

Report No.:

Test Time: 2019/7/31 18:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 3527 140LED 1.0W 2000K

Luminaire Description: 3527 140LED 1.0W 2000K

Luminous Length (mm): 500

Luminous Width (mm): 8

Luminous Height (mm): 2

Voltage: 24.0 V

Current: 0.035 A

Power: 0.83 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 63.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%): H162.8,H114.8

Vertical Diffuse Angle(10%,50%): V163.5,V115

Luminaire Efficacy Rating (LER): 76

Max. Intensity: 21.4 cd

Total Rated Lamp Lumens: 63.1 lm

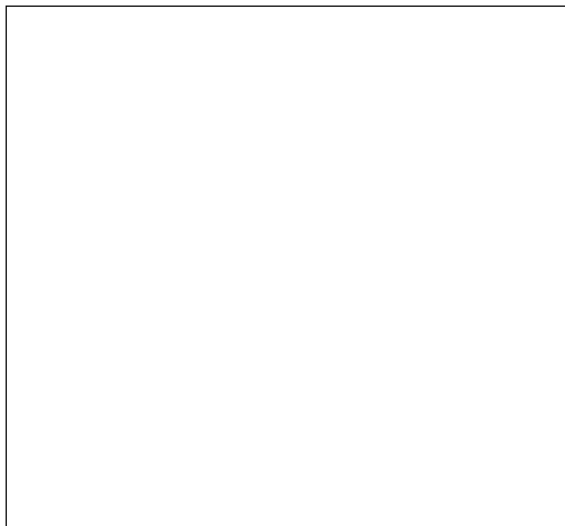
Efficiency: 100%

Upward Ratio: 0%

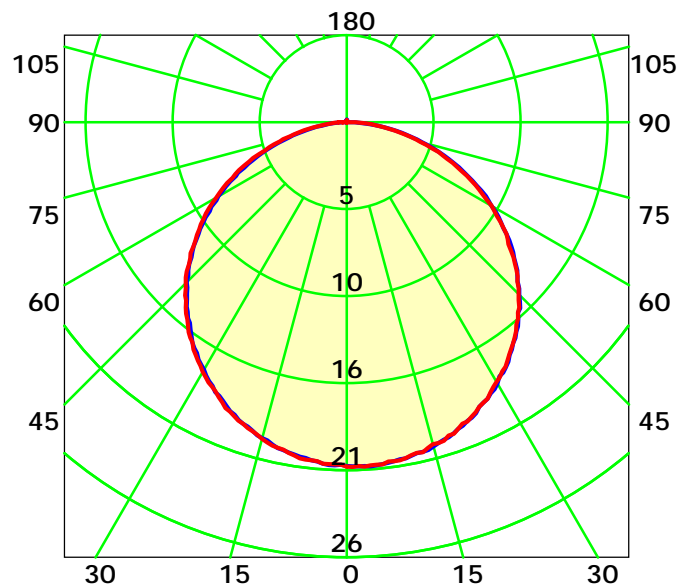
Central Intensity: 21.31 cd

Pos of Max. Intensity: H60 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 114.9° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

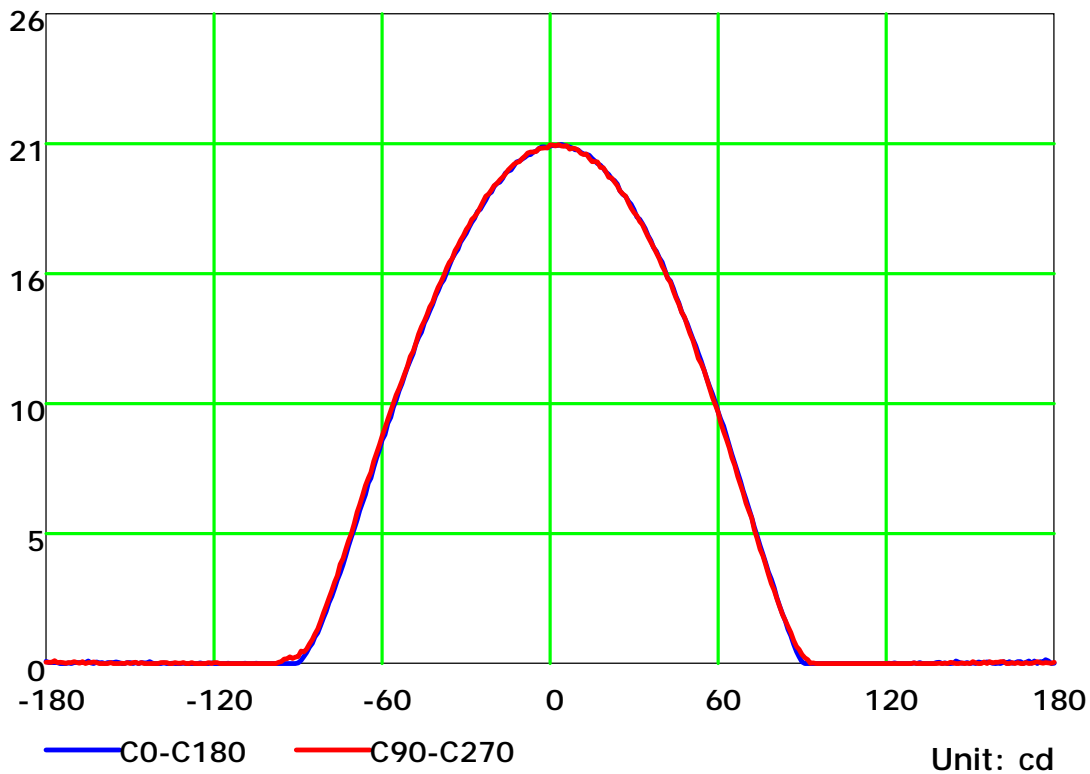
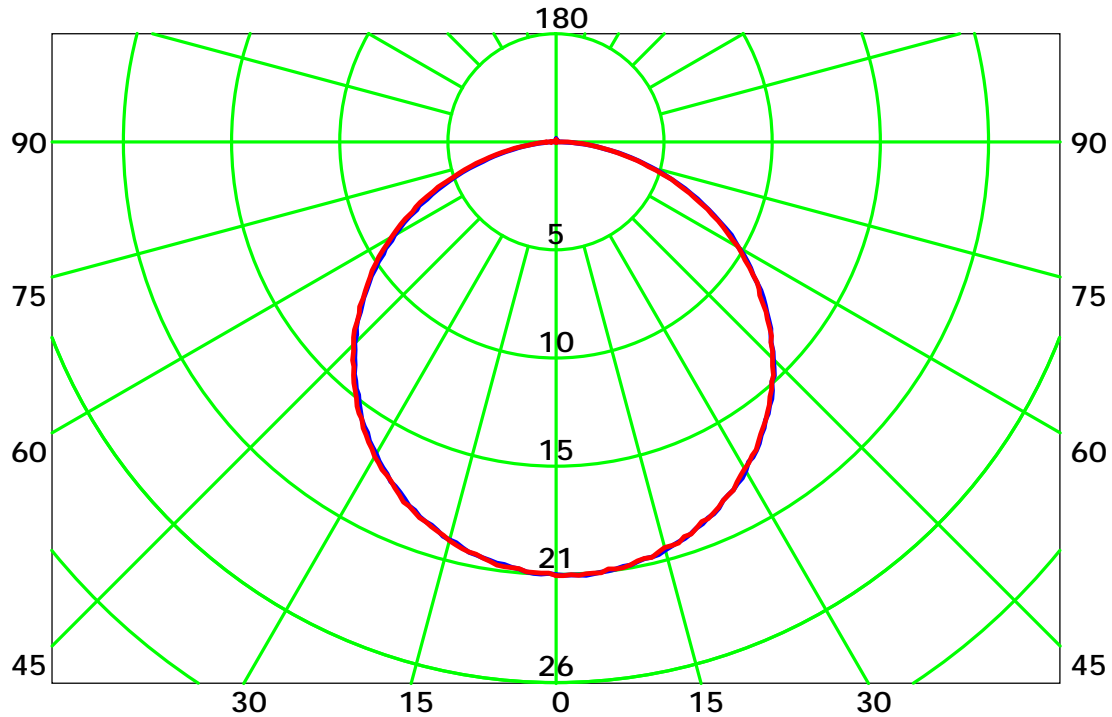
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

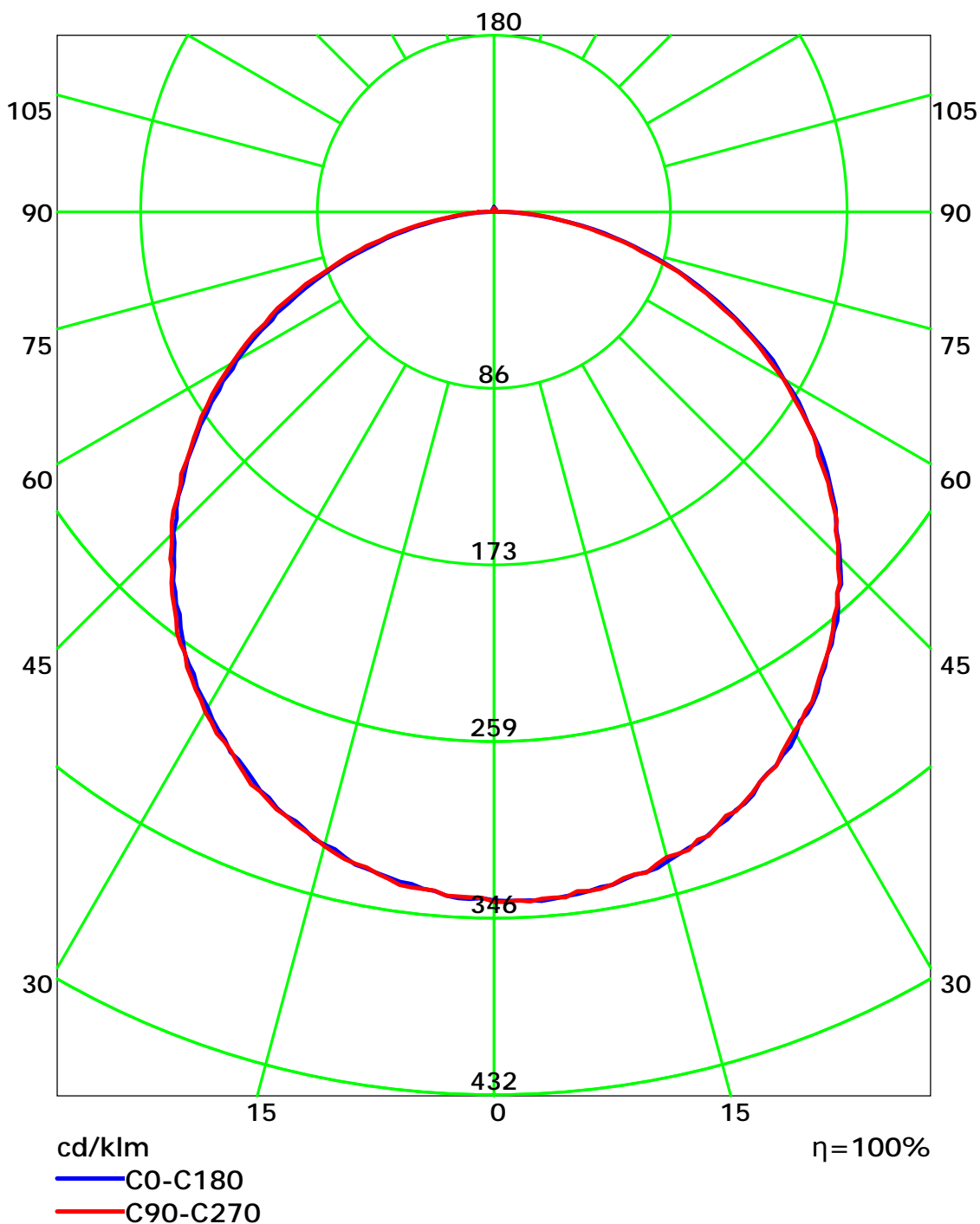
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
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: ACOLYTE
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:

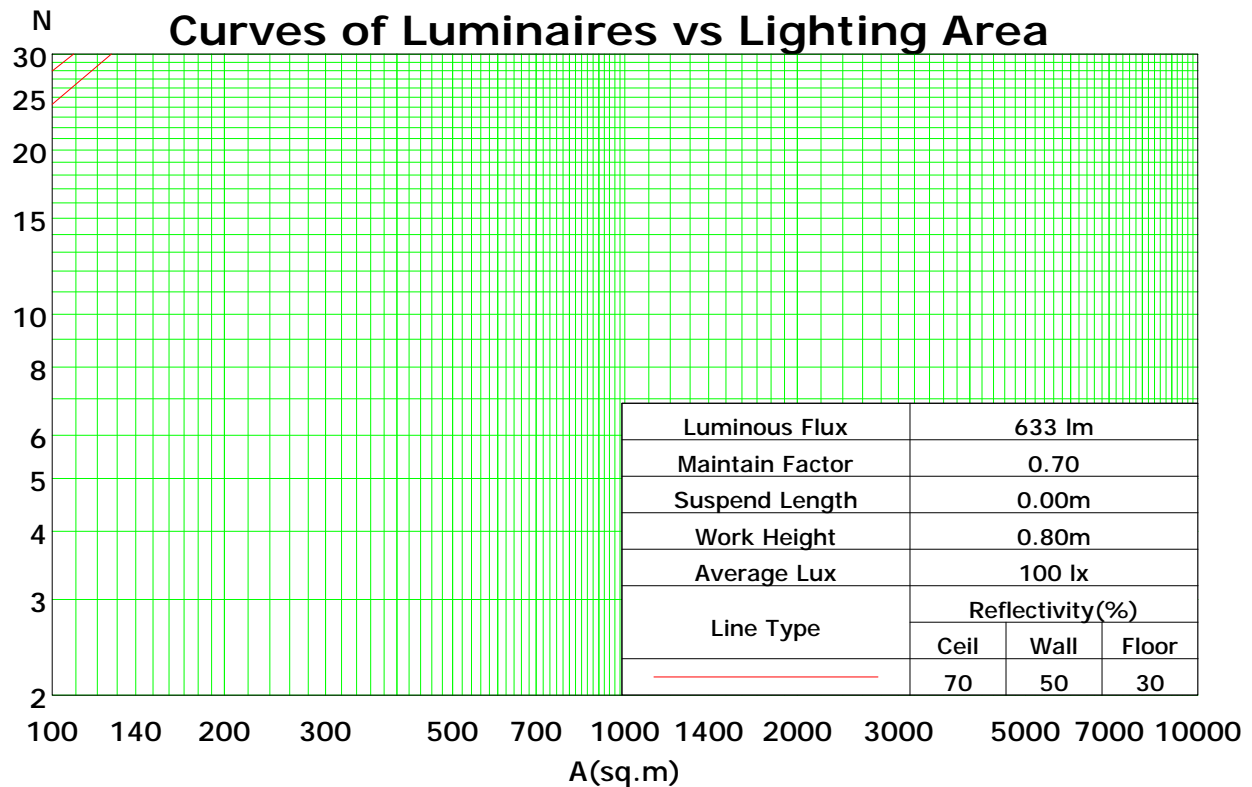
Coefficients Of Utilization - Zonal Cavity Method

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	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.27

Spacing Criteria (Diagonal): 1.39



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

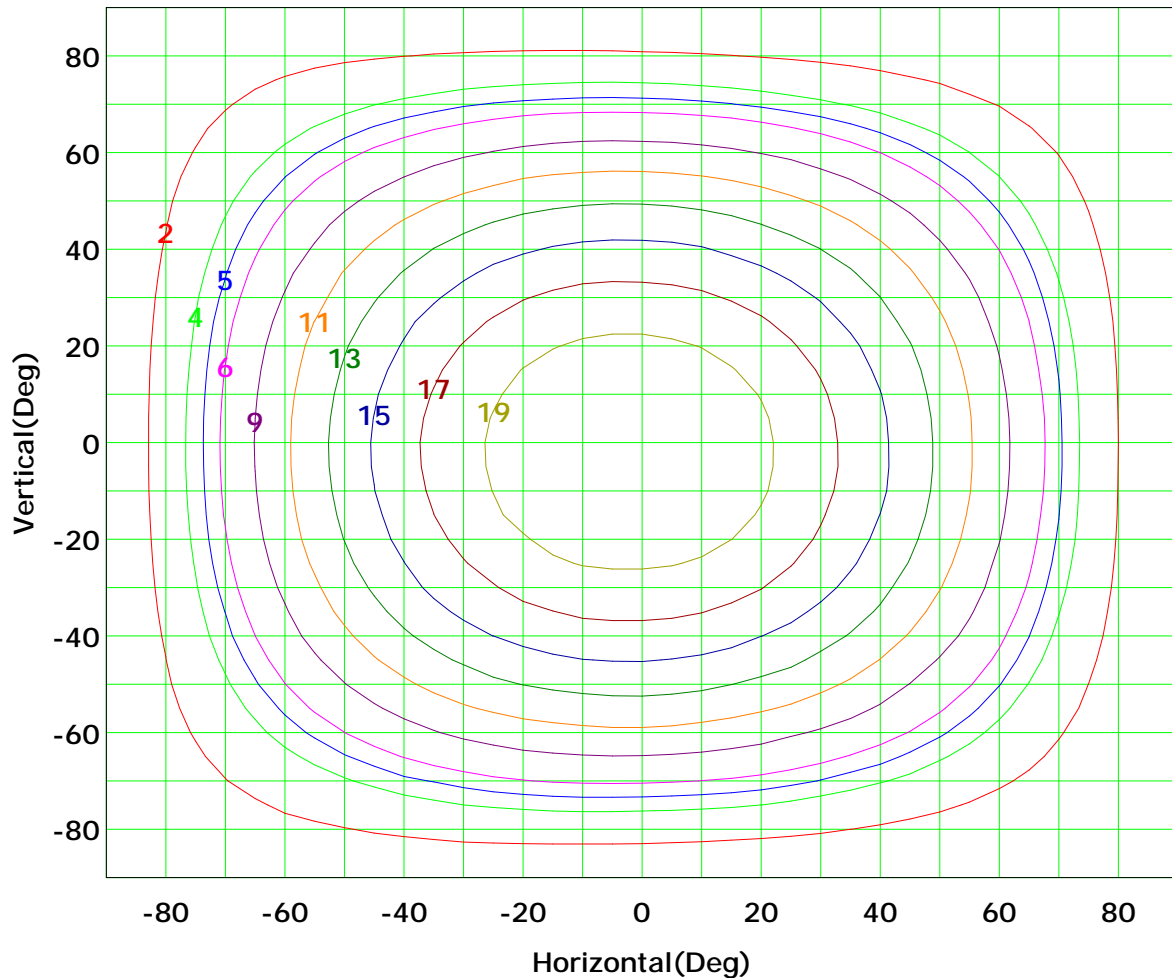
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



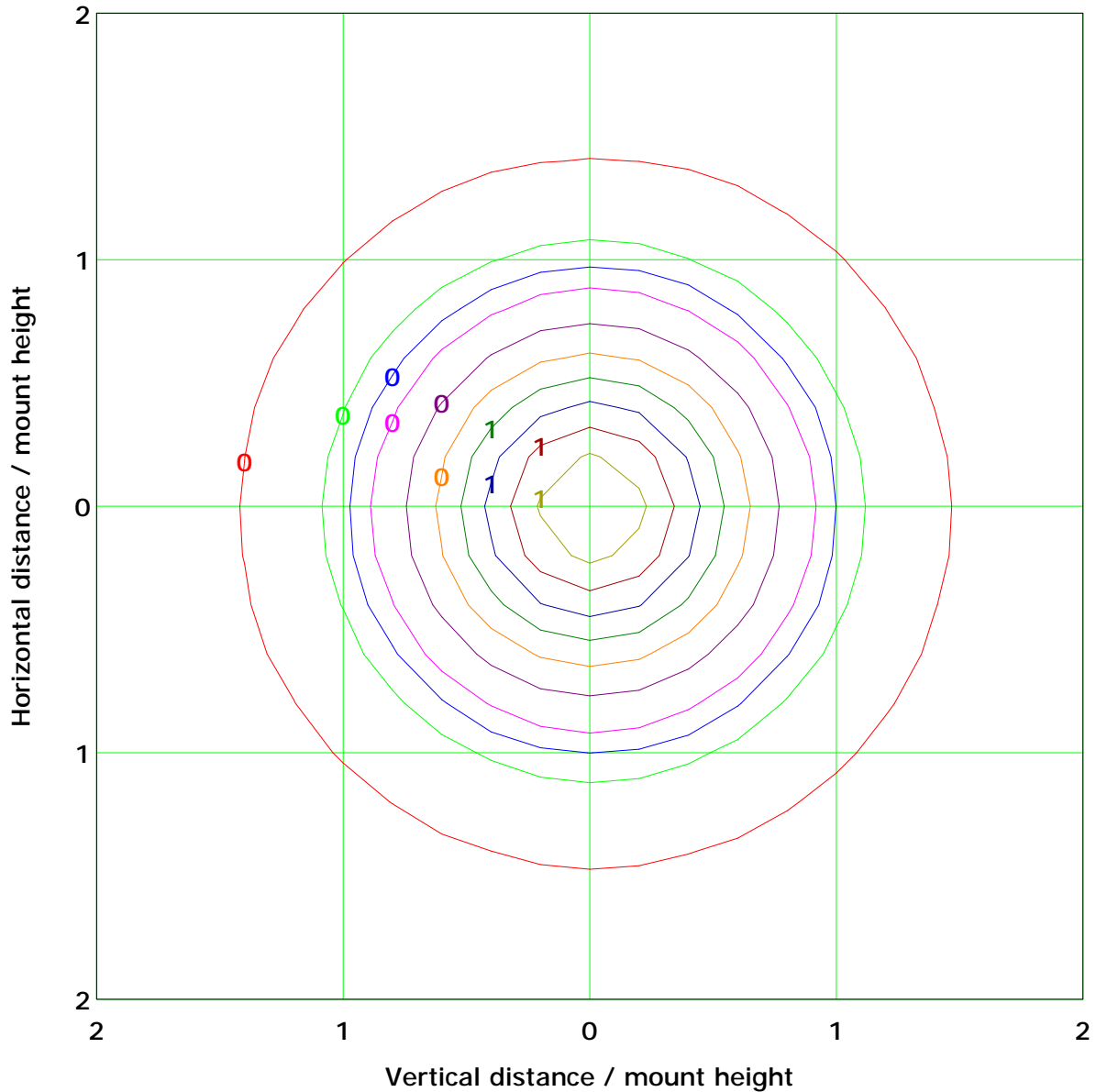
Imax (100%): 21 cd

(10%):	2 cd	(20%):	4 cd
(25%):	5 cd	(30%):	6 cd
(40%):	9 cd	(50%):	11 cd
(60%):	13 cd	(70%):	15 cd
(80%):	17 cd	(90%):	19 cd

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
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%): 0.9 lx

(10%): 0.1 lx	(20%): 0.2 lx
(25%): 0.2 lx	(30%): 0.3 lx
(40%): 0.3 lx	(50%): 0.4 lx
(60%): 0.5 lx	(70%): 0.6 lx
(80%): 0.7 lx	(90%): 0.8 lx

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

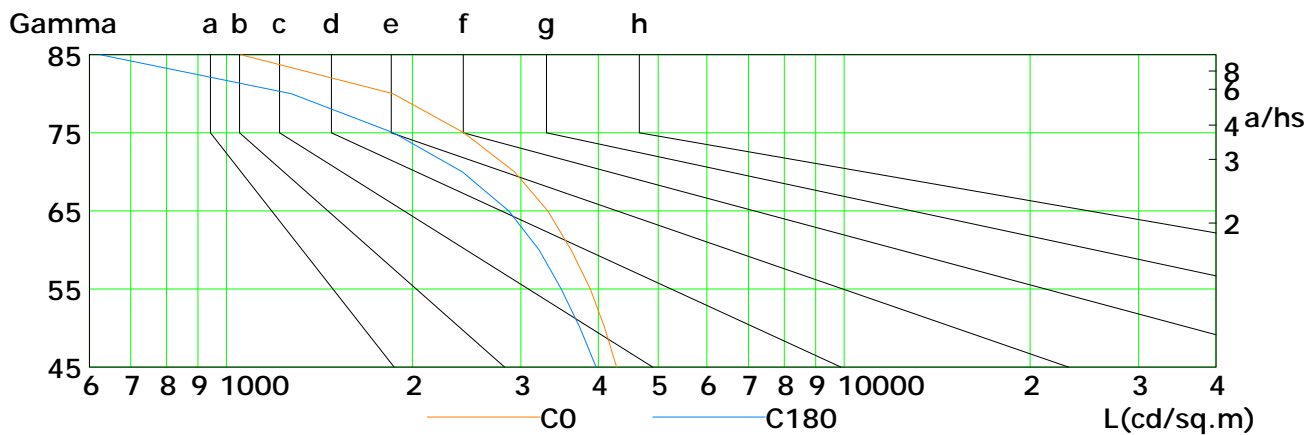
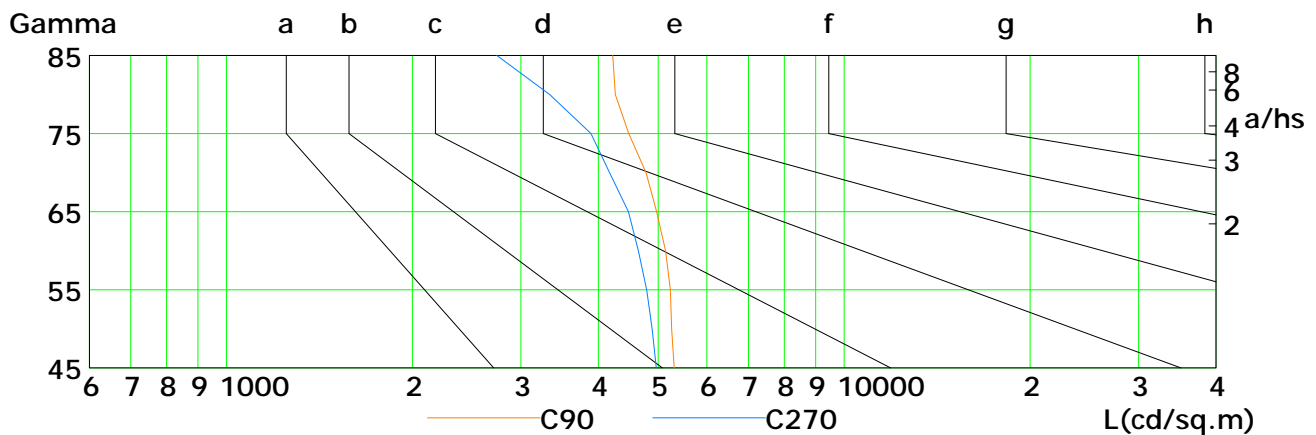
Humidity: 60%

Inspector:

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	4282	4099	3883	3615	3316	2929	2424	1864	1056
C90	5307	5260	5235	5139	4974	4779	4483	4266	4224
C180	3968	3740	3485	3210	2865	2409	1864	1274	625
C270	4969	4893	4793	4648	4475	4172	3893	3336	2743

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0:1.0

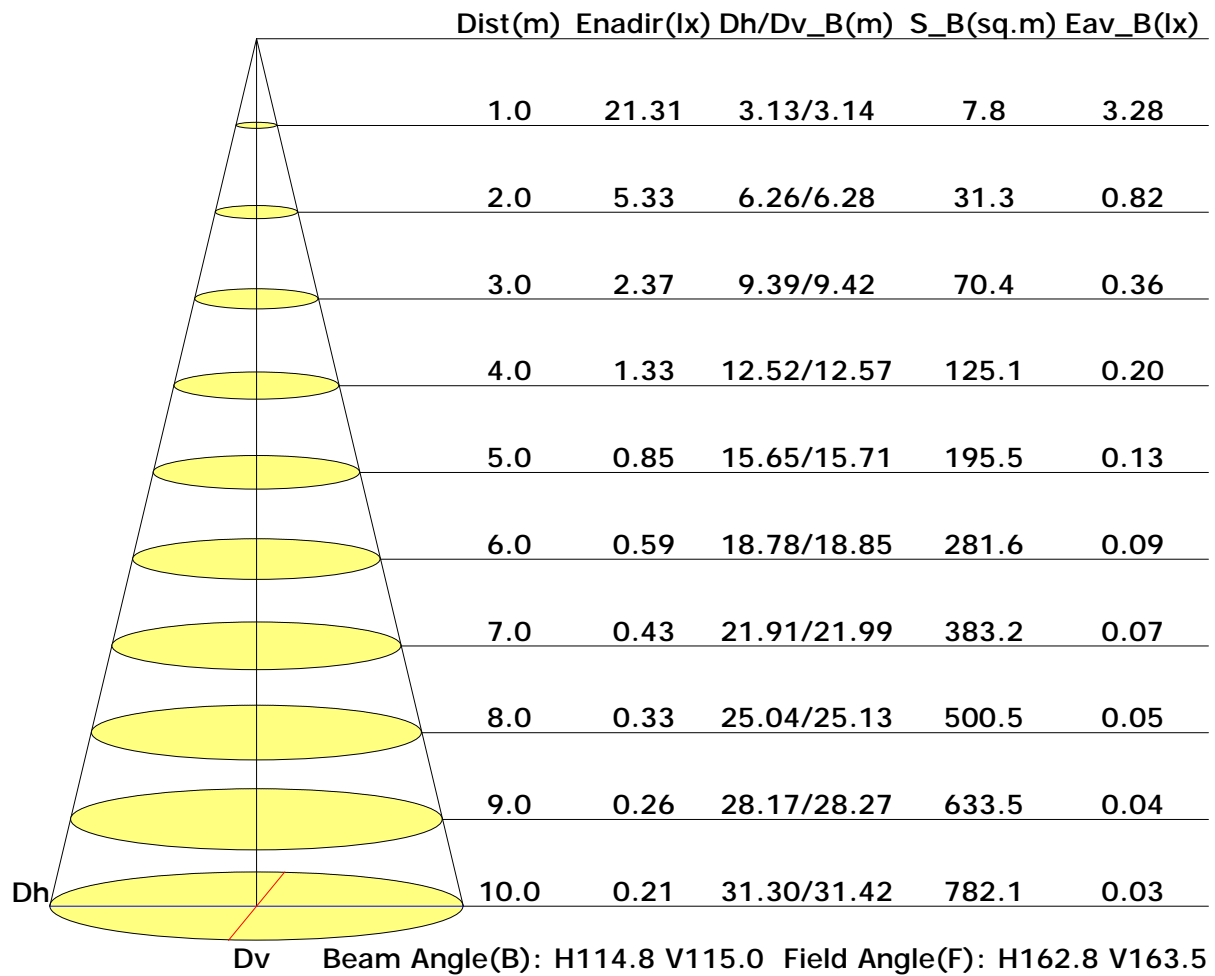
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

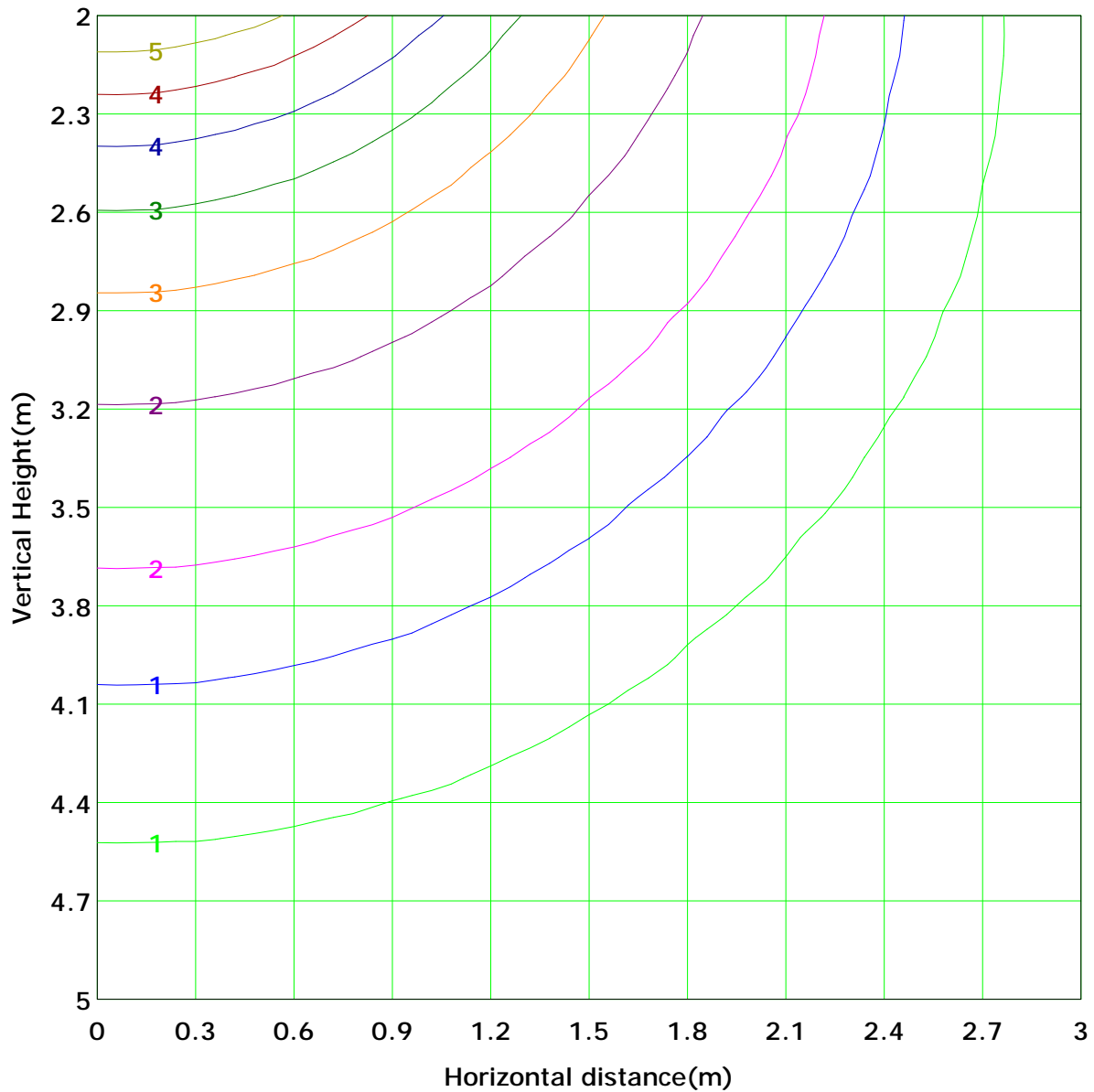
Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 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: 5.3 lx
(10%): 0.5 lx	(20%): 1.1 lx	
(25%): 1.3 lx	(30%): 1.6 lx	
(40%): 2.1 lx	(50%): 2.7 lx	
(60%): 3.2 lx	(70%): 3.7 lx	
(80%): 4.3 lx	(90%): 4.8 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
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

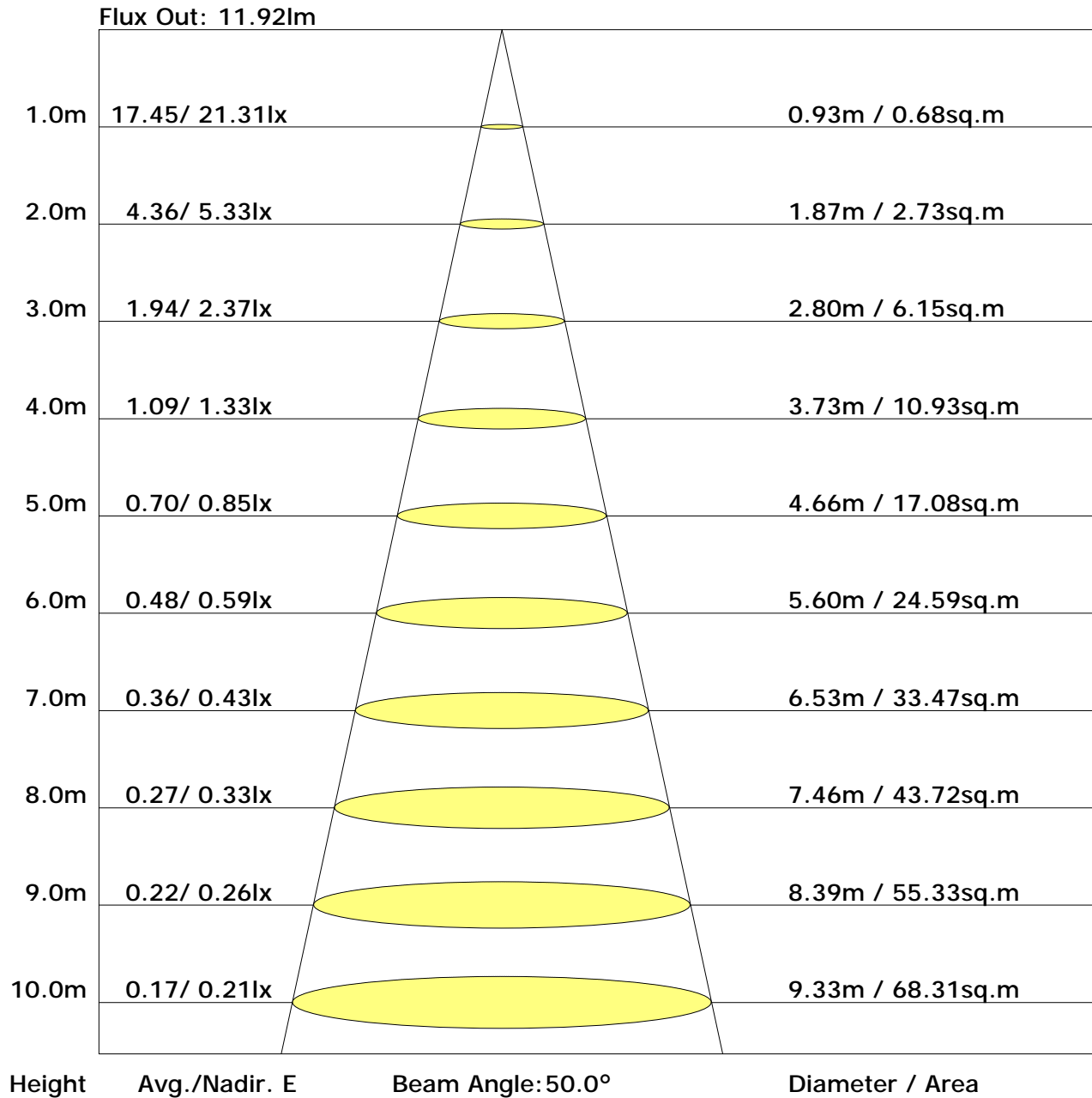
Unit: lm

		Vertical plane																					
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Circ. int.		
Flux(E)	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0
Flux(T)	Flux(E)	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	2.0	2.0
		0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	2.9	2.9
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	3.8	3.8
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	4.5	4.5
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.0	5.0
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.4	5.4
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
Flux(E)	Flux(T)	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	5.7	5.7
		0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0			

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 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:

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 30.0
 Test Lab: ACOLYTE
 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	27.3	29.0	27.7	29.3	29.6	26.6	28.2	26.9	28.5	28.9
3H	29.2	30.7	29.6	31.1	31.4	28.2	29.7	28.6	30.1	30.4
4H	30.0	31.4	30.4	31.8	32.1	28.8	30.2	29.2	30.6	31.0
6H	30.6	31.9	31.0	32.3	32.7	29.2	30.5	29.6	30.9	31.3
8H	30.8	32.0	31.2	32.4	32.8	29.3	30.6	29.8	31.0	31.4
12H	30.9	32.1	31.4	32.5	33.0	29.4	30.6	29.8	31.0	31.4
X=4H Y=2H	27.8	29.2	28.2	29.6	30.0	27.2	28.6	27.6	29.0	29.4
3H	30.0	31.2	30.4	31.6	32.0	29.1	30.3	29.5	30.7	31.1
4H	30.8	31.9	31.3	32.3	32.8	29.8	30.9	30.2	31.3	31.7
6H	31.5	32.5	32.0	32.9	33.4	30.3	31.3	30.8	31.7	32.2
8H	31.8	32.7	32.3	33.1	33.6	30.5	31.3	30.9	31.8	32.3
12H	32.0	32.8	32.5	33.3	33.7	30.6	31.4	31.0	31.8	32.3
X=8H Y=4H	31.1	31.9	31.5	32.4	32.8	30.1	31.0	30.6	31.4	31.9
6H	31.8	32.6	32.4	33.1	33.6	30.7	31.5	31.2	31.9	32.4
8H	32.2	32.8	32.7	33.4	33.8	30.9	31.6	31.4	32.1	32.6
12H	32.5	33.0	33.0	33.5	34.1	31.1	31.7	31.6	32.2	32.7
X=12H Y=4H	31.1	31.9	31.5	32.3	32.8	30.1	30.9	30.6	31.4	31.9
6H	31.9	32.6	32.4	33.0	33.6	30.8	31.4	31.3	31.9	32.5
8H	32.3	32.8	32.8	33.3	33.9	31.0	31.6	31.5	32.1	32.7

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 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 = 1.25								
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	0.56	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03
	0.30		0.47	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.92	0.96
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.52	0.62	0.69	0.73	0.80	0.85	0.88	0.92	0.95
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.39	0.48	0.55	0.61	0.68	0.73	0.77	0.82	0.85
Rating: 1W 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 = 1.25									
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	1.02	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.73	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.52	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating: 1W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 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(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
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	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.19	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16
0.30	0.50	0.20	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rating: 1W 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	21.3	0.0	0.0	0.03	0.03
1.0-2.0	21.3	0.1	0.1	0.10	0.13
2.0-3.0	21.3	0.1	0.2	0.16	0.29
3.0-4.0	21.3	0.1	0.3	0.23	0.52
4.0-5.0	21.2	0.2	0.5	0.29	0.81
5.0-6.0	21.2	0.2	0.7	0.35	1.16
6.0-7.0	21.2	0.3	1.0	0.42	1.57
7.0-8.0	21.1	0.3	1.3	0.48	2.05
8.0-9.0	21.1	0.3	1.6	0.54	2.59
9.0-10.0	21.0	0.4	2.0	0.60	3.20
10.0-11.0	20.9	0.4	2.4	0.66	3.86
11.0-12.0	20.8	0.5	2.9	0.72	4.58
12.0-13.0	20.8	0.5	3.4	0.78	5.36
13.0-14.0	20.7	0.5	3.9	0.84	6.20
14.0-15.0	20.6	0.6	4.5	0.90	7.10
15.0-16.0	20.5	0.6	5.1	0.95	8.05
16.0-17.0	20.4	0.6	5.7	1.01	9.05
17.0-18.0	20.3	0.7	6.4	1.06	10.11
18.0-19.0	20.1	0.7	7.1	1.11	11.22
19.0-20.0	20.0	0.7	7.8	1.16	12.38
20.0-21.0	19.9	0.8	8.6	1.21	13.59
21.0-22.0	19.7	0.8	9.4	1.26	14.84
22.0-23.0	19.6	0.8	10.2	1.30	16.14
23.0-24.0	19.4	0.8	11.0	1.34	17.49
24.0-25.0	19.3	0.9	11.9	1.39	18.88
25.0-26.0	19.1	0.9	12.8	1.43	20.30
26.0-27.0	18.9	0.9	13.7	1.46	21.77
27.0-28.0	18.7	0.9	14.7	1.50	23.27
28.0-29.0	18.5	1.0	15.7	1.54	24.80
29.0-30.0	18.3	1.0	16.6	1.57	26.37
30.0-31.0	18.1	1.0	17.7	1.60	27.97
31.0-32.0	17.9	1.0	18.7	1.63	29.60
32.0-33.0	17.7	1.0	19.7	1.65	31.25
33.0-34.0	17.5	1.1	20.8	1.68	32.93
34.0-35.0	17.3	1.1	21.9	1.70	34.63
35.0-36.0	17.1	1.1	22.9	1.72	36.35

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	16.8	1.1	24.0	1.74	38.09
37.0-38.0	16.6	1.1	25.2	1.75	39.84
38.0-39.0	16.3	1.1	26.3	1.76	41.60
39.0-40.0	16.1	1.1	27.4	1.78	43.38
40.0-41.0	15.8	1.1	28.5	1.78	45.16
41.0-42.0	15.5	1.1	29.6	1.79	46.95
42.0-43.0	15.3	1.1	30.8	1.79	48.74
43.0-44.0	15.0	1.1	31.9	1.79	50.53
44.0-45.0	14.7	1.1	33.0	1.79	52.32
45.0-46.0	14.4	1.1	34.2	1.79	54.11
46.0-47.0	14.2	1.1	35.3	1.78	55.90
47.0-48.0	13.9	1.1	36.4	1.78	57.67
48.0-49.0	13.6	1.1	37.5	1.76	59.44
49.0-50.0	13.3	1.1	38.6	1.75	61.19
50.0-51.0	13.0	1.1	39.7	1.74	62.92
51.0-52.0	12.6	1.1	40.8	1.72	64.64
52.0-53.0	12.3	1.1	41.9	1.70	66.34
53.0-54.0	12.0	1.1	42.9	1.68	68.02
54.0-55.0	11.7	1.0	44.0	1.65	69.67
55.0-56.0	11.3	1.0	45.0	1.62	71.29
56.0-57.0	11.0	1.0	46.0	1.59	72.89
57.0-58.0	10.7	1.0	47.0	1.57	74.45
58.0-59.0	10.3	1.0	48.0	1.53	75.99
59.0-60.0	10.0	0.9	48.9	1.50	77.48
60.0-61.0	9.7	0.9	49.8	1.46	78.94
61.0-62.0	9.3	0.9	50.7	1.42	80.36
62.0-63.0	8.9	0.9	51.6	1.38	81.74
63.0-64.0	8.6	0.8	52.4	1.33	83.07
64.0-65.0	8.2	0.8	53.3	1.29	84.36
65.0-66.0	7.9	0.8	54.0	1.24	85.60
66.0-67.0	7.5	0.8	54.8	1.19	86.79
67.0-68.0	7.1	0.7	55.5	1.14	87.93
68.0-69.0	6.8	0.7	56.2	1.09	89.03
69.0-70.0	6.4	0.7	56.9	1.04	90.07
70.0-71.0	6.0	0.6	57.5	0.99	91.05
71.0-72.0	5.7	0.6	58.1	0.93	91.99

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	5.3	0.6	58.6	0.88	92.86
73.0-74.0	4.9	0.5	59.1	0.82	93.68
74.0-75.0	4.6	0.5	59.6	0.76	94.44
75.0-76.0	4.2	0.4	60.1	0.71	95.15
76.0-77.0	3.9	0.4	60.5	0.65	95.80
77.0-78.0	3.5	0.4	60.9	0.60	96.40
78.0-79.0	3.2	0.3	61.2	0.54	96.94
79.0-80.0	2.8	0.3	61.5	0.49	97.42
80.0-81.0	2.5	0.3	61.8	0.44	97.86
81.0-82.0	2.2	0.2	62.0	0.38	98.24
82.0-83.0	1.9	0.2	62.2	0.33	98.57
83.0-84.0	1.6	0.2	62.4	0.28	98.85
84.0-85.0	1.4	0.2	62.6	0.24	99.10
85.0-86.0	1.2	0.1	62.7	0.20	99.30
86.0-87.0	0.9	0.1	62.8	0.16	99.46
87.0-88.0	0.7	0.1	62.9	0.12	99.58
88.0-89.0	0.5	0.1	62.9	0.09	99.68
89.0-90.0	0.4	0.0	63.0	0.07	99.74
90.0-91.0	0.3	0.0	63.0	0.05	99.79
91.0-92.0	0.2	0.0	63.0	0.04	99.82
92.0-93.0	0.1	0.0	63.0	0.03	99.85
93.0-94.0	0.1	0.0	63.1	0.02	99.87
94.0-95.0	0.1	0.0	63.1	0.01	99.88
95.0-96.0	0.0	0.0	63.1	0.01	99.89
96.0-97.0	0.0	0.0	63.1	0.00	99.89
97.0-98.0	0.0	0.0	63.1	0.00	99.89
98.0-99.0	0.0	0.0	63.1	0.00	99.89
99.0-100.0	0.0	0.0	63.1	0.00	99.89
100.0-101.0	0.0	0.0	63.1	0.00	99.89
101.0-102.0	0.0	0.0	63.1	0.00	99.89
102.0-103.0	0.0	0.0	63.1	0.00	99.89
103.0-104.0	0.0	0.0	63.1	0.00	99.89
104.0-105.0	0.0	0.0	63.1	0.00	99.89
105.0-106.0	0.0	0.0	63.1	0.00	99.89
106.0-107.0	0.0	0.0	63.1	0.00	99.89
107.0-108.0	0.0	0.0	63.1	0.00	99.89

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.0	0.0	63.1	0.00	99.89
109.0-110.0	0.0	0.0	63.1	0.00	99.90
110.0-111.0	0.0	0.0	63.1	0.00	99.90
111.0-112.0	0.0	0.0	63.1	0.00	99.90
112.0-113.0	0.0	0.0	63.1	0.00	99.90
113.0-114.0	0.0	0.0	63.1	0.00	99.90
114.0-115.0	0.0	0.0	63.1	0.00	99.90
115.0-116.0	0.0	0.0	63.1	0.00	99.90
116.0-117.0	0.0	0.0	63.1	0.00	99.90
117.0-118.0	0.0	0.0	63.1	0.00	99.90
118.0-119.0	0.0	0.0	63.1	0.00	99.90
119.0-120.0	0.0	0.0	63.1	0.00	99.90
120.0-121.0	0.0	0.0	63.1	0.00	99.90
121.0-122.0	0.0	0.0	63.1	0.00	99.90
122.0-123.0	0.0	0.0	63.1	0.00	99.90
123.0-124.0	0.0	0.0	63.1	0.00	99.90
124.0-125.0	0.0	0.0	63.1	0.00	99.91
125.0-126.0	0.0	0.0	63.1	0.00	99.91
126.0-127.0	0.0	0.0	63.1	0.00	99.91
127.0-128.0	0.0	0.0	63.1	0.00	99.91
128.0-129.0	0.0	0.0	63.1	0.00	99.91
129.0-130.0	0.0	0.0	63.1	0.00	99.91
130.0-131.0	0.0	0.0	63.1	0.00	99.92
131.0-132.0	0.0	0.0	63.1	0.00	99.92
132.0-133.0	0.0	0.0	63.1	0.00	99.92
133.0-134.0	0.0	0.0	63.1	0.00	99.92
134.0-135.0	0.0	0.0	63.1	0.00	99.92
135.0-136.0	0.0	0.0	63.1	0.00	99.92
136.0-137.0	0.0	0.0	63.1	0.00	99.92
137.0-138.0	0.0	0.0	63.1	0.00	99.93
138.0-139.0	0.0	0.0	63.1	0.00	99.93
139.0-140.0	0.0	0.0	63.1	0.00	99.93
140.0-141.0	0.0	0.0	63.1	0.00	99.93
141.0-142.0	0.0	0.0	63.1	0.00	99.94
142.0-143.0	0.0	0.0	63.1	0.00	99.94
143.0-144.0	0.0	0.0	63.1	0.00	99.94

C Plane (°):0.0-360.0: 30.0
 Test Lab: ACOLYTE
 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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.0	0.0	63.1	0.00	99.94
145.0-146.0	0.0	0.0	63.1	0.00	99.95
146.0-147.0	0.0	0.0	63.1	0.00	99.95
147.0-148.0	0.0	0.0	63.1	0.00	99.95
148.0-149.0	0.0	0.0	63.1	0.00	99.95
149.0-150.0	0.0	0.0	63.1	0.00	99.95
150.0-151.0	0.0	0.0	63.1	0.00	99.96
151.0-152.0	0.0	0.0	63.1	0.00	99.96
152.0-153.0	0.0	0.0	63.1	0.00	99.96
153.0-154.0	0.0	0.0	63.1	0.00	99.96
154.0-155.0	0.0	0.0	63.1	0.00	99.97
155.0-156.0	0.0	0.0	63.1	0.00	99.97
156.0-157.0	0.0	0.0	63.1	0.00	99.97
157.0-158.0	0.0	0.0	63.1	0.00	99.97
158.0-159.0	0.0	0.0	63.1	0.00	99.97
159.0-160.0	0.0	0.0	63.1	0.00	99.98
160.0-161.0	0.0	0.0	63.1	0.00	99.98
161.0-162.0	0.0	0.0	63.1	0.00	99.98
162.0-163.0	0.0	0.0	63.1	0.00	99.98
163.0-164.0	0.0	0.0	63.1	0.00	99.98
164.0-165.0	0.0	0.0	63.1	0.00	99.99
165.0-166.0	0.0	0.0	63.1	0.00	99.99
166.0-167.0	0.0	0.0	63.1	0.00	99.99
167.0-168.0	0.0	0.0	63.1	0.00	99.99
168.0-169.0	0.0	0.0	63.1	0.00	99.99
169.0-170.0	0.0	0.0	63.1	0.00	99.99
170.0-171.0	0.0	0.0	63.1	0.00	99.99
171.0-172.0	0.0	0.0	63.1	0.00	100.00
172.0-173.0	0.0	0.0	63.1	0.00	100.00
173.0-174.0	0.1	0.0	63.1	0.00	100.00
174.0-175.0	0.1	0.0	63.1	0.00	100.00
175.0-176.0	0.0	0.0	63.1	0.00	100.00
176.0-177.0	0.0	0.0	63.1	0.00	100.00
177.0-178.0	0.1	0.0	63.1	0.00	100.00
178.0-179.0	0.0	0.0	63.1	0.00	100.00
179.0-180.0	0.0	0.0	63.1	0.00	100.00

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

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: