

Report No.:

Test Time: 2023/2/20 15:41

Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: WALL WASHER

Luminaire Description: FORTEACNS12RGBW4020-RED ON

Luminous Length (mm): 330

Luminous Width (mm): 96

Luminous Height (mm): 162.5

Voltage: 219.5 V

Current: 0.080 A

Power: 6.91 W

Power Factor: 0.394

Photometric Results

CIE Class: Direct

Measurement Flux: 288.7 lm

Downward Ratio: 96%

Horizontal Diffuse Angle(10%,50%): H50.2,H20.3

Vertical Diffuse Angle(10%,50%): V51.8,V21.3

Luminaire Efficacy Rating (LER): 42

Max. Intensity: 1065.17 cd

Total Rated Lamp Lumens: 288.7 lm

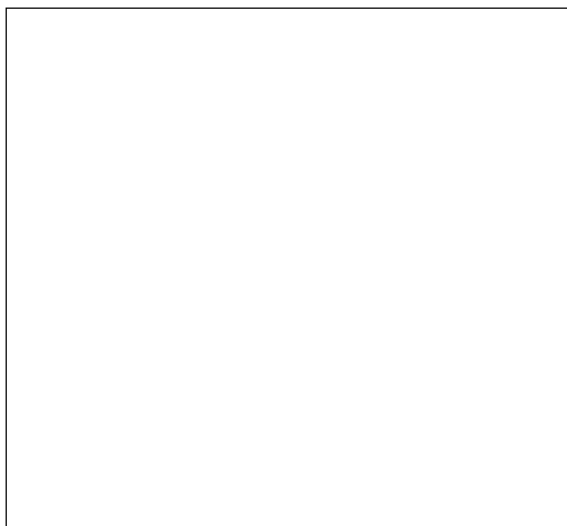
Efficiency: 100%

Upward Ratio: 4%

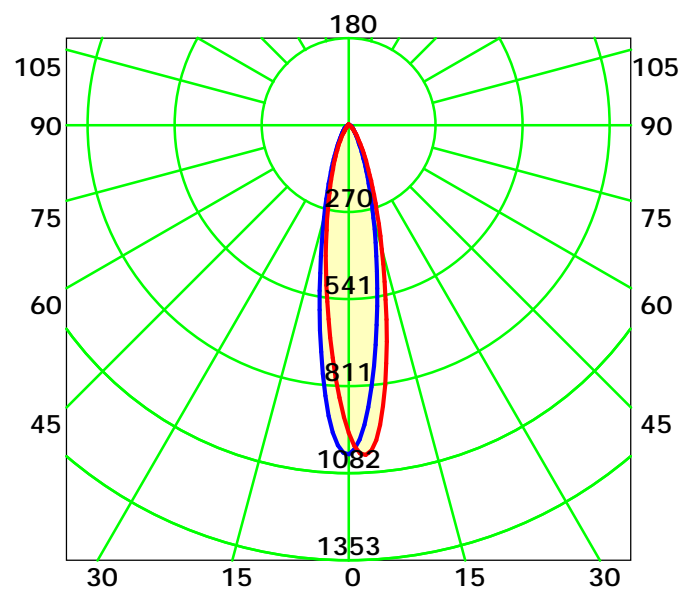
Central Intensity: 1023.06 cd

Pos of Max. Intensity: H150 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 20.8° 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

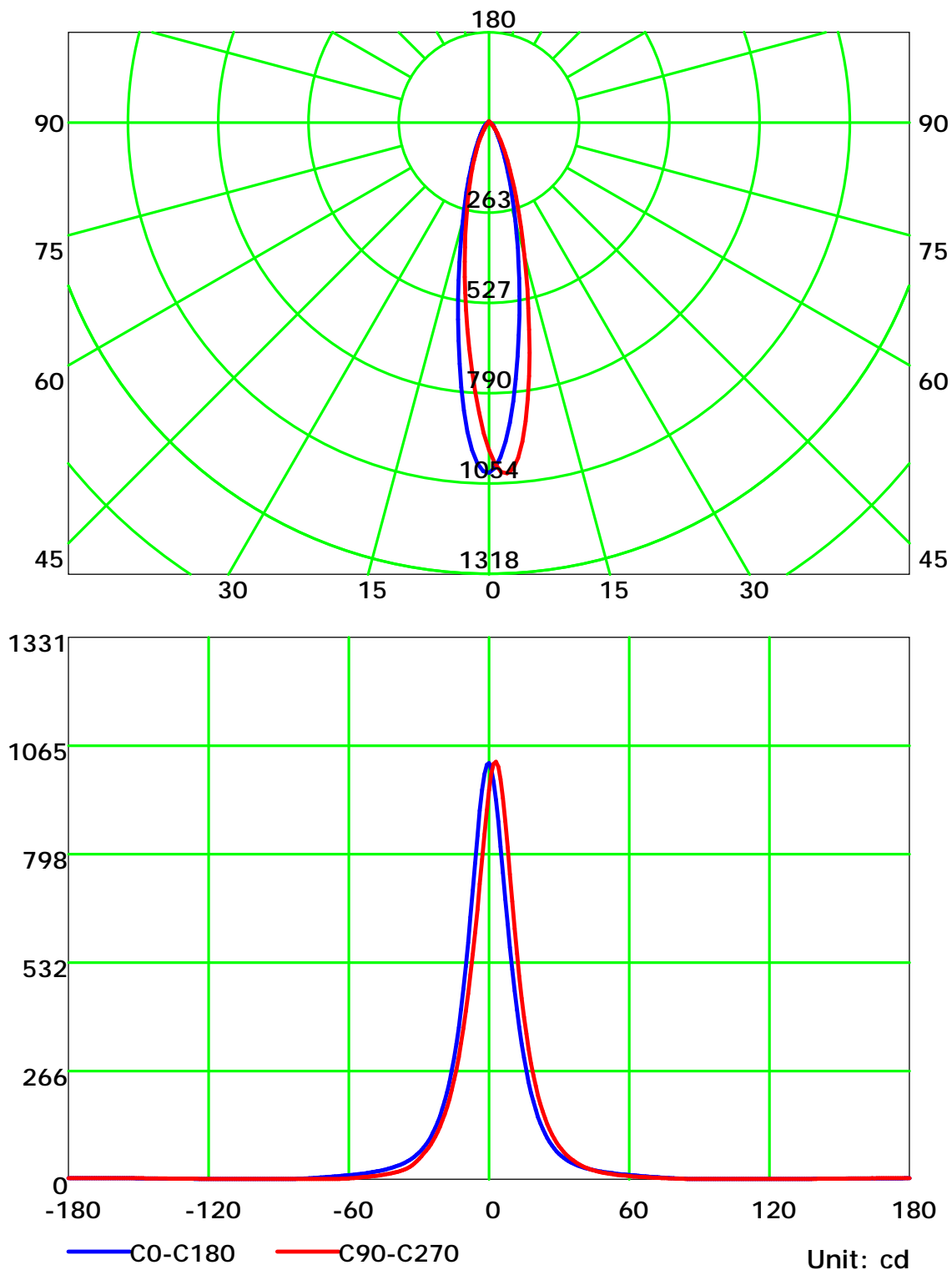
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

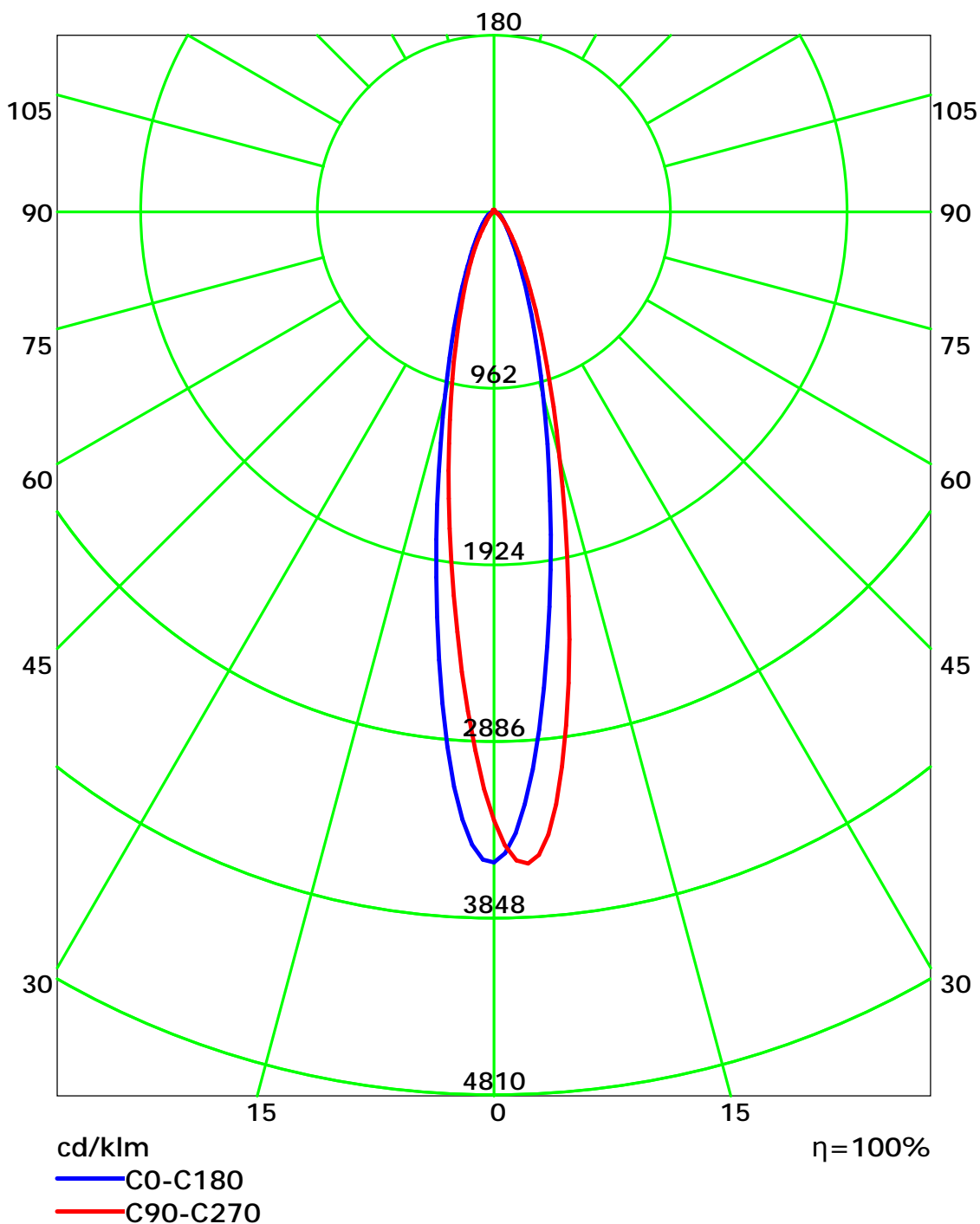
Luminous Intensity Distribution Curve



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:

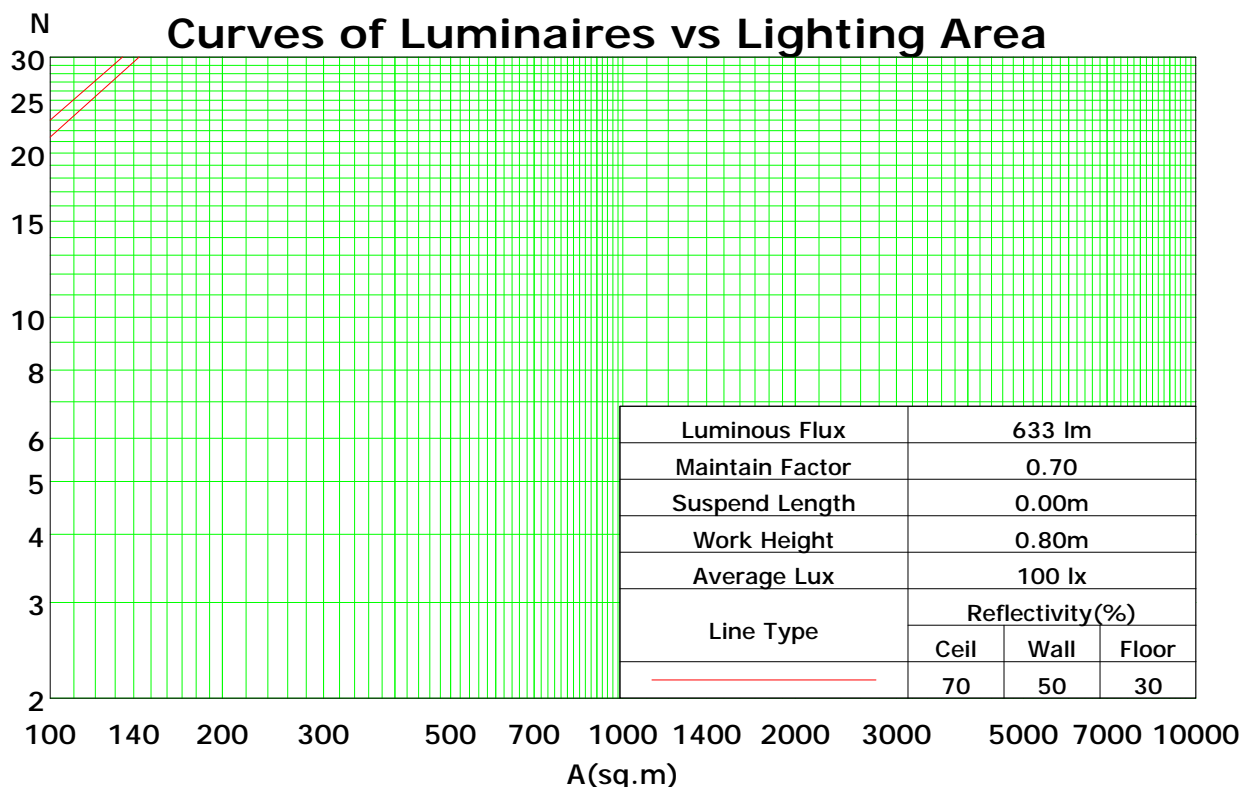
Coefficients Of Utilization - Zonal Cavity Method

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	112	109	107	104	109	107	104	102	102	100	98	97	96	95	93	92	91	89
2	107	102	98	94	104	100	96	93	96	93	90	92	90	88	89	87	85	83
3	102	95	90	87	99	94	89	86	90	87	84	87	84	82	85	82	80	78
4	97	90	84	80	95	88	83	80	86	82	78	83	80	77	81	78	76	74
5	93	85	79	75	91	84	79	75	81	77	74	79	76	73	77	74	72	70
6	89	81	75	71	87	80	74	71	78	73	70	76	72	69	74	71	68	67
7	85	77	71	67	84	76	71	67	74	70	66	73	69	66	71	68	65	64
8	82	73	68	64	81	73	67	64	71	67	63	70	66	63	69	65	62	61
9	79	70	65	61	78	70	65	61	68	64	61	67	63	60	66	63	60	59
10	76	68	62	59	75	67	62	59	66	61	58	65	61	58	64	60	58	56

Spacing Criteria (0-180): 0.34

Spacing Criteria (90-270): 0.38

Spacing Criteria (Diagonal): 0.40



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

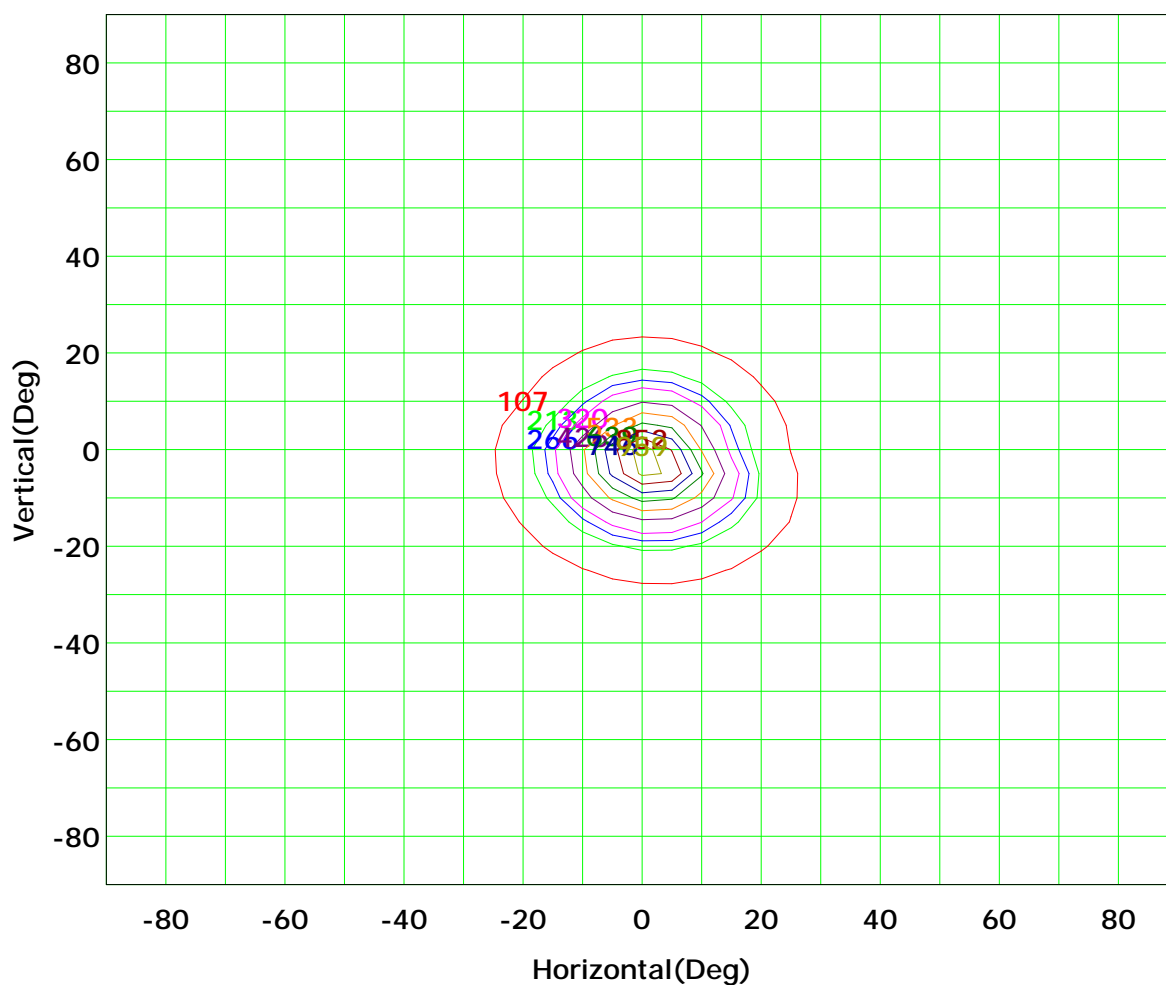
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

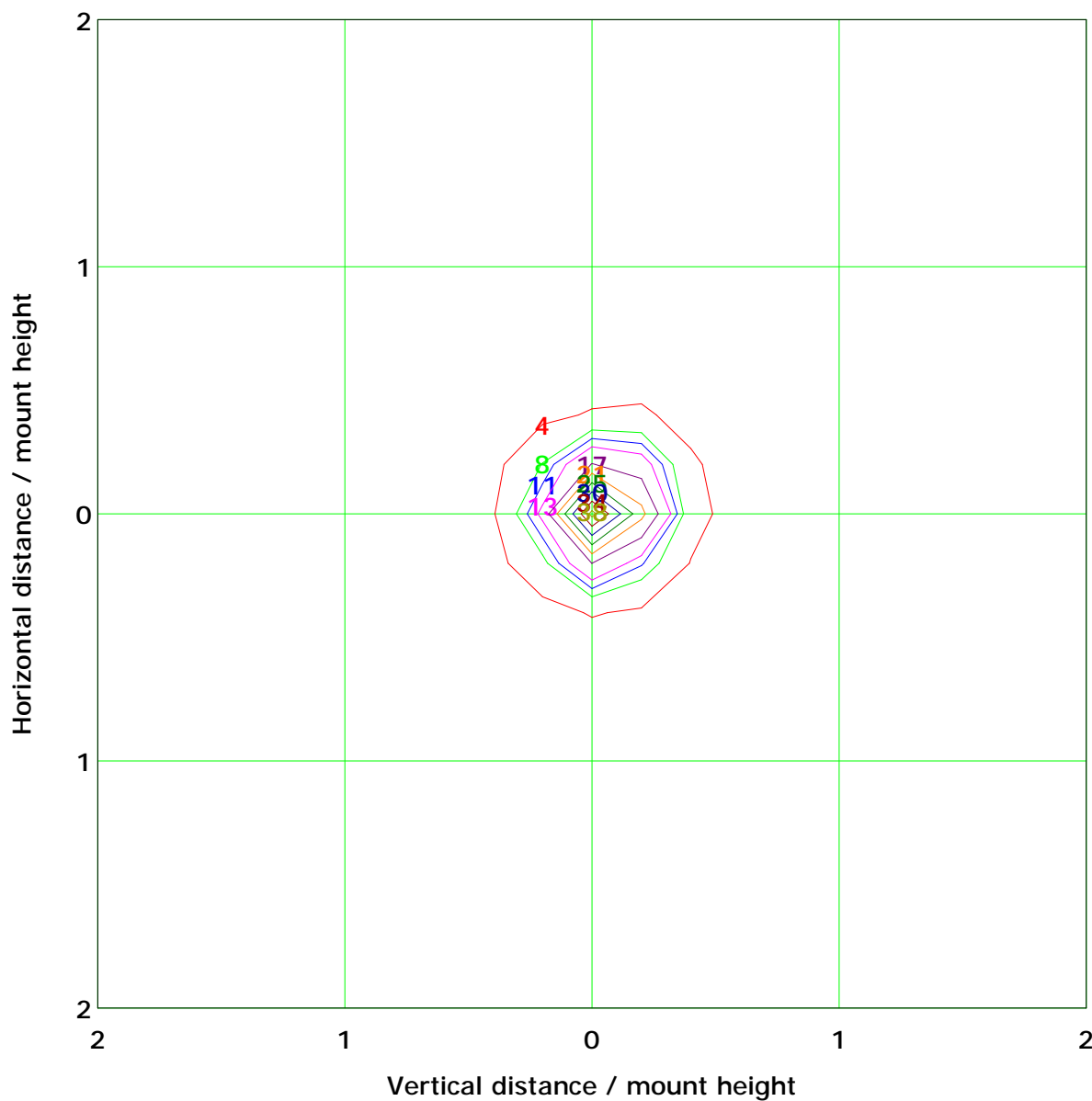
Isocandela (rectangle)



Imax (100%): 1065 cd

(10%): 107 cd	(20%): 213 cd
(25%): 266 cd	(30%): 320 cd
(40%): 426 cd	(50%): 533 cd
(60%): 639 cd	(70%): 746 cd
(80%): 852 cd	(90%): 959 cd

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 42.3 lx	
(10%): 4.2 lx	(20%): 8.5 lx
(25%): 10.6 lx	(30%): 12.7 lx
(40%): 16.9 lx	(50%): 21.2 lx
(60%): 25.4 lx	(70%): 29.6 lx
(80%): 33.8 lx	(90%): 38.1 lx

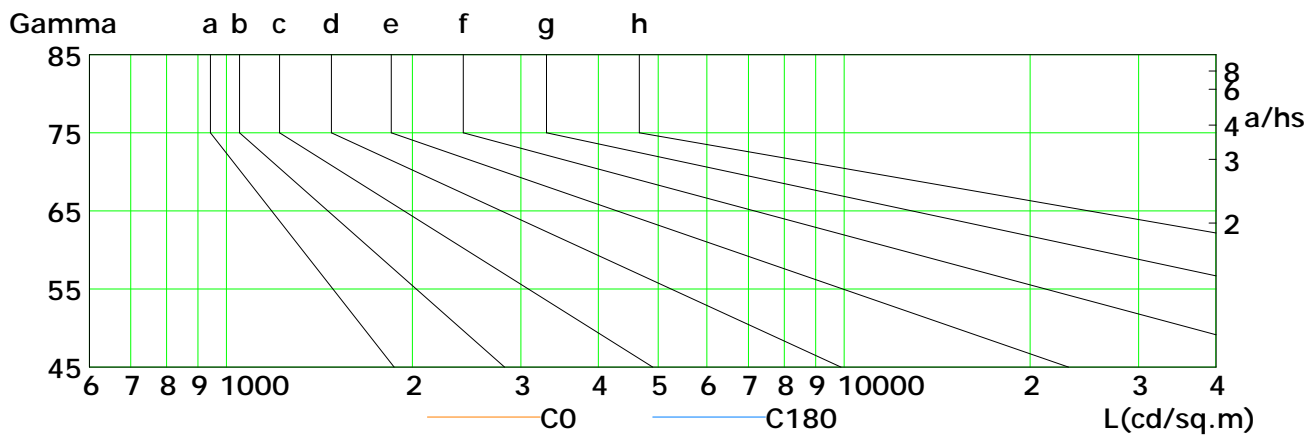
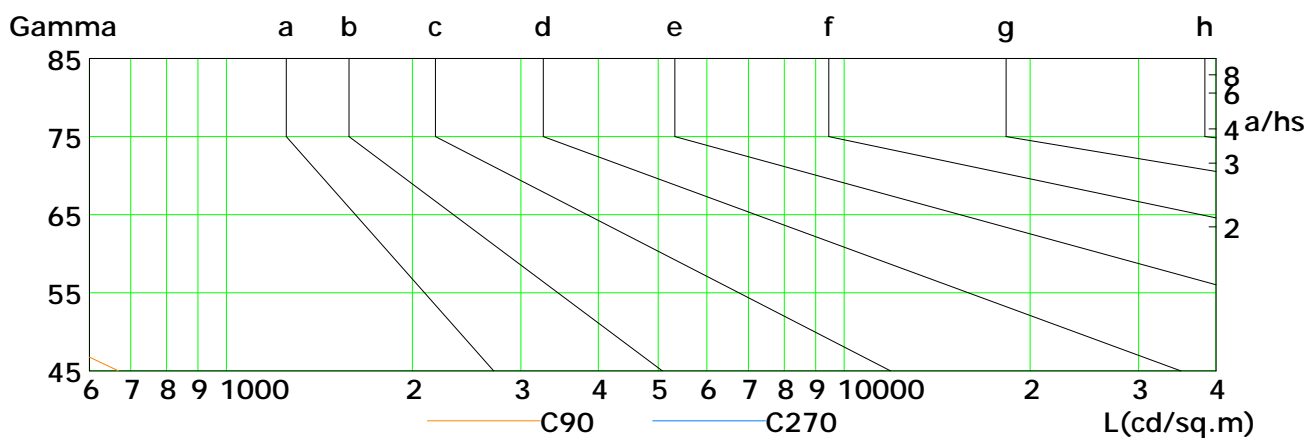
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

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

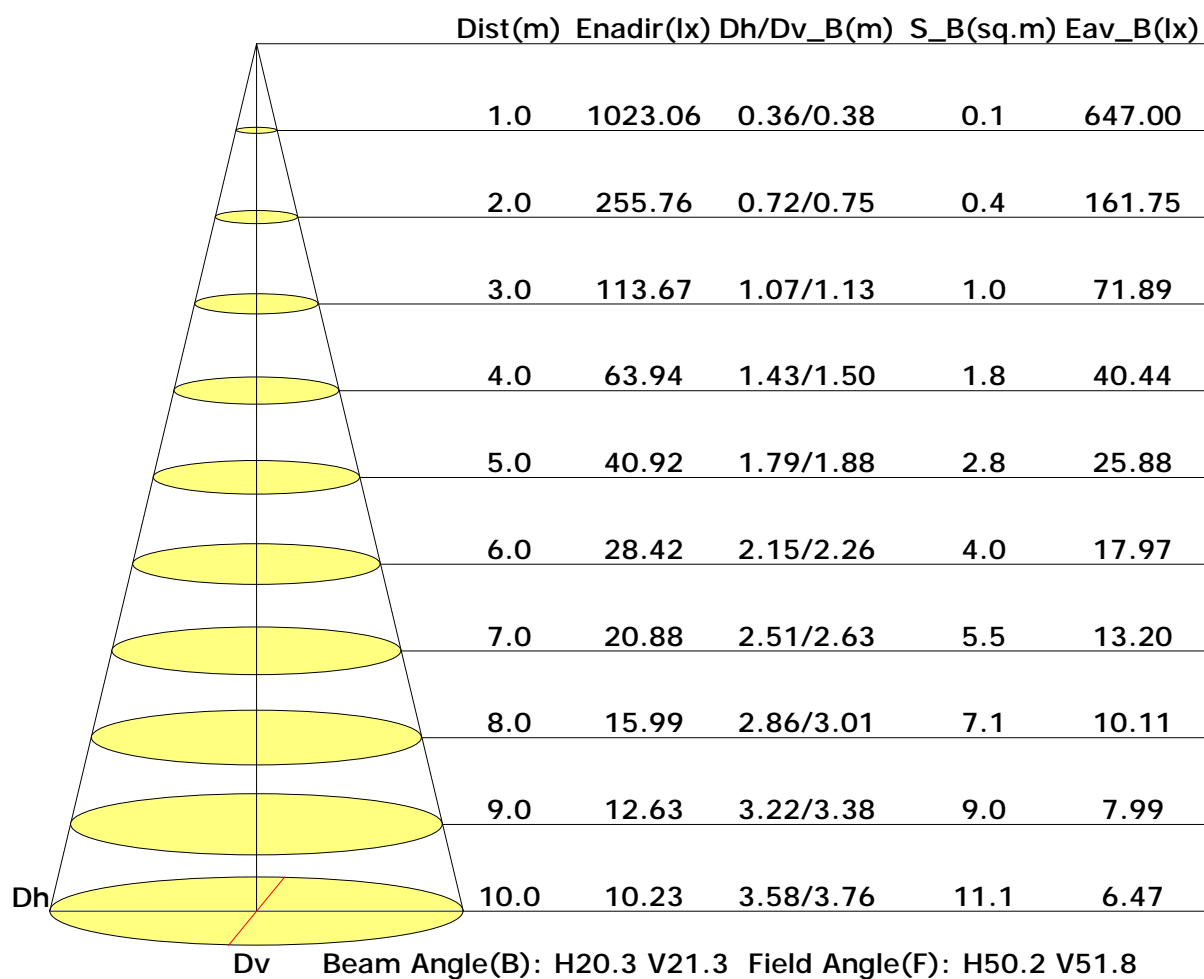


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	383	295	230	184	144	109	79	53	34
C90	669	493	379	302	241	194	159	121	101
C180	397	299	230	178	137	101	71	45	31
C270	365	264	171	97	69	67	67	80	93

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:

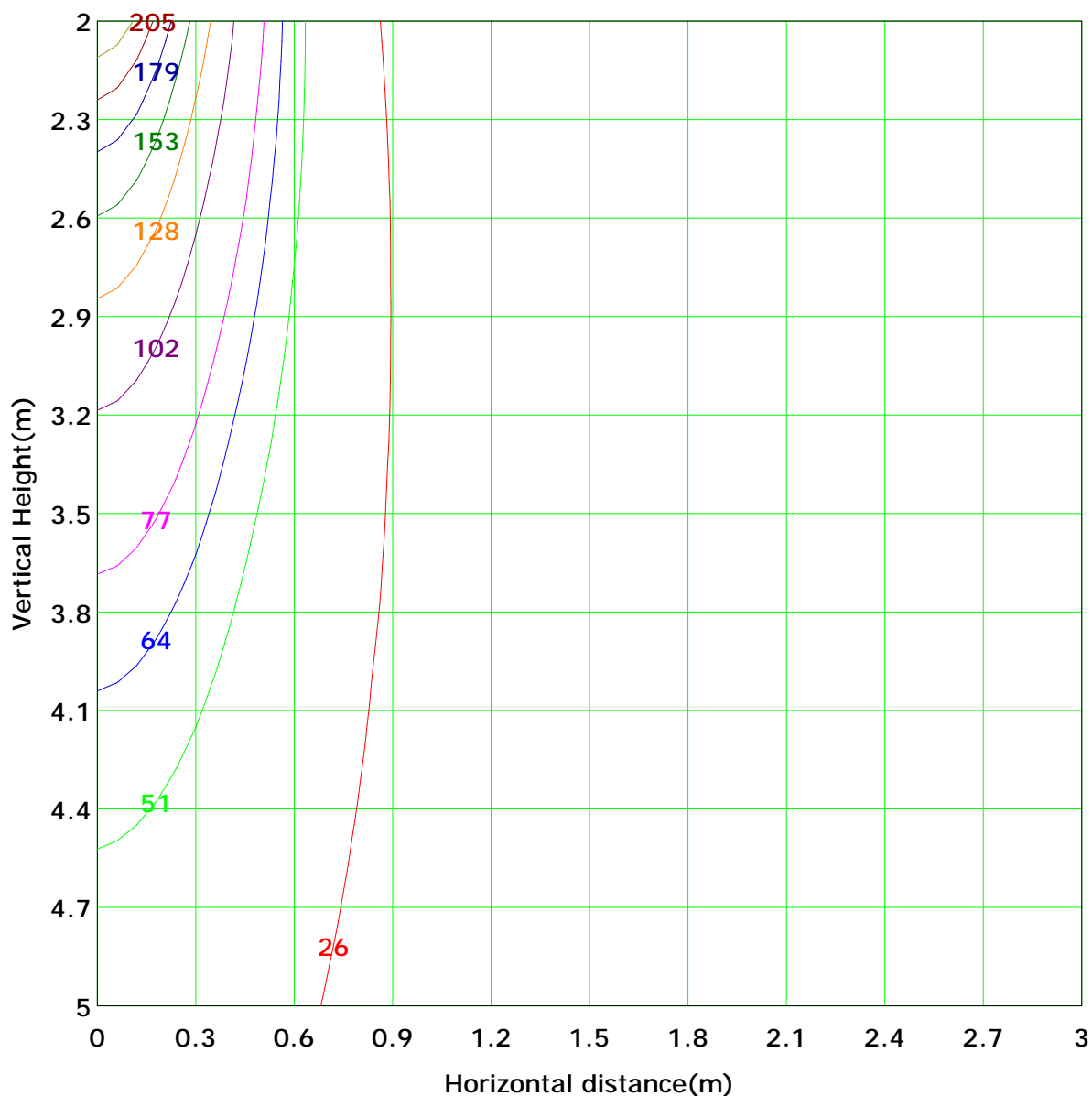
Illuminance at a Distance



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: 255.8 lx
(10%): 25.6 lx	(20%): 51.2 lx	
(25%): 63.9 lx	(30%): 76.7 lx	
(40%): 102.3 lx	(50%): 127.9 lx	
(60%): 153.5 lx	(70%): 179.0 lx	
(80%): 204.6 lx	(90%): 230.2 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

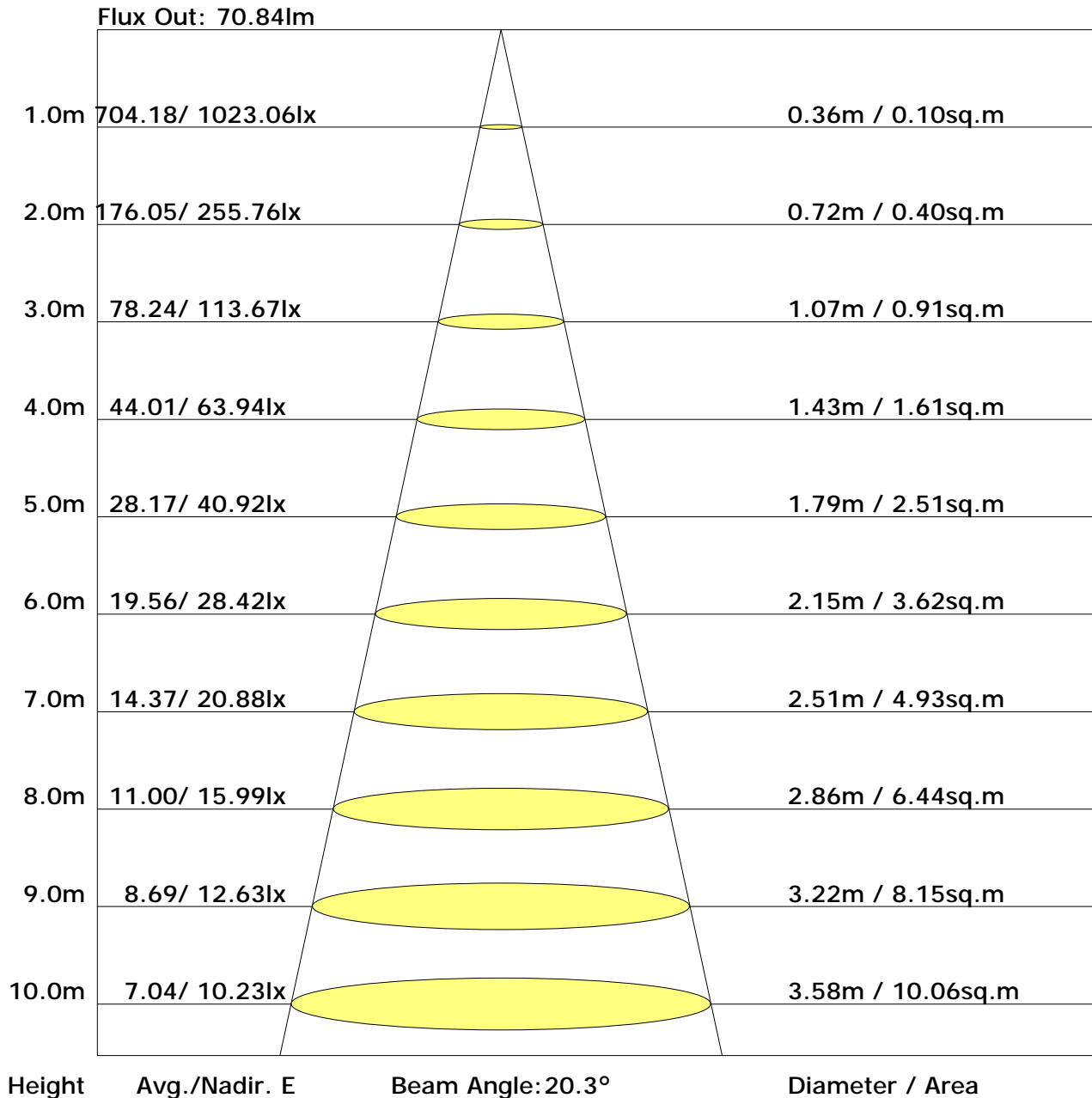
Unit: lm

		Vertical plane																		Flux(T)		Flux(E)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80					90																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Horizontal plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.

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



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	7.2	8.2	7.7	8.6	9.1	5.4	6.4	5.8	6.8	7.2
3H	8.5	9.4	9.0	9.9	10.4	6.3	7.2	6.7	7.6	8.1
4H	9.0	9.9	9.5	10.3	10.8	6.6	7.4	7.1	7.8	8.3
6H	9.3	10.1	9.8	10.6	11.1	6.7	7.5	7.2	8.0	8.5
8H	9.4	10.2	10.0	10.6	11.2	6.8	7.5	7.3	8.0	8.5
12H	9.5	10.2	10.0	10.7	11.2	6.8	7.5	7.4	8.0	8.5
X=4H Y=2H	7.2	8.0	7.7	8.5	9.0	5.8	6.7	6.3	7.1	7.6
3H	8.6	9.3	9.1	9.8	10.3	6.9	7.6	7.4	8.1	8.6
4H	9.2	9.8	9.7	10.3	10.8	7.3	7.9	7.8	8.4	8.9
6H	9.6	10.1	10.1	10.6	11.2	7.5	8.0	8.1	8.6	9.2
8H	9.7	10.2	10.3	10.8	11.3	7.6	8.1	8.1	8.6	9.2
12H	9.9	10.3	10.4	10.9	11.4	7.7	8.1	8.2	8.7	9.2
X=8H Y=4H	9.1	9.6	9.6	10.1	10.7	7.4	7.9	8.0	8.5	9.0
6H	9.6	10.0	10.2	10.5	11.1	7.8	8.2	8.4	8.8	9.3
8H	9.8	10.1	10.4	10.7	11.3	7.9	8.3	8.5	8.9	9.5
12H	10.0	10.3	10.6	10.9	11.5	8.1	8.4	8.7	8.9	9.6
X=12H Y=4H	9.1	9.5	9.6	10.0	10.6	7.4	7.9	8.0	8.4	9.0
6H	9.5	9.9	10.1	10.4	11.1	7.8	8.2	8.4	8.7	9.3
8H	9.8	10.1	10.4	10.6	11.3	8.0	8.3	8.6	8.9	9.5

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	0.82	0.89	0.93	0.97	1.01	1.04	1.06	1.09	1.10
	0.30		0.77	0.84	0.89	0.92	0.97	1.00	1.03	1.06	1.08
	0.20		0.74	0.80	0.85	0.89	0.94	0.98	1.00	1.04	1.06
0.50	0.50	0.20	0.80	0.87	0.91	0.94	0.97	1.00	1.02	1.04	1.05
	0.30		0.76	0.82	0.87	0.90	0.94	0.97	0.99	1.02	1.04
	0.20		0.73	0.79	0.84	0.87	0.92	0.95	0.97	1.00	1.02
0.30	0.50	0.20	0.79	0.84	0.88	0.91	0.94	0.96	0.98	1.00	1.01
	0.30		0.75	0.81	0.85	0.88	0.92	0.94	0.96	0.98	0.99
	0.20		0.72	0.78	0.82	0.85	0.89	0.92	0.94	0.97	0.98
0.00	0.00	0.00	0.70	0.76	0.79	0.82	0.85	0.88	0.89	0.91	0.93
Rating: 7W 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	0.63	0.52	0.44	0.38	0.30	0.25	0.21	0.17	0.13
	0.30		0.53	0.44	0.38	0.34	0.27	0.23	0.20	0.16	0.13
	0.20		0.45	0.39	0.34	0.30	0.25	0.21	0.18	0.15	0.12
0.50	0.50	0.20	0.59	0.48	0.40	0.35	0.28	0.27	0.19	0.15	0.12
	0.30		0.50	0.42	0.36	0.31	0.25	0.21	0.18	0.14	0.12
	0.20		0.44	0.37	0.32	0.28	0.23	0.20	0.17	0.14	0.11
0.30	0.50	0.20	0.56	0.45	0.38	0.32	0.25	0.21	0.18	0.14	0.11
	0.30		0.48	0.40	0.34	0.29	0.23	0.20	0.17	0.13	0.11
	0.20		0.42	0.35	0.30	0.27	0.22	0.18	0.16	0.12	0.10
0.00	0.00	0.00	0.28	0.23	0.19	0.16	0.13	0.11	0.09	0.07	0.06
Rating: 7W 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	0.18	0.19	0.21	0.21	0.23	0.24	0.24	0.25	0.26
	0.30		0.13	0.15	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.10	0.12	0.14	0.15	0.17	0.19	0.20	0.21	0.23
0.50	0.50	0.20	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.25
	0.30		0.13	0.15	0.16	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.21	0.22
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.22
	0.20		0.10	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21
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: 7W 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	972.5	0.9	0.9	0.32	0.32
1.0-2.0	959.4	2.8	3.7	0.95	1.28
2.0-3.0	933.7	4.5	8.2	1.55	2.82
3.0-4.0	897.2	6.0	14.2	2.08	4.90
4.0-5.0	851.7	7.3	21.5	2.54	7.44
5.0-6.0	799.3	8.4	29.9	2.91	10.35
6.0-7.0	742.8	9.2	39.1	3.19	13.55
7.0-8.0	684.1	9.8	48.9	3.39	16.94
8.0-9.0	625.7	10.1	59.0	3.51	20.45
9.0-10.0	569.2	10.3	69.3	3.57	24.02
10.0-11.0	514.7	10.3	79.6	3.56	27.58
11.0-12.0	463.2	10.1	89.8	3.51	31.09
12.0-13.0	416.2	9.9	99.6	3.42	34.51
13.0-14.0	373.4	9.6	109.2	3.31	37.82
14.0-15.0	334.3	9.2	118.4	3.18	41.00
15.0-16.0	299.6	8.8	127.2	3.04	44.04
16.0-17.0	268.8	8.4	135.5	2.90	46.94
17.0-18.0	240.9	7.9	143.5	2.75	49.69
18.0-19.0	216.1	7.5	151.0	2.60	52.30
19.0-20.0	194.1	7.1	158.1	2.46	54.76
20.0-21.0	174.5	6.7	164.8	2.32	57.08
21.0-22.0	156.8	6.3	171.1	2.18	59.26
22.0-23.0	141.2	5.9	177.0	2.05	61.32
23.0-24.0	127.3	5.6	182.6	1.93	63.24
24.0-25.0	114.8	5.2	187.8	1.81	65.05
25.0-26.0	103.8	4.9	192.7	1.70	66.75
26.0-27.0	94.0	4.6	197.3	1.59	68.34
27.0-28.0	85.3	4.3	201.6	1.50	69.84
28.0-29.0	77.5	4.1	205.7	1.41	71.24
29.0-30.0	70.6	3.8	209.5	1.32	72.57
30.0-31.0	64.4	3.6	213.1	1.24	73.81
31.0-32.0	58.8	3.4	216.5	1.17	74.97
32.0-33.0	53.9	3.2	219.6	1.10	76.07
33.0-34.0	49.4	3.0	222.6	1.04	77.11
34.0-35.0	45.3	2.8	225.4	0.97	78.08
35.0-36.0	41.7	2.7	228.1	0.92	79.00

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:

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	38.5	2.5	230.6	0.87	79.87
37.0-38.0	35.5	2.4	233.0	0.82	80.69
38.0-39.0	32.9	2.2	235.2	0.78	81.47
39.0-40.0	30.5	2.1	237.3	0.74	82.21
40.0-41.0	28.4	2.0	239.4	0.70	82.91
41.0-42.0	26.5	1.9	241.3	0.67	83.58
42.0-43.0	24.8	1.8	243.1	0.64	84.21
43.0-44.0	23.2	1.7	244.9	0.61	84.82
44.0-45.0	21.7	1.7	246.5	0.58	85.40
45.0-46.0	20.3	1.6	248.1	0.55	85.95
46.0-47.0	19.1	1.5	249.6	0.53	86.47
47.0-48.0	17.9	1.4	251.1	0.50	86.97
48.0-49.0	16.8	1.4	252.5	0.48	87.45
49.0-50.0	15.9	1.3	253.8	0.46	87.91
50.0-51.0	14.9	1.3	255.1	0.44	88.35
51.0-52.0	14.1	1.2	256.3	0.42	88.76
52.0-53.0	13.3	1.2	257.4	0.40	89.16
53.0-54.0	12.5	1.1	258.5	0.38	89.55
54.0-55.0	11.8	1.0	259.6	0.36	89.91
55.0-56.0	11.1	1.0	260.6	0.35	90.26
56.0-57.0	10.4	1.0	261.5	0.33	90.59
57.0-58.0	9.8	0.9	262.4	0.31	90.90
58.0-59.0	9.2	0.9	263.3	0.30	91.20
59.0-60.0	8.7	0.8	264.1	0.28	91.48
60.0-61.0	8.2	0.8	264.9	0.27	91.75
61.0-62.0	7.6	0.7	265.6	0.26	92.01
62.0-63.0	7.2	0.7	266.3	0.24	92.25
63.0-64.0	6.7	0.7	267.0	0.23	92.48
64.0-65.0	6.4	0.6	267.6	0.22	92.70
65.0-66.0	6.0	0.6	268.2	0.21	92.90
66.0-67.0	5.6	0.6	268.8	0.20	93.10
67.0-68.0	5.3	0.5	269.3	0.19	93.28
68.0-69.0	5.0	0.5	269.8	0.18	93.46
69.0-70.0	4.7	0.5	270.3	0.17	93.63
70.0-71.0	4.4	0.5	270.8	0.16	93.78
71.0-72.0	4.1	0.4	271.2	0.15	93.93

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	3.8	0.4	271.6	0.14	94.07
73.0-74.0	3.6	0.4	272.0	0.13	94.20
74.0-75.0	3.3	0.4	272.3	0.12	94.32
75.0-76.0	3.1	0.3	272.6	0.11	94.44
76.0-77.0	2.9	0.3	273.0	0.11	94.55
77.0-78.0	2.7	0.3	273.2	0.10	94.65
78.0-79.0	2.6	0.3	273.5	0.10	94.74
79.0-80.0	2.4	0.3	273.8	0.09	94.83
80.0-81.0	2.2	0.2	274.0	0.08	94.91
81.0-82.0	2.1	0.2	274.2	0.08	94.99
82.0-83.0	2.0	0.2	274.5	0.08	95.07
83.0-84.0	1.9	0.2	274.7	0.07	95.14
84.0-85.0	1.8	0.2	274.9	0.07	95.21
85.0-86.0	1.8	0.2	275.1	0.07	95.28
86.0-87.0	1.7	0.2	275.3	0.07	95.34
87.0-88.0	1.7	0.2	275.4	0.07	95.41
88.0-89.0	1.7	0.2	275.6	0.06	95.47
89.0-90.0	1.7	0.2	275.8	0.06	95.54
90.0-91.0	1.7	0.2	276.0	0.06	95.60
91.0-92.0	1.7	0.2	276.2	0.06	95.67
92.0-93.0	1.7	0.2	276.4	0.06	95.73
93.0-94.0	1.7	0.2	276.6	0.06	95.80
94.0-95.0	1.7	0.2	276.7	0.06	95.86
95.0-96.0	1.7	0.2	276.9	0.06	95.92
96.0-97.0	1.7	0.2	277.1	0.06	95.99
97.0-98.0	1.6	0.2	277.3	0.06	96.05
98.0-99.0	1.7	0.2	277.5	0.06	96.11
99.0-100.0	1.7	0.2	277.6	0.06	96.17
100.0-101.0	1.7	0.2	277.8	0.06	96.23
101.0-102.0	1.6	0.2	278.0	0.06	96.30
102.0-103.0	1.6	0.2	278.2	0.06	96.36
103.0-104.0	1.6	0.2	278.4	0.06	96.42
104.0-105.0	1.6	0.2	278.5	0.06	96.48
105.0-106.0	1.7	0.2	278.7	0.06	96.54
106.0-107.0	1.7	0.2	278.9	0.06	96.60
107.0-108.0	1.7	0.2	279.1	0.06	96.66

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	1.7	0.2	279.2	0.06	96.72
109.0-110.0	1.7	0.2	279.4	0.06	96.78
110.0-111.0	1.7	0.2	279.6	0.06	96.84
111.0-112.0	1.7	0.2	279.7	0.06	96.90
112.0-113.0	1.7	0.2	279.9	0.06	96.96
113.0-114.0	1.7	0.2	280.1	0.06	97.02
114.0-115.0	1.7	0.2	280.3	0.06	97.08
115.0-116.0	1.7	0.2	280.4	0.06	97.13
116.0-117.0	1.7	0.2	280.6	0.06	97.19
117.0-118.0	1.7	0.2	280.8	0.06	97.25
118.0-119.0	1.7	0.2	280.9	0.06	97.31
119.0-120.0	1.7	0.2	281.1	0.06	97.37
120.0-121.0	1.8	0.2	281.3	0.06	97.43
121.0-122.0	1.8	0.2	281.4	0.06	97.48
122.0-123.0	1.8	0.2	281.6	0.06	97.54
123.0-124.0	1.8	0.2	281.8	0.06	97.60
124.0-125.0	1.8	0.2	281.9	0.06	97.65
125.0-126.0	1.9	0.2	282.1	0.06	97.71
126.0-127.0	1.9	0.2	282.3	0.06	97.77
127.0-128.0	1.9	0.2	282.4	0.06	97.83
128.0-129.0	1.9	0.2	282.6	0.06	97.88
129.0-130.0	1.9	0.2	282.7	0.06	97.94
130.0-131.0	2.0	0.2	282.9	0.06	98.00
131.0-132.0	2.0	0.2	283.1	0.06	98.05
132.0-133.0	2.0	0.2	283.2	0.06	98.11
133.0-134.0	2.0	0.2	283.4	0.06	98.17
134.0-135.0	2.1	0.2	283.6	0.06	98.22
135.0-136.0	2.1	0.2	283.7	0.06	98.28
136.0-137.0	2.2	0.2	283.9	0.06	98.34
137.0-138.0	2.2	0.2	284.1	0.06	98.39
138.0-139.0	2.3	0.2	284.2	0.06	98.45
139.0-140.0	2.3	0.2	284.4	0.06	98.51
140.0-141.0	2.4	0.2	284.6	0.06	98.57
141.0-142.0	2.4	0.2	284.7	0.06	98.62
142.0-143.0	2.5	0.2	284.9	0.06	98.68
143.0-144.0	2.5	0.2	285.1	0.06	98.74

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	2.6	0.2	285.2	0.06	98.79
145.0-146.0	2.6	0.2	285.4	0.06	98.85
146.0-147.0	2.7	0.2	285.5	0.06	98.90
147.0-148.0	2.7	0.2	285.7	0.06	98.96
148.0-149.0	2.8	0.2	285.9	0.06	99.02
149.0-150.0	2.8	0.2	286.0	0.05	99.07
150.0-151.0	2.9	0.2	286.2	0.05	99.12
151.0-152.0	2.9	0.2	286.3	0.05	99.18
152.0-153.0	3.0	0.1	286.5	0.05	99.23
153.0-154.0	3.0	0.1	286.6	0.05	99.28
154.0-155.0	3.1	0.1	286.8	0.05	99.33
155.0-156.0	3.1	0.1	286.9	0.05	99.38
156.0-157.0	3.2	0.1	287.0	0.05	99.43
157.0-158.0	3.2	0.1	287.2	0.05	99.47
158.0-159.0	3.2	0.1	287.3	0.04	99.52
159.0-160.0	3.3	0.1	287.4	0.04	99.56
160.0-161.0	3.3	0.1	287.6	0.04	99.60
161.0-162.0	3.3	0.1	287.7	0.04	99.64
162.0-163.0	3.3	0.1	287.8	0.04	99.68
163.0-164.0	3.3	0.1	287.9	0.04	99.72
164.0-165.0	3.3	0.1	288.0	0.03	99.75
165.0-166.0	3.4	0.1	288.1	0.03	99.78
166.0-167.0	3.4	0.1	288.2	0.03	99.81
167.0-168.0	3.4	0.1	288.2	0.03	99.84
168.0-169.0	3.4	0.1	288.3	0.03	99.87
169.0-170.0	3.4	0.1	288.4	0.02	99.89
170.0-171.0	3.4	0.1	288.4	0.02	99.91
171.0-172.0	3.4	0.1	288.5	0.02	99.93
172.0-173.0	3.4	0.0	288.5	0.02	99.95
173.0-174.0	3.4	0.0	288.6	0.01	99.96
174.0-175.0	3.4	0.0	288.6	0.01	99.97
175.0-176.0	3.4	0.0	288.6	0.01	99.98
176.0-177.0	3.4	0.0	288.7	0.01	99.99
177.0-178.0	3.3	0.0	288.7	0.01	100.00
178.0-179.0	3.3	0.0	288.7	0.00	100.00
179.0-180.0	3.4	0.0	288.7	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: