

Report No.: 大炮

Test Time: 2023/3/22 15:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: HL-FN15°

Luminous Length (mm): 270

Luminous Height (mm): 20

Current: 0.151 A

Power Factor: 0.975

Lamp Description: 3000K

Luminous Width (mm): 70

Voltage: 219.3 V

Power: 32.32 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2951.7 lm

Downward Ratio: 96%

Horizontal Diffuse Angle(10%,50%): H31.3,H15

Vertical Diffuse Angle(10%,50%): V31.6,V14.9

Luminaire Efficacy Rating (LER): 91

Max. Intensity: 22610.12 cd

Total Rated Lamp Lumens: 2951.7 lm

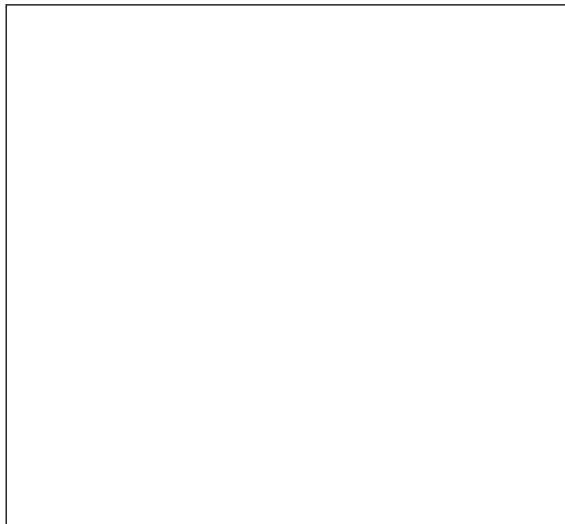
Efficiency: 100%

Upward Ratio: 4%

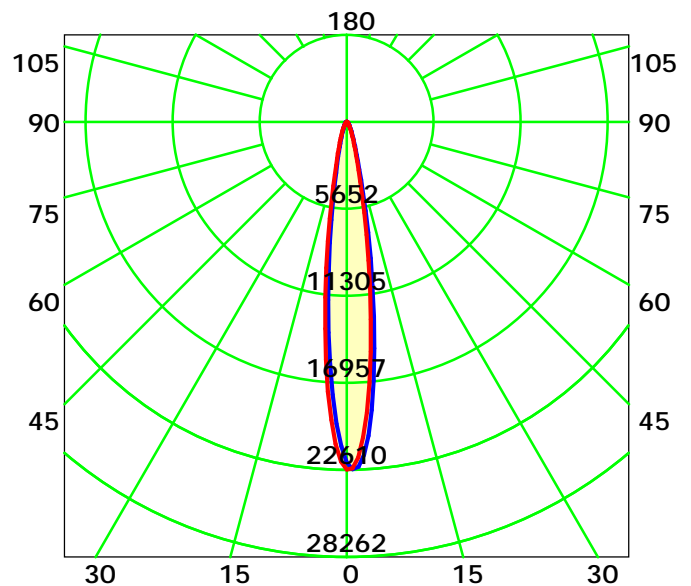
Central Intensity: 22124.79 cd

Pos of Max. Intensity: H60 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 15.0° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

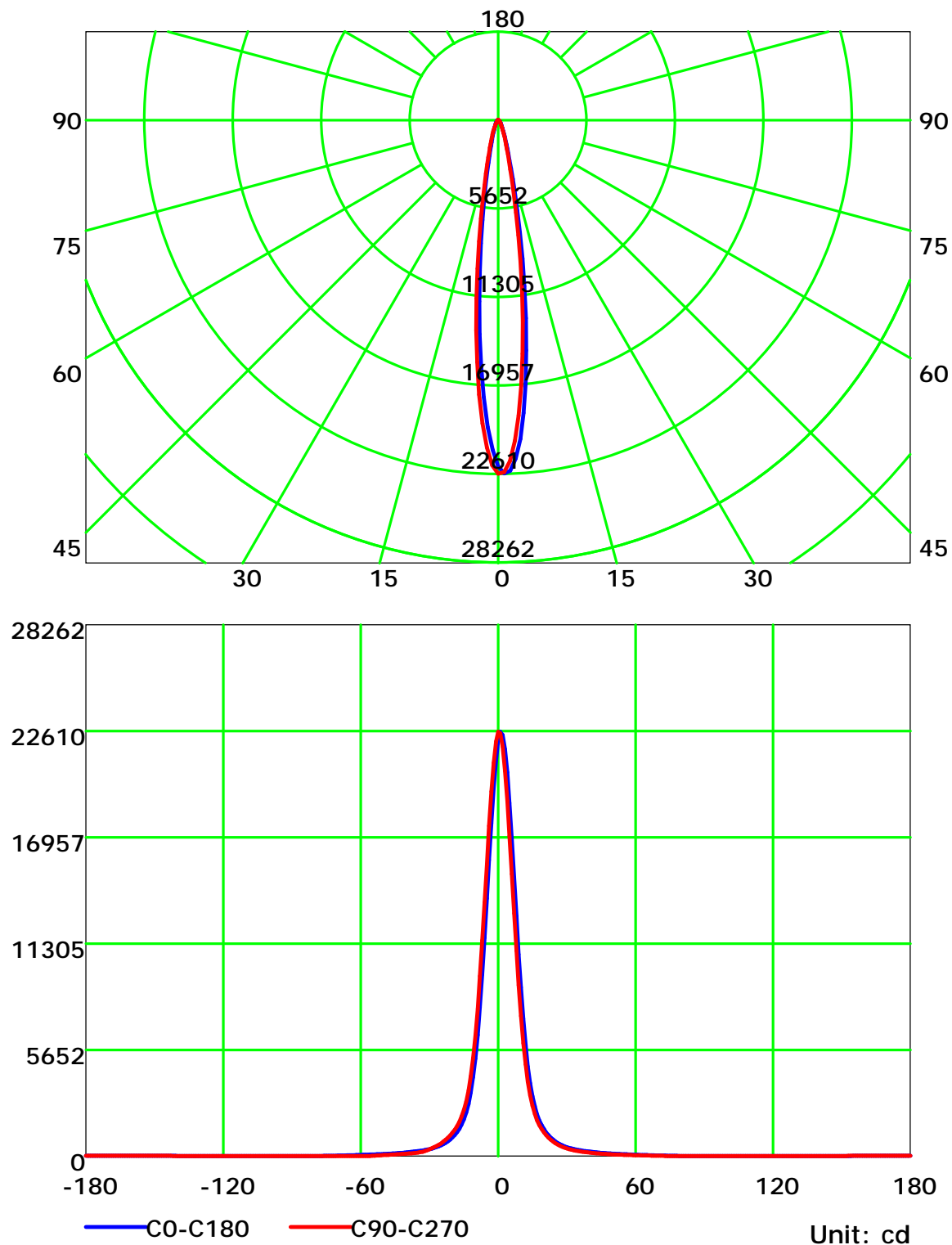
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

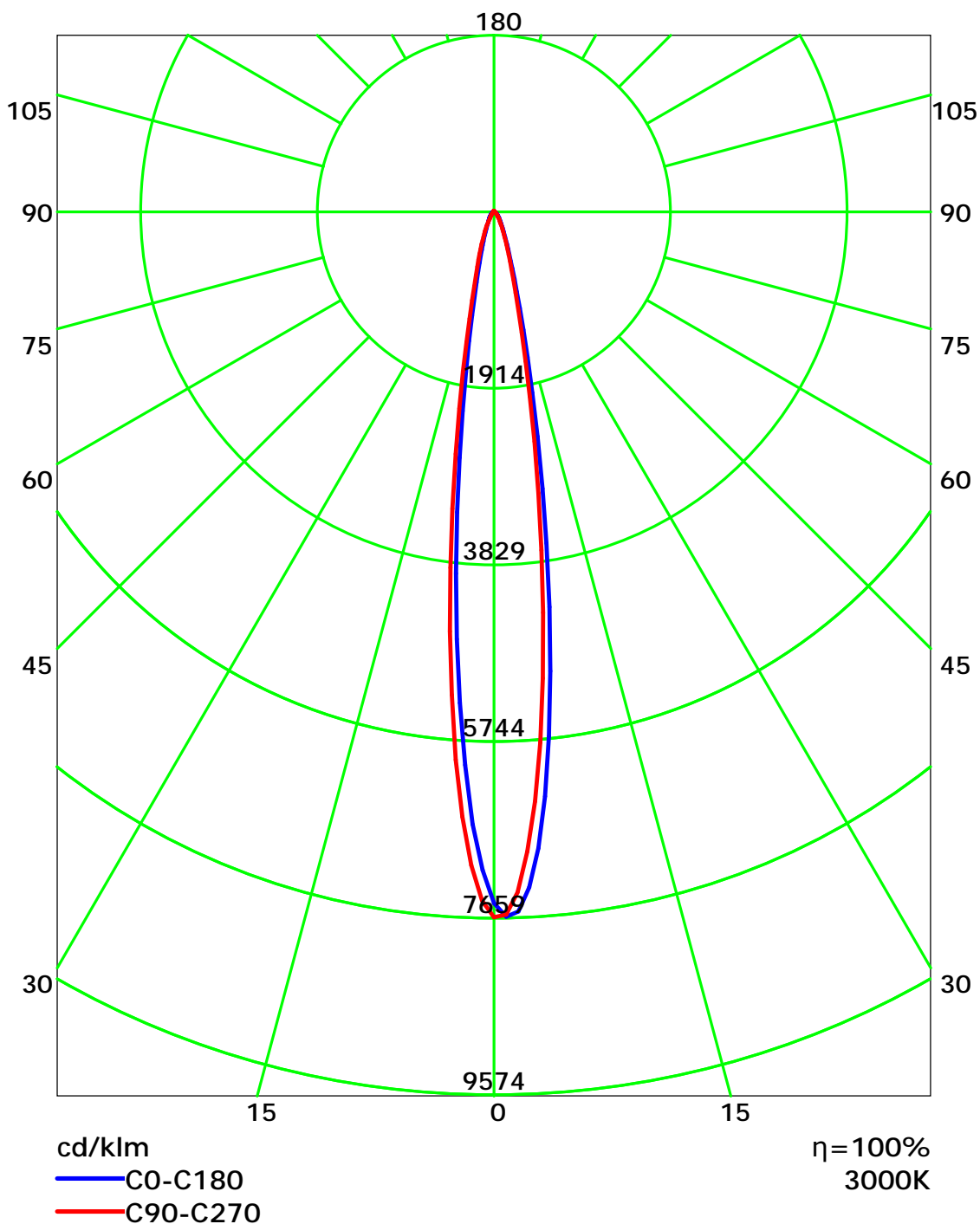
Luminous Intensity Distribution Curve



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

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: Jacky

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

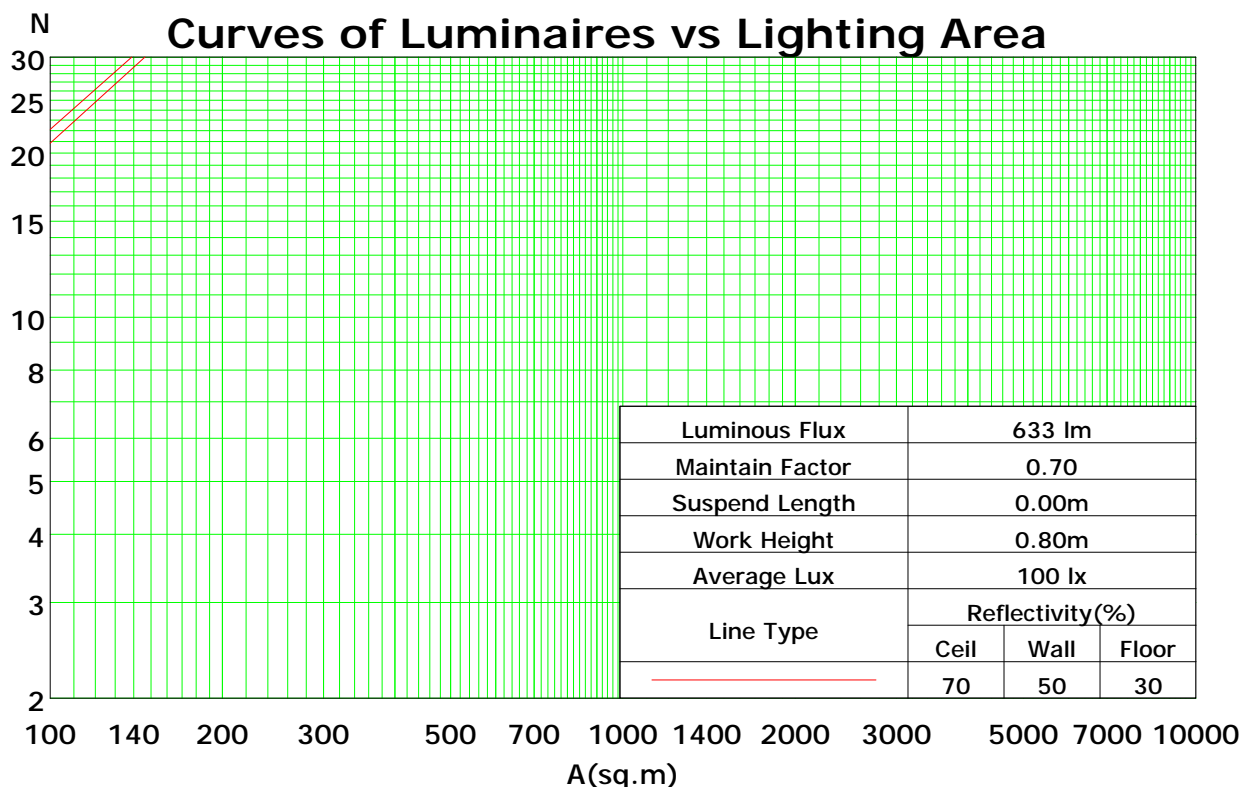
Coefficients Of Utilization - Zonal Cavity Method

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	113	111	108	106	110	108	106	104	103	102	100	99	98	97	95	94	93	91
2	109	104	101	98	106	102	99	96	98	96	94	95	93	91	92	90	89	87
3	104	99	95	91	102	97	94	90	94	91	89	91	89	87	89	87	85	83
4	101	94	90	86	99	93	89	86	91	87	84	88	85	83	86	84	82	80
5	97	91	86	82	95	89	85	82	87	84	81	85	82	80	83	81	79	77
6	94	87	82	79	93	86	82	79	84	81	78	83	79	77	81	78	76	75
7	91	84	79	76	90	83	79	76	82	78	75	80	77	75	79	76	74	73
8	89	81	77	74	87	81	76	73	79	76	73	78	75	72	77	74	72	71
9	86	79	75	72	85	78	74	71	77	74	71	76	73	70	75	72	70	69
10	84	77	73	70	83	76	72	69	75	72	69	74	71	69	74	71	68	67

Spacing Criteria (0-180): 0.26

Spacing Criteria (90-270): 0.26

Spacing Criteria (Diagonal): 0.27



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

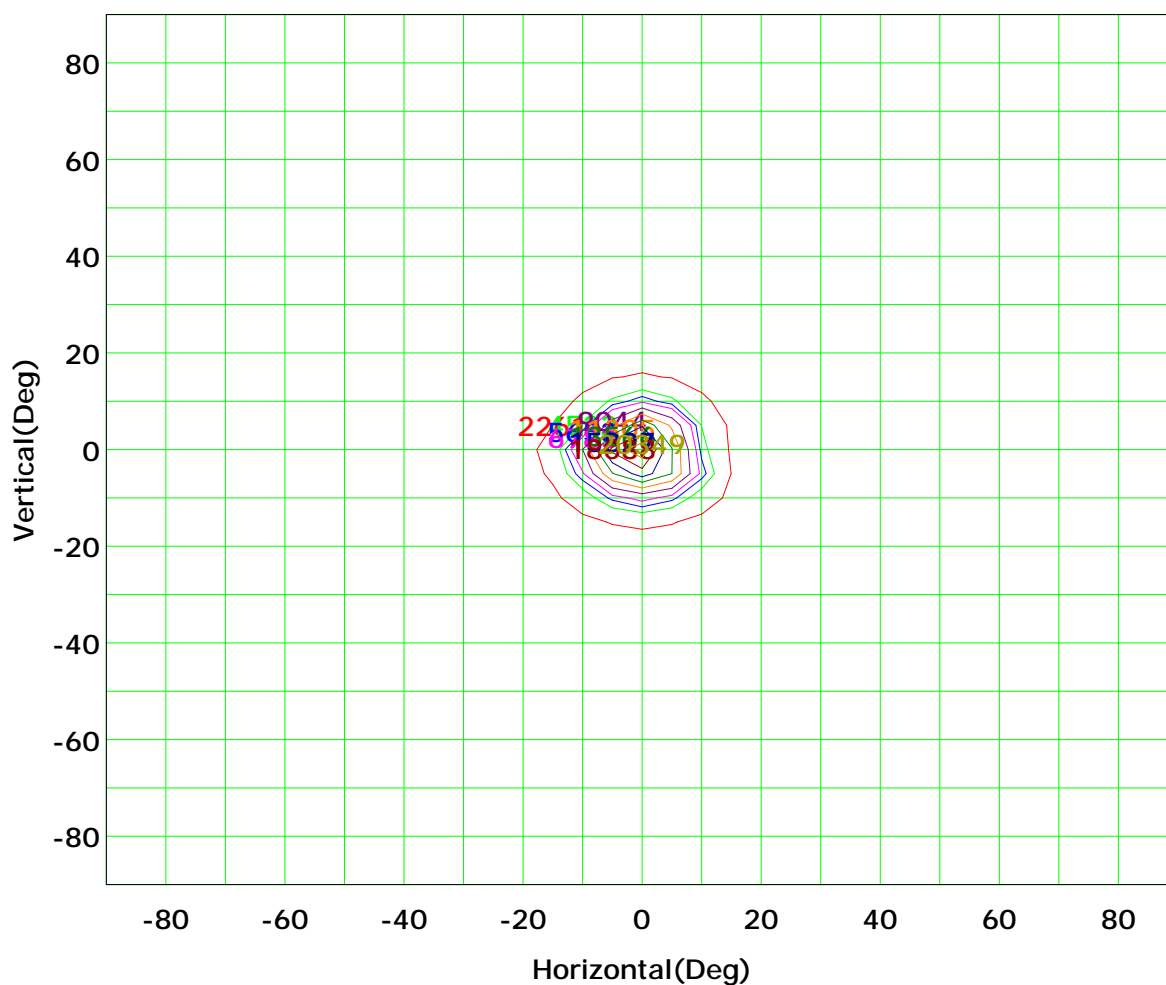
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



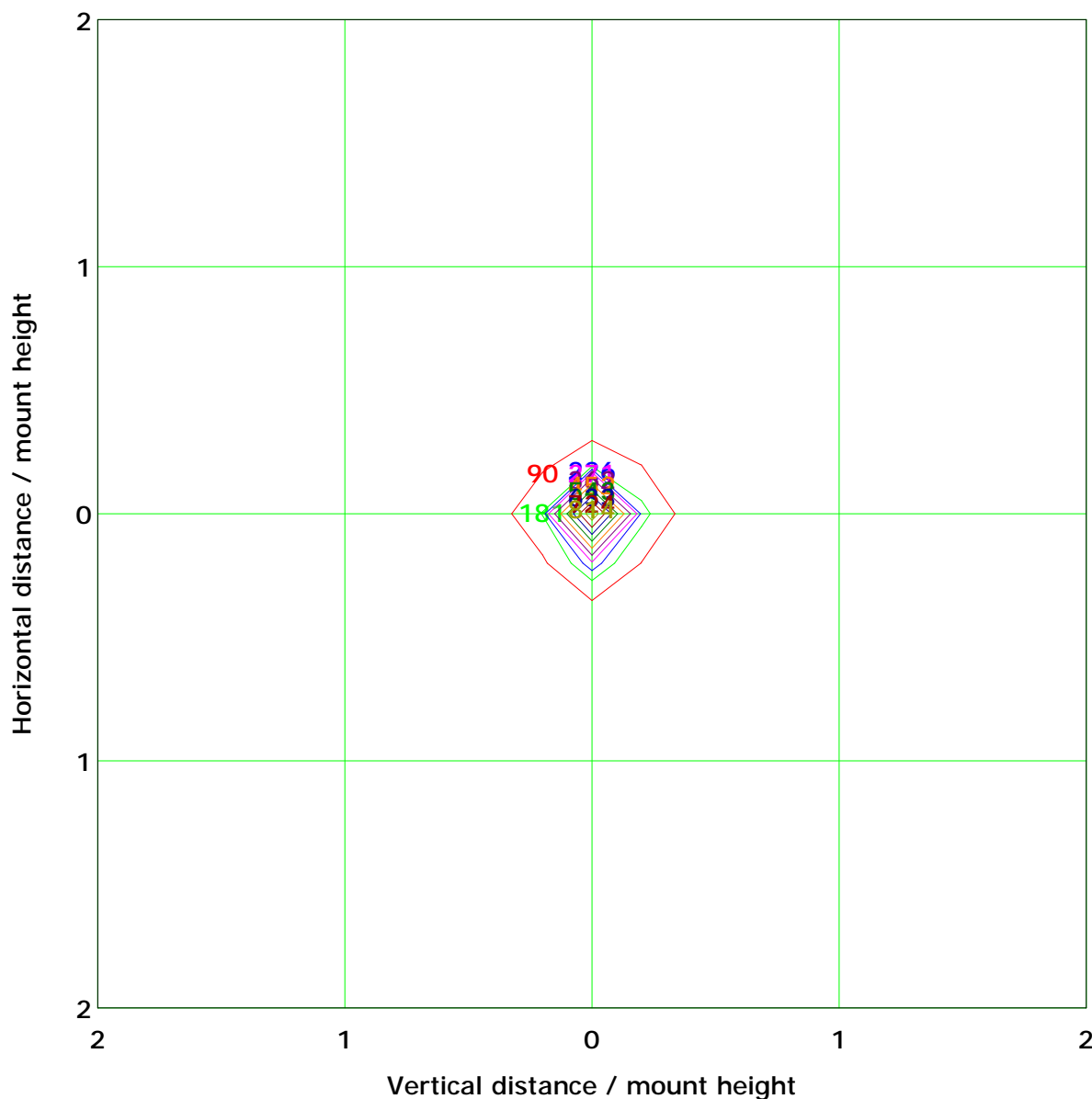
I_{max} (100%): 22610 cd

(10%): 2261 cd	(20%): 4522 cd
(25%): 5653 cd	(30%): 6783 cd
(40%): 9044 cd	(50%): 11305 cd
(60%): 13566 cd	(70%): 15827 cd
(80%): 18088 cd	(90%): 20349 cd

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

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%): 904.4 lx	
(10%): 90.4 lx	(20%): 180.9 lx
(25%): 226.1 lx	(30%): 271.3 lx
(40%): 361.8 lx	(50%): 452.2 lx
(60%): 542.6 lx	(70%): 633.1 lx
(80%): 723.5 lx	(90%): 814.0 lx

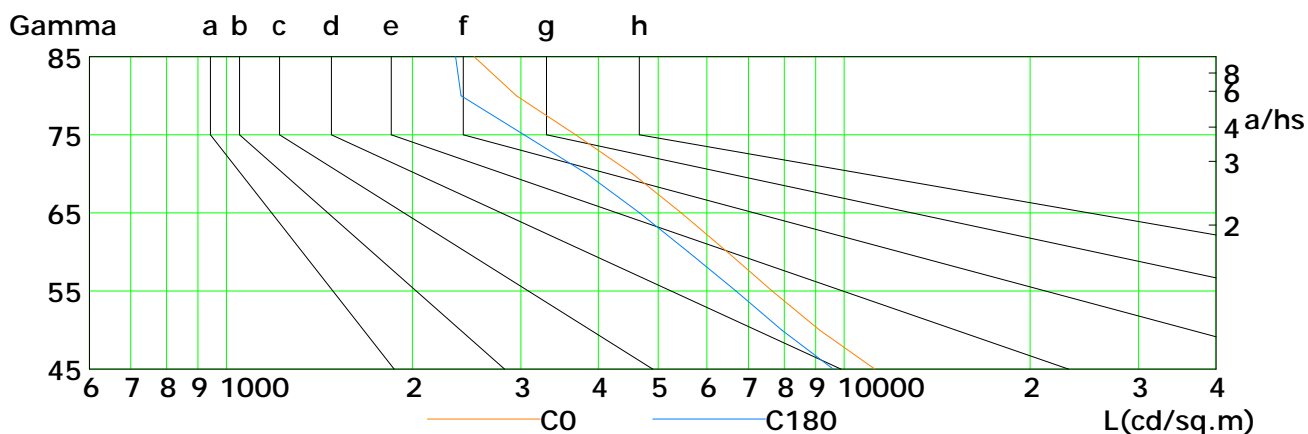
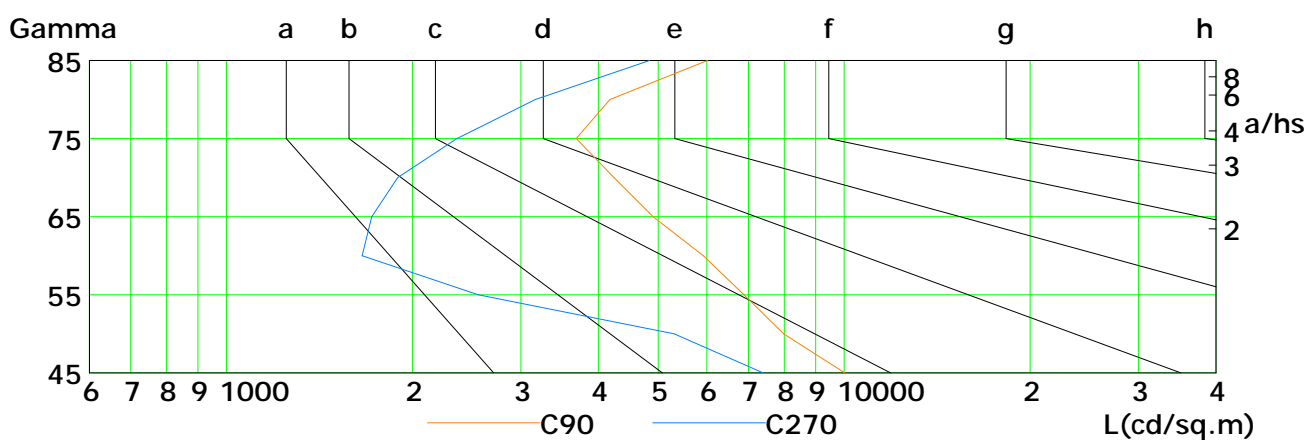
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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

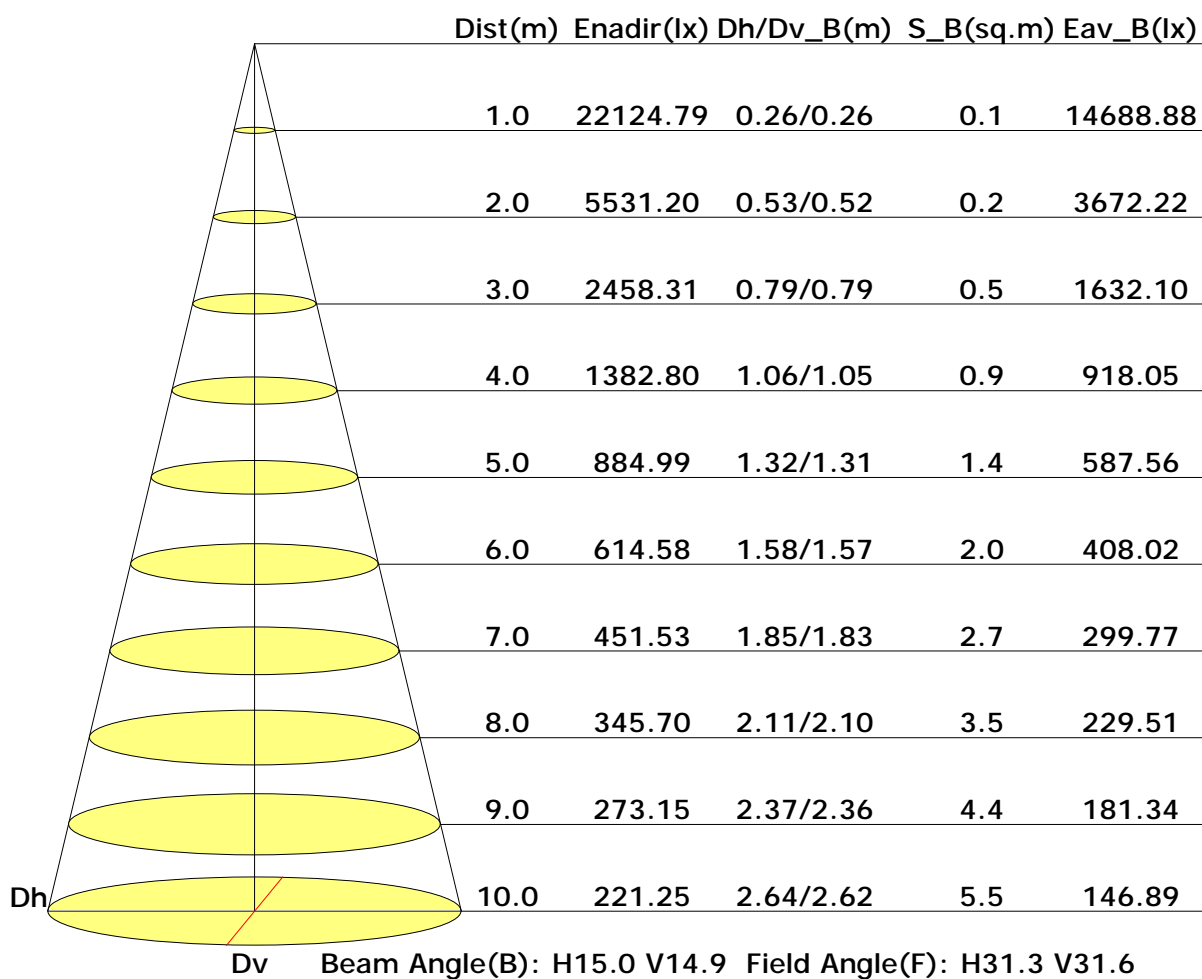


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	11223	9125	7649	6471	5448	4548	3675	2949	2518
C90	10024	7984	6887	5918	4906	4244	3684	4175	6009
C180	9610	7930	6684	5594	4669	3833	3033	2400	2350
C270	7395	5308	2558	1659	1720	1895	2361	3163	4846

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

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

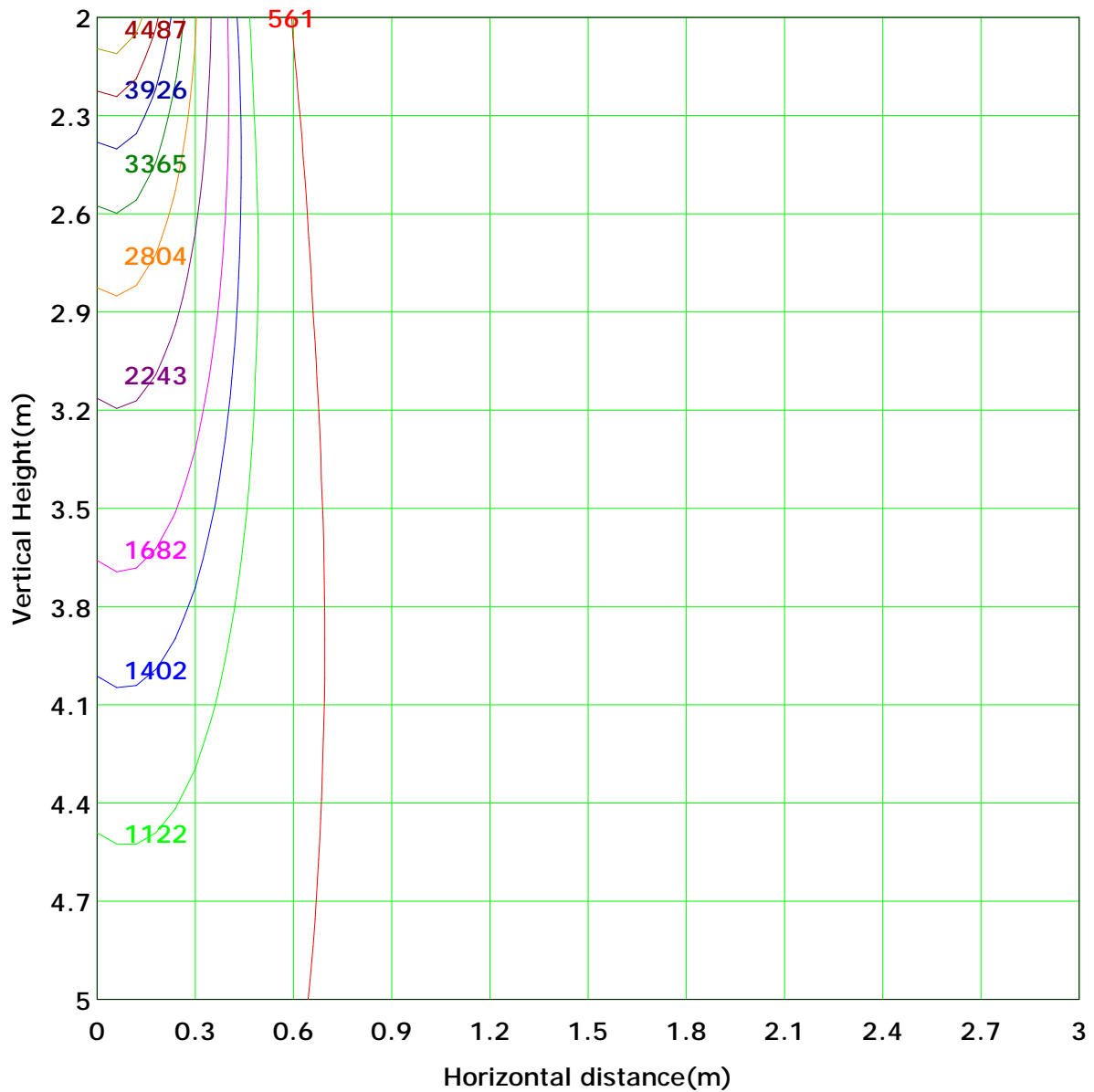
Illuminance at a Distance



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

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

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 5608.1 lx

(10%): 560.8 lx	(20%): 1121.6 lx
(25%): 1402.0 lx	(30%): 1682.4 lx
(40%): 2243.3 lx	(50%): 2804.1 lx
(60%): 3364.9 lx	(70%): 3925.7 lx
(80%): 4486.5 lx	(90%): 5047.3 lx

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

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

Area Flux Table

Unit: lm

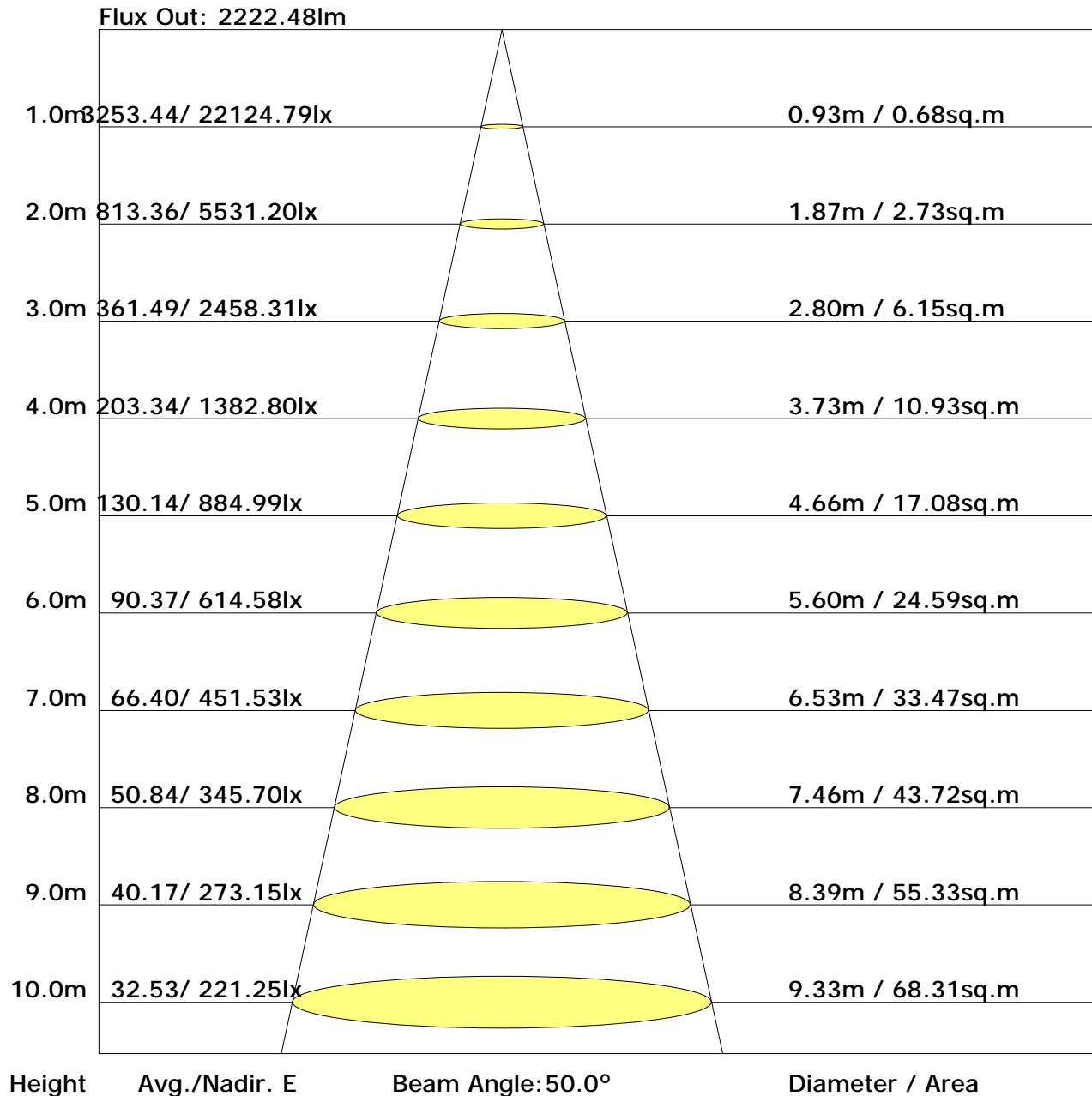
		Orbit: 111																					
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$\phi_{\text{Flux(T)}}^{\text{Flux(E)}}$	$\phi_{\text{Flux(T)}}^{\text{Flux(E)}}$		
Vertical plane	-90	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	5.4	0.0	
	-80	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	5.4	0.0	
	-70	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.0	5.4	0.0	
	-60	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	6.2	0.0	
	-50	0.0	0.1	0.3	0.5	0.7	0.8	0.9	1.1	1.1	1.2	1.2	1.2	1.0	0.8	0.7	0.5	0.3	0.2	0.1	0.0	11.5	0.0
	-40	0.0	0.2	0.4	0.7	1.2	1.7	2.3	2.8	3.2	3.2	3.2	2.8	2.3	1.7	1.2	0.8	0.4	0.2	0.2	0.0	25.1	0.0
	-30	0.0	0.2	0.5	1.0	1.8	3.0	4.1	5.5	6.8	6.8	6.8	5.6	4.2	3.1	1.8	1.1	0.5	0.2	0.0	46.3	0.0	
	-20	0.0	0.2	0.6	1.3	2.6	4.7	7.8	13.9	20.8	20.9	20.9	14.2	7.9	4.8	2.7	1.4	0.7	0.2	0.0	104.7	0.0	
	-10	0.0	0.2	0.7	1.6	3.2	6.2	12.7	31.5	72.2	72.1	31.9	13.2	6.7	3.5	1.7	0.8	0.3	0.3	0.1	258.6	89.0	
	0	0.0	0.3	0.8	1.8	3.6	7.1	16.7	61.3	309.3	320.5	76.6	20.6	8.3	4.1	2.0	0.9	0.9	0.3	0.1	834.1	714.2	
10	0.0	0.3	0.8	1.8	3.6	7.3	17.8	74.0	362.2	378.1	89.3	21.7	8.5	4.1	2.0	0.9	0.9	0.3	0.1	972.8	858.9		
20	0.0	0.2	0.8	1.7	3.4	6.6	14.2	36.4	82.8	82.6	36.8	14.7	7.1	3.7	1.9	0.9	0.9	0.3	0.1	294.2	126.3		
30	0.0	0.2	0.7	1.6	3.0	5.3	8.8	14.9	21.5	21.6	15.2	9.0	5.4	3.1	1.7	0.8	0.8	0.3	0.1	113.1	0.0		
40	0.0	0.2	0.6	1.3	2.4	3.7	5.4	7.3	8.7	8.7	7.4	5.4	3.7	2.4	1.4	0.7	0.7	0.2	0.0	59.7	0.0		
50	0.0	0.2	0.5	1.1	1.8	2.5	3.2	4.0	4.4	4.4	4.0	3.2	2.5	1.8	1.1	0.5	0.5	0.2	0.0	35.6	0.0		
60	0.0	0.2	0.4	0.8	1.2	1.7	2.0	2.3	2.5	2.5	2.3	2.0	1.7	1.2	0.8	0.4	0.4	0.2	0.0	22.3	0.0		
70	0.0	0.1	0.3	0.5	0.8	1.0	1.2	1.4	1.4	1.4	1.4	1.2	1.0	0.8	0.5	0.3	0.3	0.1	0.0	13.5	0.0		
80	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.2	0.1	0.0	7.9	0.0		
90	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.0	6.1	0.0		
Flux(T)	0.8	3.2	8.3	17.2	31.2	53.9	99.7	259.0	899.6	927.0	291.3	108.9	57.4	33.1	18.4	9.2	3.7	0.8	2823				
Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.2	774.1	1800.8	125.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1788			
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$\phi_{\text{Flux(T)}}^{\text{Flux(E)}}$	$\phi_{\text{Flux(T)}}^{\text{Flux(E)}}$		
		Horizontal plane																					

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

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: Jacky

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	9.8	10.8	10.2	11.2	11.6	7.8	8.8	8.3	9.2	9.6
3H	11.2	12.0	11.6	12.4	12.9	8.8	9.7	9.3	10.1	10.5
4H	11.7	12.5	12.2	12.9	13.4	9.1	9.9	9.6	10.4	10.9
6H	12.2	12.9	12.7	13.3	13.8	9.4	10.2	9.9	10.6	11.1
8H	12.4	13.0	12.9	13.5	14.0	9.6	10.3	10.1	10.8	11.3
12H	12.5	13.2	13.1	13.7	14.2	9.8	10.5	10.3	11.0	11.5
X=4H Y=2H	9.8	10.6	10.3	11.1	11.5	8.4	9.2	8.9	9.6	10.1
3H	11.3	12.0	11.8	12.5	13.0	9.5	10.1	10.0	10.6	11.1
4H	12.0	12.6	12.5	13.1	13.6	9.9	10.5	10.4	11.0	11.5
6H	12.6	13.1	13.1	13.6	14.2	10.3	10.8	10.9	11.4	11.9
8H	12.8	13.3	13.4	13.8	14.4	10.6	11.1	11.1	11.6	12.1
12H	13.1	13.5	13.7	14.1	14.7	10.9	11.3	11.4	11.8	12.4
X=8H Y=4H	12.0	12.4	12.5	13.0	13.5	10.2	10.6	10.7	11.2	11.7
6H	12.6	13.0	13.2	13.6	14.2	10.7	11.1	11.3	11.7	12.3
8H	13.0	13.3	13.6	13.9	14.5	11.1	11.4	11.7	12.0	12.6
12H	13.4	13.7	14.0	14.3	15.0	11.5	11.8	12.1	12.4	13.0
X=12H Y=4H	11.9	12.3	12.5	12.9	13.5	10.2	10.6	10.8	11.2	11.7
6H	12.6	13.0	13.2	13.5	14.2	10.8	11.1	11.4	11.7	12.3
8H	13.0	13.3	13.6	13.9	14.6	11.2	11.5	11.8	12.1	12.8

Calculate in accordance with CIE 190:2010

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

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 = 0.50								
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	0.94	0.99	1.03	1.06	1.09	1.12	1.13	1.16	1.17
	0.30		0.90	0.95	0.99	1.02	1.06	1.09	1.11	1.13	1.15
	0.20		0.87	0.92	0.96	0.99	1.03	1.06	1.08	1.11	1.13
0.50	0.50	0.20	0.93	0.97	1.00	1.03	1.06	1.08	1.09	1.11	1.12
	0.30		0.89	0.94	0.97	0.99	1.03	1.05	1.07	1.09	1.10
	0.20		0.86	0.91	0.94	0.97	1.01	1.03	1.05	1.07	1.09
0.30	0.50	0.20	0.91	0.95	0.98	1.00	1.02	1.04	1.05	1.06	1.07
	0.30		0.88	0.92	0.95	0.97	1.00	1.02	1.03	1.05	1.06
	0.20		0.86	0.90	0.93	0.95	0.98	1.00	1.02	1.04	1.05
0.00	0.00	0.00	0.84	0.87	0.90	0.92	0.94	0.96	0.97	0.98	0.99
Rating: 32W 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 = 0.50								
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	0.45	0.38	0.33	0.26	0.22	0.19	0.15	0.12
	0.30		0.45	0.38	0.33	0.29	0.24	0.20	0.18	0.14	0.12
	0.20		0.39	0.33	0.29	0.26	0.22	0.19	0.16	0.13	0.11
0.50	0.50	0.20	0.50	0.41	0.35	0.30	0.24	0.24	0.17	0.13	0.11
	0.30		0.43	0.36	0.31	0.27	0.22	0.18	0.16	0.13	0.10
	0.20		0.37	0.32	0.28	0.25	0.20	0.17	0.15	0.12	0.10
0.30	0.50	0.20	0.47	0.38	0.32	0.28	0.22	0.18	0.15	0.12	0.10
	0.30		0.40	0.33	0.29	0.25	0.20	0.17	0.14	0.11	0.09
	0.20		0.35	0.30	0.26	0.23	0.19	0.16	0.14	0.11	0.09
0.00	0.00	0.00	0.20	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04
Rating: 32W 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 = 0.50								
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	0.17	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.26
	0.30		0.13	0.15	0.17	0.18	0.20	0.22	0.23	0.24	0.25
	0.20		0.11	0.13	0.15	0.16	0.18	0.20	0.21	0.22	0.23
0.50	0.50	0.20	0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.25
	0.30		0.13	0.15	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.22	0.23
0.30	0.50	0.20	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.23
	0.20		0.11	0.13	0.14	0.15	0.17	0.19	0.20	0.21	0.22
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: 32W 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	22138.5	21.2	21.2	0.72	0.72
1.0-2.0	21556.2	61.9	83.1	2.10	2.81
2.0-3.0	20454.7	97.8	180.9	3.31	6.13
3.0-4.0	18950.5	126.9	307.8	4.30	10.43
4.0-5.0	17159.0	147.6	455.4	5.00	15.43
5.0-6.0	15207.0	159.8	615.2	5.41	20.84
6.0-7.0	13206.3	163.9	779.2	5.55	26.40
7.0-8.0	11242.7	160.9	940.1	5.45	31.85
8.0-9.0	9402.5	152.4	1092.5	5.16	37.01
9.0-10.0	7749.7	140.3	1232.8	4.75	41.76
10.0-11.0	6324.4	126.4	1359.2	4.28	46.05
11.0-12.0	5129.2	112.1	1471.3	3.80	49.85
12.0-13.0	4168.9	98.9	1570.3	3.35	53.20
13.0-14.0	3418.7	87.5	1657.8	2.96	56.16
14.0-15.0	2830.6	77.7	1735.5	2.63	58.80
15.0-16.0	2375.2	69.6	1805.1	2.36	61.15
16.0-17.0	2023.0	63.0	1868.1	2.13	63.29
17.0-18.0	1741.9	57.4	1925.5	1.95	65.23
18.0-19.0	1516.3	52.8	1978.3	1.79	67.02
19.0-20.0	1331.8	48.7	2027.1	1.65	68.67
20.0-21.0	1174.5	45.1	2072.2	1.53	70.20
21.0-22.0	1040.4	41.8	2114.0	1.42	71.62
22.0-23.0	925.0	38.8	2152.8	1.32	72.93
23.0-24.0	825.3	36.1	2188.9	1.22	74.16
24.0-25.0	738.8	33.6	2222.5	1.14	75.29
25.0-26.0	663.9	31.3	2253.8	1.06	76.36
26.0-27.0	599.3	29.3	2283.1	0.99	77.35
27.0-28.0	542.4	27.5	2310.6	0.93	78.28
28.0-29.0	492.8	25.8	2336.4	0.87	79.15
29.0-30.0	449.4	24.3	2360.7	0.82	79.98
30.0-31.0	410.8	22.9	2383.5	0.77	80.75
31.0-32.0	376.6	21.6	2405.1	0.73	81.48
32.0-33.0	346.7	20.4	2425.5	0.69	82.17
33.0-34.0	320.0	19.4	2444.9	0.66	82.83
34.0-35.0	295.8	18.4	2463.3	0.62	83.45
35.0-36.0	274.3	17.5	2480.7	0.59	84.04

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

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	254.9	16.6	2497.4	0.56	84.61
37.0-38.0	237.9	15.9	2513.3	0.54	85.14
38.0-39.0	223.0	15.2	2528.5	0.52	85.66
39.0-40.0	209.6	14.6	2543.1	0.50	86.16
40.0-41.0	197.1	14.0	2557.1	0.48	86.63
41.0-42.0	185.8	13.5	2570.6	0.46	87.09
42.0-43.0	175.4	13.0	2583.6	0.44	87.53
43.0-44.0	165.6	12.5	2596.1	0.42	87.95
44.0-45.0	156.2	12.0	2608.1	0.41	88.36
45.0-46.0	147.4	11.5	2619.7	0.39	88.75
46.0-47.0	139.0	11.1	2630.7	0.37	89.12
47.0-48.0	131.1	10.6	2641.3	0.36	89.48
48.0-49.0	123.7	10.2	2651.5	0.34	89.83
49.0-50.0	116.6	9.7	2661.2	0.33	90.16
50.0-51.0	109.5	9.3	2670.5	0.31	90.47
51.0-52.0	102.8	8.8	2679.3	0.30	90.77
52.0-53.0	96.4	8.4	2687.7	0.28	91.05
53.0-54.0	90.6	8.0	2695.7	0.27	91.32
54.0-55.0	85.3	7.6	2703.3	0.26	91.58
55.0-56.0	80.3	7.3	2710.5	0.25	91.83
56.0-57.0	75.5	6.9	2717.4	0.23	92.06
57.0-58.0	70.9	6.6	2724.0	0.22	92.28
58.0-59.0	66.6	6.2	2730.2	0.21	92.50
59.0-60.0	62.8	5.9	2736.1	0.20	92.70
60.0-61.0	59.3	5.7	2741.8	0.19	92.89
61.0-62.0	56.1	5.4	2747.2	0.18	93.07
62.0-63.0	53.0	5.2	2752.4	0.17	93.25
63.0-64.0	50.1	4.9	2757.3	0.17	93.41
64.0-65.0	47.1	4.7	2762.0	0.16	93.57
65.0-66.0	44.1	4.4	2766.4	0.15	93.72
66.0-67.0	41.3	4.2	2770.5	0.14	93.86
67.0-68.0	38.6	3.9	2774.4	0.13	93.99
68.0-69.0	36.2	3.7	2778.1	0.13	94.12
69.0-70.0	34.0	3.5	2781.6	0.12	94.24
70.0-71.0	31.8	3.3	2784.9	0.11	94.35
71.0-72.0	30.0	3.1	2788.0	0.11	94.45

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

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	28.3	3.0	2791.0	0.10	94.55
73.0-74.0	26.7	2.8	2793.8	0.10	94.65
74.0-75.0	25.2	2.7	2796.5	0.09	94.74
75.0-76.0	23.8	2.5	2799.0	0.09	94.83
76.0-77.0	22.5	2.4	2801.4	0.08	94.91
77.0-78.0	21.2	2.3	2803.7	0.08	94.98
78.0-79.0	20.1	2.2	2805.8	0.07	95.06
79.0-80.0	19.3	2.1	2807.9	0.07	95.13
80.0-81.0	18.7	2.0	2809.9	0.07	95.20
81.0-82.0	18.1	2.0	2811.9	0.07	95.26
82.0-83.0	17.7	1.9	2813.8	0.07	95.33
83.0-84.0	17.2	1.9	2815.7	0.06	95.39
84.0-85.0	16.8	1.8	2817.5	0.06	95.45
85.0-86.0	16.5	1.8	2819.3	0.06	95.51
86.0-87.0	16.3	1.8	2821.1	0.06	95.57
87.0-88.0	16.1	1.8	2822.9	0.06	95.63
88.0-89.0	16.0	1.8	2824.6	0.06	95.69
89.0-90.0	15.8	1.7	2826.4	0.06	95.75
90.0-91.0	15.8	1.7	2828.1	0.06	95.81
91.0-92.0	15.9	1.7	2829.9	0.06	95.87
92.0-93.0	16.0	1.7	2831.6	0.06	95.93
93.0-94.0	15.9	1.7	2833.4	0.06	95.99
94.0-95.0	15.9	1.7	2835.1	0.06	96.05
95.0-96.0	15.9	1.7	2836.8	0.06	96.11
96.0-97.0	15.9	1.7	2838.6	0.06	96.17
97.0-98.0	15.9	1.7	2840.3	0.06	96.22
98.0-99.0	15.8	1.7	2842.0	0.06	96.28
99.0-100.0	15.8	1.7	2843.7	0.06	96.34
100.0-101.0	15.7	1.7	2845.4	0.06	96.40
101.0-102.0	15.7	1.7	2847.1	0.06	96.45
102.0-103.0	15.7	1.7	2848.8	0.06	96.51
103.0-104.0	15.7	1.7	2850.5	0.06	96.57
104.0-105.0	15.6	1.7	2852.1	0.06	96.62
105.0-106.0	15.6	1.6	2853.8	0.06	96.68
106.0-107.0	15.7	1.7	2855.4	0.06	96.74
107.0-108.0	15.8	1.7	2857.1	0.06	96.79

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

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	15.8	1.6	2858.7	0.06	96.85
109.0-110.0	15.8	1.6	2860.3	0.06	96.90
110.0-111.0	15.8	1.6	2862.0	0.06	96.96
111.0-112.0	15.8	1.6	2863.6	0.05	97.01
112.0-113.0	15.9	1.6	2865.2	0.05	97.07
113.0-114.0	15.9	1.6	2866.8	0.05	97.12
114.0-115.0	16.1	1.6	2868.4	0.05	97.18
115.0-116.0	16.1	1.6	2870.0	0.05	97.23
116.0-117.0	16.1	1.6	2871.6	0.05	97.28
117.0-118.0	16.2	1.6	2873.2	0.05	97.34
118.0-119.0	16.3	1.6	2874.7	0.05	97.39
119.0-120.0	16.3	1.6	2876.3	0.05	97.44
120.0-121.0	16.4	1.5	2877.8	0.05	97.50
121.0-122.0	16.5	1.5	2879.4	0.05	97.55
122.0-123.0	16.6	1.5	2880.9	0.05	97.60
123.0-124.0	16.7	1.5	2882.4	0.05	97.65
124.0-125.0	16.8	1.5	2883.9	0.05	97.70
125.0-126.0	16.9	1.5	2885.5	0.05	97.75
126.0-127.0	17.1	1.5	2887.0	0.05	97.81
127.0-128.0	17.2	1.5	2888.5	0.05	97.86
128.0-129.0	17.4	1.5	2890.0	0.05	97.91
129.0-130.0	17.6	1.5	2891.4	0.05	97.96
130.0-131.0	17.9	1.5	2892.9	0.05	98.01
131.0-132.0	18.2	1.5	2894.4	0.05	98.06
132.0-133.0	18.4	1.5	2895.9	0.05	98.11
133.0-134.0	18.8	1.5	2897.4	0.05	98.16
134.0-135.0	19.3	1.5	2898.9	0.05	98.21
135.0-136.0	19.7	1.5	2900.4	0.05	98.26
136.0-137.0	20.2	1.5	2902.0	0.05	98.31
137.0-138.0	20.8	1.5	2903.5	0.05	98.37
138.0-139.0	21.4	1.6	2905.1	0.05	98.42
139.0-140.0	22.1	1.6	2906.6	0.05	98.47
140.0-141.0	22.7	1.6	2908.2	0.05	98.53
141.0-142.0	23.4	1.6	2909.8	0.05	98.58
142.0-143.0	24.2	1.6	2911.4	0.05	98.63
143.0-144.0	24.9	1.6	2913.1	0.06	98.69

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

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	25.7	1.6	2914.7	0.06	98.75
145.0-146.0	26.5	1.6	2916.3	0.06	98.80
146.0-147.0	27.2	1.6	2918.0	0.06	98.86
147.0-148.0	28.0	1.6	2919.6	0.06	98.91
148.0-149.0	28.8	1.6	2921.3	0.06	98.97
149.0-150.0	29.5	1.6	2922.9	0.06	99.02
150.0-151.0	30.2	1.6	2924.6	0.06	99.08
151.0-152.0	30.9	1.6	2926.2	0.05	99.13
152.0-153.0	31.6	1.6	2927.8	0.05	99.19
153.0-154.0	32.2	1.6	2929.4	0.05	99.24
154.0-155.0	32.9	1.6	2930.9	0.05	99.29
155.0-156.0	33.5	1.5	2932.4	0.05	99.35
156.0-157.0	34.1	1.5	2933.9	0.05	99.40
157.0-158.0	34.5	1.4	2935.4	0.05	99.45
158.0-159.0	34.9	1.4	2936.8	0.05	99.49
159.0-160.0	35.3	1.4	2938.1	0.05	99.54
160.0-161.0	35.7	1.3	2939.4	0.04	99.58
161.0-162.0	36.0	1.3	2940.7	0.04	99.63
162.0-163.0	36.2	1.2	2941.9	0.04	99.67
163.0-164.0	36.4	1.1	2943.0	0.04	99.70
164.0-165.0	36.6	1.1	2944.1	0.04	99.74
165.0-166.0	36.6	1.0	2945.1	0.03	99.77
166.0-167.0	36.5	0.9	2946.0	0.03	99.81
167.0-168.0	36.4	0.9	2946.9	0.03	99.84
168.0-169.0	36.4	0.8	2947.7	0.03	99.86
169.0-170.0	36.2	0.7	2948.4	0.02	99.89
170.0-171.0	35.9	0.7	2949.1	0.02	99.91
171.0-172.0	35.6	0.6	2949.6	0.02	99.93
172.0-173.0	35.2	0.5	2950.1	0.02	99.95
173.0-174.0	34.8	0.4	2950.6	0.01	99.96
174.0-175.0	34.4	0.4	2950.9	0.01	99.97
175.0-176.0	34.0	0.3	2951.2	0.01	99.98
176.0-177.0	33.7	0.2	2951.5	0.01	99.99
177.0-178.0	33.4	0.2	2951.6	0.01	100.00
178.0-179.0	33.2	0.1	2951.7	0.00	100.00
179.0-180.0	33.2	0.0	2951.7	0.00	100.00

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

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