0.26	
	0.30		0.83	0.74	0.65	0.58	0.49	0.42	0.37	0.30	0.25	
	0.20		0.72	0.65	0.58	0.53	0.45	0.39	0.35	0.28	0.24	
0.30	0.50	0.20	0.95	0.81	0.70	0.62	0.51	0.43	0.38	0.30	0.25	
	0.30		0.81	0.71	0.63	0.56	0.47	0.40	0.35	0.29	0.24	
	0.20		0.71	0.64	0.57	0.51	0.44	0.38	0.34	0.28	0.23	
0.00	0.00	0.00	0.60	0.54	0.48	0.43	0.36	0.31	0.28	0.23	0.19	
Rating: 6W 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	0.20	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.26
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.23
	0.20		0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.19	0.20
0.50	0.50	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25
	0.30		0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22
	0.20		0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.19
0.30	0.50	0.20	0.19	0.20	0.21	0.22	0.23	0.23	0.23	0.24	0.24
	0.30		0.13	0.14	0.15	0.16	0.18	0.19	0.19	0.20	0.21
	0.20		0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.19
0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Rating: 6W 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	120.0	0.1	0.1	0.03	0.03
1.0-2.0	120.0	0.3	0.5	0.08	0.11
2.0-3.0	119.9	0.6	1.0	0.13	0.24
3.0-4.0	119.8	0.8	1.8	0.18	0.42
4.0-5.0	119.7	1.0	2.9	0.24	0.66
5.0-6.0	119.5	1.3	4.1	0.29	0.95
6.0-7.0	119.2	1.5	5.6	0.34	1.29
7.0-8.0	119.0	1.7	7.3	0.39	1.68
8.0-9.0	118.7	1.9	9.2	0.44	2.12
9.0-10.0	118.3	2.1	11.4	0.49	2.61
10.0-11.0	118.0	2.4	13.7	0.54	3.15
11.0-12.0	117.6	2.6	16.3	0.59	3.74
12.0-13.0	117.1	2.8	19.1	0.64	4.38
13.0-14.0	116.7	3.0	22.1	0.69	5.07
14.0-15.0	116.2	3.2	25.3	0.73	5.80
15.0-16.0	115.6	3.4	28.6	0.78	6.58
16.0-17.0	115.0	3.6	32.2	0.82	7.40
17.0-18.0	114.4	3.8	36.0	0.87	8.26
18.0-19.0	113.8	4.0	40.0	0.91	9.17
19.0-20.0	113.1	4.1	44.1	0.95	10.12
20.0-21.0	112.4	4.3	48.4	0.99	11.11
21.0-22.0	111.6	4.5	52.9	1.03	12.14
22.0-23.0	110.8	4.7	57.5	1.07	13.21
23.0-24.0	110.0	4.8	62.4	1.10	14.32
24.0-25.0	109.2	5.0	67.3	1.14	15.46
25.0-26.0	108.3	5.1	72.4	1.17	16.63
26.0-27.0	107.4	5.3	77.7	1.21	17.84
27.0-28.0	106.5	5.4	83.1	1.24	19.07
28.0-29.0	105.5	5.5	88.6	1.27	20.34
29.0-30.0	104.5	5.6	94.2	1.30	21.64
30.0-31.0	103.5	5.8	100.0	1.32	22.96
31.0-32.0	102.4	5.9	105.9	1.35	24.31
32.0-33.0	101.4	6.0	111.8	1.37	25.68
33.0-34.0	100.3	6.1	117.9	1.39	27.07
34.0-35.0	99.2	6.2	124.1	1.41	28.49
35.0-36.0	98.0	6.2	130.3	1.43	29.92

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	96.9	6.3	136.6	1.45	31.37
37.0-38.0	95.7	6.4	143.0	1.47	32.84
38.0-39.0	94.5	6.5	149.5	1.48	34.32
39.0-40.0	93.3	6.5	156.0	1.49	35.81
40.0-41.0	92.0	6.6	162.5	1.50	37.32
41.0-42.0	90.7	6.6	169.1	1.51	38.83
42.0-43.0	89.4	6.6	175.8	1.52	40.35
43.0-44.0	88.1	6.7	182.4	1.53	41.88
44.0-45.0	86.7	6.7	189.1	1.53	43.41
45.0-46.0	85.4	6.7	195.8	1.53	44.94
46.0-47.0	84.0	6.7	202.4	1.53	46.48
47.0-48.0	82.6	6.7	209.1	1.53	48.01
48.0-49.0	81.2	6.7	215.8	1.53	49.54
49.0-50.0	79.8	6.7	222.4	1.53	51.07
50.0-51.0	78.3	6.6	229.1	1.52	52.59
51.0-52.0	76.9	6.6	235.7	1.52	54.11
52.0-53.0	75.4	6.6	242.2	1.51	55.61
53.0-54.0	74.0	6.5	248.8	1.50	57.11
54.0-55.0	72.5	6.5	255.2	1.49	58.60
55.0-56.0	71.0	6.4	261.6	1.47	60.07
56.0-57.0	69.5	6.4	268.0	1.46	61.53
57.0-58.0	68.0	6.3	274.3	1.44	62.97
58.0-59.0	66.4	6.2	280.5	1.43	64.40
59.0-60.0	64.9	6.1	286.6	1.41	65.81
60.0-61.0	63.4	6.0	292.7	1.39	67.19
61.0-62.0	61.9	6.0	298.6	1.37	68.56
62.0-63.0	60.3	5.9	304.5	1.35	69.91
63.0-64.0	58.8	5.8	310.3	1.33	71.24
64.0-65.0	57.3	5.7	315.9	1.30	72.54
65.0-66.0	55.8	5.6	321.5	1.28	73.82
66.0-67.0	54.3	5.5	327.0	1.25	75.07
67.0-68.0	52.8	5.4	332.3	1.23	76.30
68.0-69.0	51.4	5.2	337.6	1.20	77.50
69.0-70.0	49.9	5.1	342.7	1.18	78.68
70.0-71.0	48.5	5.0	347.7	1.15	79.83
71.0-72.0	47.1	4.9	352.6	1.12	80.95

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	45.6	4.8	357.4	1.10	82.05
73.0-74.0	44.2	4.7	362.0	1.07	83.12
74.0-75.0	42.9	4.5	366.5	1.04	84.16
75.0-76.0	41.5	4.4	371.0	1.01	85.17
76.0-77.0	40.2	4.3	375.2	0.98	86.15
77.0-78.0	38.8	4.2	379.4	0.95	87.11
78.0-79.0	37.5	4.0	383.4	0.92	88.03
79.0-80.0	36.1	3.9	387.3	0.89	88.93
80.0-81.0	34.8	3.8	391.1	0.86	89.79
81.0-82.0	33.3	3.6	394.7	0.83	90.62
82.0-83.0	31.9	3.5	398.2	0.80	91.42
83.0-84.0	30.5	3.3	401.5	0.76	92.18
84.0-85.0	29.1	3.2	404.7	0.73	92.91
85.0-86.0	27.6	3.0	407.7	0.69	93.60
86.0-87.0	26.1	2.9	410.5	0.66	94.26
87.0-88.0	24.6	2.7	413.2	0.62	94.88
88.0-89.0	23.2	2.5	415.8	0.58	95.46
89.0-90.0	21.7	2.4	418.2	0.55	96.01
90.0-91.0	20.3	2.2	420.4	0.51	96.52
91.0-92.0	18.6	2.0	422.4	0.47	96.99
92.0-93.0	16.8	1.8	424.3	0.42	97.41
93.0-94.0	14.8	1.6	425.9	0.37	97.78
94.0-95.0	12.7	1.4	427.3	0.32	98.10
95.0-96.0	10.5	1.2	428.4	0.26	98.36
96.0-97.0	8.5	0.9	429.3	0.21	98.57
97.0-98.0	6.7	0.7	430.1	0.17	98.74
98.0-99.0	5.1	0.6	430.6	0.13	98.87
99.0-100.0	3.8	0.4	431.0	0.09	98.96
100.0-101.0	2.8	0.3	431.3	0.07	99.03
101.0-102.0	2.1	0.2	431.6	0.05	99.09
102.0-103.0	1.7	0.2	431.8	0.04	99.13
103.0-104.0	1.4	0.2	431.9	0.04	99.16
104.0-105.0	1.2	0.1	432.0	0.03	99.19
105.0-106.0	1.0	0.1	432.1	0.02	99.22
106.0-107.0	0.9	0.1	432.2	0.02	99.24
107.0-108.0	0.8	0.1	432.3	0.02	99.26

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	0.7	0.1	432.4	0.02	99.27
109.0-110.0	0.6	0.1	432.4	0.01	99.29
110.0-111.0	0.6	0.1	432.5	0.01	99.30
111.0-112.0	0.5	0.1	432.6	0.01	99.31
112.0-113.0	0.6	0.1	432.6	0.01	99.33
113.0-114.0	0.6	0.1	432.7	0.01	99.34
114.0-115.0	0.6	0.1	432.7	0.01	99.35
115.0-116.0	0.6	0.1	432.8	0.01	99.36
116.0-117.0	0.6	0.1	432.8	0.01	99.38
117.0-118.0	0.6	0.1	432.9	0.01	99.39
118.0-119.0	0.6	0.1	433.0	0.01	99.40
119.0-120.0	0.6	0.1	433.0	0.01	99.42
120.0-121.0	0.6	0.1	433.1	0.01	99.43
121.0-122.0	0.6	0.1	433.1	0.01	99.44
122.0-123.0	0.6	0.1	433.2	0.01	99.46
123.0-124.0	0.7	0.1	433.3	0.01	99.47
124.0-125.0	0.7	0.1	433.3	0.01	99.49
125.0-126.0	0.7	0.1	433.4	0.01	99.50
126.0-127.0	0.7	0.1	433.4	0.01	99.51
127.0-128.0	0.7	0.1	433.5	0.01	99.53
128.0-129.0	0.7	0.1	433.6	0.01	99.54
129.0-130.0	0.7	0.1	433.6	0.01	99.56
130.0-131.0	0.7	0.1	433.7	0.01	99.57
131.0-132.0	0.7	0.1	433.7	0.01	99.58
132.0-133.0	0.7	0.1	433.8	0.01	99.60
133.0-134.0	0.7	0.1	433.9	0.01	99.61
134.0-135.0	0.8	0.1	433.9	0.01	99.62
135.0-136.0	0.8	0.1	434.0	0.01	99.64
136.0-137.0	0.8	0.1	434.0	0.01	99.65
137.0-138.0	0.8	0.1	434.1	0.01	99.66
138.0-139.0	0.8	0.1	434.2	0.01	99.68
139.0-140.0	0.8	0.1	434.2	0.01	99.69
140.0-141.0	0.8	0.1	434.3	0.01	99.70
141.0-142.0	0.8	0.1	434.3	0.01	99.72
142.0-143.0	0.8	0.1	434.4	0.01	99.73
143.0-144.0	0.8	0.1	434.4	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	0.8	0.1	434.5	0.01	99.75
145.0-146.0	0.9	0.1	434.5	0.01	99.77
146.0-147.0	0.9	0.1	434.6	0.01	99.78
147.0-148.0	0.9	0.1	434.6	0.01	99.79
148.0-149.0	0.9	0.1	434.7	0.01	99.80
149.0-150.0	0.9	0.0	434.7	0.01	99.81
150.0-151.0	0.9	0.0	434.8	0.01	99.83
151.0-152.0	0.9	0.0	434.8	0.01	99.84
152.0-153.0	0.9	0.0	434.9	0.01	99.85
153.0-154.0	0.9	0.0	434.9	0.01	99.86
154.0-155.0	0.9	0.0	435.0	0.01	99.87
155.0-156.0	0.9	0.0	435.0	0.01	99.88
156.0-157.0	0.9	0.0	435.1	0.01	99.89
157.0-158.0	0.9	0.0	435.1	0.01	99.90
158.0-159.0	0.9	0.0	435.1	0.01	99.90
159.0-160.0	1.0	0.0	435.2	0.01	99.91
160.0-161.0	1.0	0.0	435.2	0.01	99.92
161.0-162.0	1.0	0.0	435.2	0.01	99.93
162.0-163.0	1.0	0.0	435.3	0.01	99.94
163.0-164.0	1.0	0.0	435.3	0.01	99.94
164.0-165.0	1.0	0.0	435.3	0.01	99.95
165.0-166.0	1.0	0.0	435.4	0.01	99.96
166.0-167.0	1.0	0.0	435.4	0.01	99.96
167.0-168.0	1.0	0.0	435.4	0.01	99.97
168.0-169.0	1.0	0.0	435.4	0.01	99.97
169.0-170.0	1.0	0.0	435.5	0.00	99.98
170.0-171.0	1.0	0.0	435.5	0.00	99.98
171.0-172.0	1.0	0.0	435.5	0.00	99.99
172.0-173.0	1.0	0.0	435.5	0.00	99.99
173.0-174.0	1.0	0.0	435.5	0.00	99.99
174.0-175.0	1.1	0.0	435.5	0.00	99.99
175.0-176.0	1.0	0.0	435.5	0.00	100.00
176.0-177.0	1.1	0.0	435.5	0.00	100.00
177.0-178.0	1.1	0.0	435.6	0.00	100.00
178.0-179.0	1.1	0.0	435.6	0.00	100.00
179.0-180.0	1.1	0.0	435.6	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: