ACOLYTE
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Report No.: **Test Time: 2018/10/30 13:59**

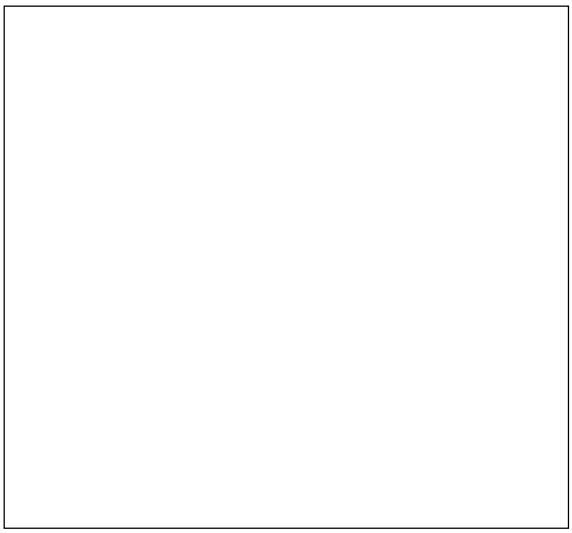
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: MINI WALL WAHSER
Luminaire Description: MINIRGBW2424RGB6525TS (R)
Luminous Length (mm): 500 **Luminous Width (mm): 50**
Luminous Height (mm): 70 **Voltage: 24.0 V**
Current: 0.257 A **Power: 6.16 W**
Power Factor: 1.000

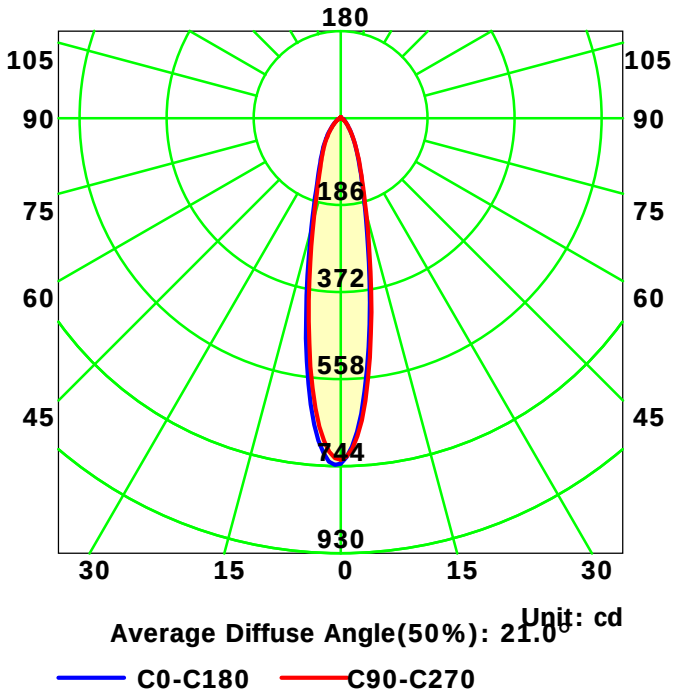
Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 236.5 lm**
Measurement Flux: 236.5 lm **Efficiency: 100%**
Downward Ratio: 97% **Upward Ratio: 3%**
Horizontal Diffuse Angle(50%): H21
Vertical Diffuse Angle(50%): V21
Luminaire Efficacy Rating (LER): 38 **Central Intensity: 739.22 cd**
Max. Intensity: 741.77 cd **Pos of Max. Intensity: H180 V1**

Picture Of Luminaire



Luminous Intensity Distribution Curve



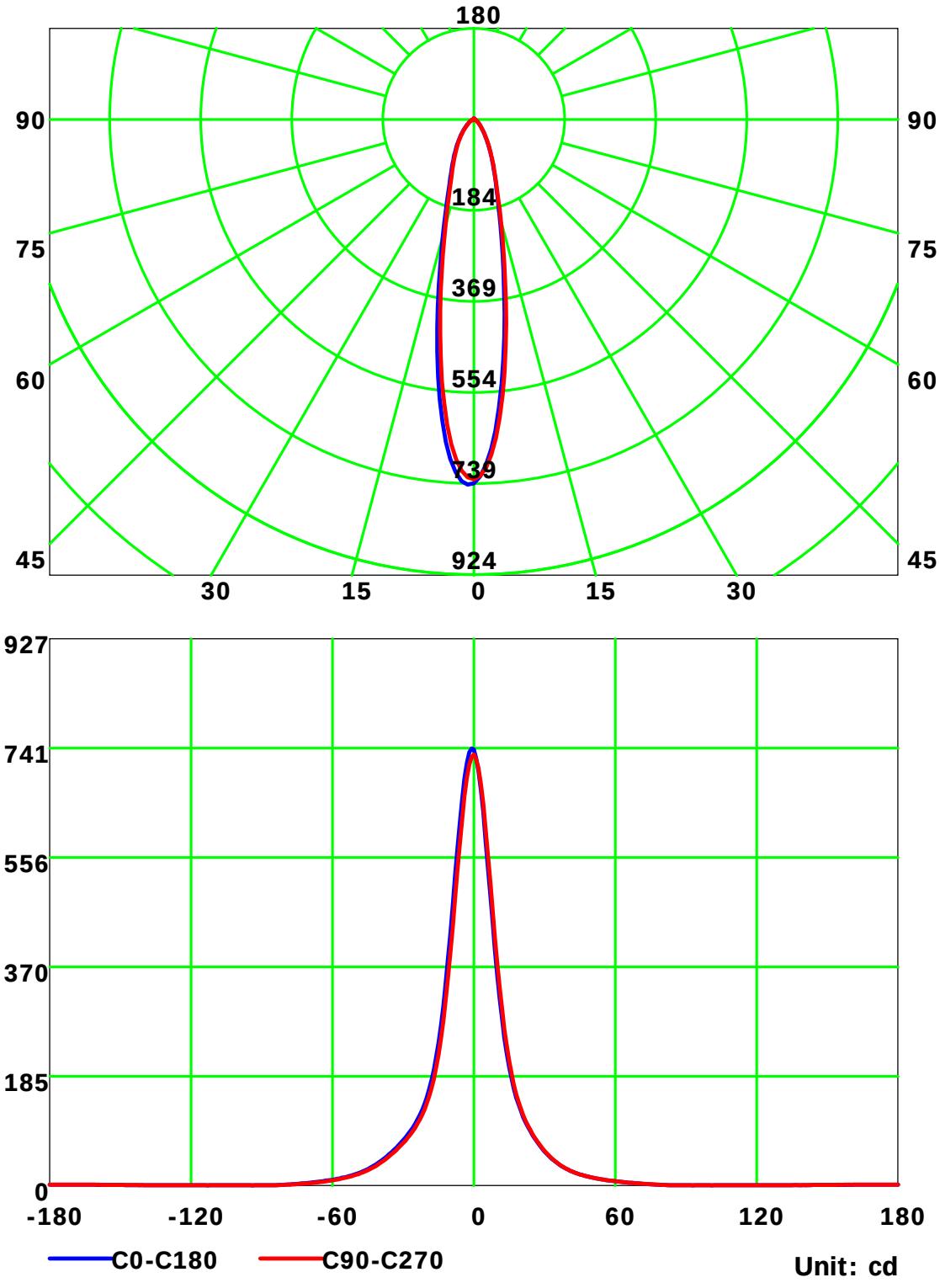
Unit: cd

Average Diffuse Angle(50%): 21.0

C0-C180 **C90-C270**

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

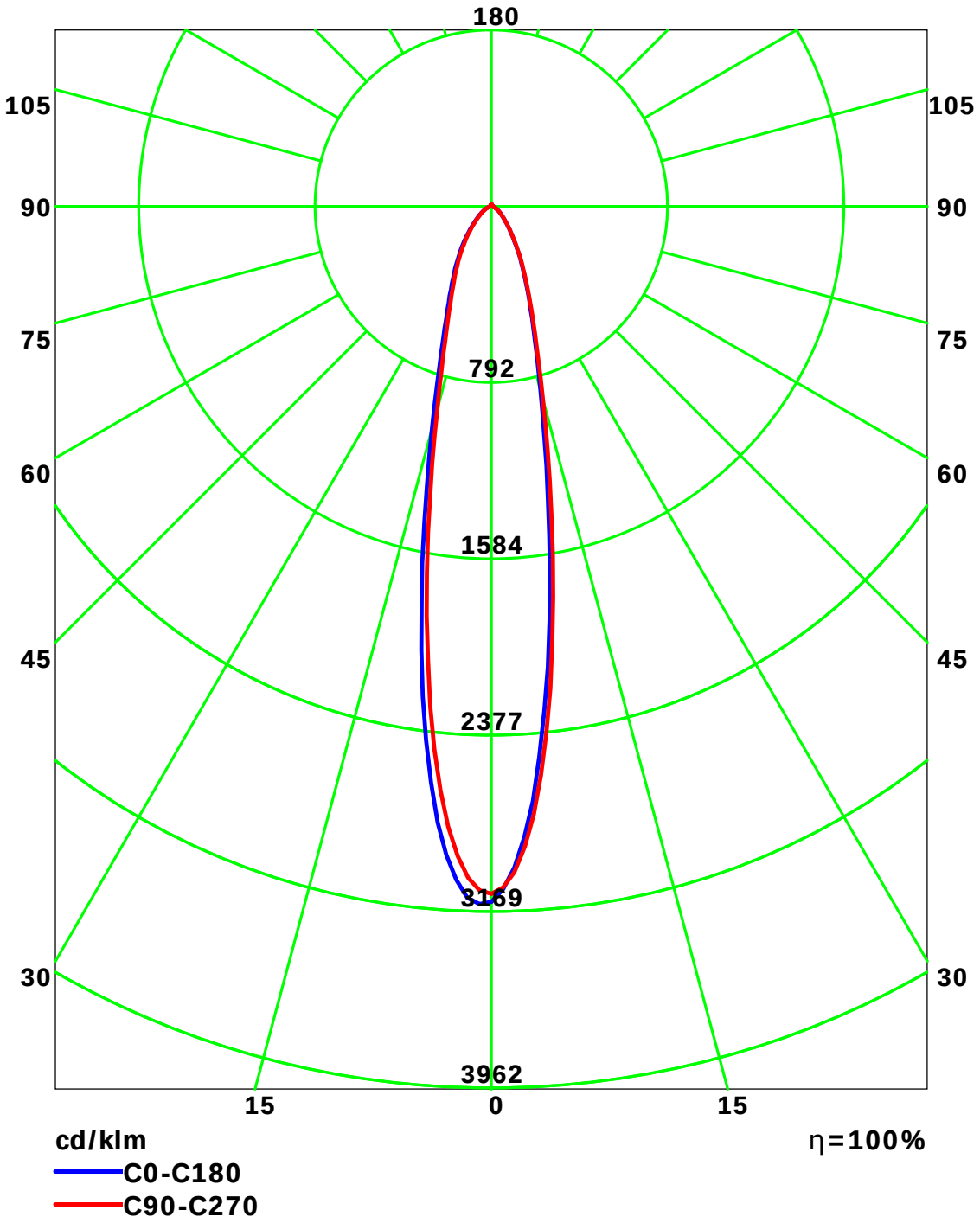
Luminous Intensity Distribution Curve



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

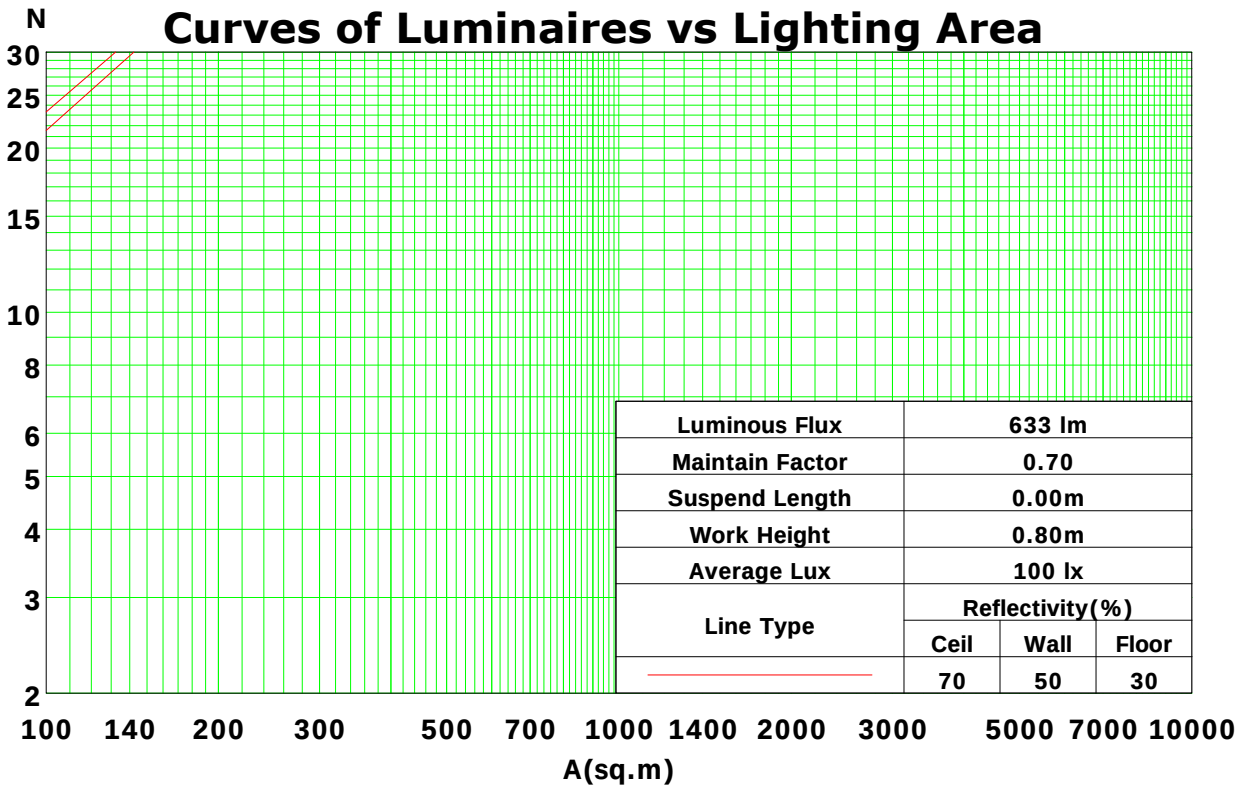
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	112	109	106	104	109	107	104	102	102	100	98	98	96	95	94	93	91	89
2	106	101	97	93	104	99	95	92	95	92	89	92	89	87	89	86	85	83
3	101	94	89	85	98	92	88	84	89	85	82	86	83	80	84	81	79	77
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	79	76	74	72
5	91	83	77	73	89	82	76	72	79	75	71	77	73	70	76	72	69	68
6	87	78	72	68	85	77	72	68	75	70	67	74	69	66	72	68	65	64
7	83	74	68	64	82	73	68	64	72	67	63	70	66	63	69	65	62	61
8	80	70	65	61	78	70	64	60	68	63	60	67	63	59	66	62	59	58
9	76	67	61	58	75	67	61	57	65	61	57	64	60	57	63	59	56	55
10	74	64	59	55	72	64	58	55	63	58	55	62	57	54	61	57	54	53

Spacing Criteria (0-180): 0.36
Spacing Criteria (90-270): 0.36
Spacing Criteria (Diagonal): 0.39

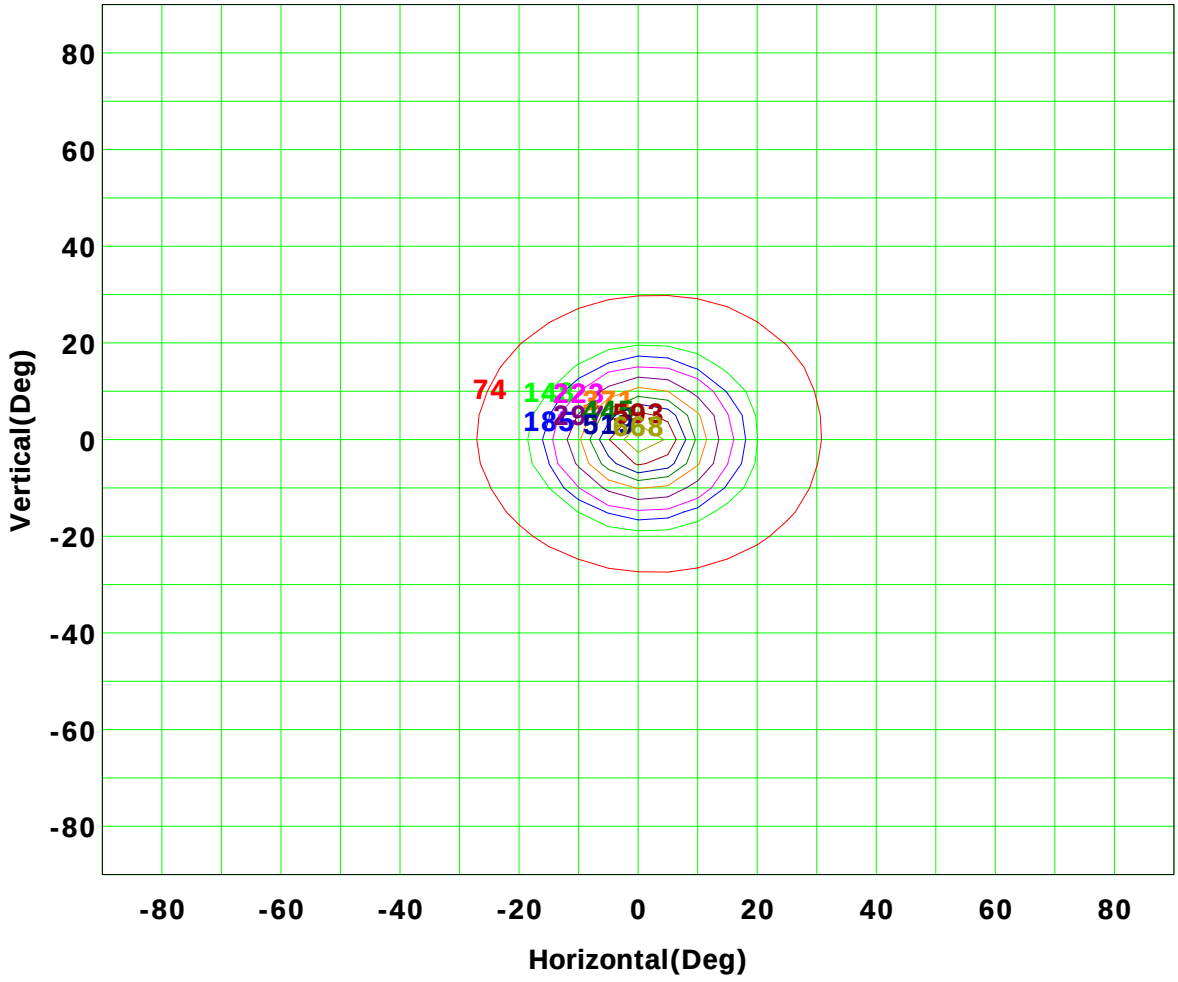
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 30.0
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)



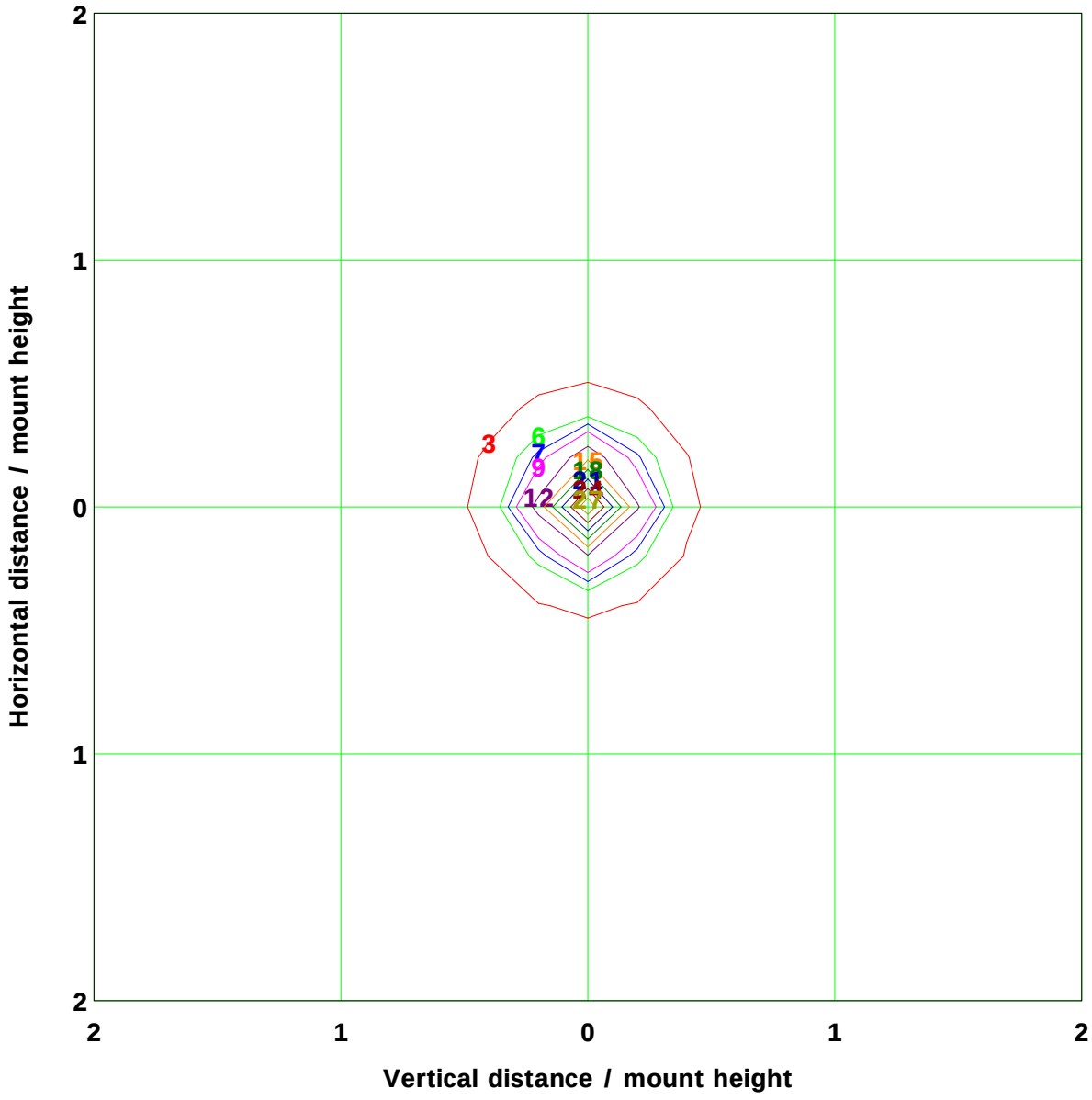
Imax (100%): 742 cd

(10%): 74 cd	(20%): 148 cd
(25%): 185 cd	(30%): 223 cd
(40%): 297 cd	(50%): 371 cd
(60%): 445 cd	(70%): 519 cd
(80%): 593 cd	(90%): 668 cd

C Plane (°):0.0-360.0: 30.0
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%): 29.7 lx**

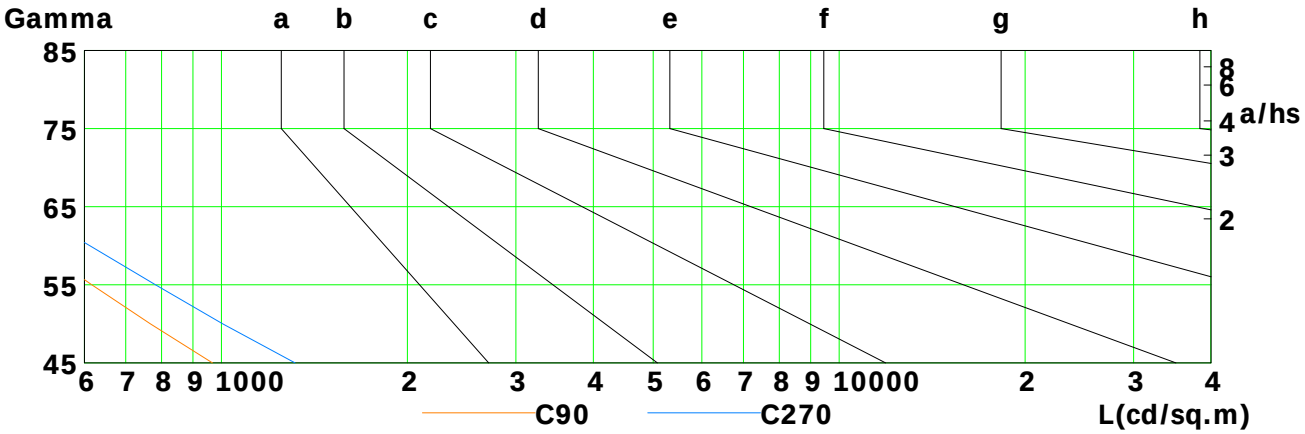
(10%): 3.0 lx	**(20%): 5.9 lx**
(25%): 7.4 lx	**(30%): 8.9 lx**
(40%): 11.9 lx	**(50%): 14.8 lx**
(60%): 17.8 lx	**(70%): 20.8 lx**
(80%): 23.7 lx	**(90%): 26.7 lx**

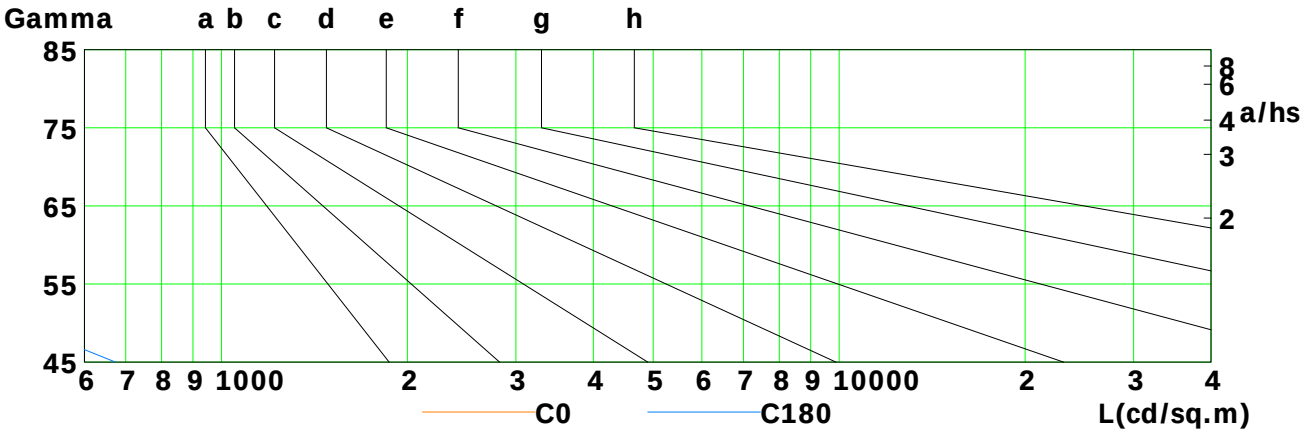
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Aaron

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



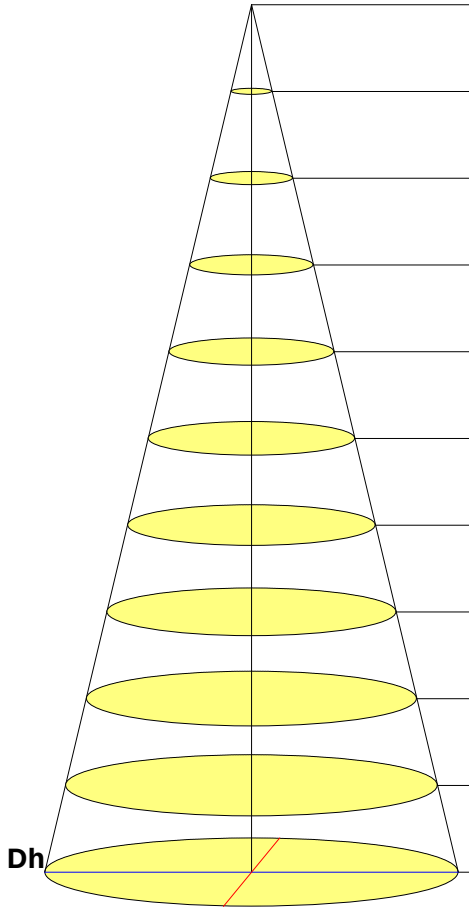


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	460	335	249	188	138	100	67	41	32
C90	968	767	617	505	419	346	279	222	212
C180	674	472	339	245	181	128	85	54	34
C270	1317	1005	782	612	479	383	309	248	217

C Plane (°):0.0-360.0: 30.0
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



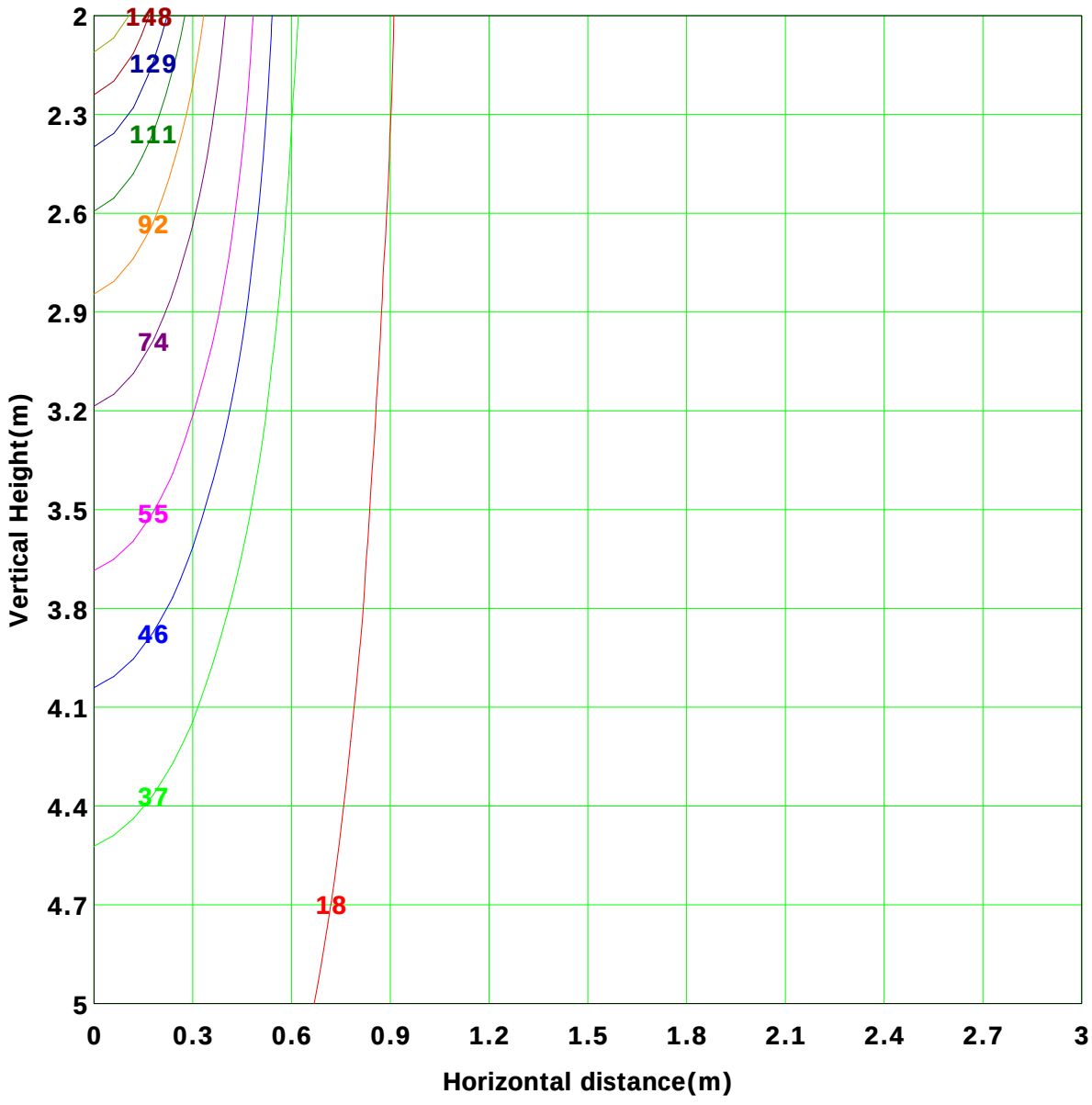
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	739.22	0.37/0.37	0.1	481.66
2.0	184.80	0.74/0.74	0.4	120.41
3.0	82.14	1.11/1.11	1.0	53.52
4.0	46.20	1.49/1.48	1.7	30.10
5.0	29.57	1.86/1.85	2.7	19.27
6.0	20.53	2.23/2.22	3.9	13.38
7.0	15.09	2.60/2.59	5.3	9.83
8.0	11.55	2.97/2.96	7.0	7.53
9.0	9.13	3.34/3.34	8.8	5.95
10.0	7.39	3.71/3.71	10.9	4.82

Beam Angle(B): H21.0 V21.0 Field Angle(F): H57.8 V57.3

C Plane (°):0.0-360.0: 30.0
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: 184.8 lx

(10%): 18.5 lx	**(20%): 37.0 lx**
(25%): 46.2 lx	**(30%): 55.4 lx**
(40%): 73.9 lx	**(50%): 92.4 lx**
(60%): 110.9 lx	**(70%): 129.4 lx**
(80%): 147.8 lx	**(90%): 166.3 lx**

C Plane (°):0.0-360.0: 30.0
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:

Area Flux Table

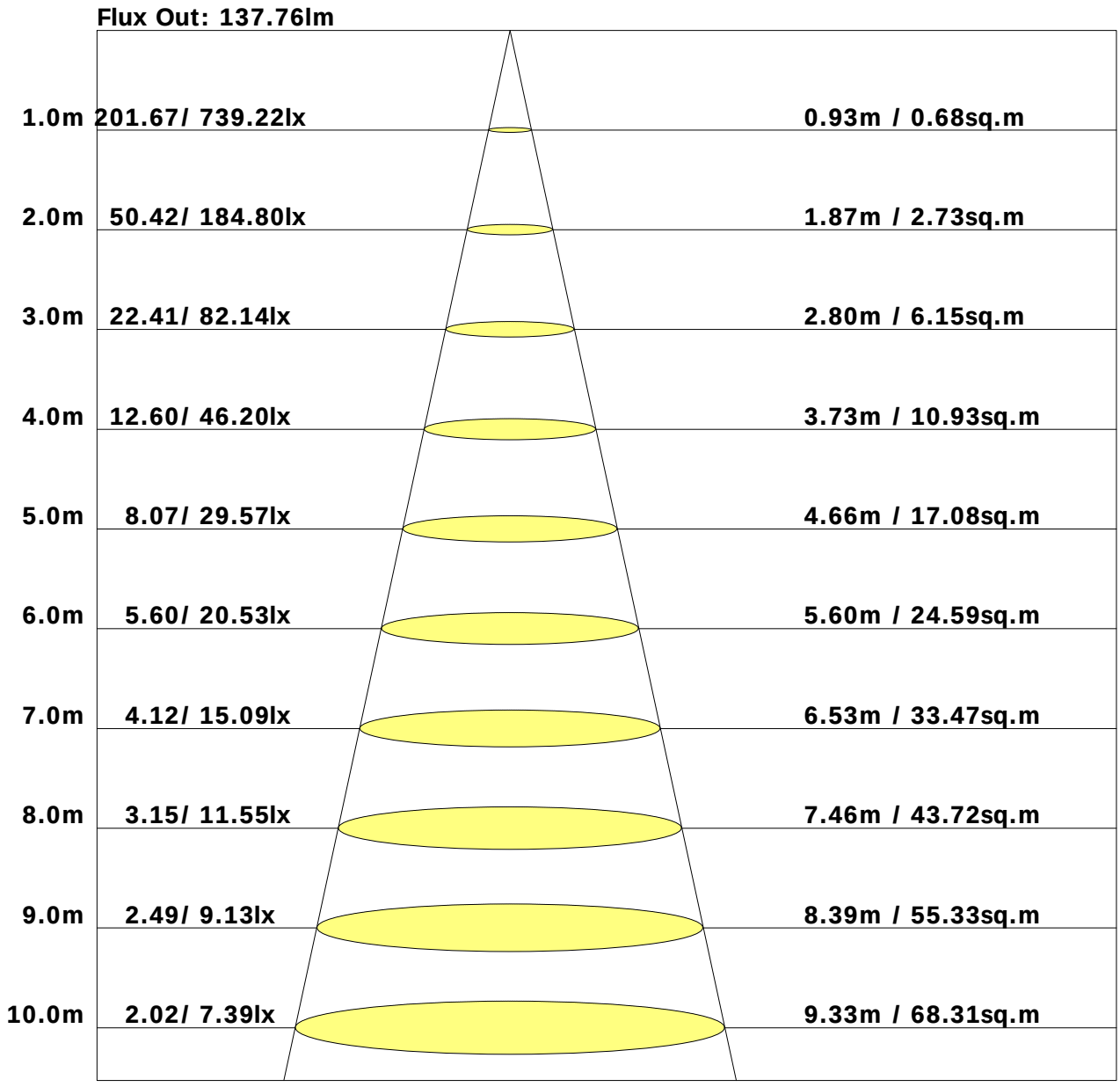
Unit: lm

Horizontal plane	Vertical plane																									Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)					
-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	0.1	0.0					
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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					
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.0	0.0					
-60	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	2.4	0.0					
-50	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	4.9	0.0					
-40	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.0	0.8	0.6	0.4	0.2	0.1	0.0	0.0	9.7	0.2					
-30	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	17.4	9.4					
-20	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	31.7	25.0					
-10	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	56.3	49.9					
0	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	51.2	44.7					
10	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	26.5	19.6					
20	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	13.6	4.5					
30	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	7.0	0.0					
40	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	3.5	0.0					
50	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	1.8	0.0					
60	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.8	0.0					
70	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.3	0.0					
80	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.3	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.1	0.0					
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	229	153					
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							
Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: 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: 30.0
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	8.9	10.0	9.3	10.4	10.8	7.3	8.4	7.7	8.8	9.2
3H	10.0	11.0	10.5	11.4	11.9	8.1	9.1	8.5	9.5	9.9
4H	10.4	11.3	10.9	11.7	12.2	8.3	9.2	8.8	9.6	10.1
6H	10.6	11.4	11.1	11.9	12.3	8.4	9.2	8.9	9.7	10.2
8H	10.7	11.5	11.2	11.9	12.4	8.4	9.2	8.9	9.7	10.2
12H	10.8	11.5	11.2	11.9	12.4	8.4	9.2	8.9	9.6	10.1
X=4H Y=2H	9.0	9.9	9.5	10.3	10.8	7.7	8.6	8.2	9.0	9.5
3H	10.3	11.0	10.7	11.5	11.9	8.6	9.4	9.1	9.8	10.3
4H	10.7	11.3	11.2	11.8	12.3	8.9	9.6	9.4	10.0	10.6
6H	11.0	11.5	11.5	12.0	12.6	9.1	9.6	9.6	10.1	10.7
8H	11.1	11.6	11.6	12.1	12.6	9.1	9.6	9.6	10.1	10.7
12H	11.2	11.6	11.7	12.2	12.7	9.1	9.6	9.7	10.1	10.7
X=8H Y=4H	10.6	11.2	11.2	11.7	12.2	9.0	9.5	9.5	10.0	10.6
6H	11.0	11.4	11.5	11.9	12.5	9.2	9.7	9.8	10.2	10.8
8H	11.1	11.5	11.7	12.0	12.6	9.3	9.7	9.9	10.3	10.8
12H	11.3	11.6	11.8	12.2	12.8	9.4	9.7	10.0	10.3	10.9
X=12H Y=4H	10.6	11.1	11.1	11.6	12.1	9.0	9.5	9.5	10.0	10.6
6H	10.9	11.3	11.5	11.8	12.5	9.2	9.6	9.8	10.2	10.8
8H	11.1	11.4	11.7	12.0	12.6	9.3	9.7	9.9	10.2	10.9

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
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 = 0.50								
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	0.79	0.86	0.92	0.95	1.00	1.03	1.05	1.08	1.10
	0.30		0.74	0.81	0.87	0.90	0.96	0.99	1.02	1.05	1.08
	0.20		0.70	0.77	0.83	0.87	0.92	0.96	0.99	1.03	1.06
0.50	0.50	0.20	0.78	0.84	0.89	0.92	0.96	0.99	1.01	1.04	1.05
	0.30		0.73	0.80	0.85	0.88	0.93	0.96	0.99	1.01	1.03
	0.20		0.69	0.76	0.81	0.85	0.90	0.94	0.96	1.00	1.02
0.30	0.50	0.20	0.76	0.82	0.86	0.89	0.93	0.96	0.97	0.99	1.01
	0.30		0.72	0.78	0.83	0.86	0.91	0.93	0.95	0.98	0.99
	0.20		0.69	0.75	0.80	0.84	0.88	0.91	0.93	0.96	0.98
0.00	0.00	0.00	0.67	0.73	0.77	0.80	0.84	0.87	0.89	0.91	0.93

Rating:6W 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:
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(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	0.68	0.55	0.47	0.40	0.32	0.26	0.23	0.17	0.14
	0.30		0.57	0.47	0.41	0.36	0.29	0.24	0.21	0.16	0.14
	0.20		0.49	0.41	0.36	0.32	0.26	0.22	0.19	0.15	0.13
0.50	0.50	0.20	0.64	0.52	0.44	0.38	0.30	0.28	0.21	0.16	0.13
	0.30		0.54	0.45	0.39	0.34	0.27	0.23	0.19	0.15	0.12
	0.20		0.47	0.40	0.35	0.31	0.25	0.21	0.18	0.14	0.12
0.30	0.50	0.20	0.61	0.49	0.41	0.35	0.27	0.23	0.19	0.15	0.12
	0.30		0.52	0.43	0.37	0.32	0.25	0.21	0.18	0.14	0.12
	0.20		0.46	0.38	0.33	0.29	0.24	0.20	0.17	0.13	0.11
0.00	0.00	0.00	0.32	0.26	0.22	0.19	0.15	0.12	0.10	0.08	0.06

Rating:6W 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:
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(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	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.25
	0.30		0.12	0.14	0.16	0.17	0.19	0.20	0.21	0.22	0.23
	0.20		0.09	0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.21
0.50	0.50	0.20	0.16	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20	0.21
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.23
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.19	0.21	0.21
	0.20		0.09	0.11	0.12	0.13	0.15	0.17	0.18	0.19	0.20
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Rating:6W 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:
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: