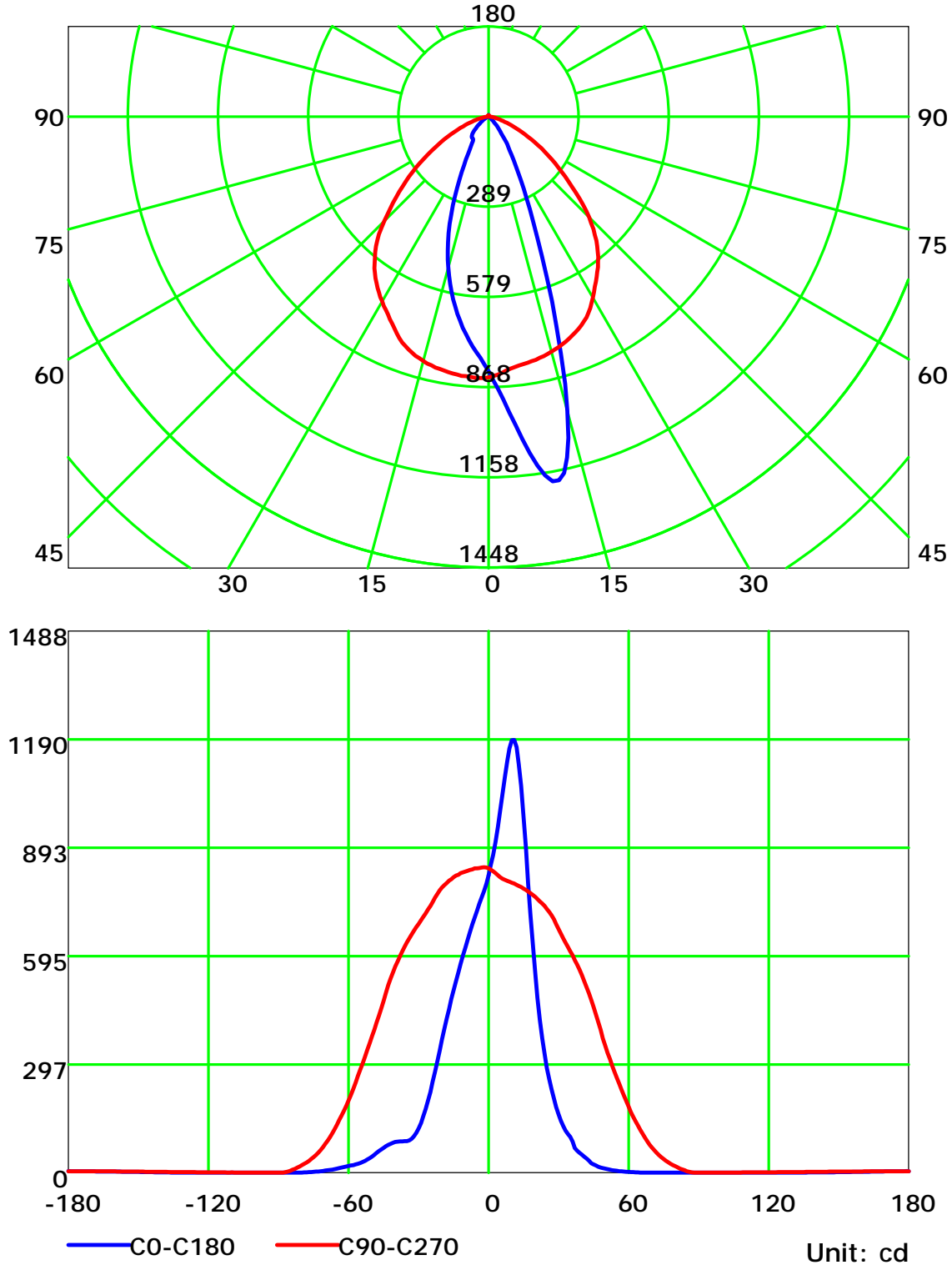




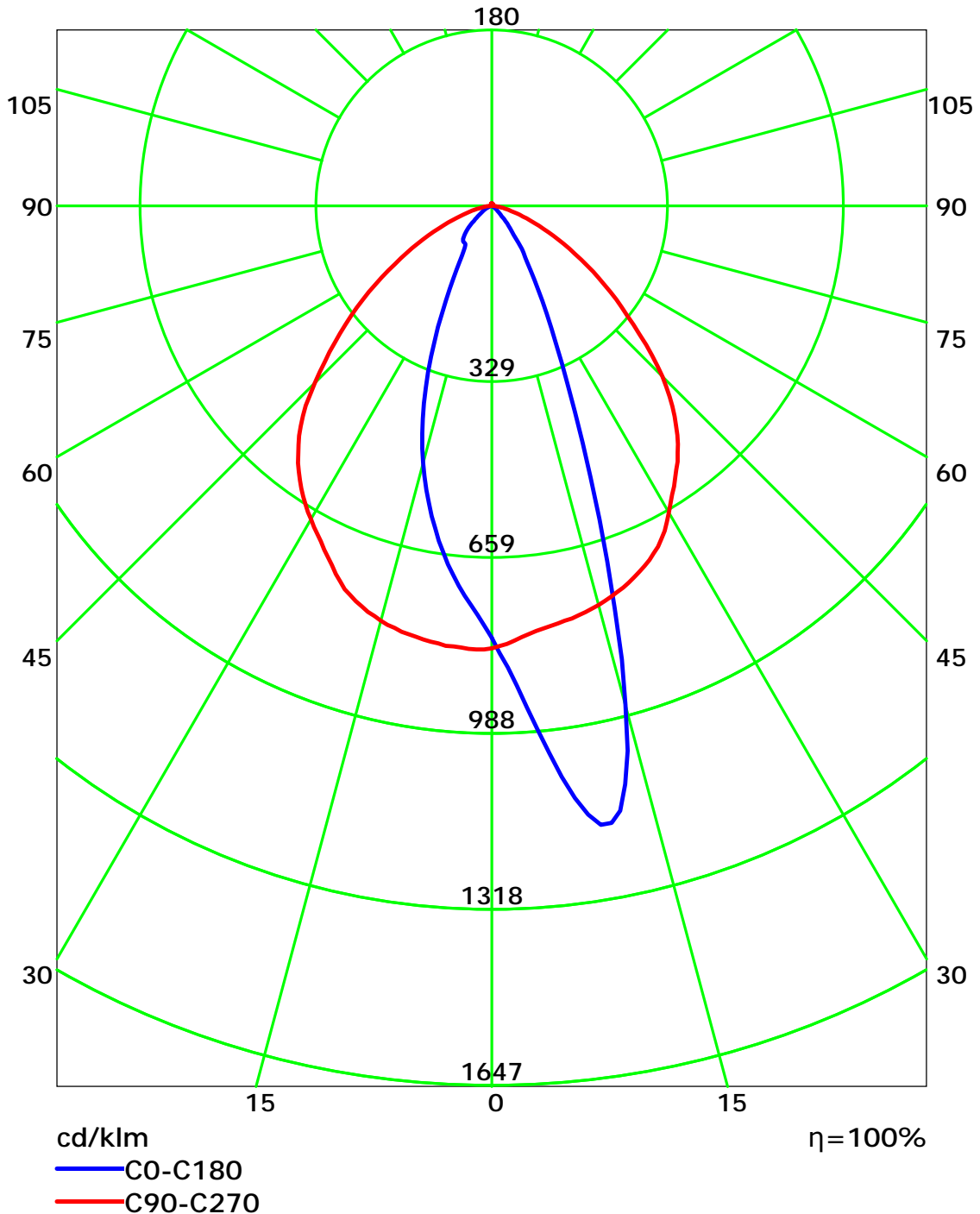
Luminous Intensity Distribution Curve



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

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: 25°C
Operator: leo

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

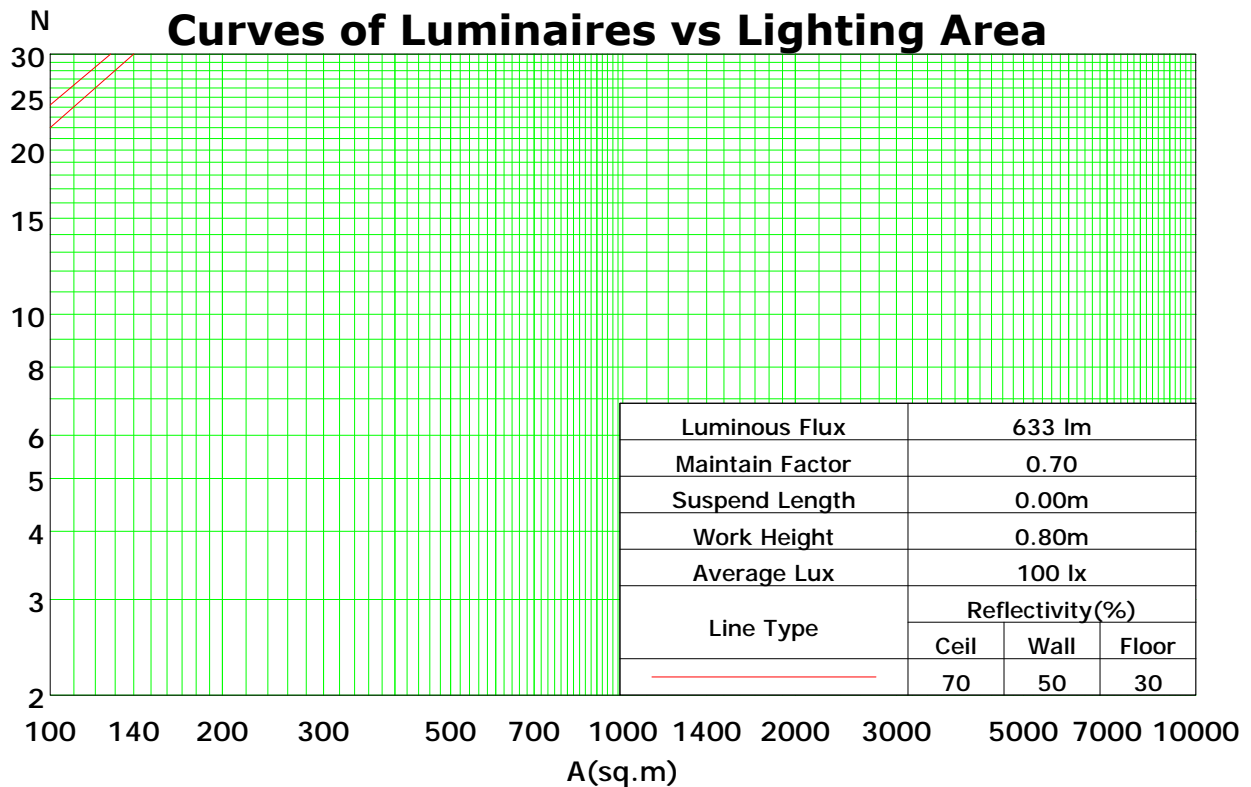
Coefficients Of Utilization - Zonal Cavity Method

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	112	109	106	103	109	106	104	101	102	100	98	98	96	95	94	93	92	90
2	105	99	94	90	102	97	93	89	94	90	87	90	87	85	87	85	83	81
3	98	90	84	80	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	77	70	65	85	76	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	59	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	58	53	49	57	52	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	45	44
10	65	54	48	43	64	54	47	43	53	47	43	52	46	43	51	46	42	41

Spacing Criteria (0-180): 0.71

Spacing Criteria (90-270): 1.20

Spacing Criteria (Diagonal): 0.89



C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0:1.0

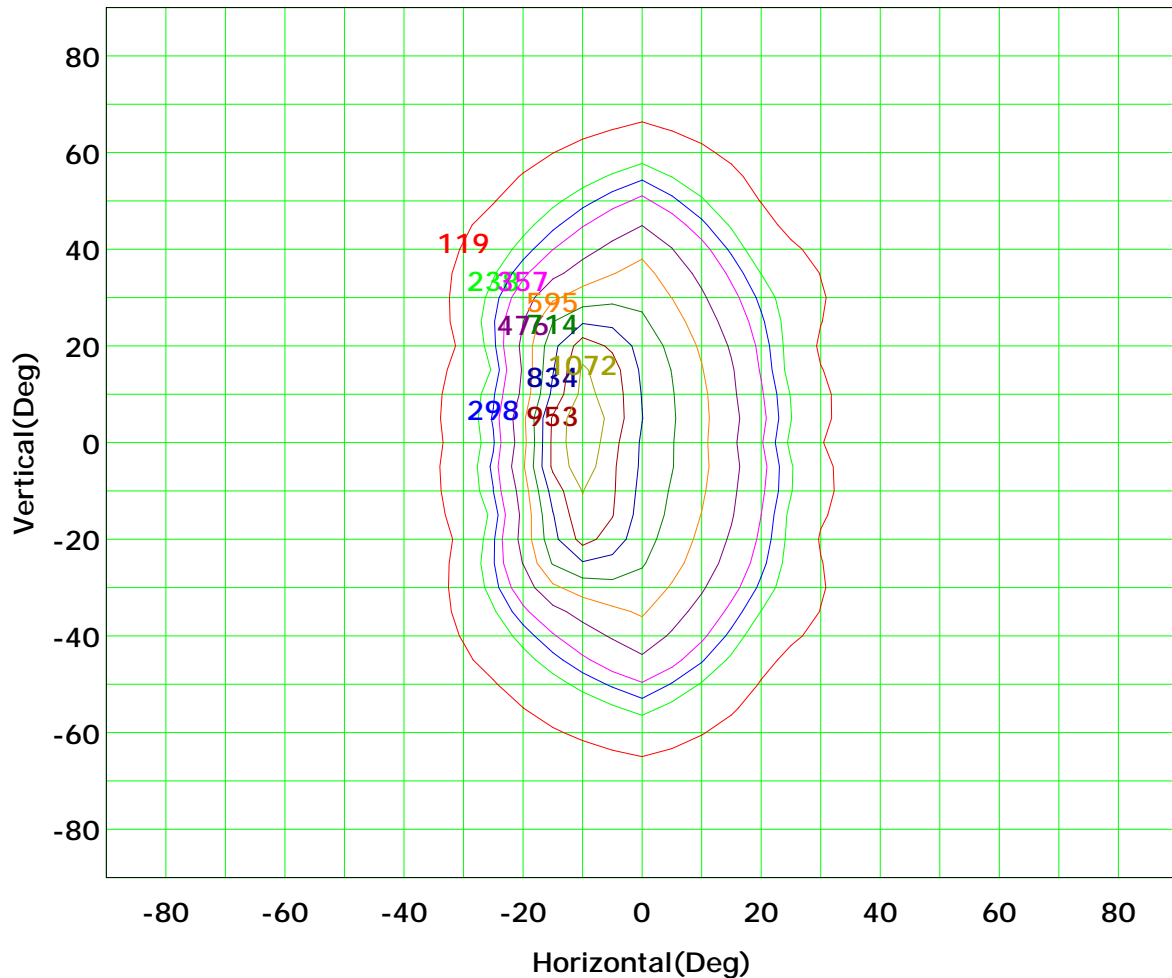
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Isocandela (rectangle)



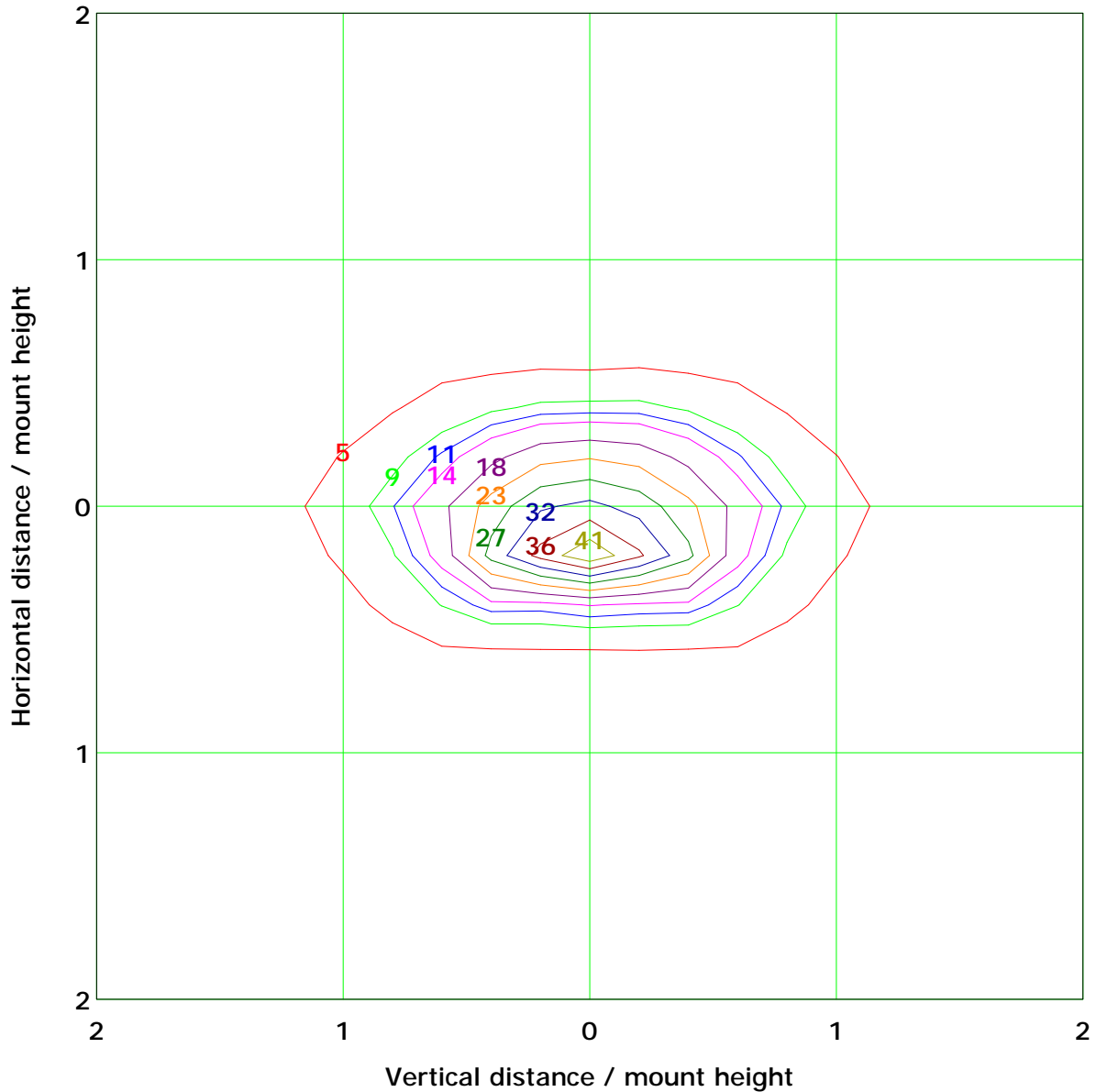
Imax (100%): 1191 cd

(10%): 119 cd	(20%): 238 cd
(25%): 298 cd	(30%): 357 cd
(40%): 476 cd	(50%): 595 cd
(60%): 714 cd	(70%): 834 cd
(80%): 953 cd	(90%): 1072 cd

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

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%): 45.4 lx	
(10%): 4.5 lx	(20%): 9.1 lx
(25%): 11.4 lx	(30%): 13.6 lx
(40%): 18.2 lx	(50%): 22.7 lx
(60%): 27.3 lx	(70%): 31.8 lx
(80%): 36.3 lx	(90%): 40.9 lx

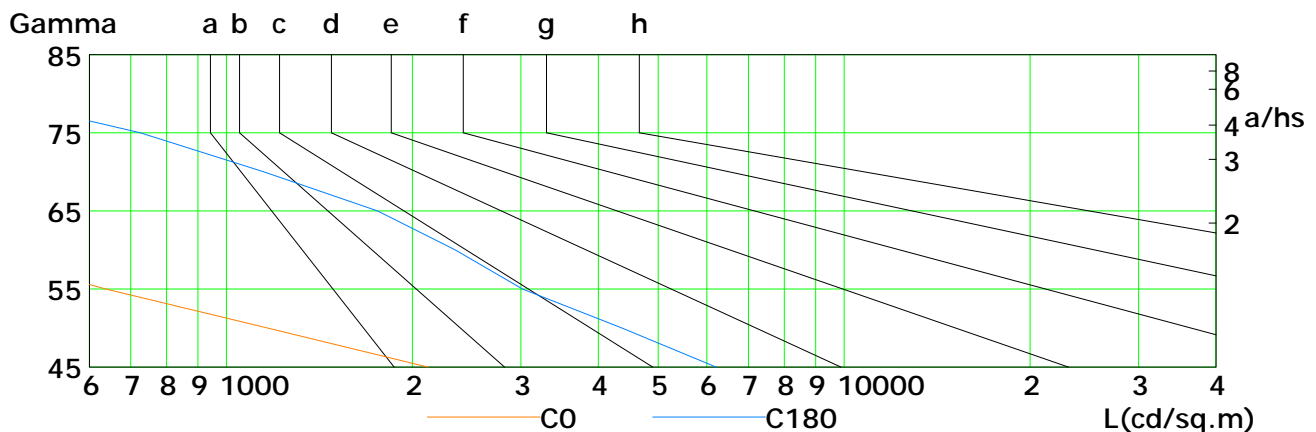
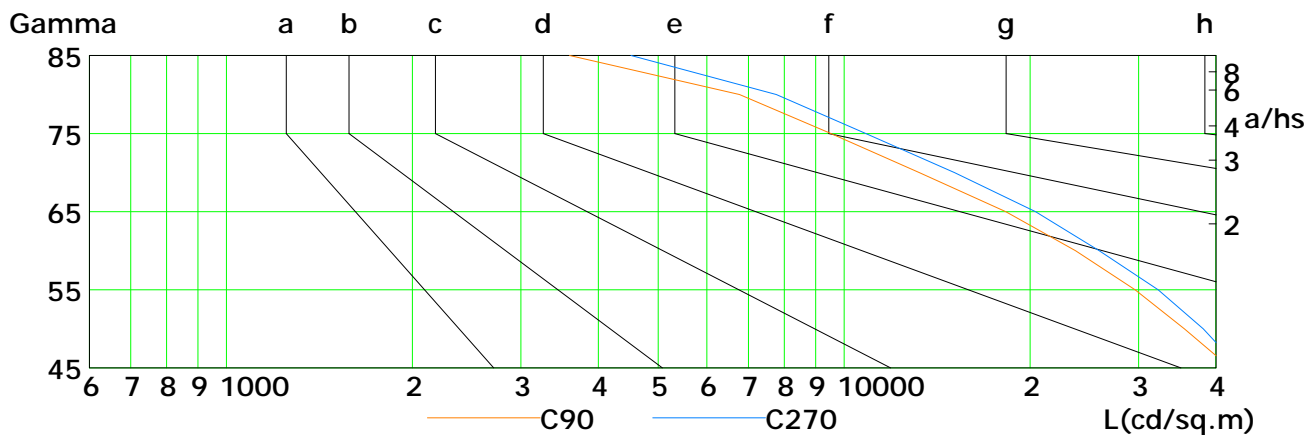
C Plane (°):0.0-360.0: 30.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 25°C
Operator: leo

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	2120	1166	638	378	181	177	208	281	487
C90	42262	35549	29601	23693	18282	13239	9522	6775	3595
C180	6209	4373	3015	2348	1758	1151	725	389	528
C270	43817	38140	32254	25909	20412	15102	10844	7769	4521

C Plane (°):0.0-360.0: 30.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 25°C

Operator: leo

Gamma Plane (°):0.0-180.0:1.0

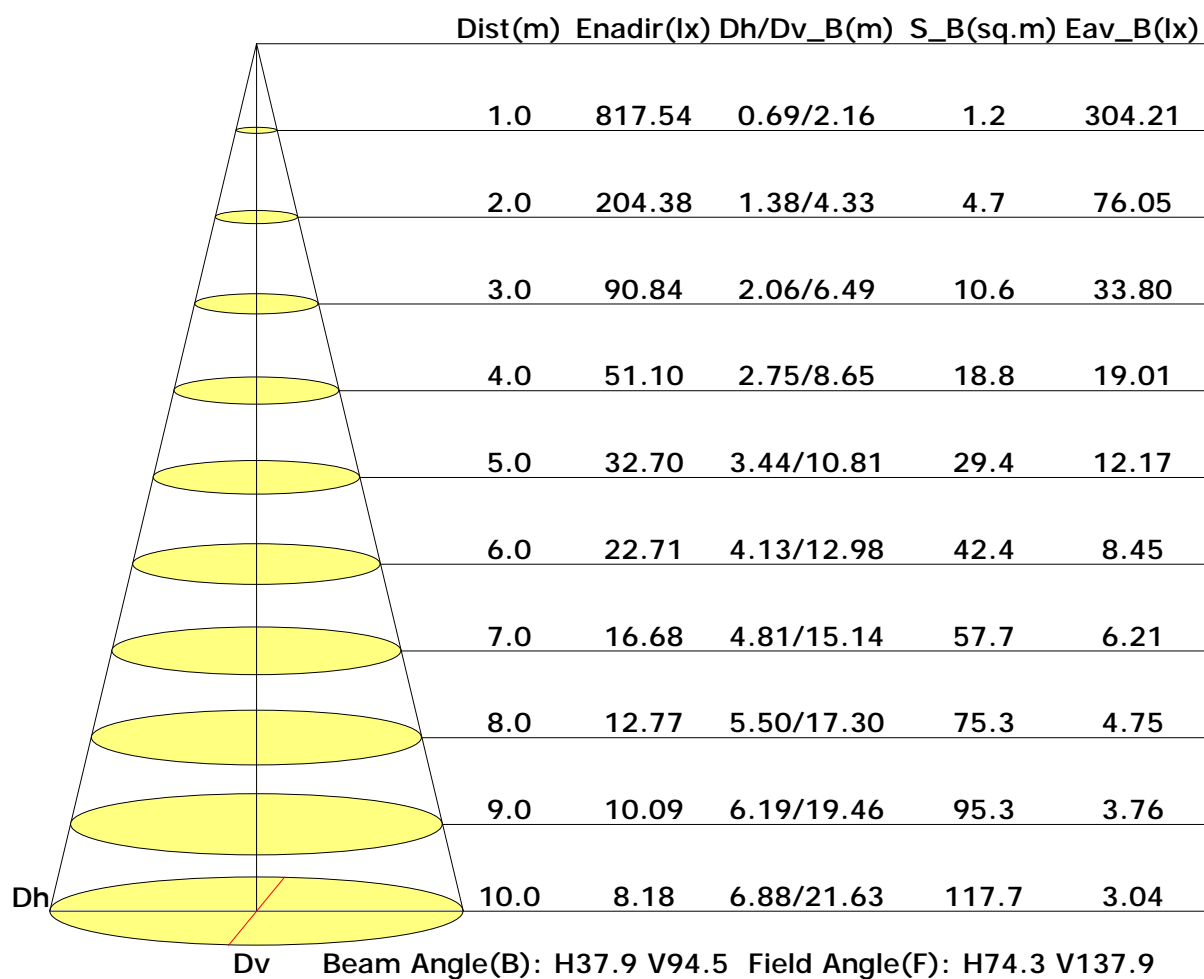
Test Device: GPM-1800B

Distance: 9.028 m

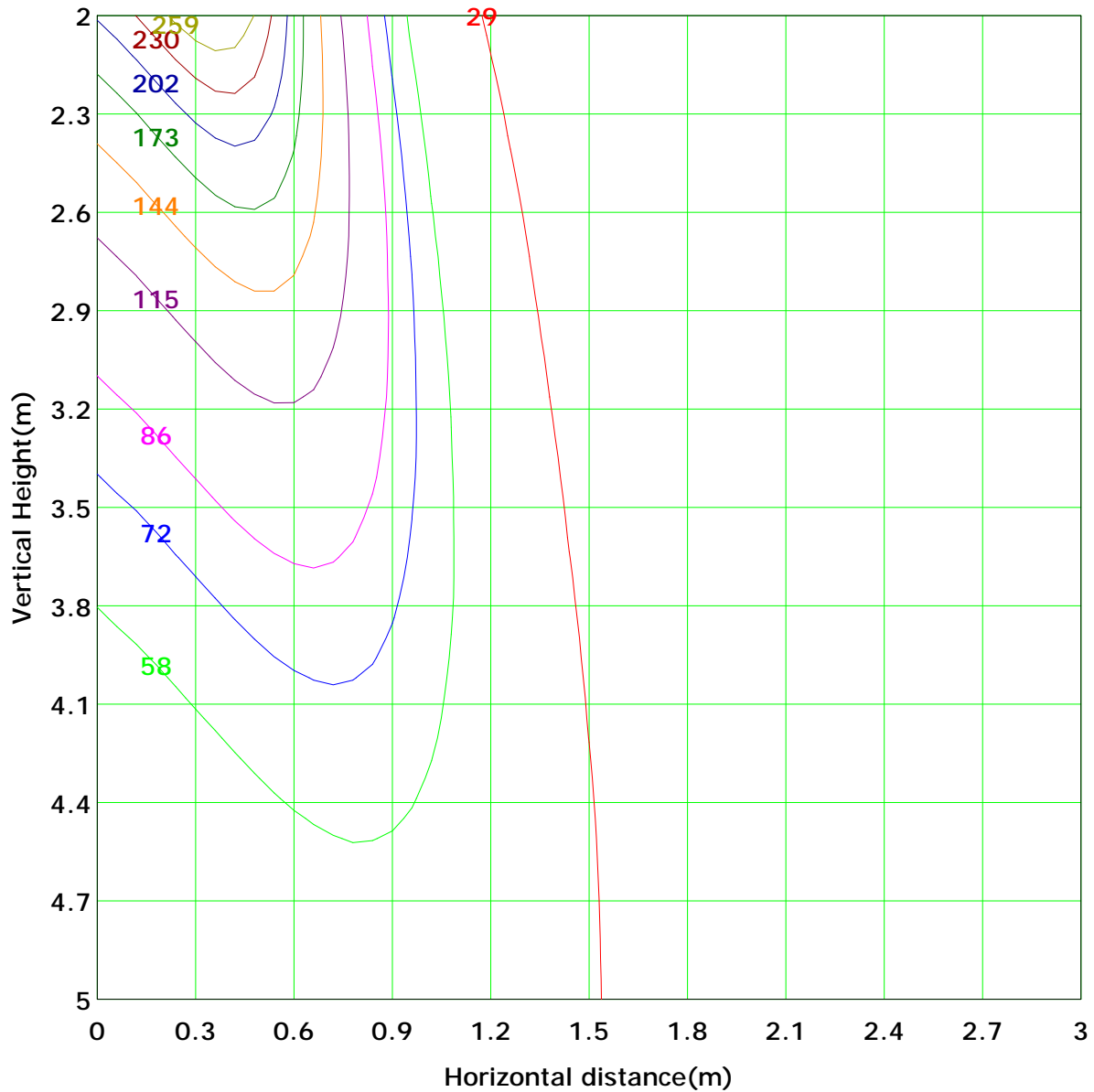
Humidity: 60%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 287.9 lx
(10%): 28.8 lx	(20%): 57.6 lx	
(25%): 72.0 lx	(30%): 86.4 lx	
(40%): 115.2 lx	(50%): 144.0 lx	
(60%): 172.7 lx	(70%): 201.5 lx	
(80%): 230.3 lx	(90%): 259.1 lx	

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

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



Area Flux Table

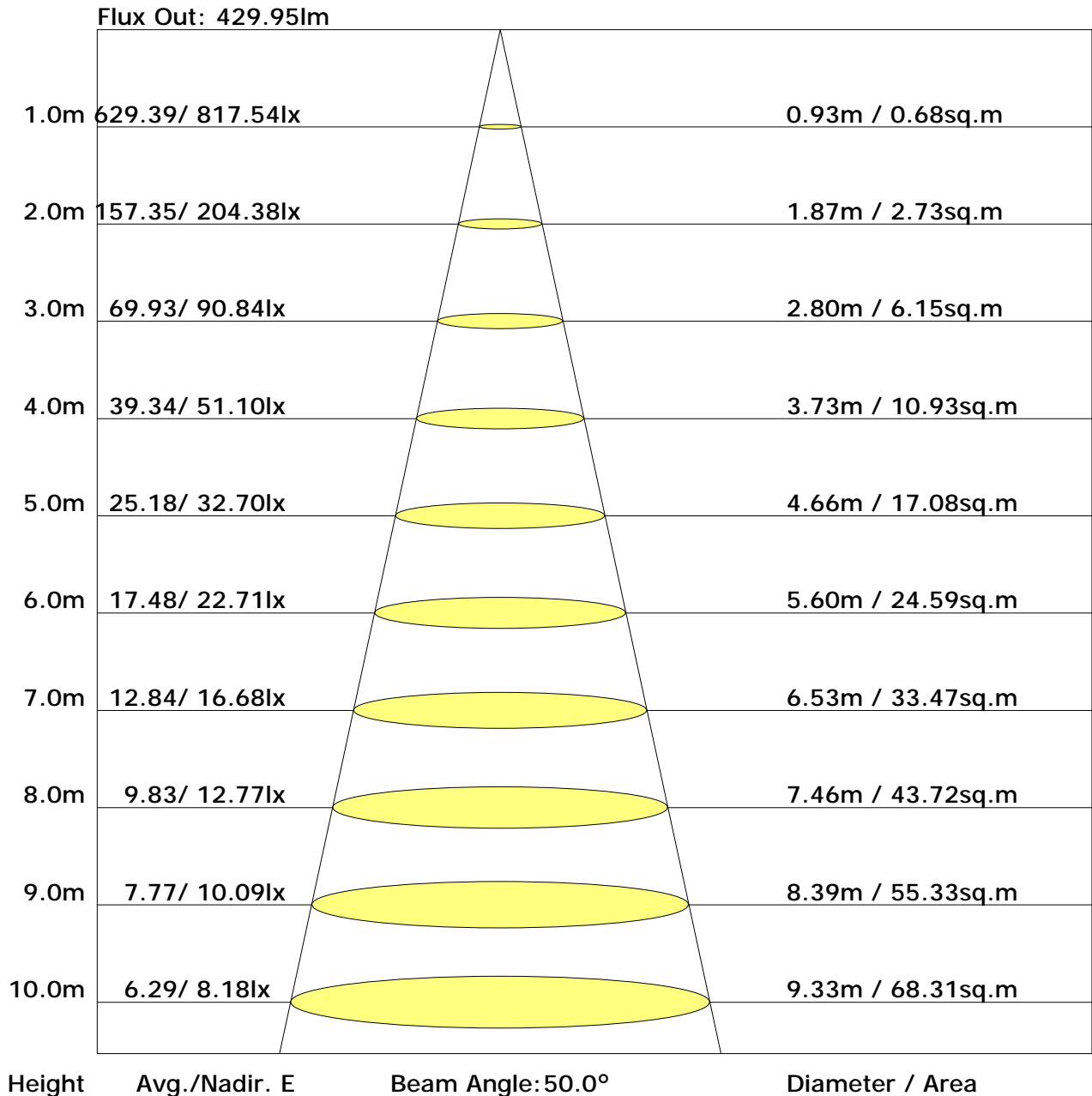
Unit: lm

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)
Horizontal plane	-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	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
	-60	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	4.7	0.0
	-50	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	12.2	0.0
	-40	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	23.6	0.0
	-30	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	58.8	48.4
	-20	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	130.3	122.3
	-10	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	203.6	197.5
	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	250.5	244.7
	10	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	200.7	194.1
	20	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	79.5	71.5
	30	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	24.9	6.8
	40	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	5.8	0.0
	50	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	1.1	0.0
	60	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	0.0	0.0
	70	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
	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	0.1	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	0.0	0.0
	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	998	
	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		887

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

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

The Average Illuminance Effective Figure



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	-0.0	1.2	0.3	1.5	1.9	21.0	22.3	21.4	22.6	22.9
3H	-0.0	1.1	0.4	1.4	1.8	22.1	23.2	22.5	23.5	23.9
4H	0.1	1.1	0.5	1.5	1.9	22.4	23.4	22.8	23.7	24.2
6H	0.3	1.3	0.8	1.7	2.1	22.5	23.4	22.9	23.8	24.2
8H	0.5	1.4	1.0	1.8	2.2	22.5	23.4	23.0	23.8	24.2
12H	0.8	1.7	1.3	2.1	2.5	22.5	23.3	22.9	23.7	24.2
X=4H Y=2H	7.1	8.1	7.5	8.5	8.9	20.8	21.8	21.3	22.2	22.6
3H	7.0	7.8	7.4	8.2	8.6	21.9	22.8	22.4	23.2	23.6
4H	6.9	7.6	7.4	8.1	8.6	22.2	23.0	22.7	23.4	23.9
6H	6.9	7.5	7.4	8.0	8.5	22.4	23.1	22.9	23.5	24.0
8H	6.9	7.5	7.4	8.0	8.5	22.5	23.0	22.9	23.5	24.0
12H	7.0	7.5	7.5	8.0	8.5	22.4	23.0	23.0	23.5	24.0
X=8H Y=4H	7.8	8.4	8.3	8.8	9.3	22.1	22.7	22.6	23.2	23.7
6H	7.7	8.2	8.3	8.8	9.3	22.3	22.8	22.8	23.3	23.8
8H	7.8	8.2	8.3	8.7	9.3	22.3	22.8	22.9	23.3	23.8
12H	7.9	8.2	8.4	8.8	9.4	22.3	22.7	22.9	23.2	23.8
X=12H Y=4H	7.8	8.4	8.3	8.9	9.4	22.1	22.6	22.6	23.1	23.6
6H	7.8	8.2	8.4	8.7	9.3	22.2	22.7	22.8	23.2	23.7
8H	7.9	8.2	8.4	8.7	9.3	22.3	22.7	22.8	23.2	23.8

Calculate in accordance with CIE 190:2010

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

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	0.72	0.81	0.86	0.91	0.96	1.00	1.03	1.06	1.08
	0.30		0.66	0.75	0.81	0.86	0.92	0.96	0.99	1.03	1.05
	0.20		0.61	0.70	0.77	0.82	0.88	0.93	0.96	1.00	1.03
0.50	0.50	0.20	0.70	0.79	0.84	0.88	0.93	0.97	0.99	1.02	1.03
	0.30		0.65	0.74	0.79	0.84	0.90	0.93	0.96	0.99	1.01
	0.20		0.61	0.70	0.76	0.80	0.86	0.90	0.93	0.97	1.00
0.30	0.50	0.20	0.69	0.77	0.82	0.86	0.90	0.93	0.95	0.98	1.00
	0.30		0.64	0.72	0.78	0.82	0.87	0.91	0.93	0.96	0.98
	0.20		0.61	0.69	0.75	0.79	0.85	0.88	0.91	0.94	0.96
0.00	0.00	0.00	0.59	0.67	0.72	0.76	0.81	0.85	0.87	0.90	0.92
Rating: 10W 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 = 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	0.77	0.62	0.52	0.45	0.35	0.29	0.24	0.19	0.15
	0.30		0.64	0.53	0.45	0.39	0.32	0.26	0.23	0.18	0.14
	0.20		0.55	0.46	0.40	0.35	0.29	0.24	0.21	0.17	0.14
0.50	0.50	0.20	0.73	0.59	0.49	0.42	0.33	0.31	0.23	0.17	0.14
	0.30		0.62	0.51	0.43	0.38	0.30	0.25	0.21	0.16	0.13
	0.20		0.54	0.45	0.39	0.34	0.28	0.23	0.20	0.16	0.13
0.30	0.50	0.20	0.71	0.56	0.47	0.40	0.31	0.25	0.21	0.16	0.13
	0.30		0.60	0.49	0.42	0.36	0.28	0.24	0.20	0.15	0.13
	0.20		0.53	0.44	0.38	0.33	0.26	0.22	0.19	0.15	0.12
0.00	0.00	0.00	0.41	0.33	0.27	0.23	0.18	0.15	0.12	0.09	0.08
Rating: 10W 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 = 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.20
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	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		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.30	0.50	0.20	0.14	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
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: 10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											