

Report No.:

Test Time: 2018/6/5 10:07

## Luminaire Property

Luminaire Manufacturer: Acolyte  
Luminaire Category: Linear Fixture  
Luminous Length (mm): 300  
Luminous Height (mm): 20  
Current: 0.249 A  
Power Factor: 1.000

Luminaire Description: ATOM2463530TS  
Luminous Width (mm): 26  
Voltage: 24.0 V  
Power: 5.98 W

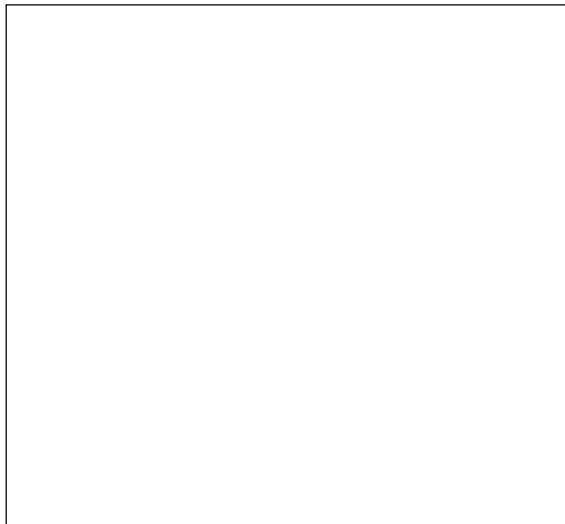
## Photometric Results

CIE Class: Direct  
Measurement Flux: 647.6 lm  
Downward Ratio: 99%  
Horizontal Diffuse Angle(50%): H29.6  
Vertical Diffuse Angle(50%): V29.4  
Luminaire Efficacy Rating (LER): 108  
Max. Intensity: 1987.96 cd

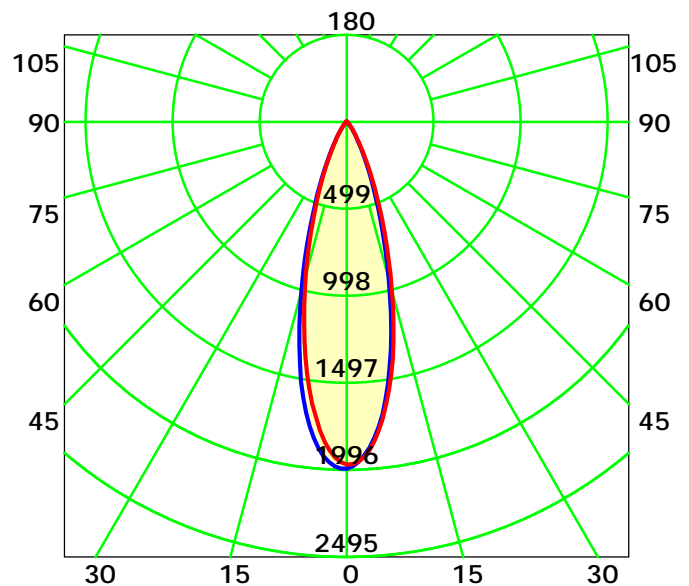
Total Rated Lamp Lumens: 647.6 lm  
Efficiency: 100%  
Upward Ratio: 1%

Central Intensity: 1987.14 cd  
Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



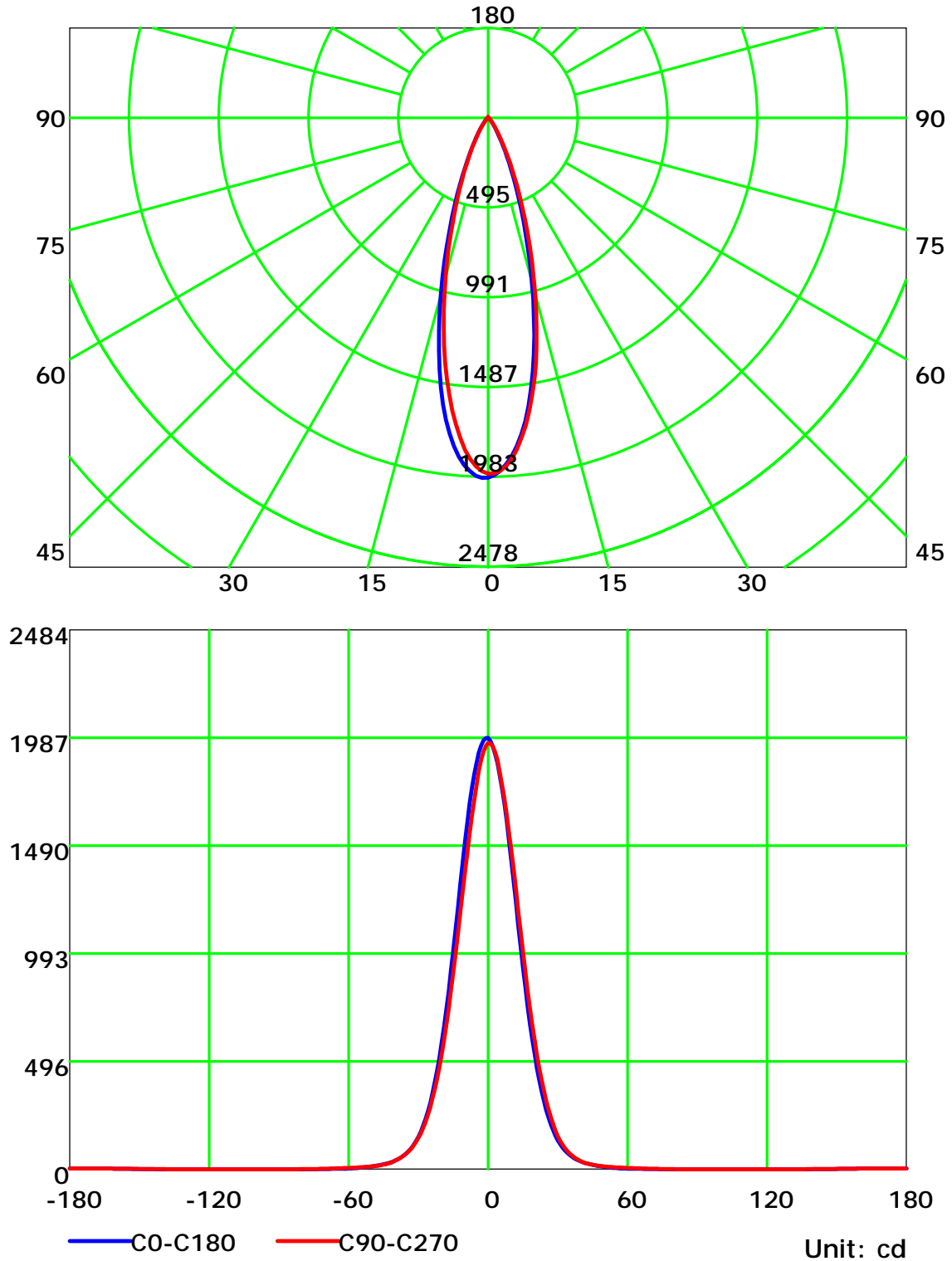
Average Diffuse Angle(50%): 29.5° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

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

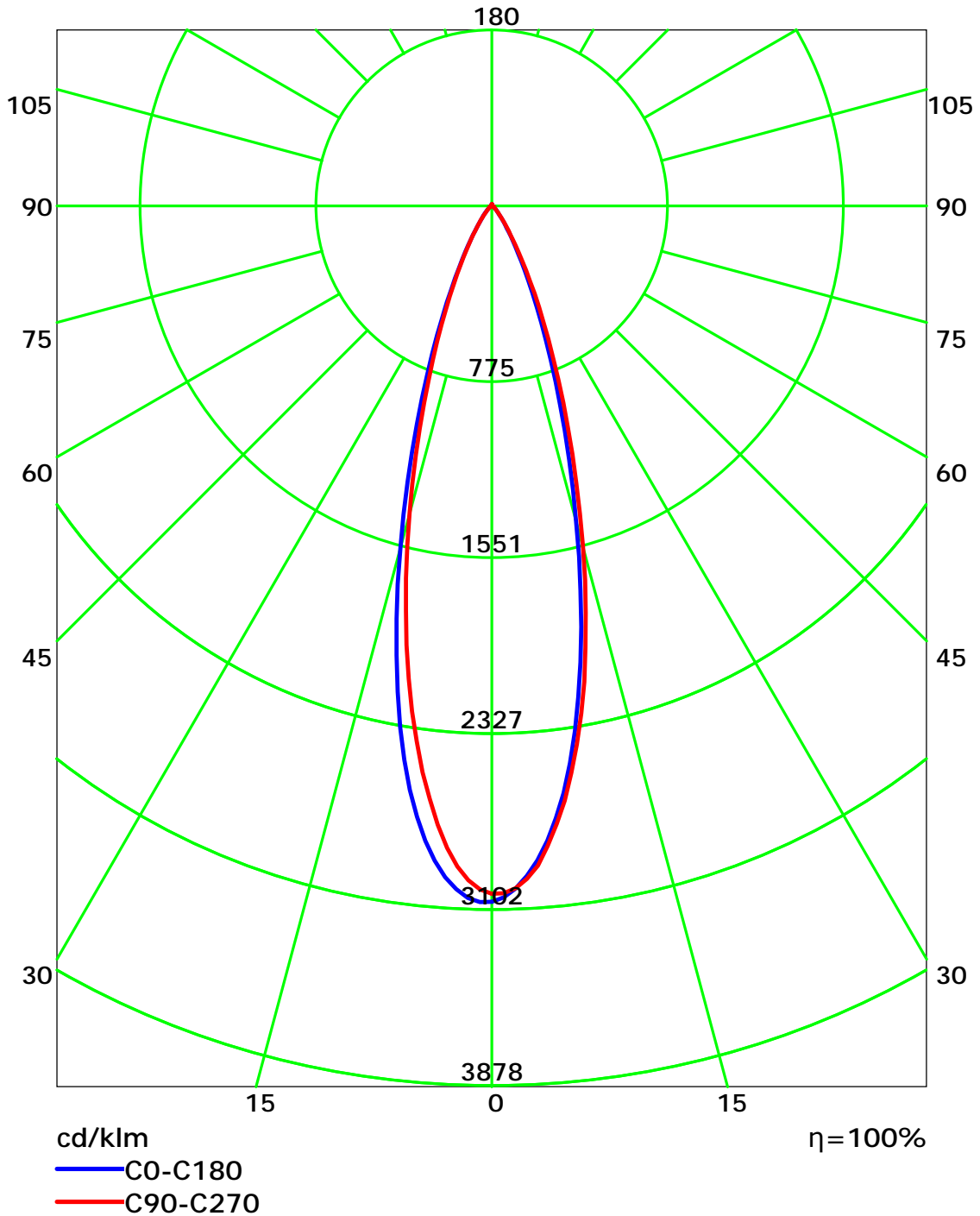
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

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: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

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

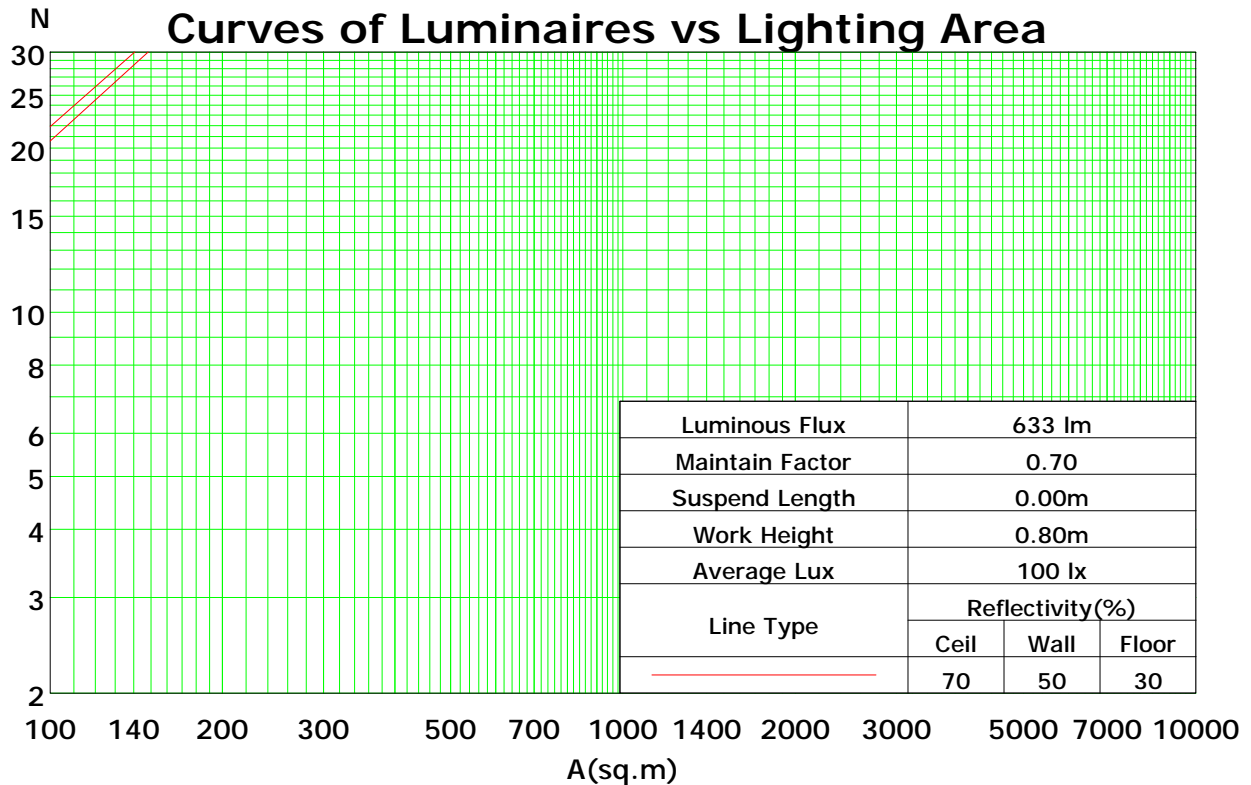
## Coefficients Of Utilization - Zonal Cavity Method

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	106	106	106	101	101	101	99
1	114	112	109	107	112	109	107	106	105	104	102	101	100	99	98	97	96	94
2	109	105	102	99	107	104	100	98	100	98	96	97	95	93	94	93	91	90
3	105	100	96	92	103	98	95	91	96	93	90	93	91	88	91	89	87	85
4	101	95	90	87	99	94	90	86	92	88	85	90	86	84	88	85	83	82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	84	82	79	78
6	94	87	82	78	92	86	81	78	84	80	77	83	79	77	82	78	76	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	72	86	79	75	71	78	74	71	77	73	71	76	73	70	69
9	84	77	72	69	83	76	72	69	75	71	68	74	71	68	74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64

Spacing Criteria (0-180): 0.49

Spacing Criteria (90-270): 0.49

Spacing Criteria (Diagonal): 0.50



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0: 1.0

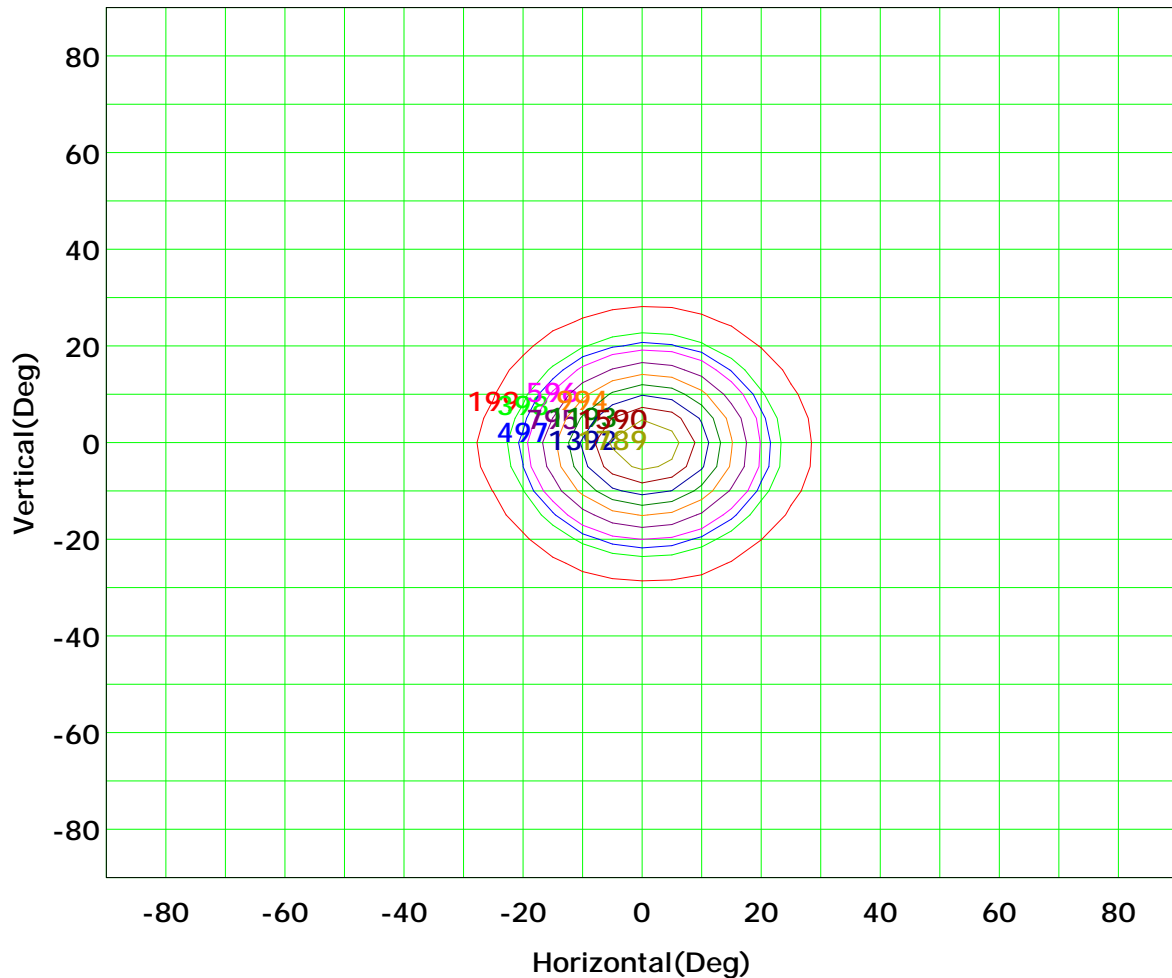
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



Imax (100%): 1988 cd

( 10%): 199 cd	( 20%): 398 cd
( 25%): 497 cd	( 30%): 596 cd
( 40%): 795 cd	( 50%): 994 cd
( 60%): 1193 cd	( 70%): 1392 cd
( 80%): 1590 cd	( 90%): 1789 cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

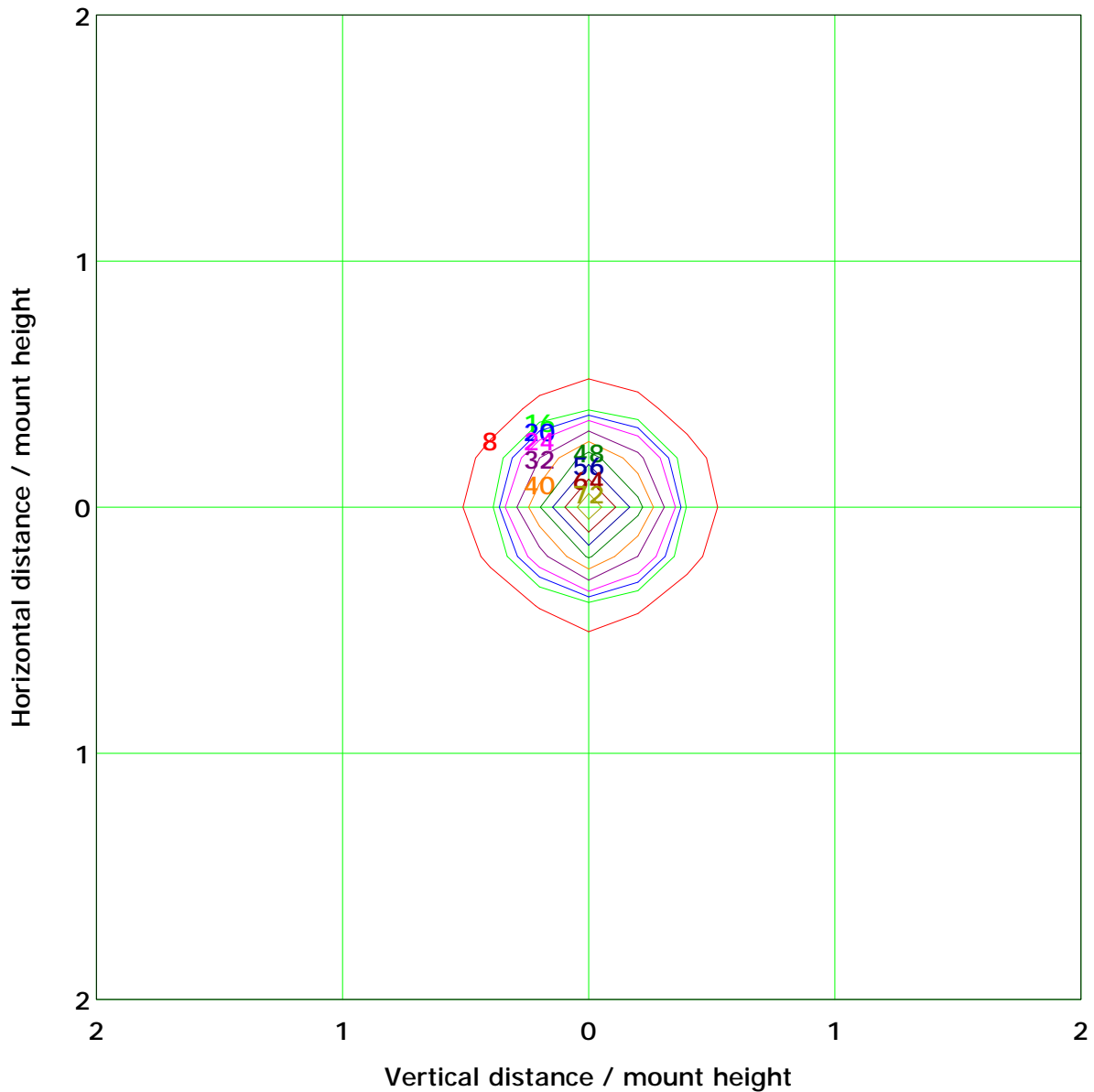
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



Mounting Height: 5.0m    Max Lux(100%): 79.5 lx	
( 10%): 7.9 lx	( 20%): 15.9 lx
( 25%): 19.9 lx	( 30%): 23.8 lx
( 40%): 31.8 lx	( 50%): 39.7 lx
( 60%): 47.7 lx	( 70%): 55.6 lx
( 80%): 63.6 lx	( 90%): 71.5 lx

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 9.028 m

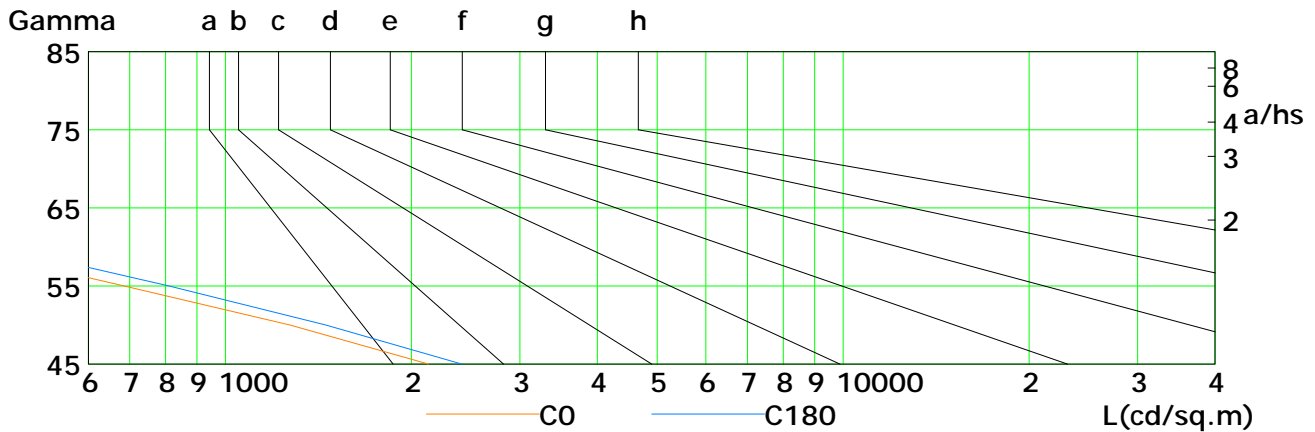
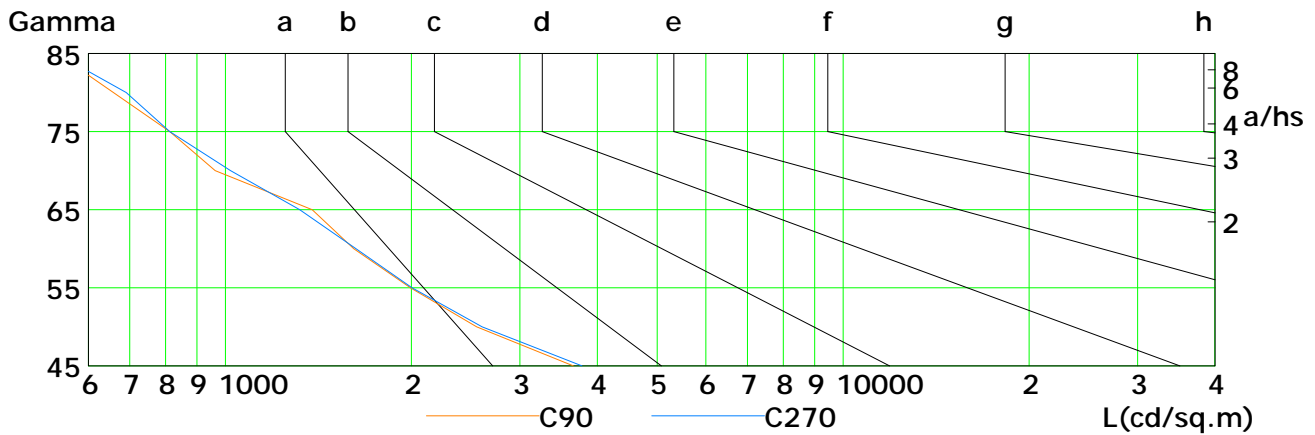
Humidity: 60%

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	2135	1273	686	373	301	197	97	81	62
C90	3660	2552	1994	1614	1383	963	813	659	534
C180	2416	1455	811	431	322	218	120	96	62
C270	3779	2605	2006	1627	1319	1020	813	691	534

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

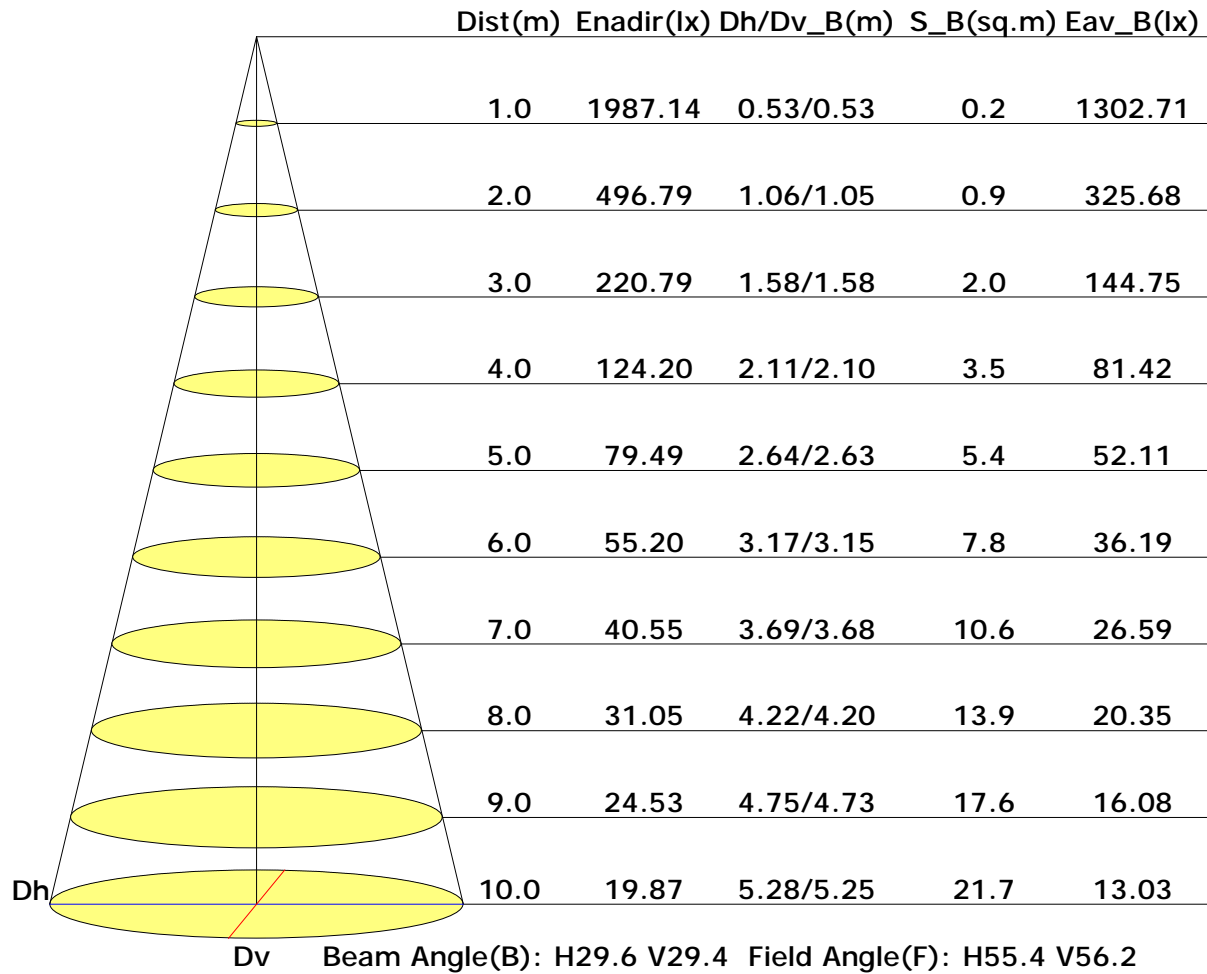
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

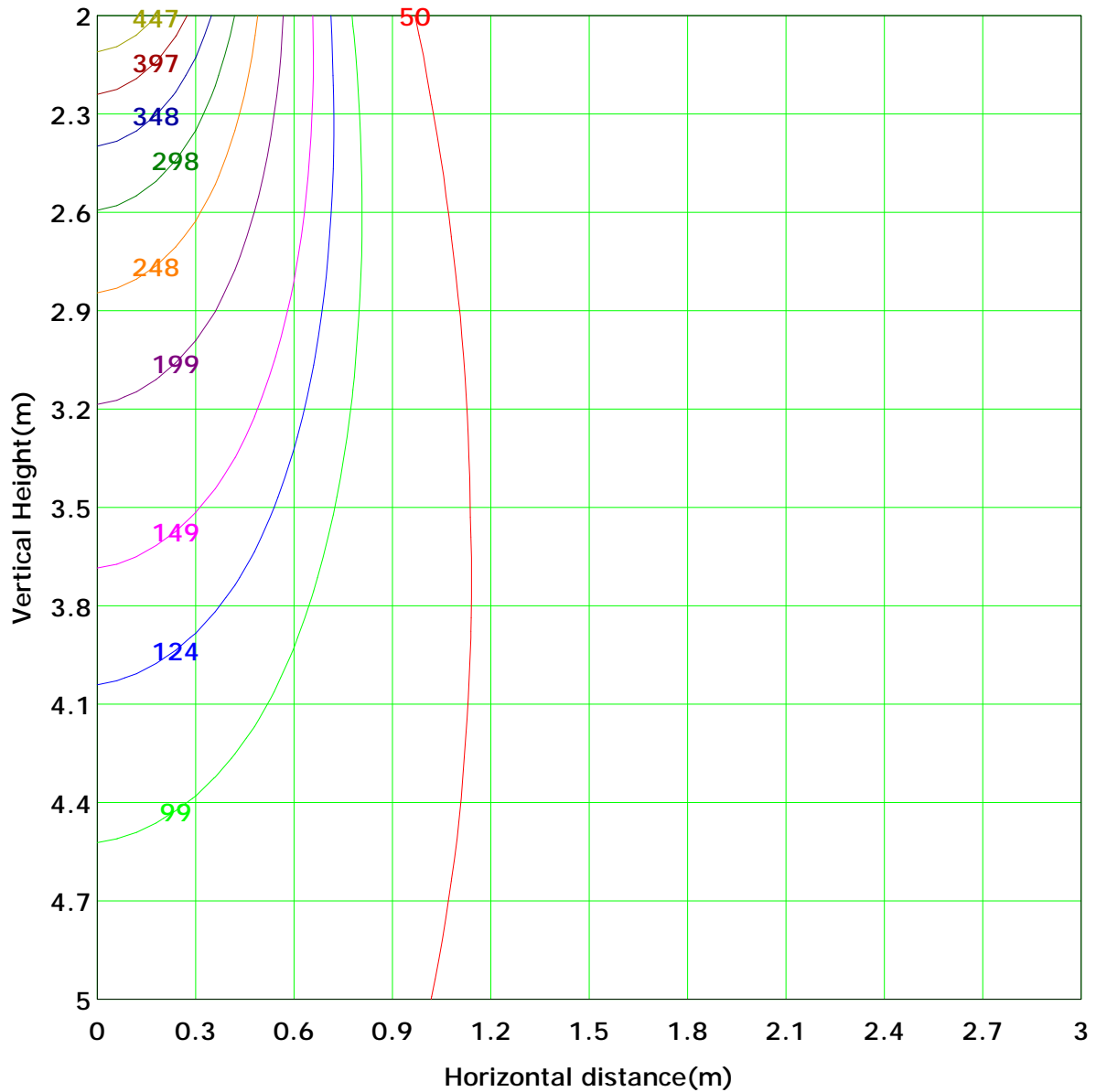
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 496.8 lx
( 10%): 49.7 lx	( 20%): 99.4 lx	
( 25%): 124.2 lx	( 30%): 149.0 lx	
( 40%): 198.7 lx	( 50%): 248.4 lx	
( 60%): 298.1 lx	( 70%): 347.7 lx	
( 80%): 397.4 lx	( 90%): 447.1 lx	

C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

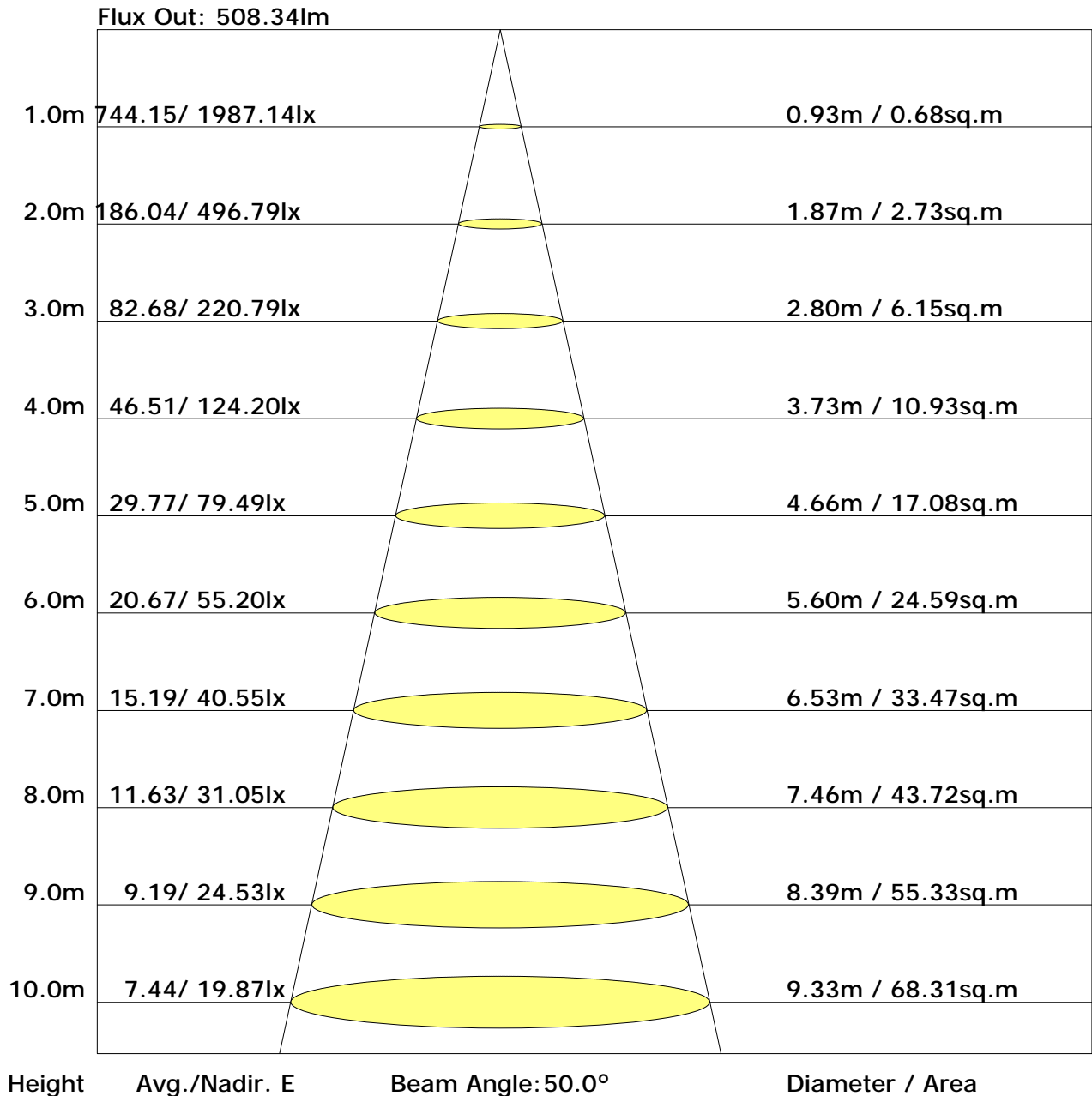
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Unit: 1m

C Plane (°):0.0-360.0: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

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: 10.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

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	2.6	3.6	3.0	3.9	4.2	4.6	5.5	5.0	5.9	6.2
3H	3.4	4.2	3.8	4.5	4.9	5.3	6.2	5.7	6.5	6.9
4H	3.5	4.3	4.0	4.7	5.1	5.5	6.2	5.9	6.6	7.0
6H	3.6	4.3	4.1	4.7	5.2	5.5	6.2	6.0	6.6	7.0
8H	3.7	4.3	4.2	4.8	5.2	5.5	6.2	6.0	6.6	7.0
12H	3.8	4.4	4.2	4.8	5.3	5.5	6.1	5.9	6.5	7.0
X=4H Y=2H	2.7	3.5	3.2	3.9	4.3	4.6	5.3	5.0	5.7	6.1
3H	3.5	4.1	4.0	4.6	5.0	5.4	6.0	5.9	6.5	6.9
4H	3.7	4.3	4.2	4.7	5.2	5.6	6.2	6.1	6.6	7.1
6H	3.9	4.4	4.4	4.9	5.4	5.7	6.2	6.2	6.7	7.2
8H	4.0	4.5	4.5	4.9	5.4	5.7	6.2	6.2	6.6	7.1
12H	4.2	4.5	4.7	5.1	5.6	5.7	6.1	6.2	6.6	7.1
X=8H Y=4H	3.7	4.1	4.2	4.6	5.1	5.5	6.0	6.0	6.4	6.9
6H	3.9	4.3	4.5	4.8	5.3	5.7	6.0	6.2	6.5	7.0
8H	4.1	4.4	4.7	5.0	5.5	5.7	6.0	6.2	6.5	7.1
12H	4.4	4.6	4.9	5.1	5.8	5.7	6.0	6.3	6.5	7.1
X=12H Y=4H	3.6	4.0	4.2	4.5	5.0	5.5	5.9	6.0	6.4	6.9
6H	3.9	4.2	4.5	4.7	5.3	5.6	5.9	6.2	6.4	7.0
8H	4.1	4.4	4.7	4.9	5.5	5.7	5.9	6.2	6.5	7.1

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Aaron

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	0.94	0.99	1.02	1.04	1.07	1.09	1.10	1.12	1.13
	0.30		0.90	0.95	0.98	1.01	1.04	1.06	1.08	1.10	1.11
	0.20		0.88	0.92	0.96	0.98	1.02	1.04	1.06	1.08	1.10
0.50	0.50	0.20	0.93	0.97	0.99	1.01	1.04	1.05	1.06	1.08	1.09
	0.30		0.90	0.94	0.97	0.99	1.02	1.03	1.05	1.06	1.08
	0.20		0.87	0.92	0.94	0.97	1.00	1.02	1.03	1.05	1.06
0.30	0.50	0.20	0.92	0.95	0.97	0.99	1.01	1.02	1.03	1.04	1.05
	0.30		0.89	0.93	0.95	0.97	0.99	1.01	1.02	1.03	1.04
	0.20		0.87	0.91	0.93	0.95	0.98	0.99	1.01	1.02	1.03
0.00	0.00	0.00	0.85	0.89	0.91	0.92	0.94	0.96	0.96	0.98	0.98
<p>Rating: 6W 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>											

## 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	0.46	0.37	0.32	0.28	0.22	0.18	0.16	0.12	0.10
	0.30		0.38	0.32	0.28	0.24	0.20	0.17	0.15	0.11	0.09
	0.20		0.33	0.28	0.25	0.22	0.18	0.15	0.13	0.11	0.09
0.50	0.50	0.20	0.43	0.35	0.29	0.25	0.20	0.21	0.14	0.11	0.09
	0.30		0.36	0.30	0.26	0.23	0.18	0.15	0.13	0.10	0.09
	0.20		0.32	0.27	0.23	0.21	0.17	0.14	0.12	0.10	0.08
0.30	0.50	0.20	0.41	0.32	0.27	0.23	0.18	0.15	0.13	0.10	0.08
	0.30		0.35	0.28	0.24	0.21	0.17	0.14	0.12	0.09	0.08
	0.20		0.30	0.25	0.22	0.19	0.16	0.13	0.11	0.09	0.07
0.00	0.00	0.00	0.16	0.12	0.10	0.08	0.06	0.05	0.04	0.03	0.03
<p>Rating: 6W 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>											

## 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	0.13	0.15	0.16	0.17	0.19	0.20	0.20	0.21	0.22
	0.30		0.10	0.12	0.13	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	0.20
0.50	0.50	0.20	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19
0.30	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20
	0.30		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.19
	0.20		0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.19
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating: 6W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											