

Report No.:

Test Time: 2018/8/30 09:55

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: RIBBONLYTE

Luminaire Description: RBS2244.460PH 1FT(300mm)

Luminous Length (mm): 300

Luminous Width (mm): 8

Luminous Height (mm): 1

Voltage: 24.0 V

Current: 0.177 A

Power: 4.24 W

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 544.5 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H119.1

Vertical Diffuse Angle(50%): V118.9

Luminaire Efficacy Rating (LER): 128

Max. Intensity: 177.31 cd

Total Rated Lamp Lumens: 544.5 lm

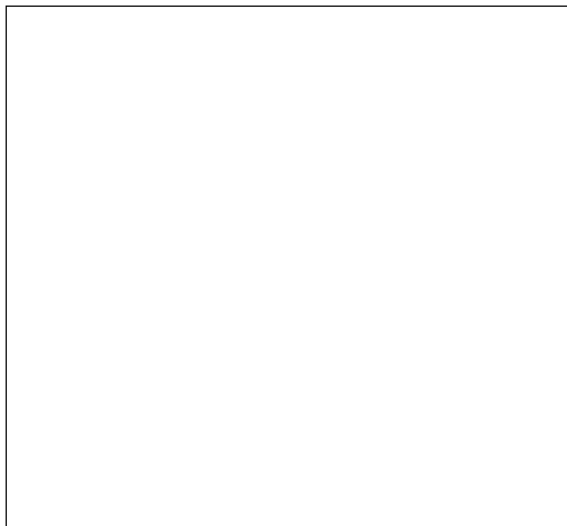
Efficiency: 100%

Upward Ratio: 1%

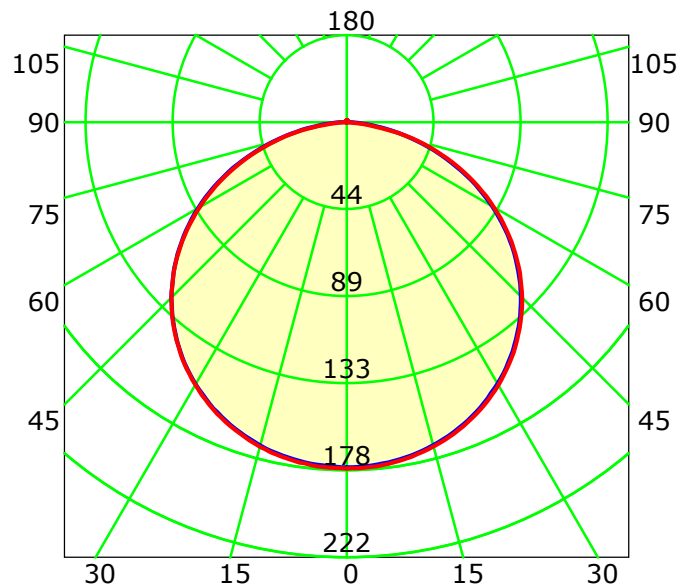
Central Intensity: 176.47 cd

Pos of Max. Intensity: H330 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 119.0° 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

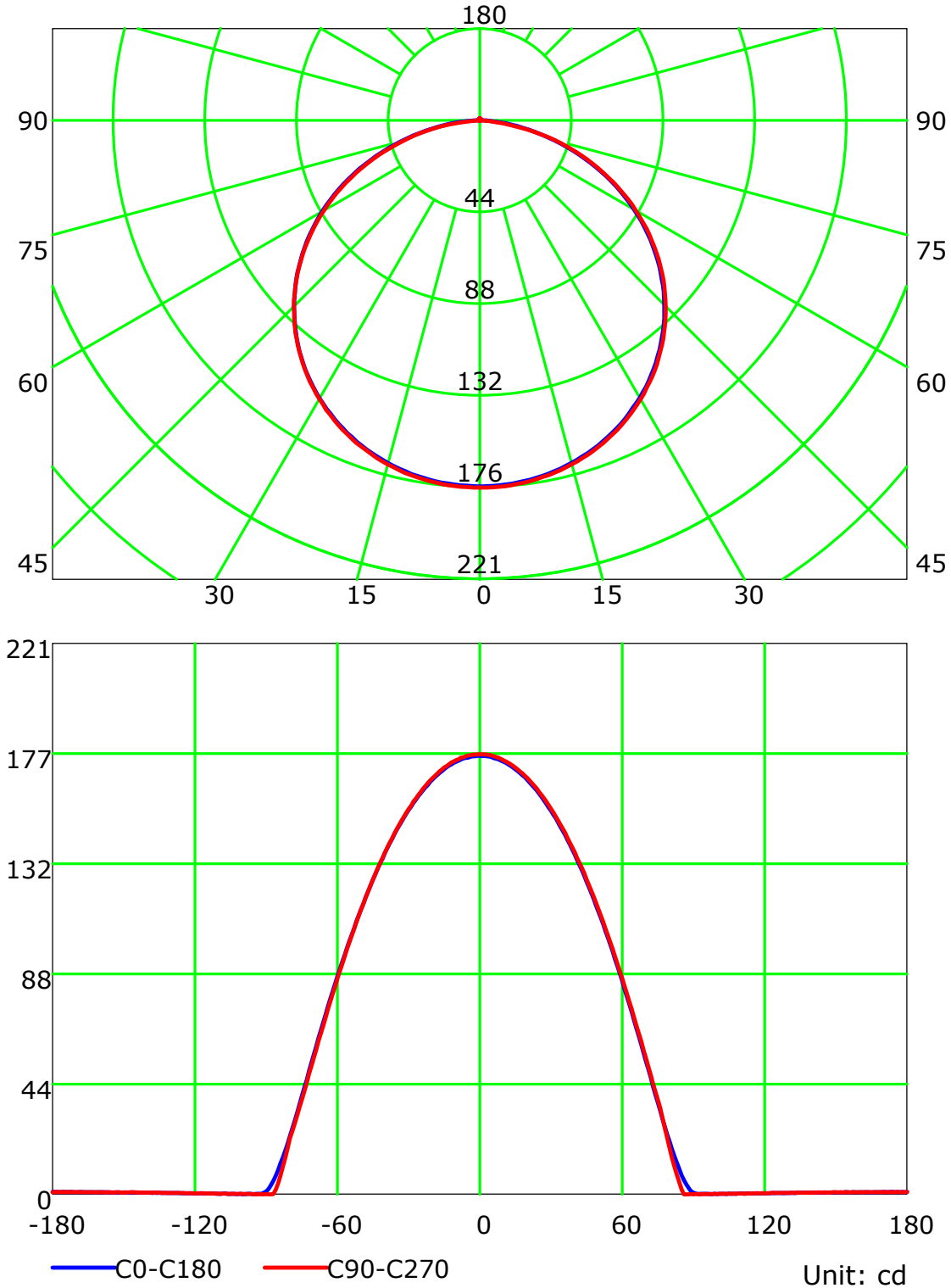
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

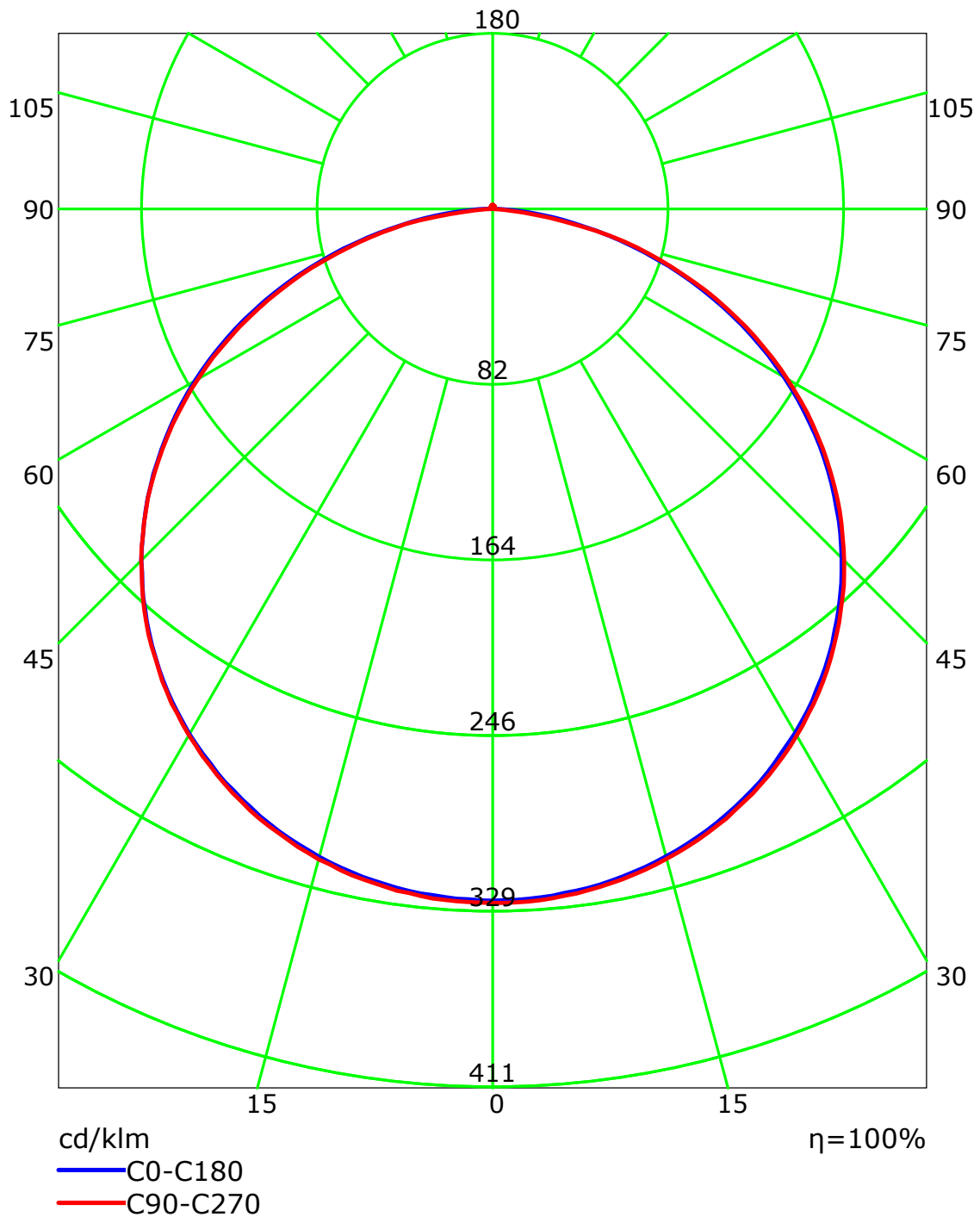
Luminous Intensity Distribution Curve



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:

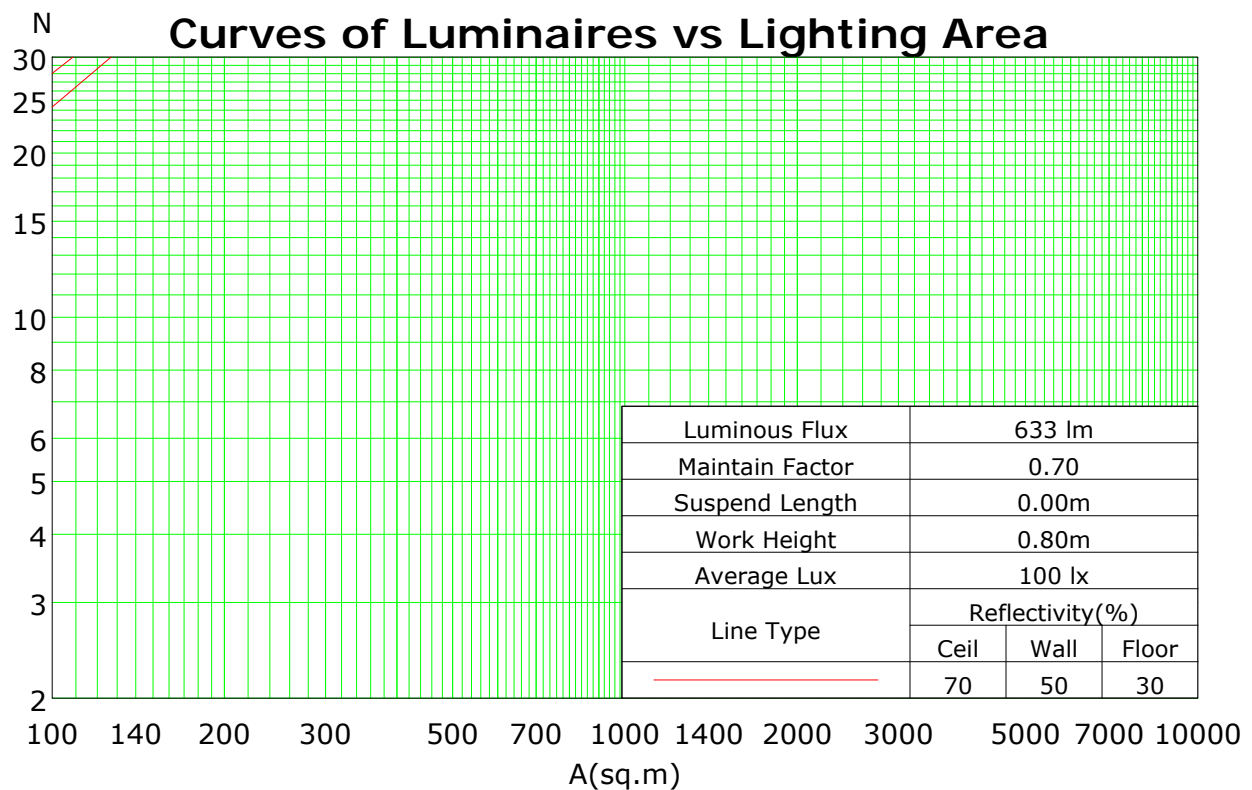
Coefficients Of Utilization - Zonal Cavity Method

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	103	99	95	106	101	97	94	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	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	59	57
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

Spacing Criteria (0-180): 1.30

Spacing Criteria (90-270): 1.30

Spacing Criteria (Diagonal): 1.43



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

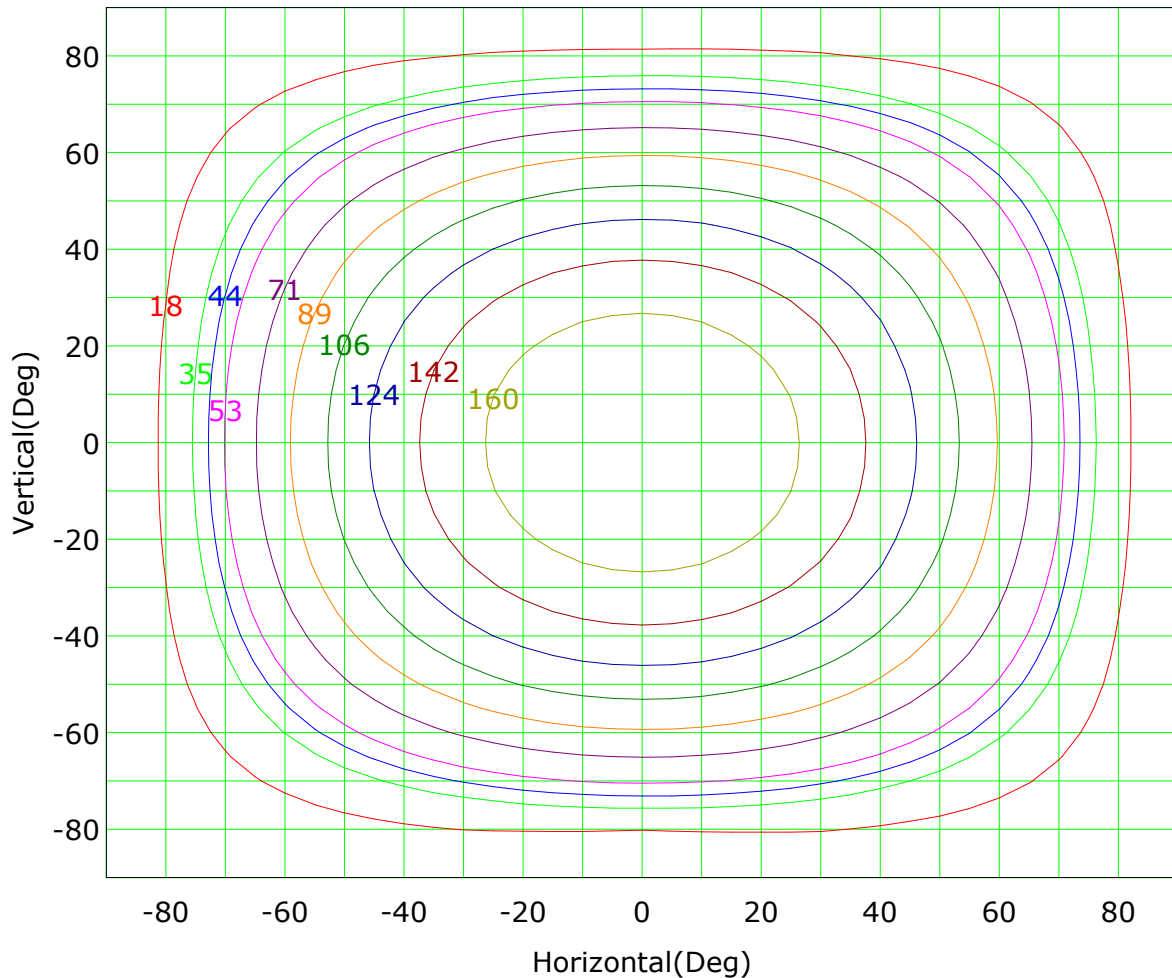
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



Imax (100%): 177 cd

(10%): 18 cd	(20%): 35 cd
(25%): 44 cd	(30%): 53 cd
(40%): 71 cd	(50%): 89 cd
(60%): 106 cd	(70%): 124 cd
(80%): 142 cd	(90%): 160 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

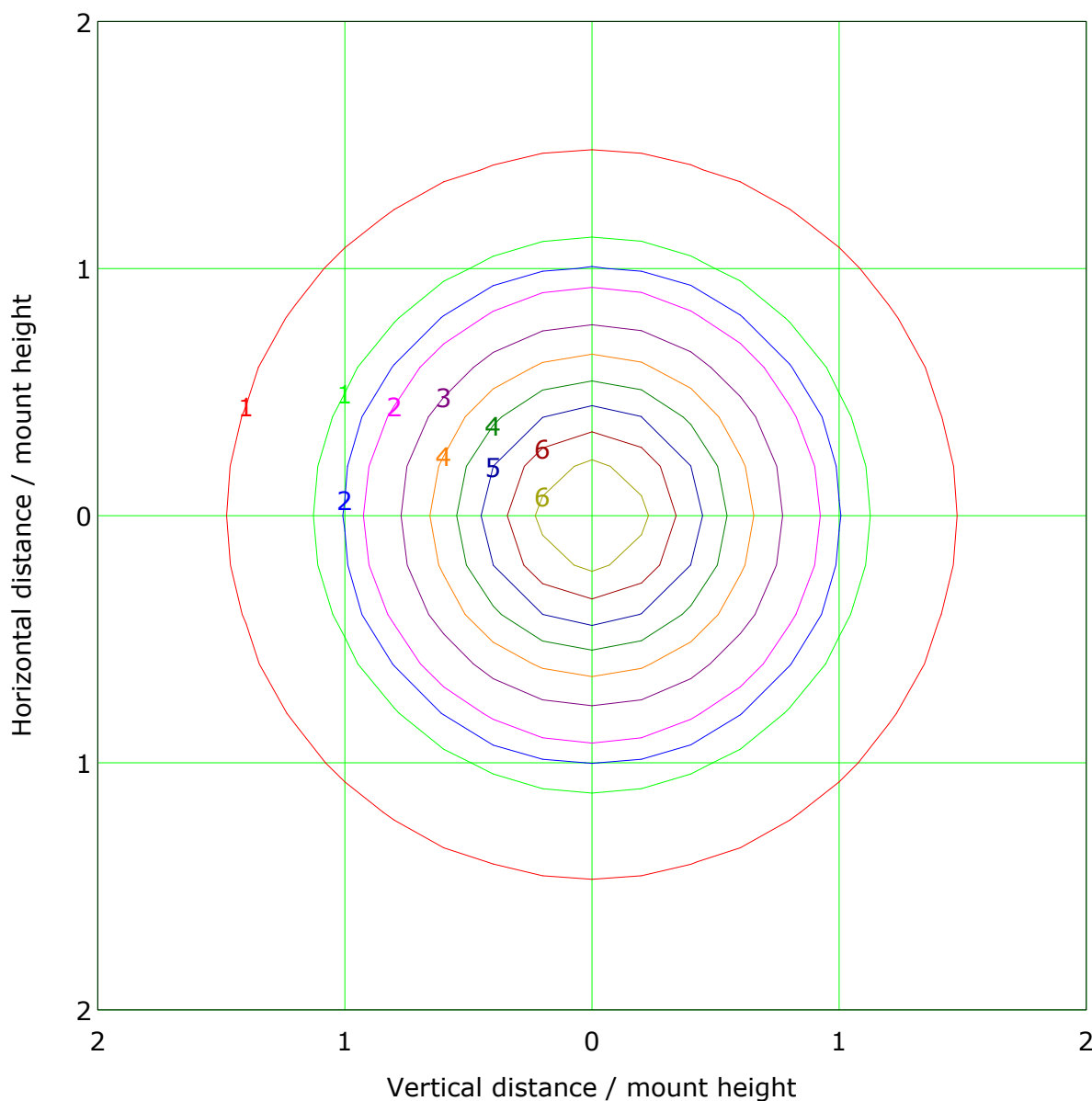
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 7.1 lx

(10%): 0.7 lx	(20%): 1.4 lx
(25%): 1.8 lx	(30%): 2.1 lx
(40%): 2.8 lx	(50%): 3.5 lx
(60%): 4.3 lx	(70%): 5.0 lx
(80%): 5.7 lx	(90%): 6.4 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

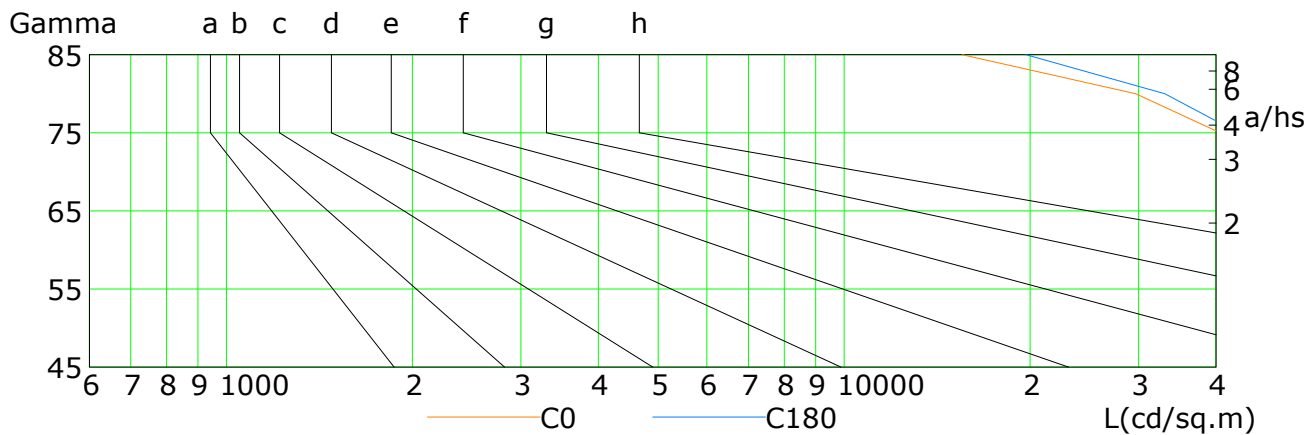
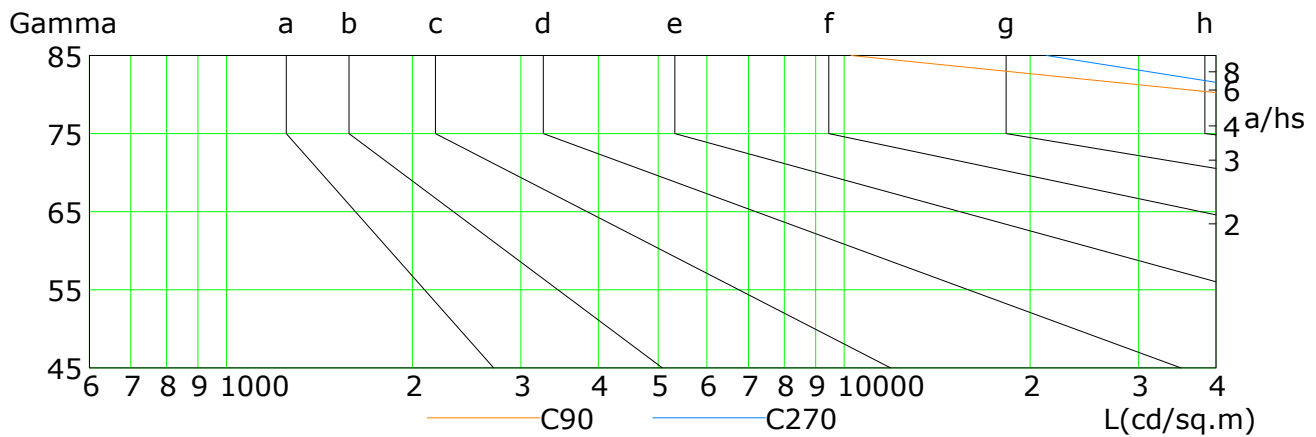
Humidity: 60%

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	65981	64226	61936	58830	54604	48669	40661	29683	15531
C90	74505	74147	73297	71960	69817	66299	60694	43331	10270
C180	66452	64857	62817	60124	56408	50990	43504	33053	19703
C270	74522	74179	73312	71951	69826	66360	60646	53387	21276

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

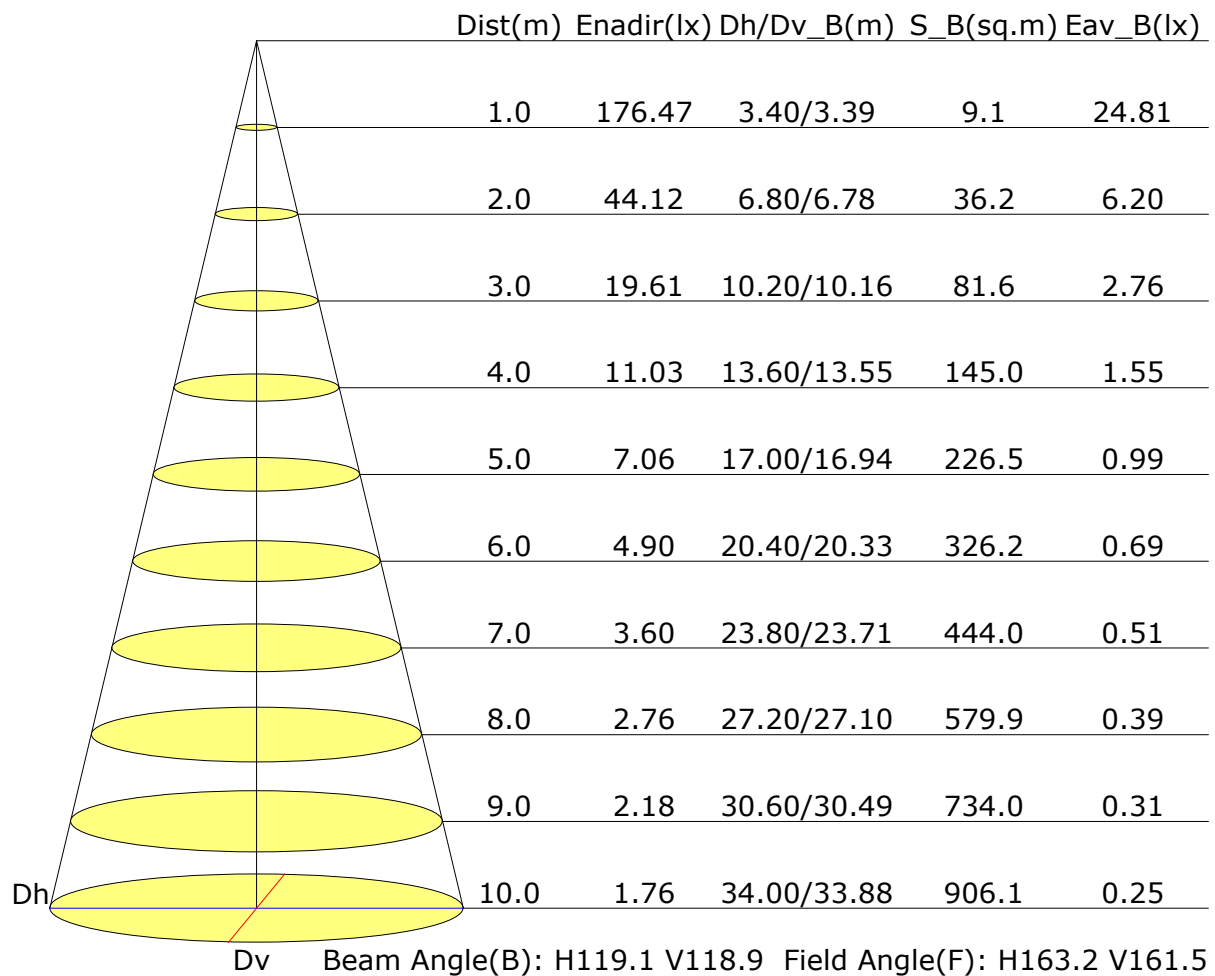
Test Device: GPM-1800B

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

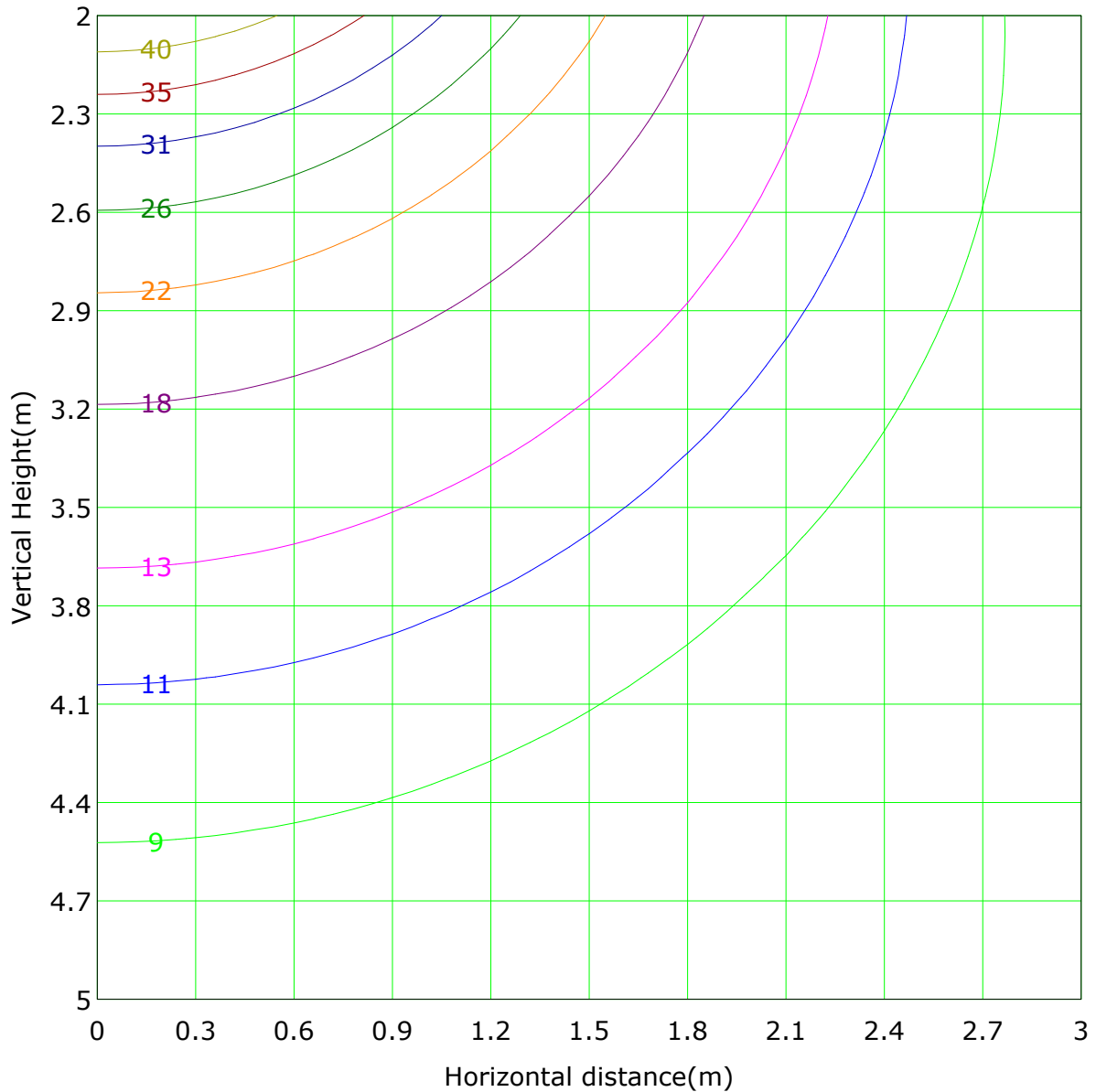
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 44.1 lx
(10%): 4.4 lx	(20%): 8.8 lx	
(25%): 11.0 lx	(30%): 13.2 lx	
(40%): 17.6 lx	(50%): 22.1 lx	
(60%): 26.5 lx	(70%): 30.9 lx	
(80%): 35.3 lx	(90%): 39.7 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

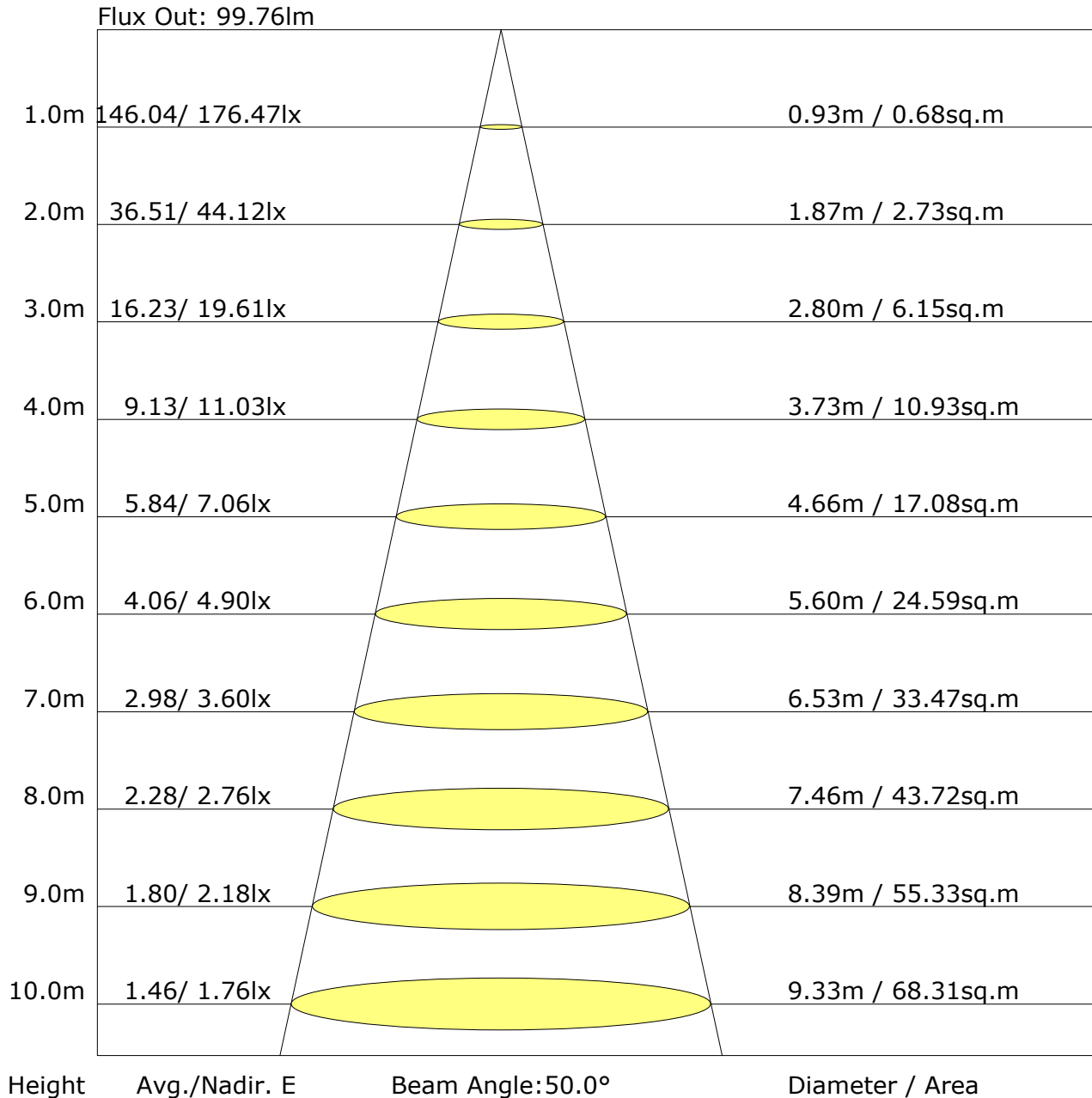
Distance: 9.028 m

Humidity: 60%

Inspector:

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	29.0	30.7	29.4	31.0	31.3	28.7	30.4	29.1	30.7	31.0
3H	30.9	32.4	31.3	32.7	33.1	30.4	31.9	30.8	32.3	32.6
4H	31.5	32.9	31.9	33.3	33.7	31.0	32.4	31.4	32.8	33.2
6H	32.0	33.3	32.4	33.7	34.1	31.3	32.6	31.8	33.0	33.4
8H	32.1	33.4	32.5	33.8	34.2	31.4	32.6	31.8	33.0	33.4
12H	32.2	33.4	32.6	33.8	34.2	31.4	32.6	31.8	33.0	33.4
X=4H Y=2H	29.6	31.0	30.0	31.4	31.8	29.4	30.8	29.8	31.1	31.5
3H	31.7	32.8	32.1	33.2	33.7	31.3	32.5	31.7	32.9	33.3
4H	32.4	33.5	32.9	33.9	34.4	32.0	33.1	32.4	33.5	33.9
6H	33.0	33.9	33.5	34.4	34.8	32.4	33.4	32.9	33.8	34.3
8H	33.2	34.0	33.6	34.5	35.0	32.5	33.4	33.0	33.8	34.3
12H	33.3	34.0	33.8	34.5	35.0	32.5	33.3	33.0	33.8	34.2
X=8H Y=4H	32.7	33.5	33.1	34.0	34.5	32.3	33.2	32.8	33.6	34.1
6H	33.3	34.1	33.8	34.6	35.0	32.8	33.5	33.3	34.0	34.5
8H	33.5	34.2	34.1	34.7	35.2	32.9	33.6	33.4	34.1	34.6
12H	33.7	34.3	34.2	34.8	35.4	33.0	33.5	33.5	34.0	34.6
X=12H Y=4H	32.7	33.5	33.2	34.0	34.4	32.3	33.1	32.8	33.6	34.1
6H	33.4	34.0	33.9	34.5	35.0	32.9	33.5	33.4	34.0	34.6
8H	33.6	34.2	34.1	34.7	35.3	33.0	33.6	33.5	34.1	34.7

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	0.87	0.92	0.96	1.00	1.03
	0.30		0.51	0.59	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.45	0.54	0.62	0.68	0.76	0.82	0.86	0.92	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	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.45	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.55	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95
	0.30		0.49	0.57	0.64	0.70	0.77	0.82	0.85	0.90	0.93
	0.20		0.45	0.52	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.42	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.86
Rating:4W 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	0.97	0.82	0.69	0.60	0.48	0.40	0.34	0.27	0.22	
	0.30		0.81	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.69	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.93	0.79	0.67	0.58	0.46	0.42	0.33	0.25	0.21	
	0.30		0.79	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.68	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.90	0.76	0.64	0.55	0.44	0.36	0.31	0.24	0.20	
	0.30		0.77	0.67	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.68	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.57	0.50	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
Rating:4W 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	0.21	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	0.09	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:4W 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: