

Report No.:

Test Time: 2018/8/31 17:35

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2245.040PH 1FT(320mm)

Luminous Length (mm): 320

Luminous Width (mm): 10

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.218 A

Power: 5.24 W

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 704.2 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H117.8

Vertical Diffuse Angle(50%): V117.2

Luminaire Efficacy Rating (LER): 134

Max. Intensity: 233.39 cd

Total Rated Lamp Lumens: 704.2 lm

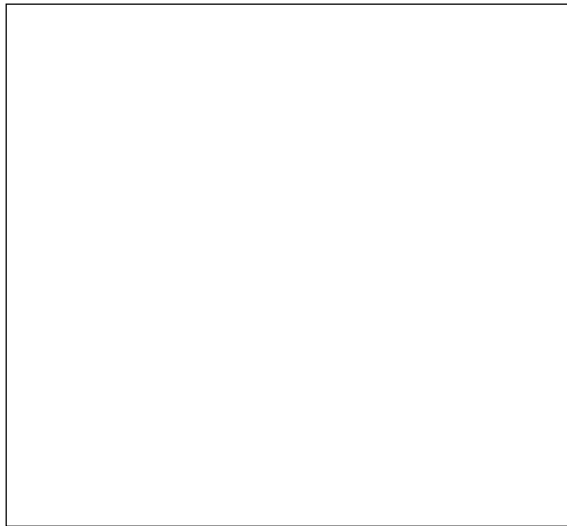
Efficiency: 100%

Upward Ratio: 1%

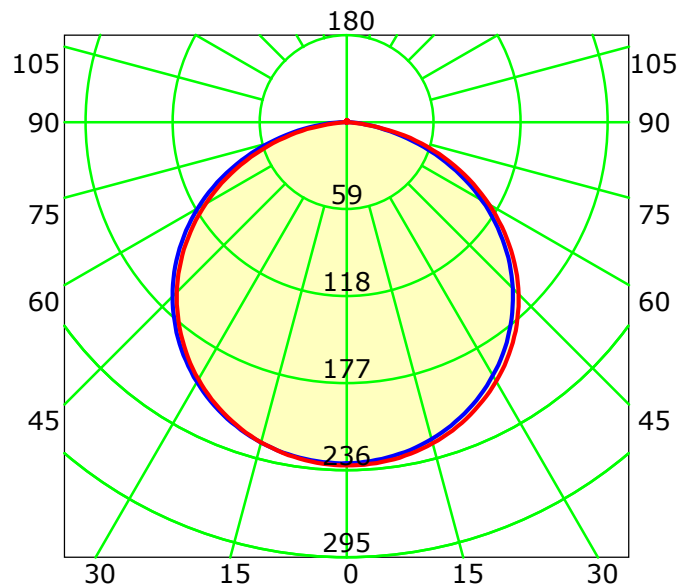
Central Intensity: 231.44 cd

Pos of Max. Intensity: H150 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 117.5° Unit: cd

— C0-C180 — C90-C270

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

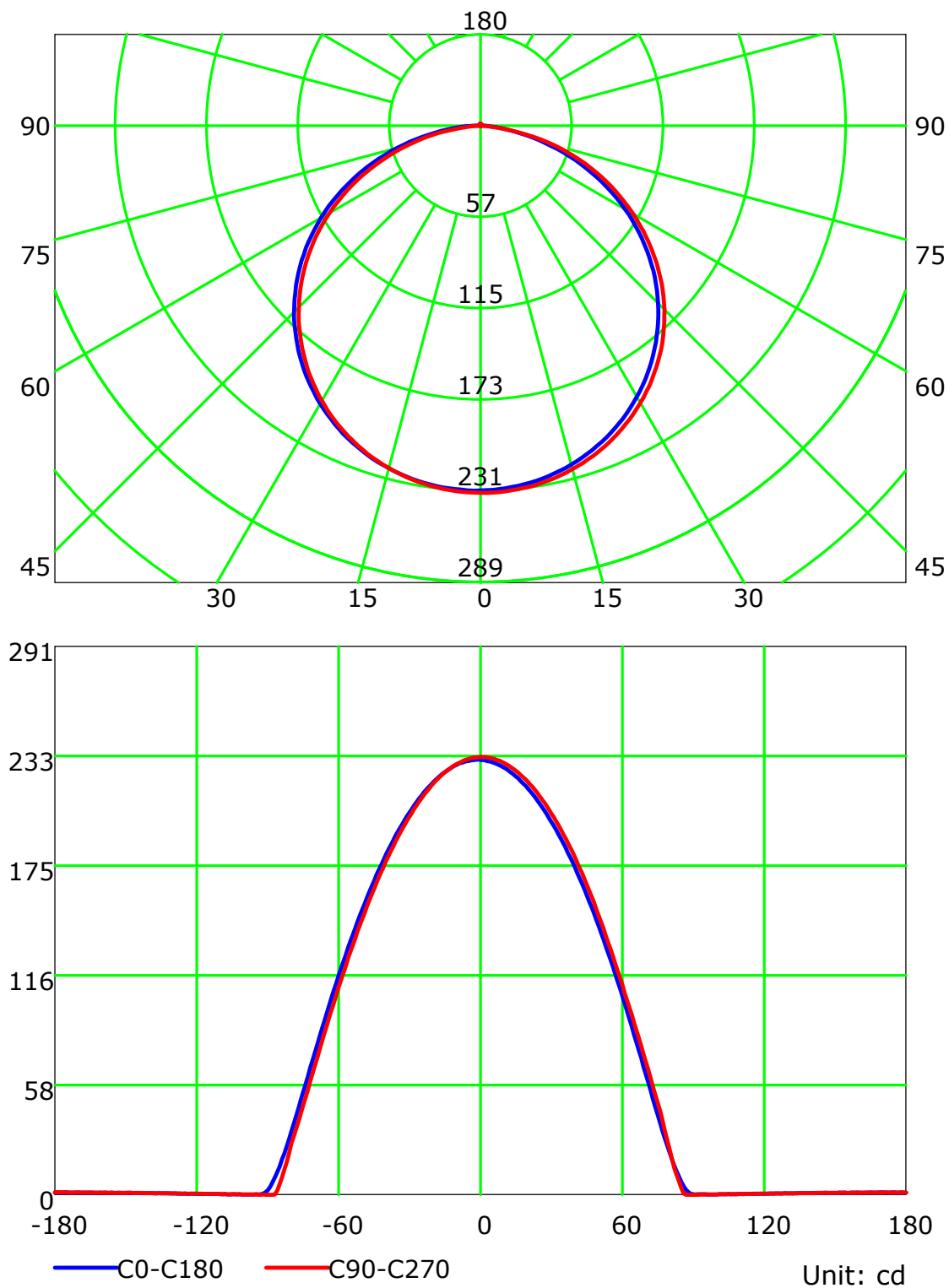
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

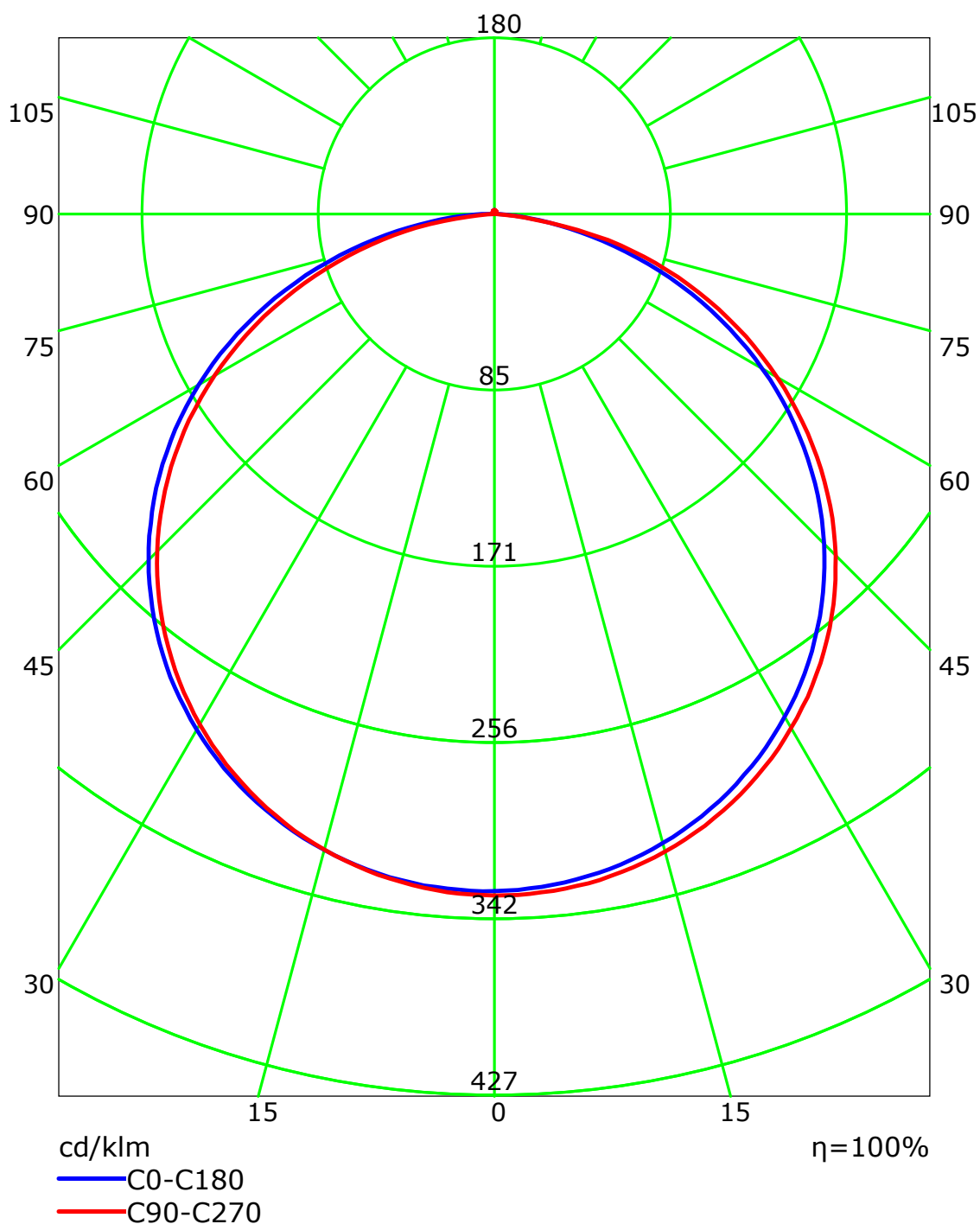
## Luminous Intensity Distribution Curve



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:

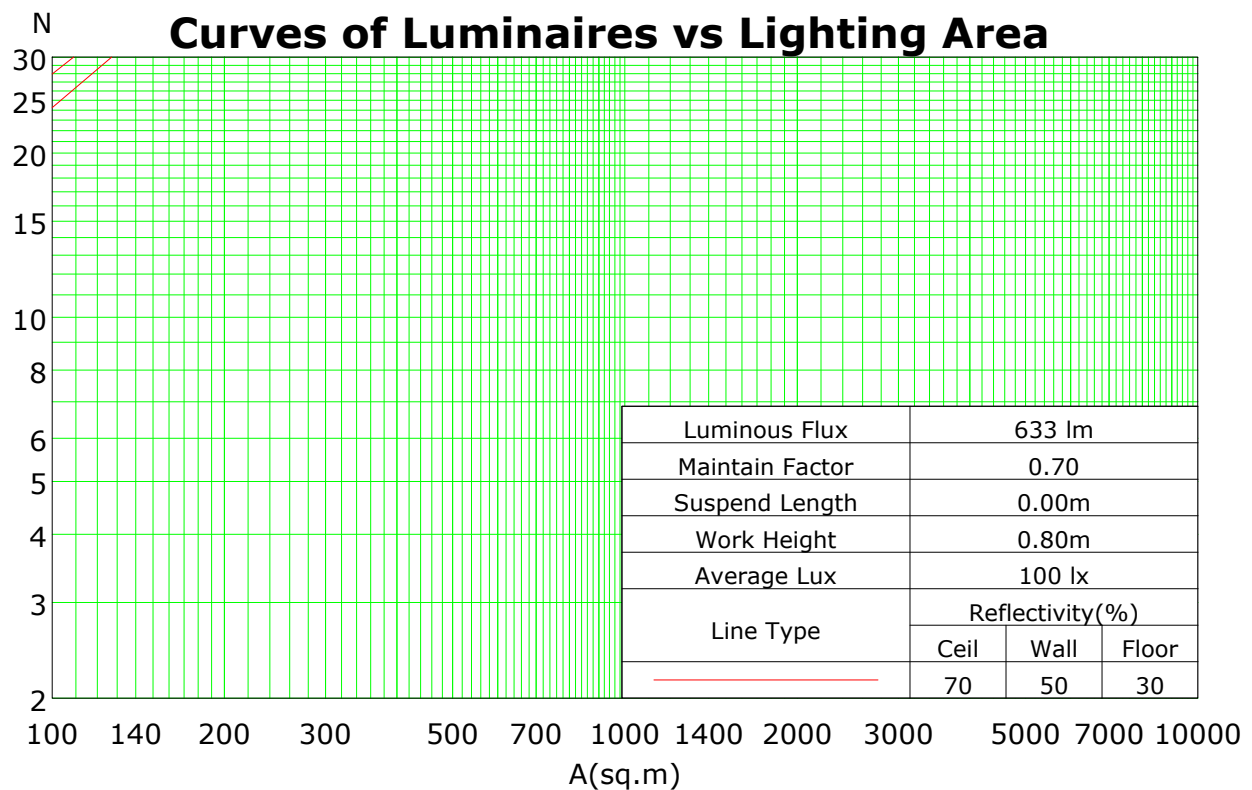
## Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	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	68	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	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	39	51	44	39	49	43	39	37
7	64	50	42	35	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	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	25	37	30	25	36	30	25	35	29	25	23

Spacing Criteria (0-180): 1.29

Spacing Criteria (90-270): 1.29

Spacing Criteria (Diagonal): 1.42



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

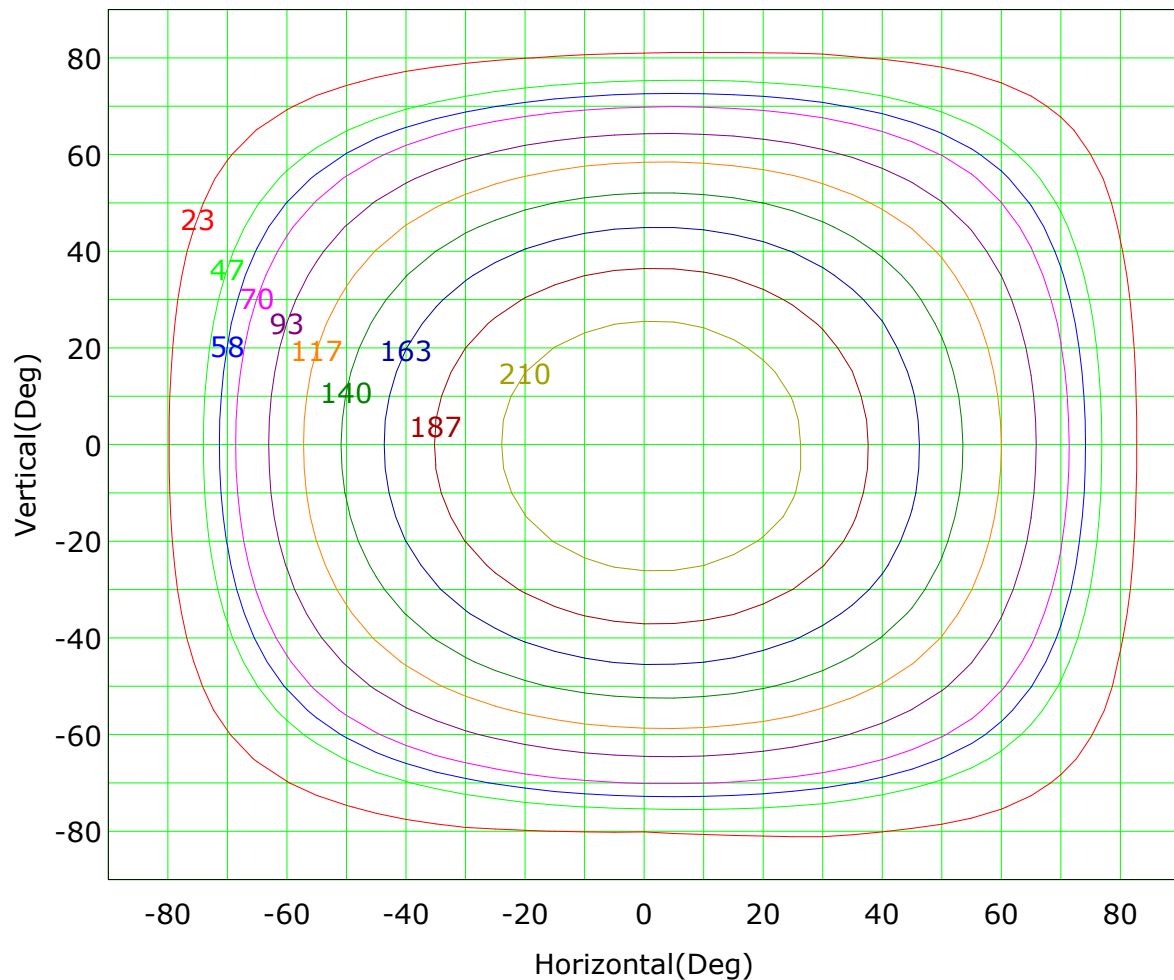
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



I<sub>max</sub> (100%): 233 cd

( 10%): 23 cd	( 20%): 47 cd
( 25%): 58 cd	( 30%): 70 cd
( 40%): 93 cd	( 50%): 117 cd
( 60%): 140 cd	( 70%): 163 cd
( 80%): 187 cd	( 90%): 210 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

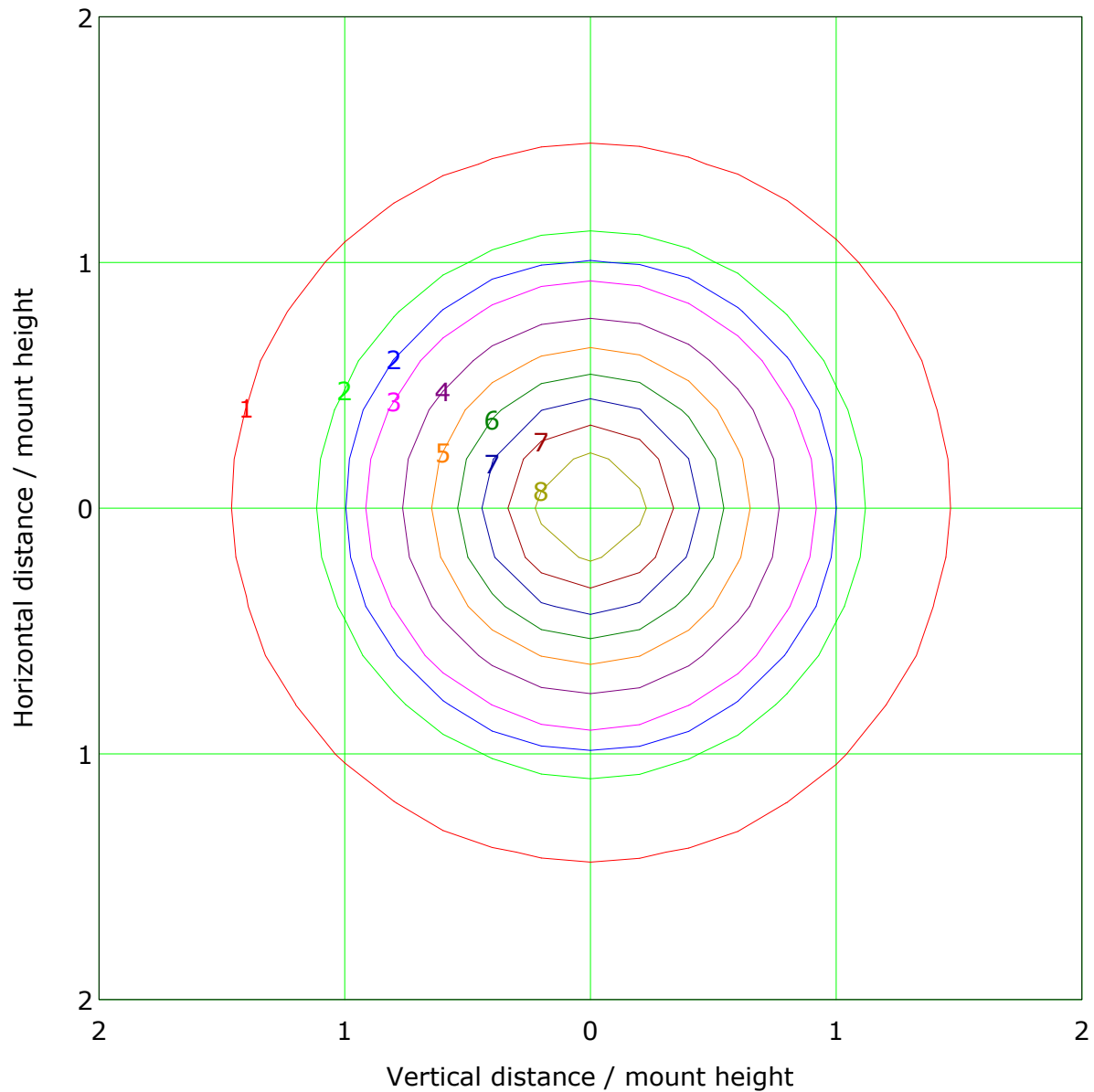
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## IsoLux Plot



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

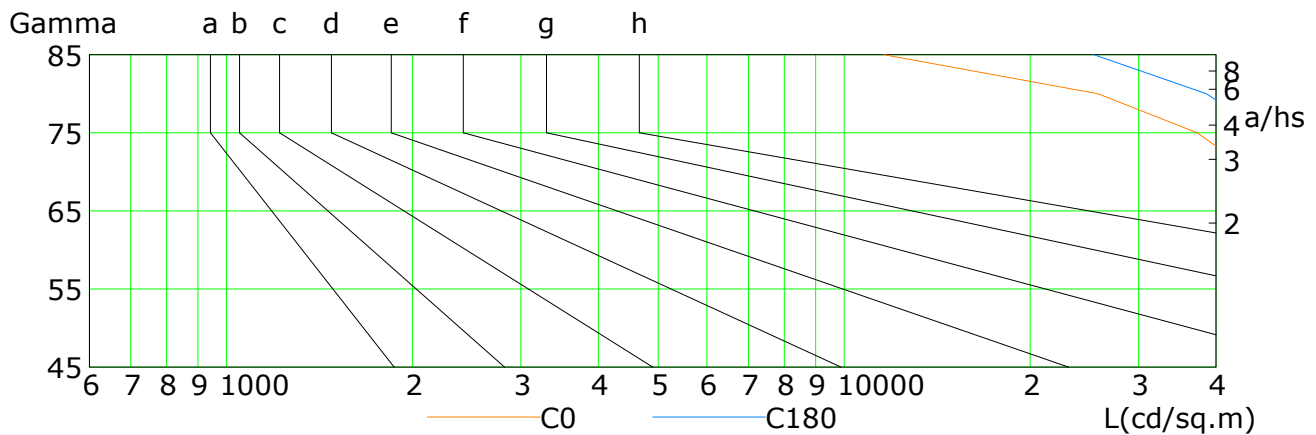
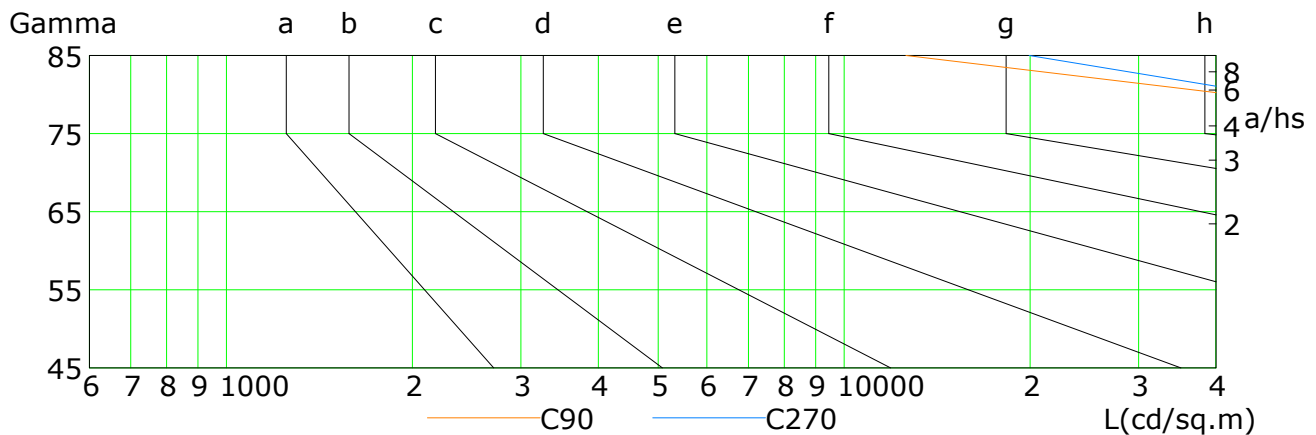
Humidity: 60%

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	64049	62188	59707	56352	51948	45880	37298	25758	11595
C90	72733	72039	70979	69424	67267	63957	58159	42545	12601
C180	67203	66045	64436	62217	59084	54538	48157	38619	25381
C270	71839	71215	70258	68728	66422	62662	57013	48486	19940

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

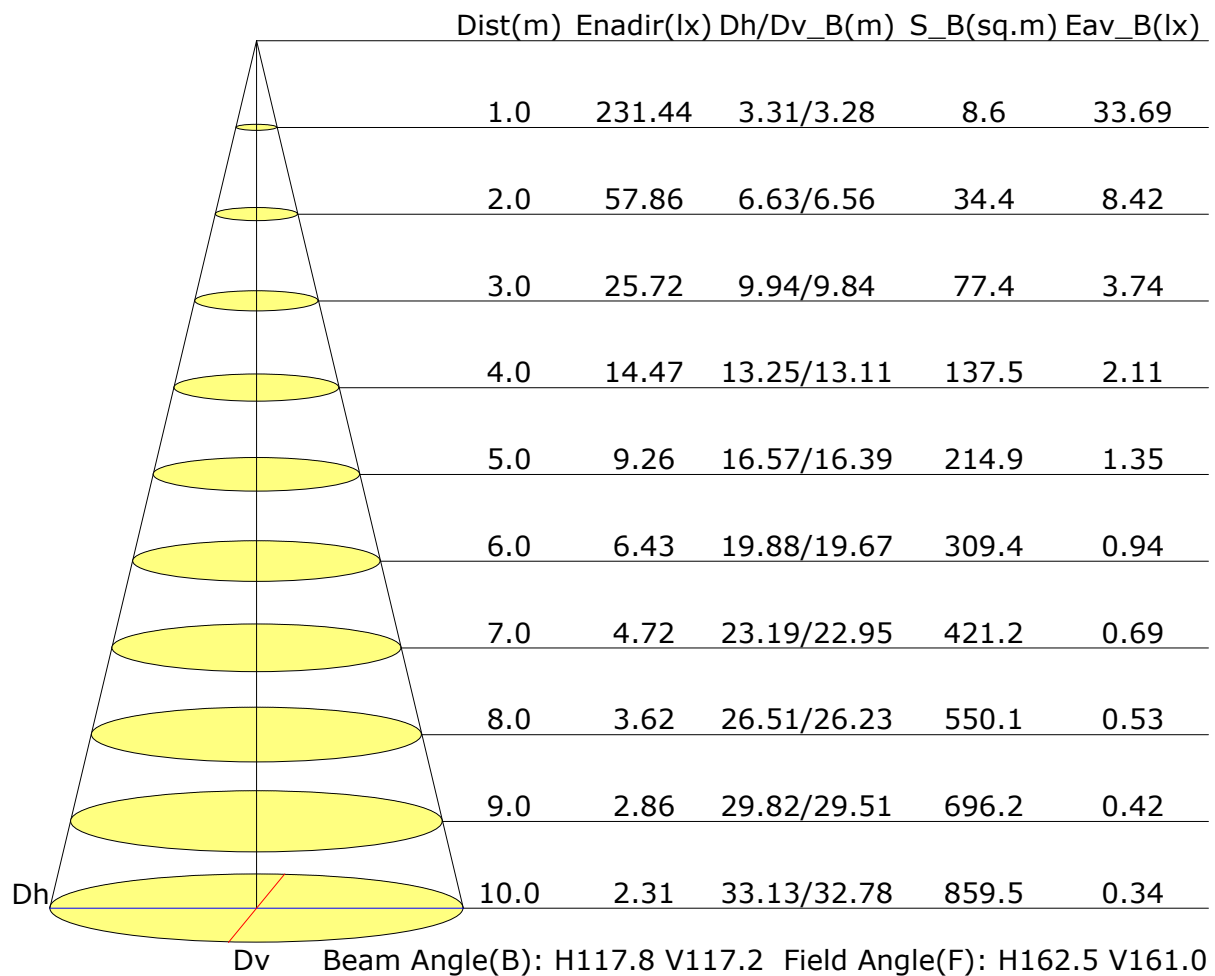
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Illuminance at a Distance



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

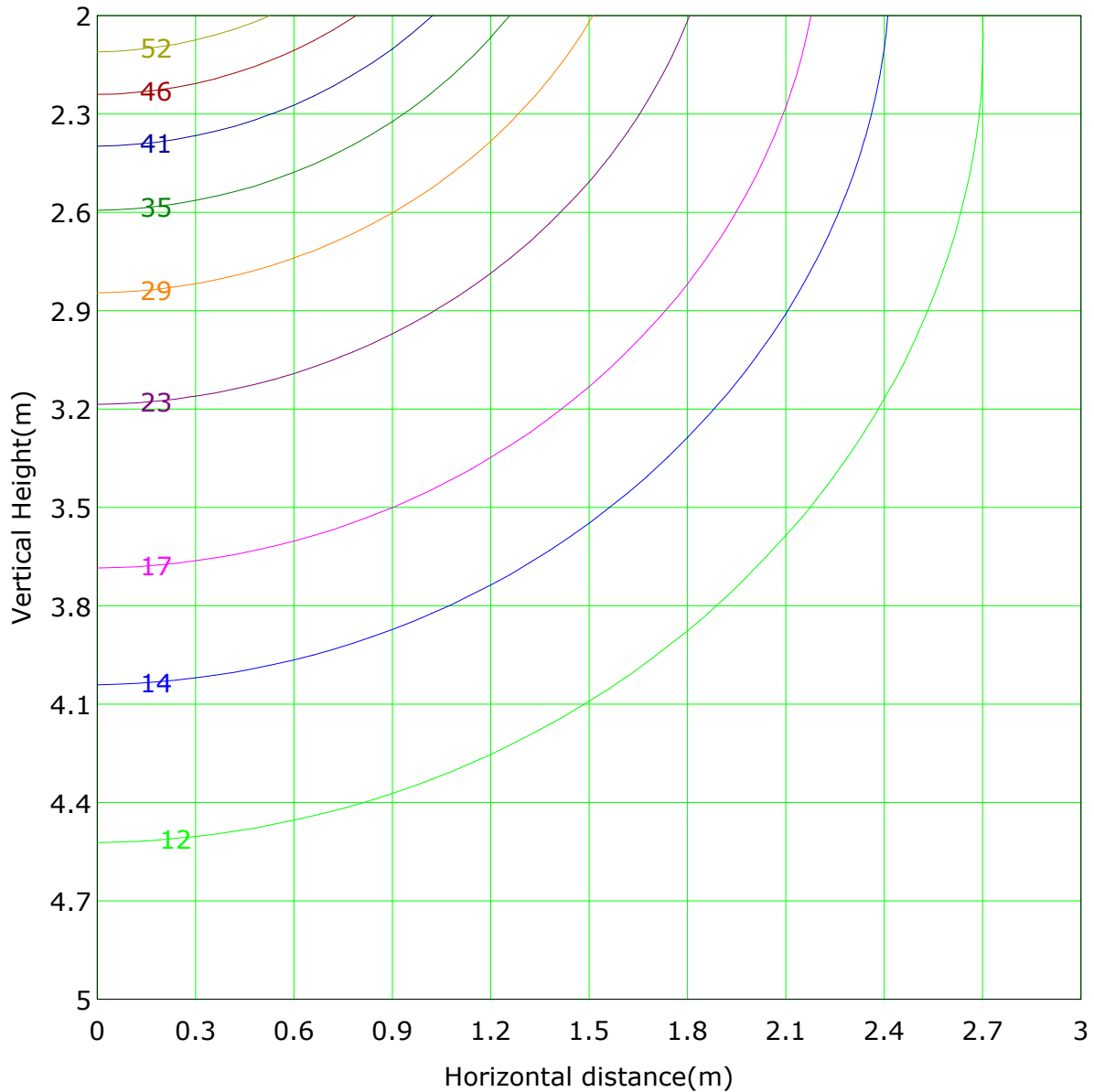
Distance: 9.028 m

Humidity: 60%

Inspector:



## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 57.9 lx
( 10%): 5.8 lx	( 20%): 11.6 lx	
( 25%): 14.5 lx	( 30%): 17.4 lx	
( 40%): 23.1 lx	( 50%): 28.9 lx	
( 60%): 34.7 lx	( 70%): 40.5 lx	
( 80%): 46.3 lx	( 90%): 52.1 lx	

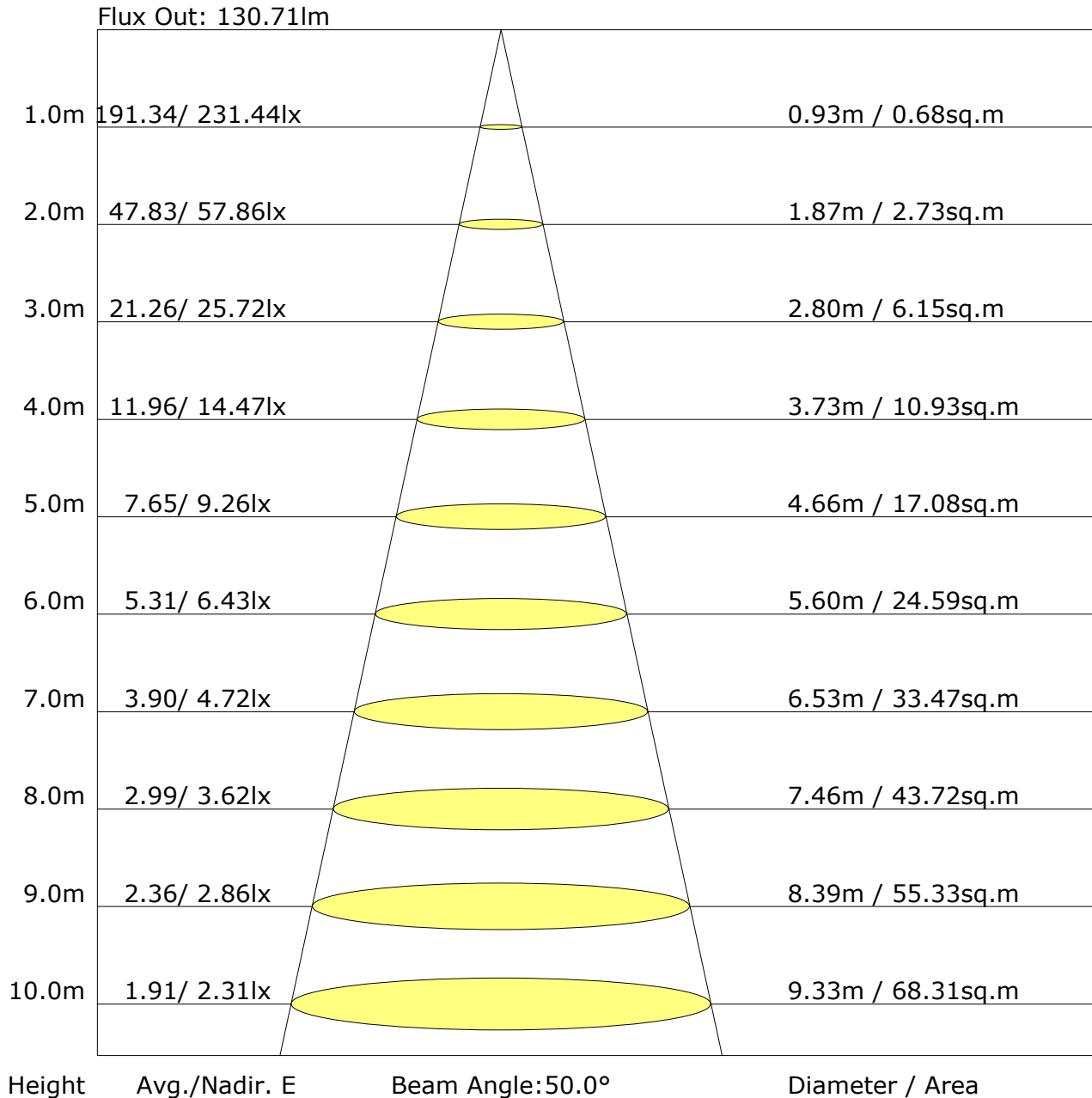
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Aaron

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

## Unit: 1m

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	27.8	29.4	28.2	29.8	30.1	27.8	29.4	28.2	29.8	30.1
3H	29.5	31.0	29.9	31.4	31.7	29.5	31.0	29.9	31.4	31.7
4H	30.1	31.5	30.5	31.9	32.3	30.1	31.5	30.5	31.9	32.3
6H	30.5	31.8	30.9	32.2	32.6	30.5	31.8	30.9	32.2	32.6
8H	30.6	31.8	31.0	32.2	32.6	30.5	31.8	31.0	32.2	32.6
12H	30.6	31.8	31.0	32.2	32.6	30.5	31.7	31.0	32.1	32.5
X=4H Y=2H	28.4	29.8	28.8	30.1	30.5	28.5	29.9	28.9	30.2	30.6
3H	30.3	31.5	30.7	31.9	32.3	30.4	31.6	30.8	32.0	32.4
4H	31.0	32.1	31.4	32.5	32.9	31.1	32.2	31.6	32.6	33.1
6H	31.5	32.4	31.9	32.8	33.3	31.6	32.5	32.0	32.9	33.4
8H	31.6	32.4	32.0	32.9	33.4	31.6	32.5	32.1	33.0	33.4
12H	31.6	32.4	32.1	32.9	33.4	31.7	32.4	32.1	32.9	33.4
X=8H Y=4H	31.2	32.1	31.7	32.6	33.0	31.4	32.3	31.9	32.8	33.2
6H	31.7	32.5	32.3	33.0	33.5	32.0	32.7	32.5	33.2	33.7
8H	31.9	32.6	32.4	33.1	33.6	32.1	32.7	32.6	33.3	33.8
12H	32.0	32.6	32.5	33.1	33.7	32.1	32.7	32.7	33.2	33.8
X=12H Y=4H	31.2	32.0	31.7	32.5	33.0	31.5	32.3	32.0	32.7	33.2
6H	31.8	32.5	32.3	32.9	33.5	32.0	32.7	32.6	33.2	33.7
8H	32.0	32.5	32.5	33.0	33.6	32.2	32.8	32.7	33.3	33.8

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 = 1.50									
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	0.59	0.67	0.75	0.80	0.88	0.92	0.96	1.00	1.03	
	0.30		0.51	0.60	0.68	0.73	0.81	0.87	0.91	0.96	1.00	
	0.20		0.46	0.54	0.62	0.68	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.57	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99	
	0.30		0.50	0.58	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
	0.20		0.45	0.53	0.61	0.67	0.75	0.80	0.84	0.90	0.94	
0.30	0.50	0.20	0.56	0.63	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.50	0.57	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	0.20		0.45	0.53	0.60	0.66	0.73	0.78	0.82	0.87	0.91	
0.00	0.00	0.00	0.43	0.50	0.57	0.63	0.70	0.75	0.78	0.83	0.86	
Rating:5W 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 = 1.50									
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	0.96	0.82	0.69	0.60	0.48	0.40	0.34	0.26	0.21	
	0.30		0.80	0.70	0.60	0.53	0.43	0.37	0.32	0.25	0.20	
	0.20		0.69	0.61	0.53	0.48	0.40	0.34	0.29	0.23	0.19	
0.50	0.50	0.20	0.93	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20	
	0.30		0.78	0.68	0.58	0.52	0.42	0.35	0.30	0.24	0.19	
	0.20		0.68	0.60	0.52	0.47	0.39	0.33	0.28	0.23	0.19	
0.30	0.50	0.20	0.90	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.77	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.67	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.57	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14	
Rating:5W 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 = 1.50									
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	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	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	0.21	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
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:5W 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:  
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 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: