

Report No.: 01

Test Time: 2016/9/2 16:26

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Linearlyte

Luminaire Description: PS1 3500K LO

Luminous Length (mm): 600

Luminous Height (mm):

Current: 0.034 A

Power Factor: 0.934

Luminous Width (mm):

Voltage: 219.8 V

Power: 6.88 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 429.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H103.2

Vertical Diffuse Angle(50%): V107.2

Luminaire Efficacy Rating (LER): 62

Max. Intensity: 162.84 cd

Total Rated Lamp Lumens: 429.4 lm

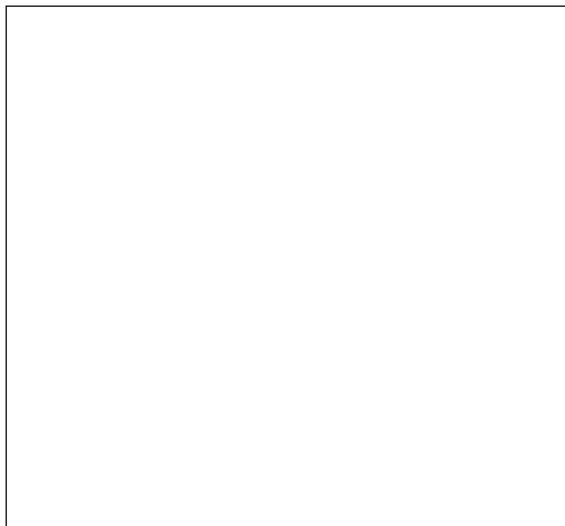
Efficiency: 100%

Upward Ratio: 1%

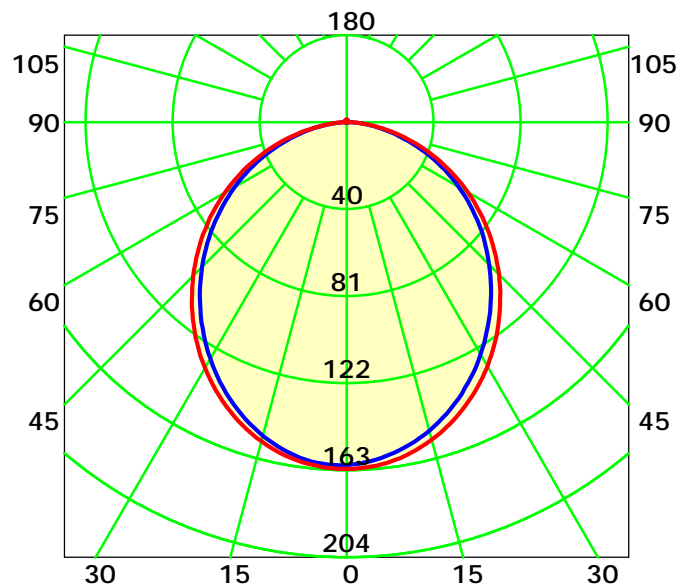
Central Intensity: 161.03 cd

Pos of Max. Intensity: H270 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 105.2° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0: 1.0

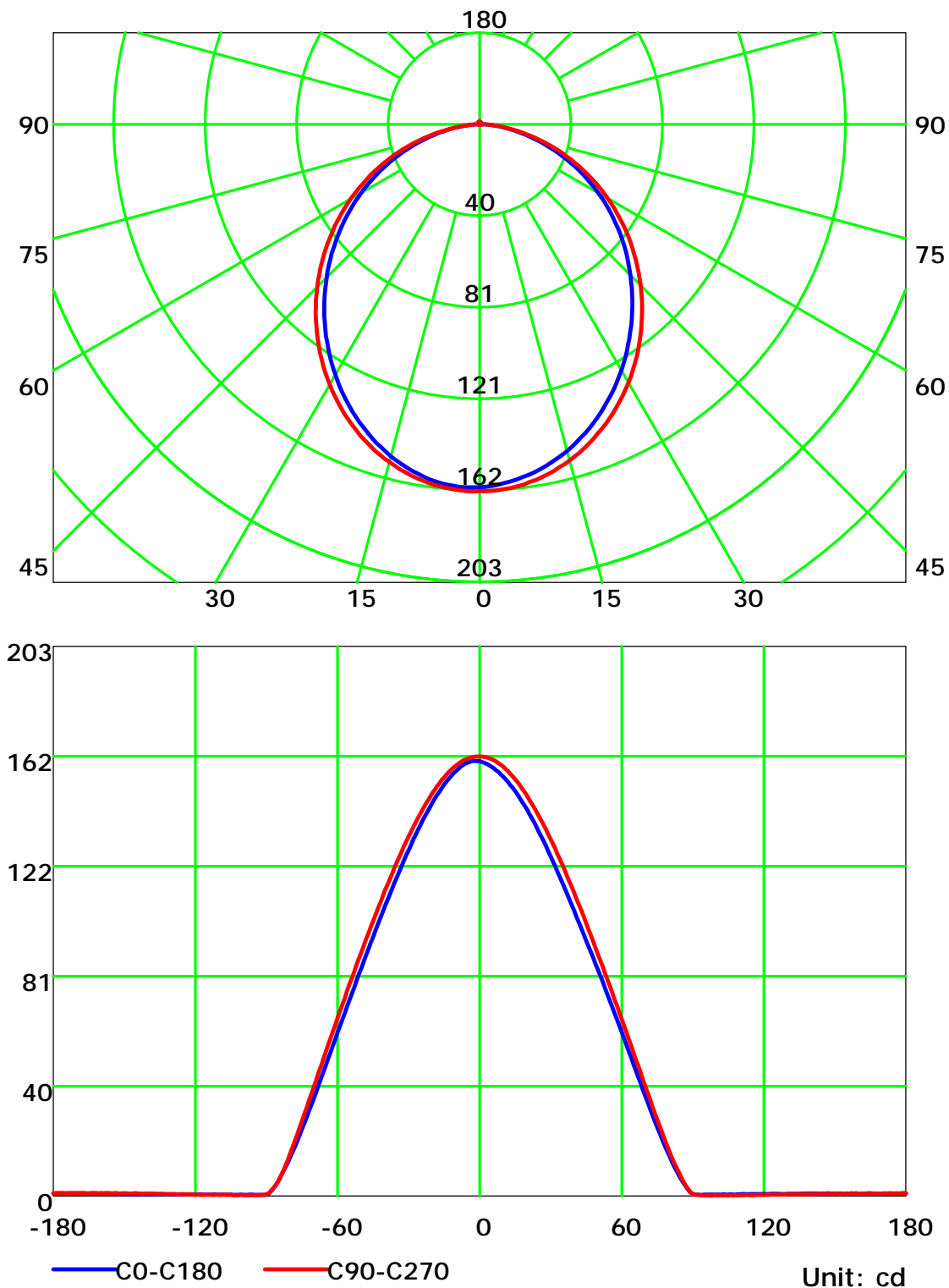
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

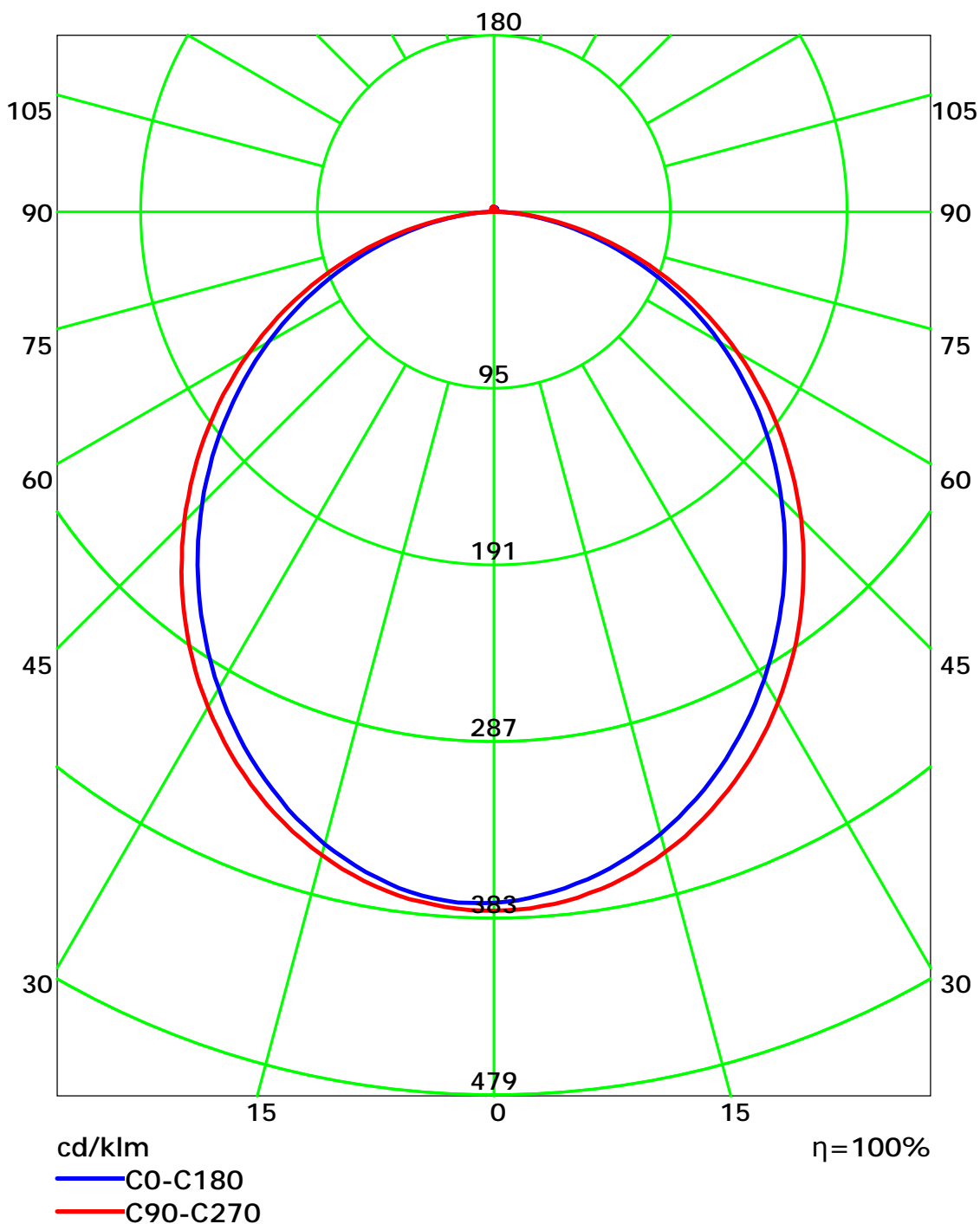
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
Test Lab: ACOLYTE  
Test Type: TYPE C  
Temperature: 24°C  
Operator:

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: 24°C  
Operator:

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

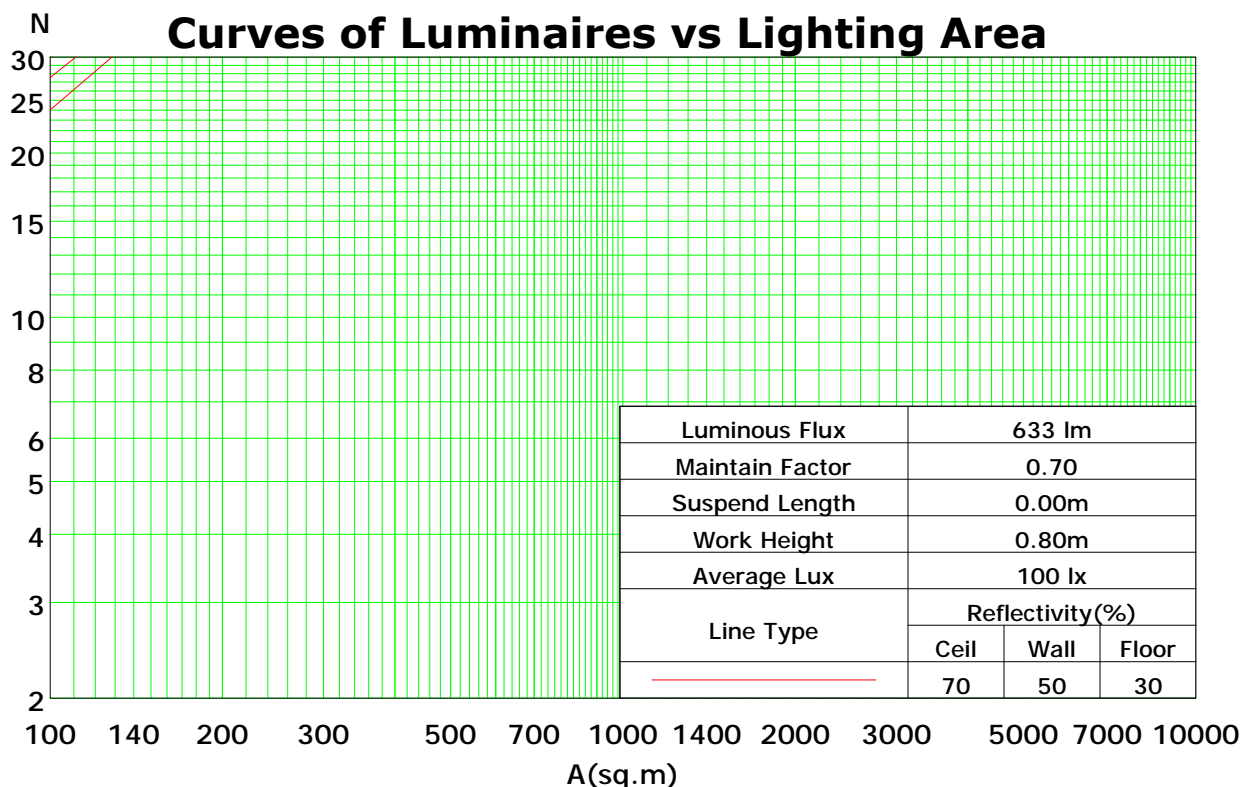
## Coefficients Of Utilization - Zonal Cavity Method

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	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	89	87	85	83
2	99	91	84	78	96	89	83	77	85	80	75	82	77	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	46	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

Spacing Criteria (0-180): 1.18

Spacing Criteria (90-270): 1.22

Spacing Criteria (Diagonal): 1.32



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

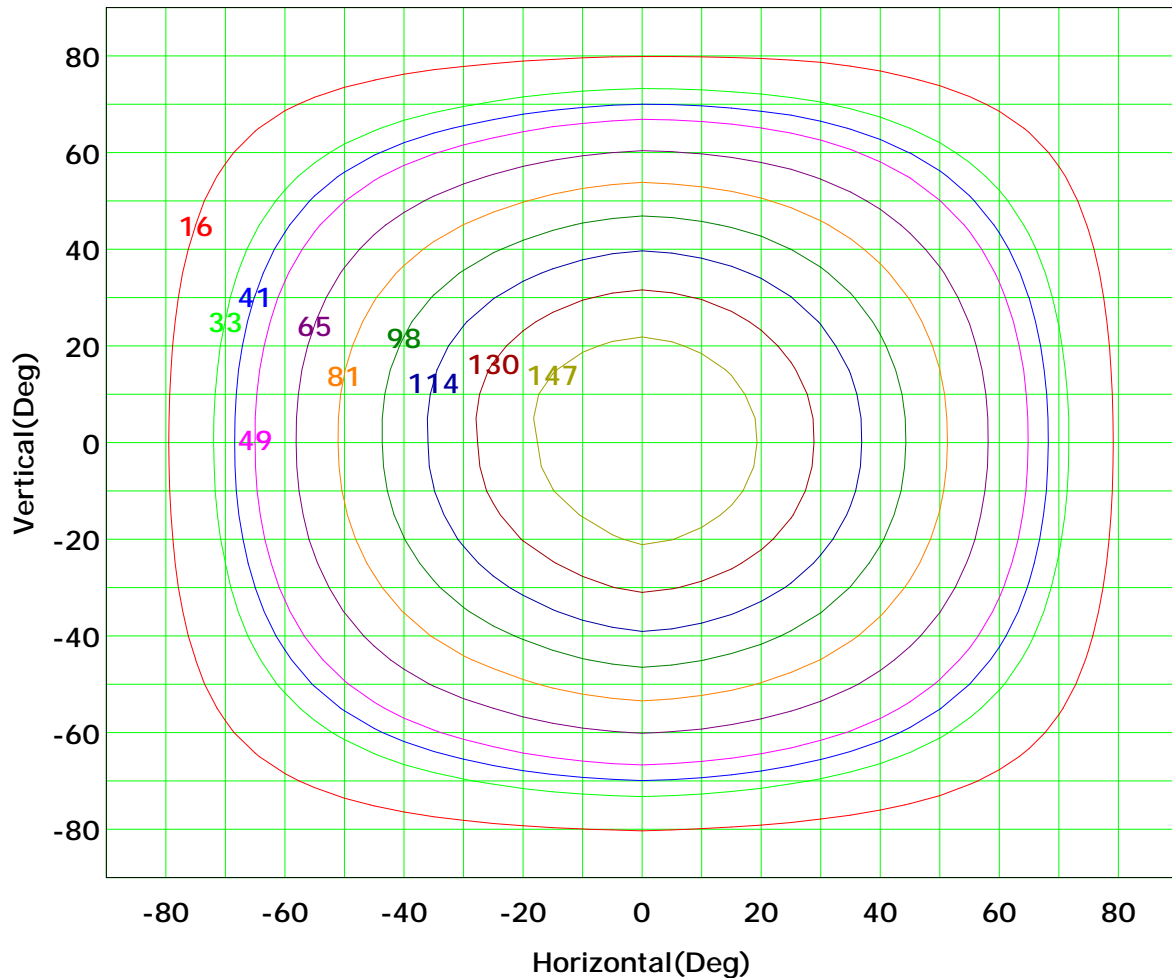
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



I<sub>max</sub> (100%): 163 cd

( 10%):	16 cd	( 20%):	33 cd
( 25%):	41 cd	( 30%):	49 cd
( 40%):	65 cd	( 50%):	81 cd
( 60%):	98 cd	( 70%):	114 cd
( 80%):	130 cd	( 90%):	147 cd

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

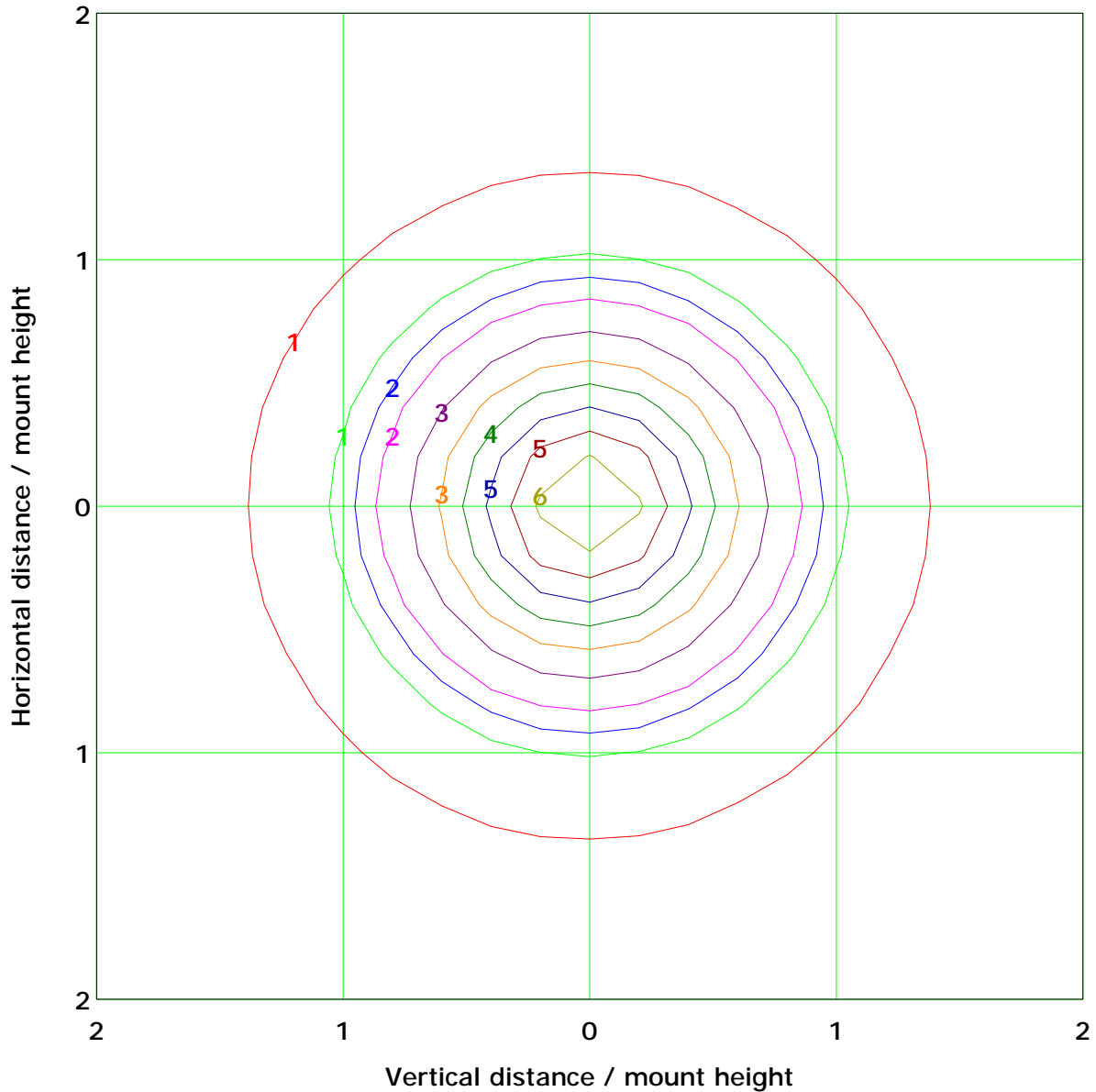
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 6.5 lx

( 10%): 0.7 lx	( 20%): 1.3 lx
( 25%): 1.6 lx	( 30%): 2.0 lx
( 40%): 2.6 lx	( 50%): 3.3 lx
( 60%): 3.9 lx	( 70%): 4.6 lx
( 80%): 5.2 lx	( 90%): 5.9 lx

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

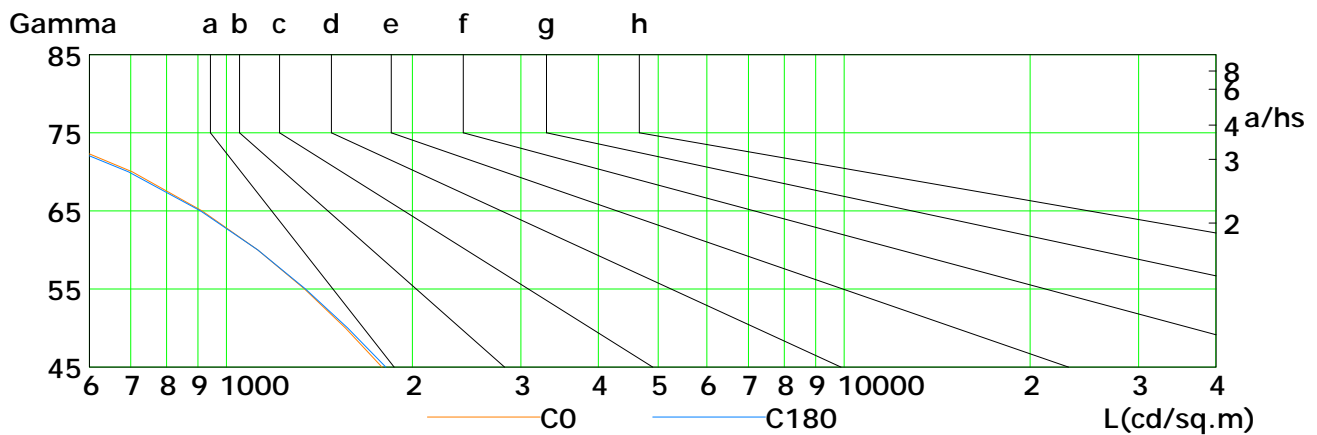
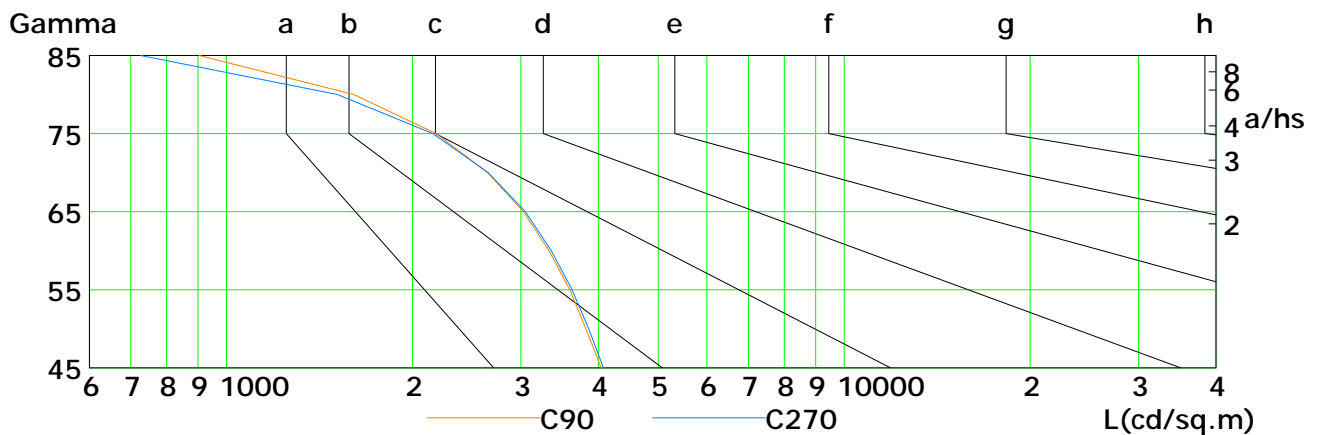
Humidity: 60%

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	1786	1560	1338	1124	914	704	499	307	136
C90	4045	3821	3599	3329	3028	2650	2186	1609	904
C180	1813	1572	1343	1124	908	694	490	293	121
C270	4077	3861	3630	3356	3048	2654	2161	1513	727

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

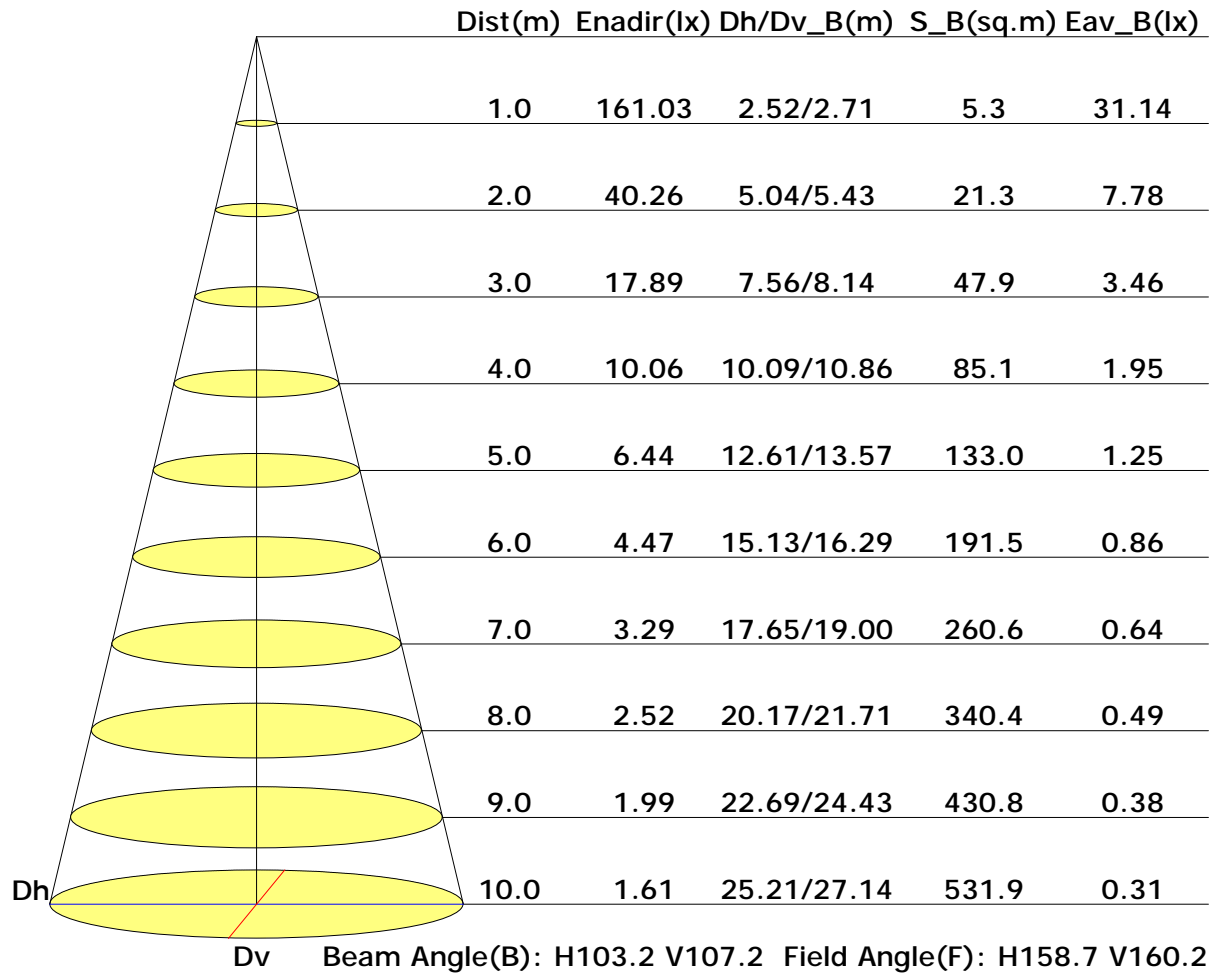
Test Device: GPM-1800B

Distance: 9.028 m

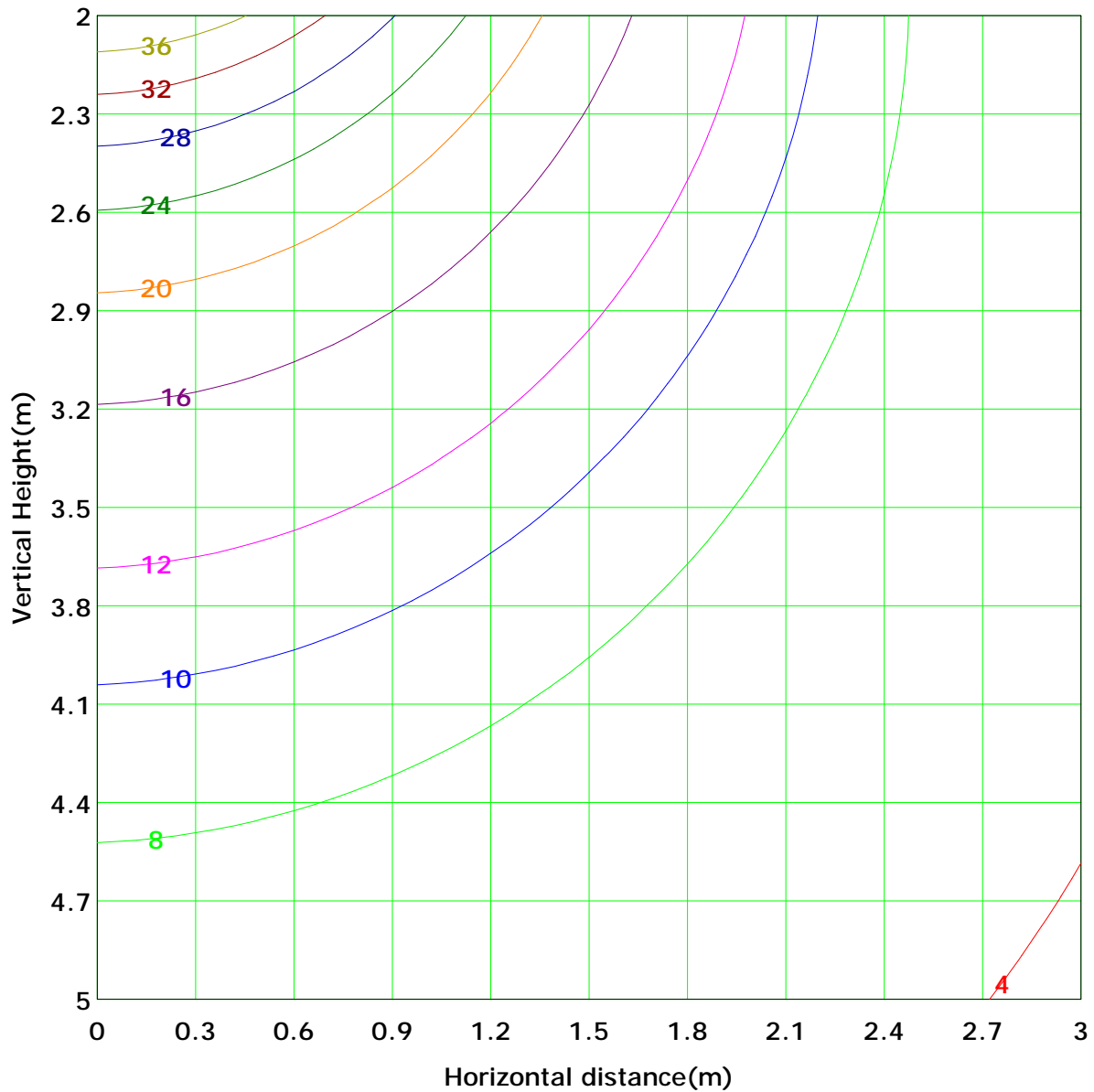
Humidity: 60%

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 40.3 lx
( 10%): 4.0 lx	( 20%): 8.1 lx	
( 25%): 10.1 lx	( 30%): 12.1 lx	
( 40%): 16.1 lx	( 50%): 20.1 lx	
( 60%): 24.2 lx	( 70%): 28.2 lx	
( 80%): 32.2 lx	( 90%): 36.2 lx	

C Plane (°):0.0-360.0: 30.0  
Test Lab: ACOLYTE  
Test Type: TYPE C  
Temperature: 24°C  
Operator:

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



## Area Flux Table

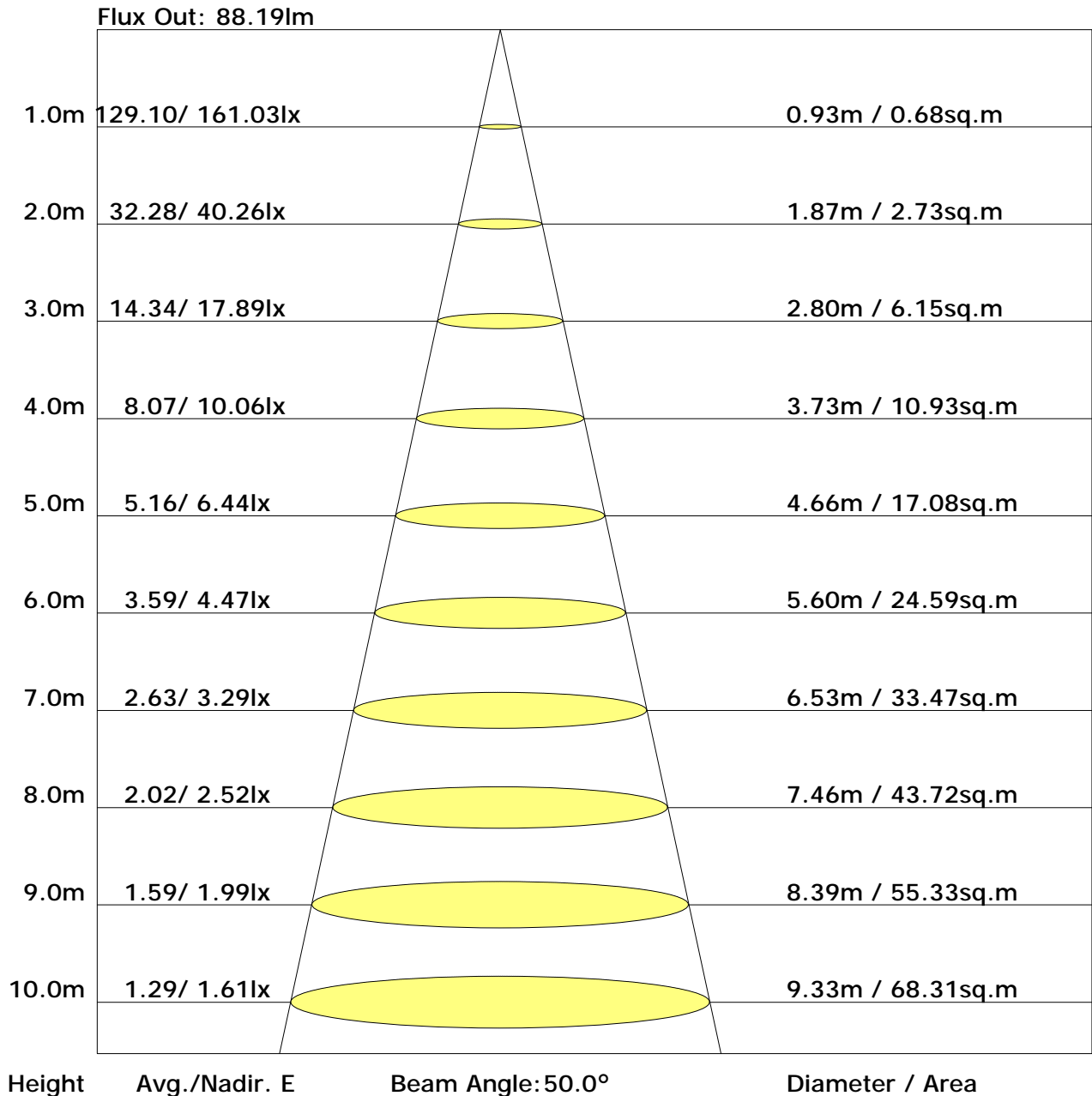
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.0
		0.0	0.0	0.1	0.2	0.4	0.5	0.7	0.8	0.8	0.8	0.8	0.8	0.6	0.5	0.4	0.3	0.2	0.1	0.0	2.2	1.6
		0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.6	1.6	1.6	1.5	1.2	1.0	0.7	0.6	0.4	0.3	0.0	6.7	6.2
		0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.1	2.3	2.3	2.3	2.1	1.8	1.4	1.0	0.7	0.5	0.3	0.0	13.5	13.0
		0.0	0.1	0.4	0.8	1.3	1.9	2.4	2.8	3.3	3.6	3.7	3.7	3.2	2.5	1.8	1.4	1.0	0.7	0.0	21.5	21.0
		0.0	0.2	0.6	1.1	1.8	2.6	3.3	3.6	3.9	4.2	4.2	4.2	3.5	2.8	2.0	1.5	1.0	0.5	0.0	30.8	30.3
		0.0	0.2	0.6	1.2	2.0	2.8	3.6	4.3	4.6	4.6	4.6	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	39.5	39.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	46.4	46.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	50.4	50.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	50.2	50.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	45.9	45.5
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	38.9	38.5
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	30.3	30.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	21.4	21.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	13.5	13.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	6.7	6.3
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	2.2	1.6
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	0.3	0.0
		0.0	0.2	0.6	1.3	2.1	2.9	3.8	4.4	4.8	4.8	4.8	4.4	3.7	2.9	2.0	1.6	1.1	0.6	0.0	425	417

C Plane (°):0.0-360.0: 30.0  
Test Lab: ACOLYTE  
Test Type: TYPE C  
Temperature: 24°C  
Operator:

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: 24°C  
Operator:

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	17.4	19.0	17.8	19.4	19.7	15.9	17.5	16.3	17.9	18.2
3H	19.0	20.5	19.4	20.8	21.2	17.3	18.7	17.6	19.0	19.4
4H	19.6	21.0	20.0	21.3	21.7	17.7	19.0	18.1	19.4	19.8
6H	20.0	21.2	20.4	21.6	22.0	17.9	19.1	18.3	19.5	19.9
8H	20.1	21.3	20.5	21.7	22.1	17.9	19.1	18.4	19.5	20.0
12H	20.1	21.3	20.5	21.7	22.1	17.9	19.1	18.4	19.5	19.9
X=4H Y=2H	17.7	19.1	18.2	19.5	19.9	16.5	17.8	16.9	18.2	18.6
3H	19.5	20.6	19.9	21.0	21.5	18.0	19.1	18.4	19.5	19.9
4H	20.1	21.2	20.6	21.6	22.0	18.4	19.5	18.9	19.9	20.4
6H	20.6	21.5	21.0	21.9	22.4	18.8	19.6	19.2	20.1	20.6
8H	20.7	21.5	21.2	22.0	22.5	18.8	19.7	19.3	20.1	20.6
12H	20.8	21.5	21.3	22.0	22.5	18.8	19.6	19.3	20.1	20.6
X=8H Y=4H	20.2	21.1	20.7	21.5	22.0	18.6	19.5	19.1	19.9	20.4
6H	20.7	21.4	21.2	21.9	22.4	19.0	19.7	19.5	20.2	20.7
8H	20.9	21.5	21.4	22.0	22.5	19.1	19.7	19.6	20.2	20.8
12H	21.0	21.5	21.5	22.0	22.6	19.2	19.7	19.7	20.2	20.8
X=12H Y=4H	20.2	21.0	20.7	21.5	21.9	18.7	19.4	19.2	19.9	20.4
6H	20.7	21.3	21.2	21.8	22.4	19.0	19.7	19.6	20.1	20.7
8H	20.9	21.4	21.4	21.9	22.5	19.1	19.7	19.7	20.2	20.8

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0  
 Test Lab: ACOLYTE  
 Test Type: TYPE C  
 Temperature: 24°C  
 Operator:

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	0.57	0.68	0.75	0.80	0.88	0.92	0.96	1.00	1.03
	0.30		0.50	0.60	0.68	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.87	0.93	0.97
0.50	0.50	0.20	0.56	0.66	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96
	0.20		0.44	0.54	0.61	0.67	0.75	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.43	0.53	0.60	0.66	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.41	0.51	0.57	0.62	0.70	0.74	0.78	0.83	0.86
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 = 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	0.98	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.70	0.60	0.53	0.48	0.39	0.34	0.29	0.23	0.19
0.50	0.50	0.20	0.94	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.19
	0.20		0.69	0.59	0.52	0.46	0.38	0.33	0.28	0.22	0.19
0.30	0.50	0.20	0.92	0.74	0.63	0.55	0.44	0.36	0.31	0.24	0.19
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19
	0.20		0.68	0.59	0.51	0.45	0.37	0.32	0.27	0.22	0.18
0.00	0.00	0.00	0.58	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14
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 = 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	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<p>Rating: 7W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											