

Report No.:

Test Time: 2023/4/21 10:38

## Luminaire Property

Luminaire Manufacturer: ACOLYTE  
Luminaire Category: RIBBONLYTE  
Lamp Catalog: 3500k  
Luminous Width (mm): 20.5  
Voltage: 24.0 V  
Power: 6.28 W

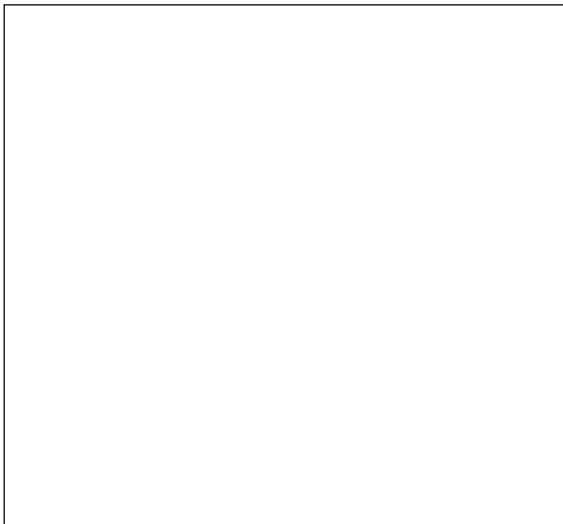
Luminaire Description: RB90SWX675.83530  
Luminous Length (mm): 320  
Luminous Height (mm): 14  
Current: 0.262 A  
Power Factor: 1.000

## Photometric Results

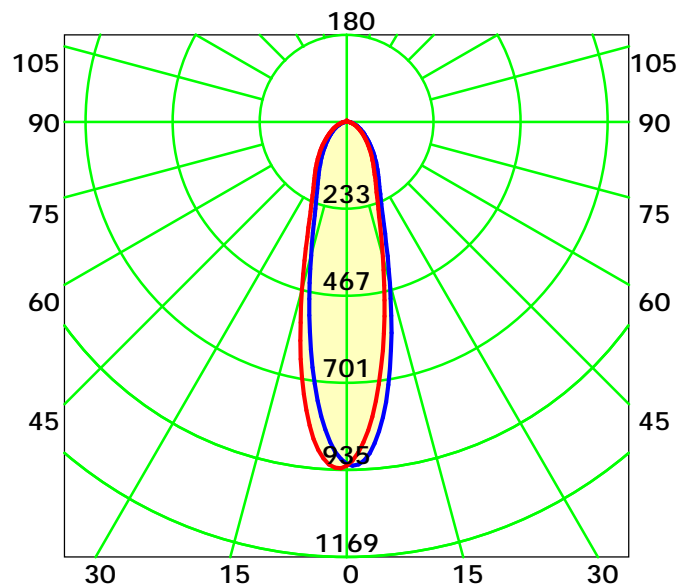
CIE Class: Direct  
Measurement Flux: 547 lm  
Downward Ratio: 98%  
Horizontal Diffuse Angle(10%,50%): H85.8,H27.3  
Vertical Diffuse Angle(10%,50%): V86.4,V27.7  
Luminaire Efficacy Rating (LER): 87  
Max. Intensity: 931.64 cd

Total Rated Lamp Lumens: 547.0 lm  
Efficiency: 100%  
Upward Ratio: 2%  
Central Intensity: 918.97 cd  
Pos of Max. Intensity: H240 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 27.5° Unit: cd

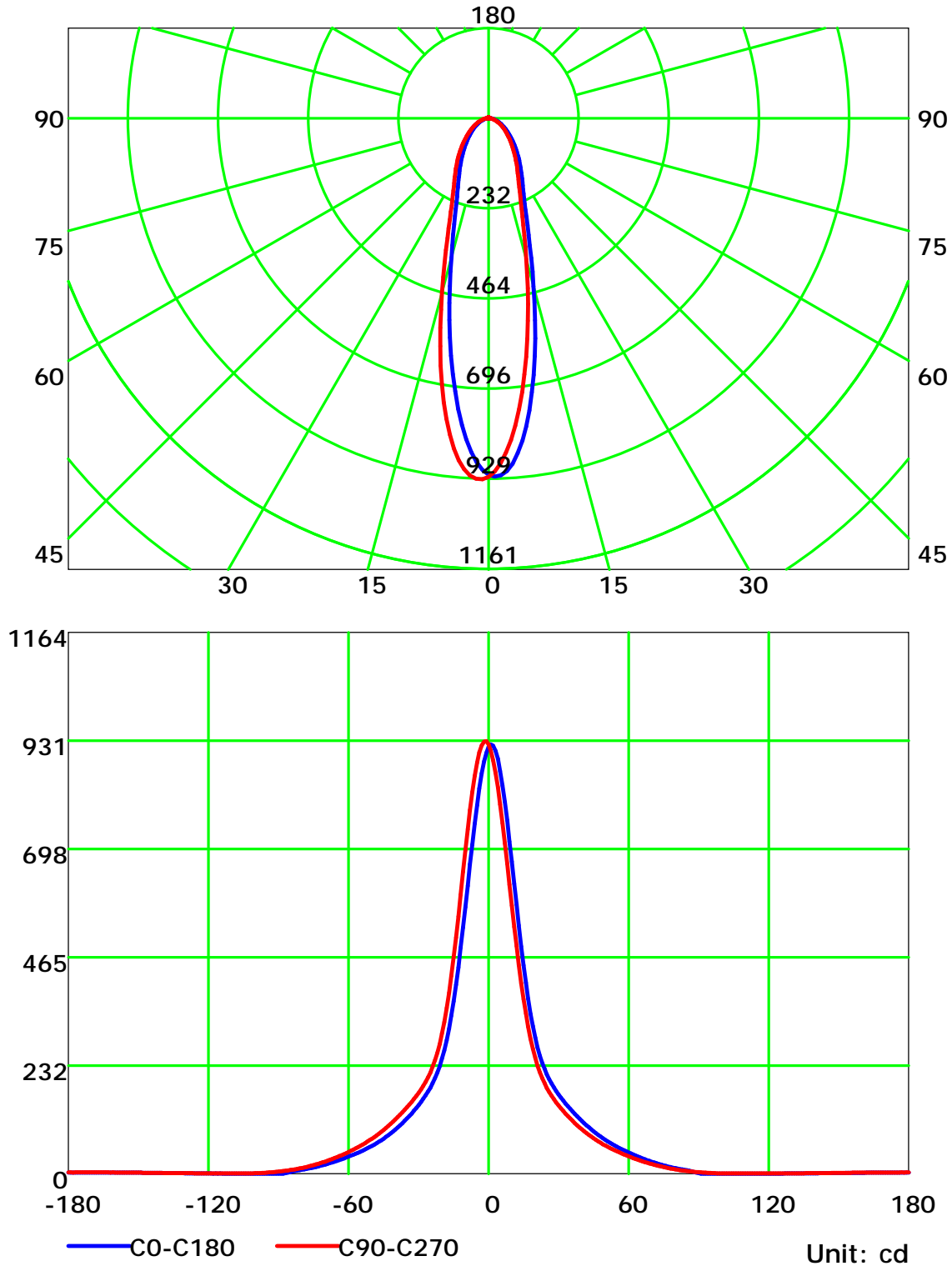
— C0-C180 — C90-C270

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

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



## Luminous Intensity Distribution Curve

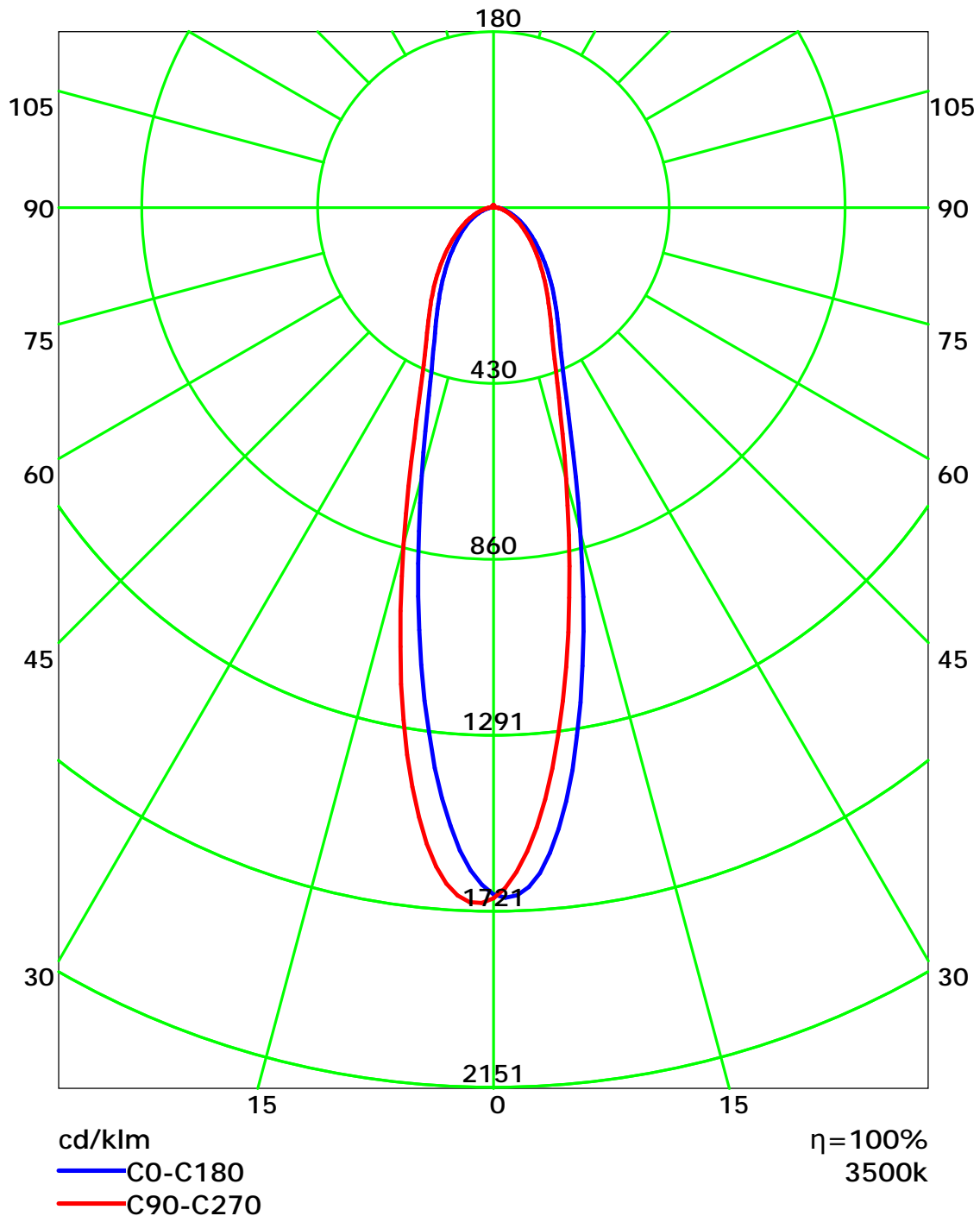


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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: Nick

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

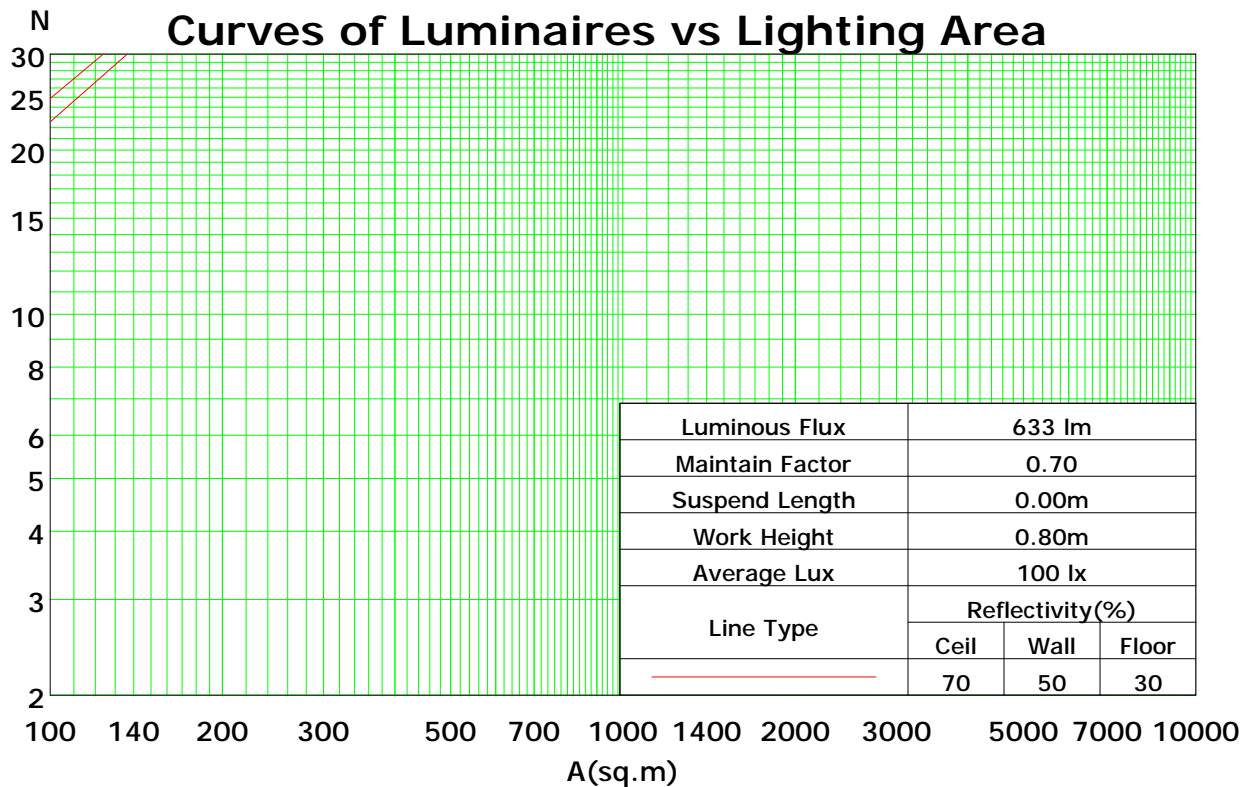
## Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	107	103	100	108	104	101	99	100	97	95	96	94	92	92	90	89	87
2	103	97	91	87	101	95	90	86	91	87	83	88	84	81	84	82	79	77
3	96	88	82	77	94	87	81	76	83	78	74	81	76	73	78	74	71	69
4	90	81	74	69	88	80	73	68	77	71	67	75	70	66	72	68	65	63
5	85	75	68	62	83	74	67	62	71	66	61	69	64	60	68	63	60	58
6	80	69	62	57	78	69	62	57	67	61	56	65	60	56	63	59	55	53
7	76	65	58	53	74	64	57	53	62	57	52	61	56	52	60	55	51	50
8	72	61	54	49	70	60	54	49	59	53	49	58	52	48	56	52	48	46
9	68	57	51	46	67	57	50	46	56	50	46	54	49	45	53	49	45	44
10	65	54	48	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41

Spacing Criteria (0-180): 0.46

Spacing Criteria (90-270): 0.46

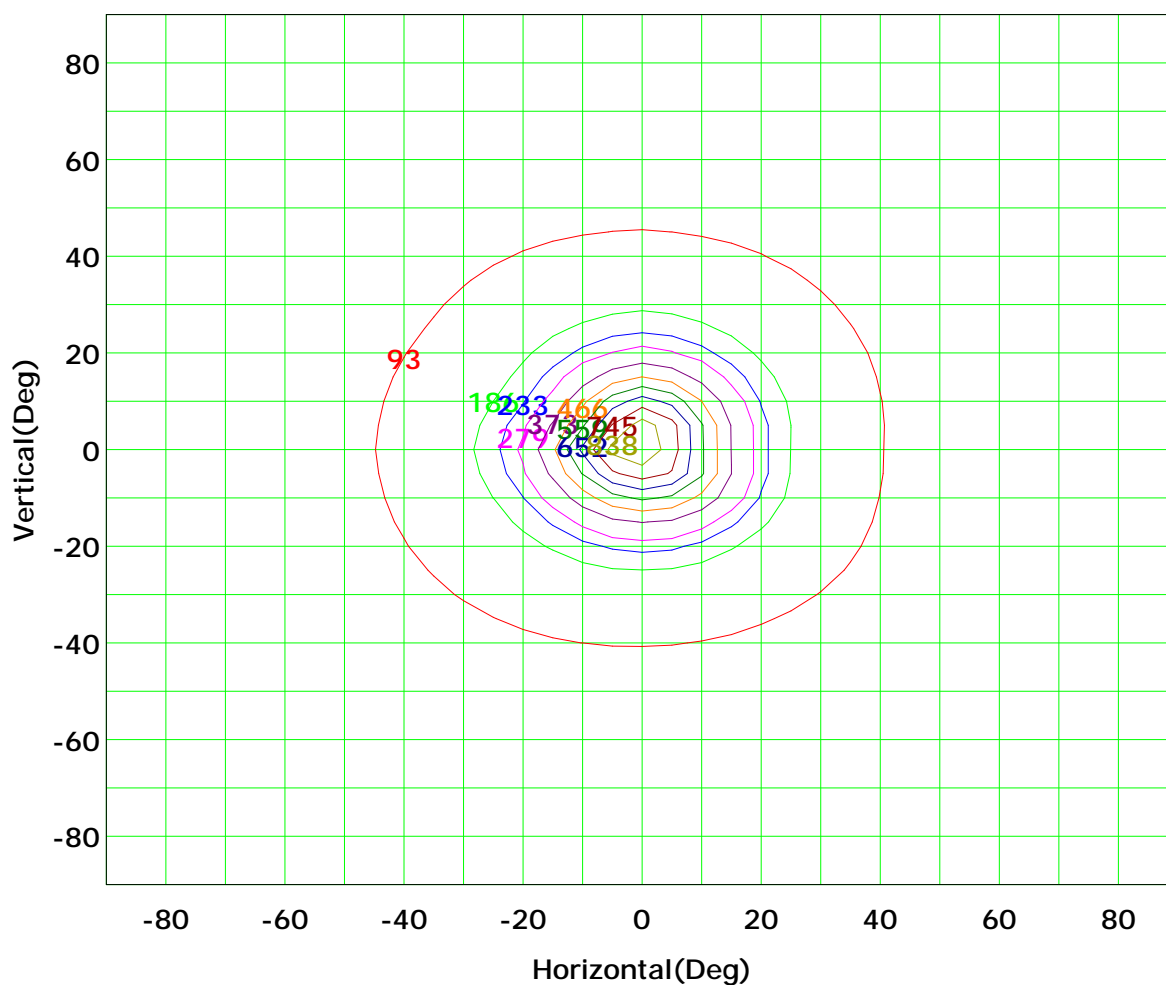
Spacing Criteria (Diagonal): 0.51



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

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

## Isocandela (rectangle)



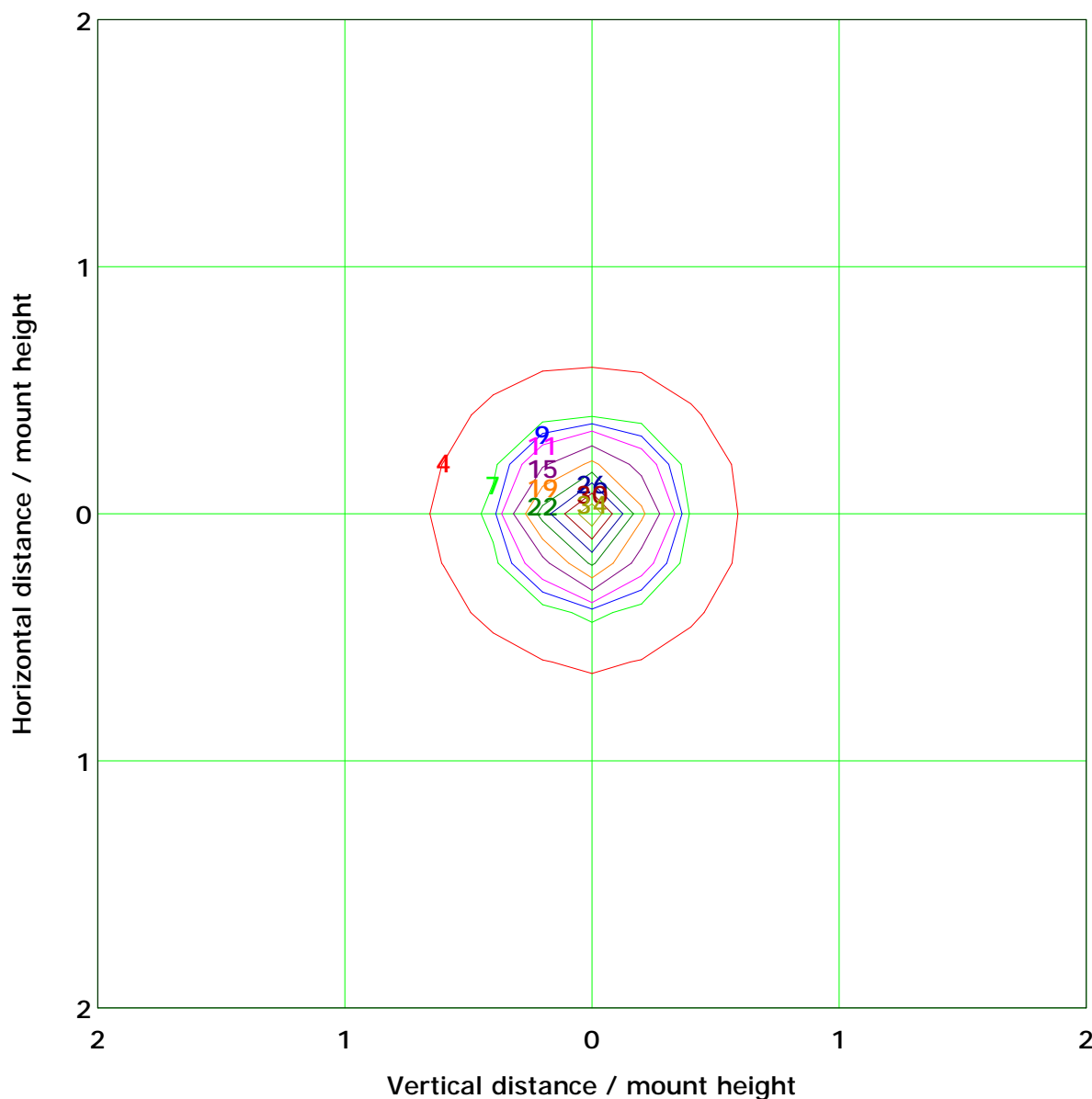
I<sub>max</sub> (100%): 932 cd

( 10%): 93 cd	( 20%): 186 cd
( 25%): 233 cd	( 30%): 279 cd
( 40%): 373 cd	( 50%): 466 cd
( 60%): 559 cd	( 70%): 652 cd
( 80%): 745 cd	( 90%): 838 cd

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

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%): 37.2 lx	
( 10%): 3.7 lx	( 20%): 7.4 lx
( 25%): 9.3 lx	( 30%): 11.2 lx
( 40%): 14.9 lx	( 50%): 18.6 lx
( 60%): 22.3 lx	( 70%): 26.1 lx
( 80%): 29.8 lx	( 90%): 33.5 lx

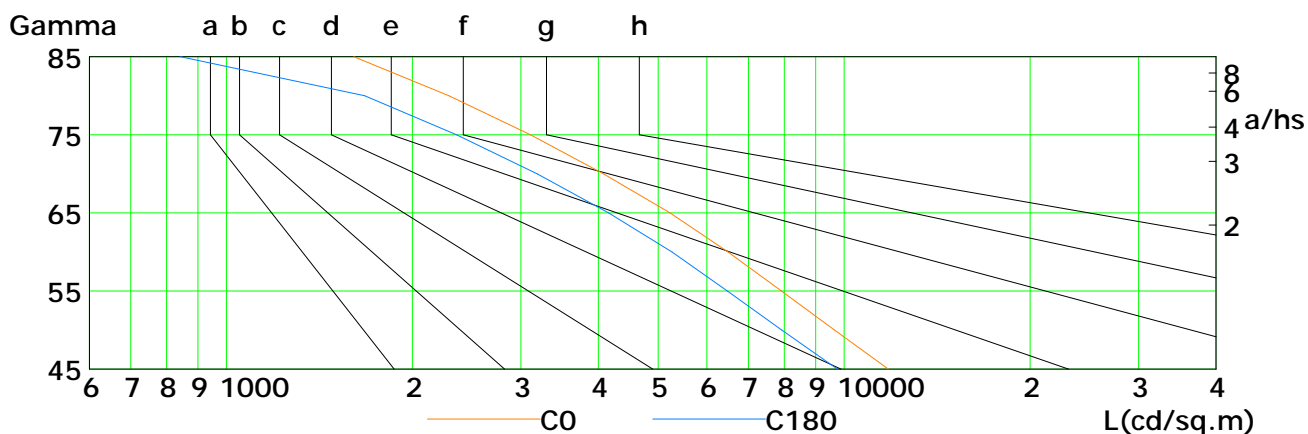
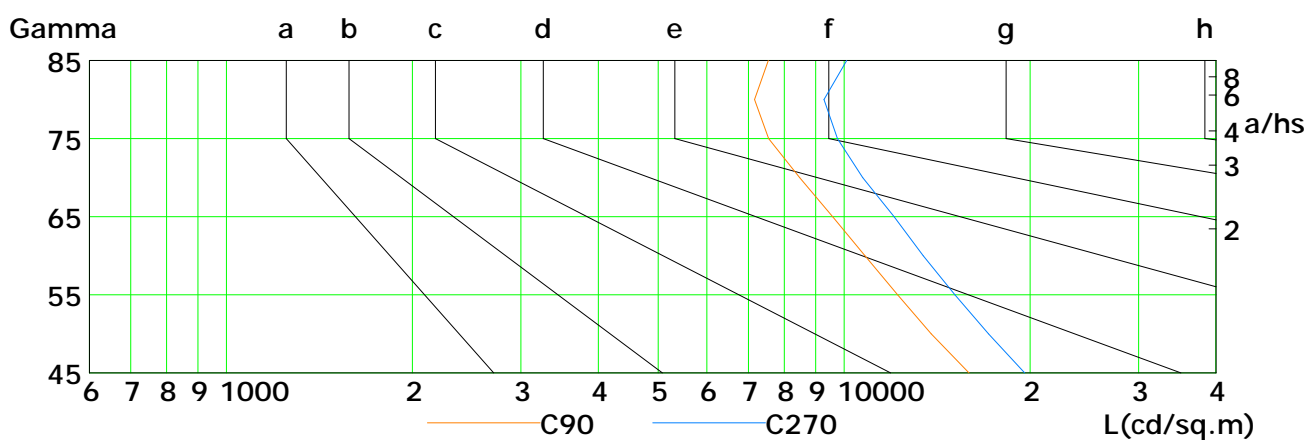
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## 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

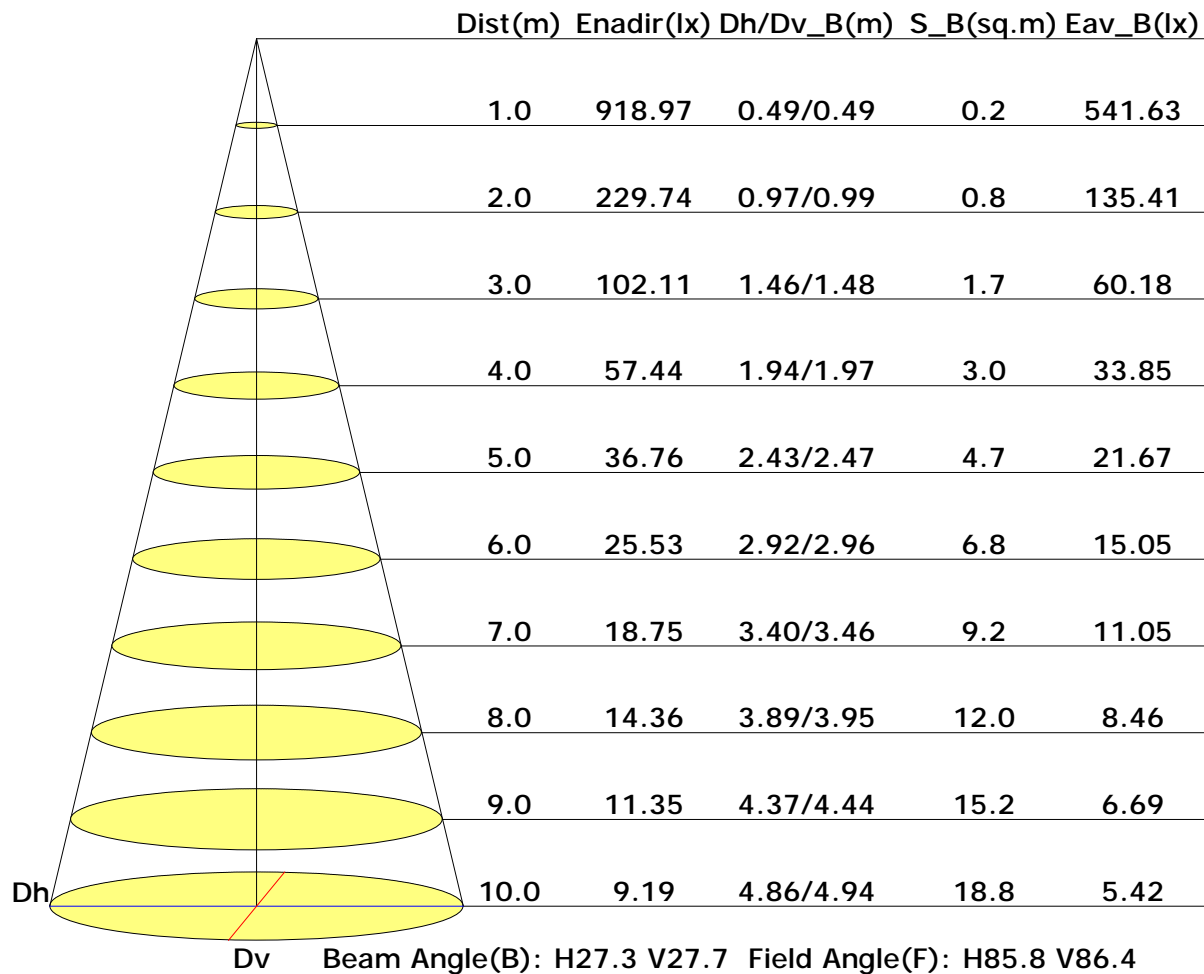


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	11798	9658	7923	6485	5228	4080	3107	2293	1609
C90	15935	13849	12214	10812	9580	8475	7554	7160	7544
C180	9762	7926	6476	5263	4158	3187	2360	1675	842
C270	19620	17139	15118	13439	12050	10719	9762	9277	10097

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Temperature: 25  
Operator: Nick

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

## Illuminance at a Distance

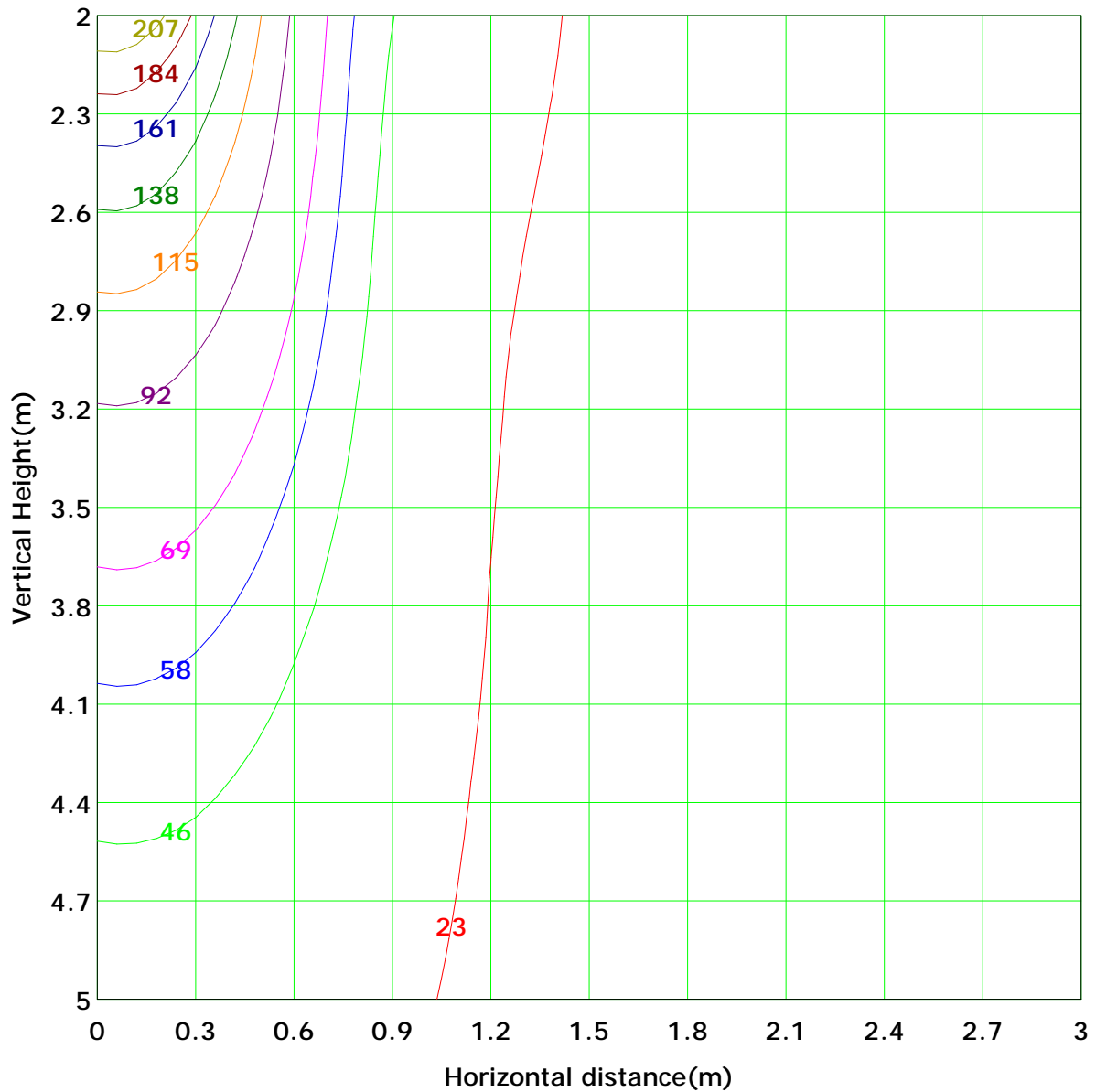


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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: 230.2 lx
( 10%): 23.0 lx	( 20%): 46.0 lx	
( 25%): 57.5 lx	( 30%): 69.1 lx	
( 40%): 92.1 lx	( 50%): 115.1 lx	
( 60%): 138.1 lx	( 70%): 161.1 lx	
( 80%): 184.2 lx	( 90%): 207.2 lx	

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

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

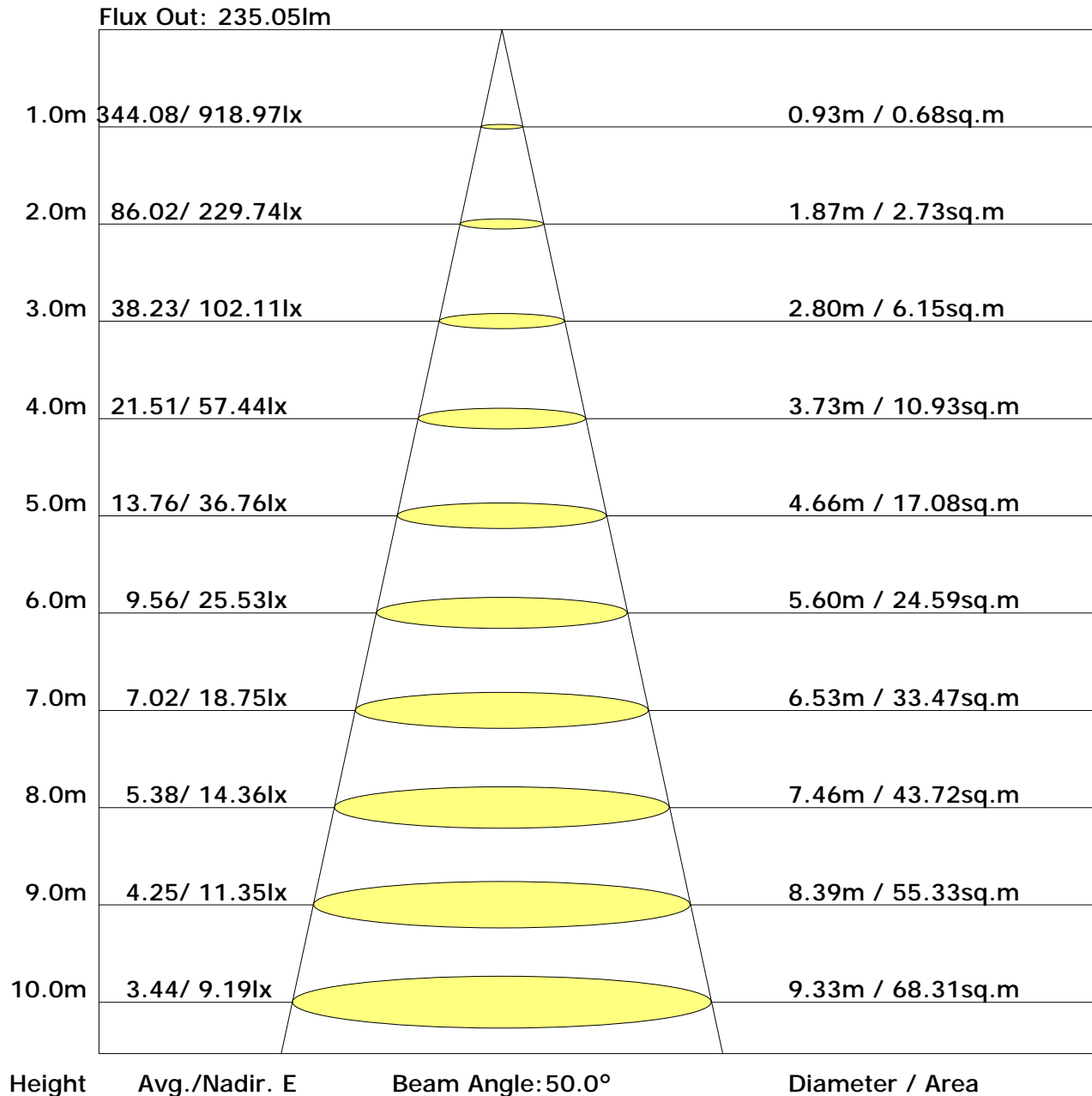
## Area Flux Table

Unit: lm

	Vertical plane																			Horizontal plane																							
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90					
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
Flux(T)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0																																		



## The Average Illuminance Effective Figure



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

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	20.5	21.8	20.9	22.1	22.5	18.3	19.6	18.7	20.0	20.3
3H	22.0	23.1	22.4	23.5	23.9	19.4	20.6	19.8	20.9	21.4
4H	22.5	23.6	23.0	24.0	24.5	19.7	20.8	20.2	21.2	21.7
6H	23.0	24.0	23.5	24.4	24.9	20.0	21.0	20.4	21.4	21.8
8H	23.2	24.2	23.7	24.6	25.1	20.0	21.0	20.5	21.4	21.9
12H	23.4	24.3	23.9	24.7	25.2	20.1	21.0	20.6	21.4	21.9
X=4H Y=2H	20.7	21.8	21.1	22.2	22.6	18.8	19.9	19.3	20.3	20.7
3H	22.4	23.3	22.8	23.7	24.2	20.1	21.0	20.6	21.5	21.9
4H	23.0	23.8	23.5	24.3	24.8	20.6	21.4	21.1	21.9	22.4
6H	23.6	24.3	24.1	24.8	25.3	20.9	21.6	21.4	22.1	22.6
8H	23.9	24.5	24.4	25.0	25.5	21.0	21.7	21.5	22.2	22.7
12H	24.1	24.7	24.6	25.2	25.7	21.1	21.7	21.6	22.2	22.7
X=8H Y=4H	23.1	23.8	23.6	24.3	24.8	20.8	21.5	21.3	22.0	22.5
6H	23.8	24.3	24.3	24.9	25.4	21.3	21.8	21.8	22.4	22.9
8H	24.1	24.6	24.6	25.1	25.7	21.4	21.9	22.0	22.5	23.0
12H	24.4	24.8	25.0	25.4	26.0	21.6	22.0	22.1	22.5	23.2
X=12H Y=4H	23.1	23.7	23.6	24.2	24.7	20.9	21.5	21.4	22.0	22.5
6H	23.8	24.3	24.3	24.8	25.4	21.3	21.8	21.9	22.3	22.9
8H	24.1	24.6	24.7	25.1	25.7	21.5	22.0	22.1	22.5	23.1

Calculate in accordance with CIE 190:2010

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

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 = 0.75								
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	0.71	0.79	0.85	0.89	0.94	0.98	1.01	1.04	1.07
	0.30		0.65	0.73	0.79	0.83	0.90	0.94	0.97	1.01	1.04
	0.20		0.60	0.68	0.74	0.79	0.85	0.90	0.94	0.98	1.01
0.50	0.50	0.20	0.69	0.77	0.82	0.86	0.91	0.95	0.97	1.00	1.02
	0.30		0.64	0.71	0.77	0.81	0.87	0.91	0.94	0.97	1.00
	0.20		0.60	0.67	0.73	0.77	0.84	0.88	0.91	0.95	0.98
0.30	0.50	0.20	0.68	0.75	0.80	0.83	0.88	0.91	0.93	0.96	0.98
	0.30		0.63	0.70	0.75	0.79	0.85	0.88	0.91	0.94	0.96
	0.20		0.59	0.66	0.72	0.76	0.82	0.86	0.88	0.92	0.94
0.00	0.00	0.00	0.57	0.64	0.69	0.73	0.78	0.81	0.84	0.87	0.89
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 = 0.75								
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	0.79	0.65	0.56	0.48	0.38	0.32	0.27	0.21	0.17
	0.30		0.66	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.17
	0.20		0.56	0.49	0.43	0.38	0.32	0.27	0.24	0.19	0.16
0.50	0.50	0.20	0.75	0.62	0.53	0.46	0.36	0.34	0.26	0.20	0.16
	0.30		0.64	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.16
	0.20		0.55	0.47	0.42	0.37	0.31	0.26	0.23	0.18	0.15
0.30	0.50	0.20	0.72	0.59	0.50	0.43	0.34	0.28	0.24	0.19	0.15
	0.30		0.62	0.52	0.45	0.39	0.32	0.26	0.23	0.18	0.15
	0.20		0.54	0.46	0.40	0.36	0.29	0.25	0.21	0.17	0.14
0.00	0.00	0.00	0.42	0.35	0.30	0.26	0.21	0.18	0.15	0.12	0.10
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 = 0.75									
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	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.24	
	0.30		0.11	0.13	0.15	0.16	0.17	0.19	0.19	0.21	0.22	
	0.20		0.07	0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20	
0.50	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.19	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	915.1	0.9	0.9	0.16	0.16
1.0-2.0	907.7	2.6	3.5	0.48	0.64
2.0-3.0	893.2	4.3	7.8	0.78	1.42
3.0-4.0	872.1	5.8	13.6	1.07	2.48
4.0-5.0	844.7	7.3	20.9	1.33	3.81
5.0-6.0	811.9	8.5	29.4	1.56	5.37
6.0-7.0	774.7	9.6	39.0	1.76	7.13
7.0-8.0	734.0	10.5	49.5	1.92	9.05
8.0-9.0	690.7	11.2	60.7	2.05	11.10
9.0-10.0	645.9	11.7	72.4	2.14	13.24
10.0-11.0	600.7	12.0	84.4	2.19	15.43
11.0-12.0	555.7	12.2	96.6	2.22	17.65
12.0-13.0	511.6	12.1	108.7	2.22	19.87
13.0-14.0	469.5	12.0	120.7	2.20	22.07
14.0-15.0	429.8	11.8	132.5	2.16	24.23
15.0-16.0	393.1	11.5	144.0	2.11	26.33
16.0-17.0	360.1	11.2	155.3	2.05	28.38
17.0-18.0	330.2	10.9	166.1	1.99	30.37
18.0-19.0	303.6	10.6	176.7	1.93	32.30
19.0-20.0	280.7	10.3	187.0	1.88	34.18
20.0-21.0	260.6	10.0	197.0	1.83	36.01
21.0-22.0	243.2	9.8	206.8	1.79	37.80
22.0-23.0	228.3	9.6	216.3	1.75	39.55
23.0-24.0	215.5	9.4	225.8	1.72	41.27
24.0-25.0	204.1	9.3	235.0	1.70	42.97
25.0-26.0	194.1	9.2	244.2	1.68	44.65
26.0-27.0	185.2	9.1	253.3	1.66	46.30
27.0-28.0	177.0	9.0	262.2	1.64	47.94
28.0-29.0	169.5	8.9	271.1	1.62	49.56
29.0-30.0	162.6	8.8	279.9	1.61	51.17
30.0-31.0	156.0	8.7	288.6	1.59	52.76
31.0-32.0	149.7	8.6	297.1	1.57	54.32
32.0-33.0	143.7	8.5	305.6	1.55	55.87
33.0-34.0	137.9	8.3	314.0	1.53	57.40
34.0-35.0	132.3	8.2	322.2	1.50	58.90
35.0-36.0	126.9	8.1	330.3	1.48	60.38

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

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	121.7	7.9	338.2	1.45	61.83
37.0-38.0	116.7	7.8	346.0	1.42	63.25
38.0-39.0	111.8	7.6	353.6	1.40	64.65
39.0-40.0	107.2	7.5	361.1	1.37	66.02
40.0-41.0	102.6	7.3	368.4	1.34	67.35
41.0-42.0	98.3	7.1	375.6	1.31	68.66
42.0-43.0	94.2	7.0	382.5	1.28	69.93
43.0-44.0	90.1	6.8	389.3	1.24	71.18
44.0-45.0	86.2	6.6	396.0	1.21	72.39
45.0-46.0	82.4	6.4	402.4	1.18	73.57
46.0-47.0	78.9	6.3	408.7	1.15	74.71
47.0-48.0	75.4	6.1	414.8	1.11	75.83
48.0-49.0	72.1	5.9	420.7	1.08	76.91
49.0-50.0	69.0	5.8	426.4	1.05	77.96
50.0-51.0	65.9	5.6	432.0	1.02	78.98
51.0-52.0	63.0	5.4	437.4	0.99	79.97
52.0-53.0	60.2	5.2	442.7	0.96	80.93
53.0-54.0	57.5	5.1	447.7	0.93	81.85
54.0-55.0	55.0	4.9	452.6	0.90	82.75
55.0-56.0	52.5	4.7	457.4	0.87	83.62
56.0-57.0	50.1	4.6	462.0	0.84	84.46
57.0-58.0	47.9	4.4	466.4	0.81	85.27
58.0-59.0	45.6	4.3	470.7	0.78	86.05
59.0-60.0	43.5	4.1	474.8	0.75	86.80
60.0-61.0	41.5	4.0	478.7	0.72	87.52
61.0-62.0	39.5	3.8	482.5	0.70	88.22
62.0-63.0	37.5	3.7	486.2	0.67	88.89
63.0-64.0	35.7	3.5	489.7	0.64	89.53
64.0-65.0	33.9	3.4	493.0	0.61	90.14
65.0-66.0	32.1	3.2	496.2	0.59	90.72
66.0-67.0	30.4	3.1	499.3	0.56	91.28
67.0-68.0	28.7	2.9	502.2	0.53	91.81
68.0-69.0	27.1	2.8	505.0	0.51	92.32
69.0-70.0	25.5	2.6	507.6	0.48	92.80
70.0-71.0	24.0	2.5	510.1	0.45	93.25
71.0-72.0	22.5	2.3	512.4	0.43	93.68

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

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	21.1	2.2	514.6	0.40	94.08
73.0-74.0	19.7	2.1	516.7	0.38	94.46
74.0-75.0	18.4	1.9	518.6	0.35	94.82
75.0-76.0	17.1	1.8	520.4	0.33	95.15
76.0-77.0	15.9	1.7	522.1	0.31	95.46
77.0-78.0	14.7	1.6	523.7	0.29	95.74
78.0-79.0	13.6	1.5	525.2	0.27	96.01
79.0-80.0	12.5	1.4	526.5	0.25	96.26
80.0-81.0	11.5	1.2	527.8	0.23	96.49
81.0-82.0	10.6	1.1	528.9	0.21	96.70
82.0-83.0	9.7	1.1	530.0	0.19	96.89
83.0-84.0	8.8	1.0	530.9	0.18	97.06
84.0-85.0	8.0	0.9	531.8	0.16	97.22
85.0-86.0	7.2	0.8	532.6	0.14	97.37
86.0-87.0	6.4	0.7	533.3	0.13	97.50
87.0-88.0	5.6	0.6	533.9	0.11	97.61
88.0-89.0	5.0	0.5	534.5	0.10	97.71
89.0-90.0	4.4	0.5	534.9	0.09	97.80
90.0-91.0	3.9	0.4	535.4	0.08	97.87
91.0-92.0	3.4	0.4	535.7	0.07	97.94
92.0-93.0	3.1	0.3	536.1	0.06	98.00
93.0-94.0	2.8	0.3	536.4	0.06	98.06
94.0-95.0	2.5	0.3	536.6	0.05	98.11
95.0-96.0	2.3	0.2	536.9	0.05	98.15
96.0-97.0	2.1	0.2	537.1	0.04	98.20
97.0-98.0	1.9	0.2	537.3	0.04	98.23
98.0-99.0	1.7	0.2	537.5	0.03	98.27
99.0-100.0	1.6	0.2	537.7	0.03	98.30
100.0-101.0	1.4	0.2	537.8	0.03	98.33
101.0-102.0	1.3	0.1	538.0	0.03	98.35
102.0-103.0	1.3	0.1	538.1	0.03	98.38
103.0-104.0	1.3	0.1	538.3	0.02	98.40
104.0-105.0	1.2	0.1	538.4	0.02	98.43
105.0-106.0	1.2	0.1	538.5	0.02	98.45
106.0-107.0	1.2	0.1	538.6	0.02	98.47
107.0-108.0	1.2	0.1	538.8	0.02	98.49

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

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.2	0.1	538.9	0.02	98.52
109.0-110.0	1.2	0.1	539.0	0.02	98.54
110.0-111.0	1.2	0.1	539.1	0.02	98.56
111.0-112.0	1.2	0.1	539.3	0.02	98.59
112.0-113.0	1.2	0.1	539.4	0.02	98.61
113.0-114.0	1.2	0.1	539.5	0.02	98.63
114.0-115.0	1.3	0.1	539.6	0.02	98.66
115.0-116.0	1.3	0.1	539.8	0.02	98.68
116.0-117.0	1.3	0.1	539.9	0.02	98.70
117.0-118.0	1.3	0.1	540.0	0.02	98.72
118.0-119.0	1.3	0.1	540.1	0.02	98.75
119.0-120.0	1.3	0.1	540.3	0.02	98.77
120.0-121.0	1.3	0.1	540.4	0.02	98.79
121.0-122.0	1.4	0.1	540.5	0.02	98.82
122.0-123.0	1.4	0.1	540.7	0.02	98.84
123.0-124.0	1.4	0.1	540.8	0.02	98.86
124.0-125.0	1.4	0.1	540.9	0.02	98.89
125.0-126.0	1.4	0.1	541.0	0.02	98.91
126.0-127.0	1.5	0.1	541.2	0.02	98.94
127.0-128.0	1.5	0.1	541.3	0.02	98.96
128.0-129.0	1.5	0.1	541.4	0.02	98.98
129.0-130.0	1.6	0.1	541.6	0.02	99.01
130.0-131.0	1.6	0.1	541.7	0.02	99.03
131.0-132.0	1.6	0.1	541.8	0.02	99.06
132.0-133.0	1.7	0.1	542.0	0.02	99.08
133.0-134.0	1.7	0.1	542.1	0.03	99.11
134.0-135.0	1.8	0.1	542.2	0.03	99.13
135.0-136.0	1.8	0.1	542.4	0.03	99.16
136.0-137.0	1.8	0.1	542.5	0.03	99.18
137.0-138.0	1.9	0.1	542.7	0.03	99.21
138.0-139.0	1.9	0.1	542.8	0.03	99.23
139.0-140.0	2.0	0.1	542.9	0.03	99.26
140.0-141.0	2.0	0.1	543.1	0.03	99.29
141.0-142.0	2.1	0.1	543.2	0.03	99.31
142.0-143.0	2.2	0.1	543.4	0.03	99.34
143.0-144.0	2.2	0.1	543.5	0.03	99.37

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

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	2.3	0.1	543.7	0.03	99.39
145.0-146.0	2.4	0.1	543.8	0.03	99.42
146.0-147.0	2.4	0.1	544.0	0.03	99.45
147.0-148.0	2.5	0.1	544.1	0.03	99.47
148.0-149.0	2.6	0.1	544.3	0.03	99.50
149.0-150.0	2.6	0.1	544.4	0.03	99.53
150.0-151.0	2.7	0.1	544.5	0.03	99.55
151.0-152.0	2.7	0.1	544.7	0.03	99.58
152.0-153.0	2.8	0.1	544.8	0.03	99.61
153.0-154.0	2.9	0.1	545.0	0.03	99.63
154.0-155.0	2.9	0.1	545.1	0.03	99.66
155.0-156.0	2.9	0.1	545.2	0.02	99.68
156.0-157.0	3.0	0.1	545.4	0.02	99.70
157.0-158.0	3.0	0.1	545.5	0.02	99.73
158.0-159.0	3.1	0.1	545.6	0.02	99.75
159.0-160.0	3.1	0.1	545.7	0.02	99.77
160.0-161.0	3.2	0.1	545.9	0.02	99.79
161.0-162.0	3.2	0.1	546.0	0.02	99.81
162.0-163.0	3.2	0.1	546.1	0.02	99.83
163.0-164.0	3.3	0.1	546.2	0.02	99.85
164.0-165.0	3.3	0.1	546.3	0.02	99.87
165.0-166.0	3.3	0.1	546.4	0.02	99.89
166.0-167.0	3.3	0.1	546.4	0.02	99.90
167.0-168.0	3.3	0.1	546.5	0.01	99.92
168.0-169.0	3.3	0.1	546.6	0.01	99.93
169.0-170.0	3.4	0.1	546.7	0.01	99.94
170.0-171.0	3.4	0.1	546.7	0.01	99.95
171.0-172.0	3.4	0.1	546.8	0.01	99.96
172.0-173.0	3.4	0.0	546.8	0.01	99.97
173.0-174.0	3.4	0.0	546.9	0.01	99.98
174.0-175.0	3.4	0.0	546.9	0.01	99.99
175.0-176.0	3.4	0.0	546.9	0.01	99.99
176.0-177.0	3.4	0.0	547.0	0.00	99.99
177.0-178.0	3.4	0.0	547.0	0.00	100.00
178.0-179.0	3.4	0.0	547.0	0.00	100.00
179.0-180.0	3.4	0.0	547.0	0.00	100.00

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

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