

Report No.: 1

Test Time: 23.08.2019 15:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 600 100W

Luminous Length (mm): 450

Luminous Height (mm): 80

Current: 0.469 A

Power Factor: 0.992

Lamp Description: LED

Luminous Width (mm): 450

Voltage: 222.2 V

Power: 103.70 W

Photometric Results

CIE Class: Direct

Measurement Flux: 12069 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.5, 105.9, 115.4, 115.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.9, 79.7, 87.9, 88.0

Luminaire Efficacy Rating (LER): 116.43

Max. Intensity: 7910.26 cd

S/MH(C0/C180): 1.47

Total Rated Lamp Lumens: 12069.0 lm

Efficiency: 100%

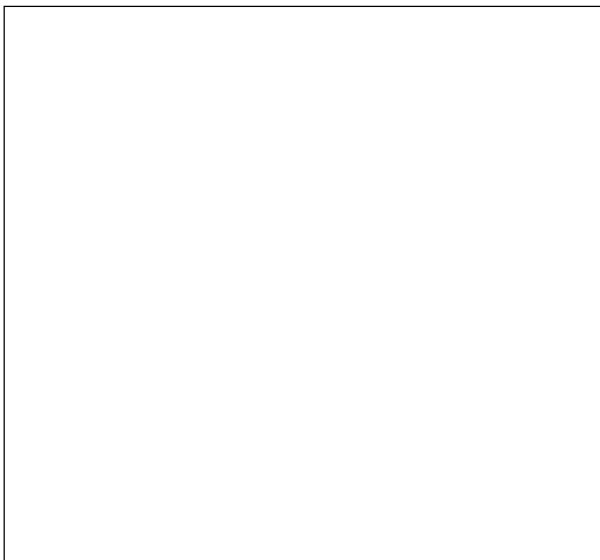
Upward Ratio: 1%

Central Intensity: 4986.51 cd

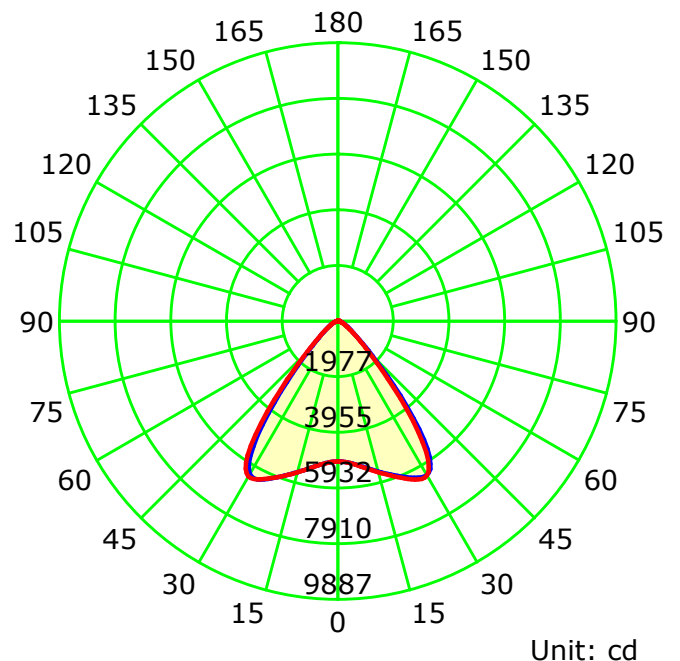
Pos of Max. Intensity: H225 V34

S/MH(C90/C270): 1.47

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

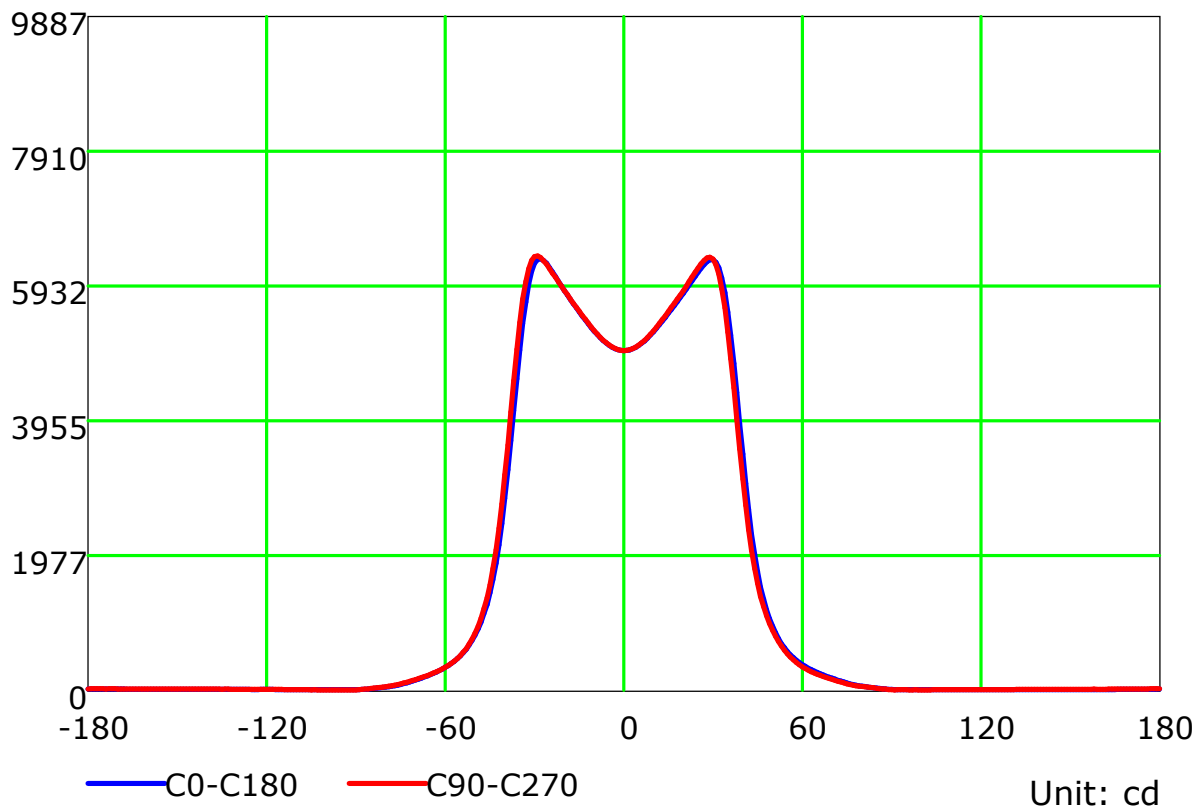
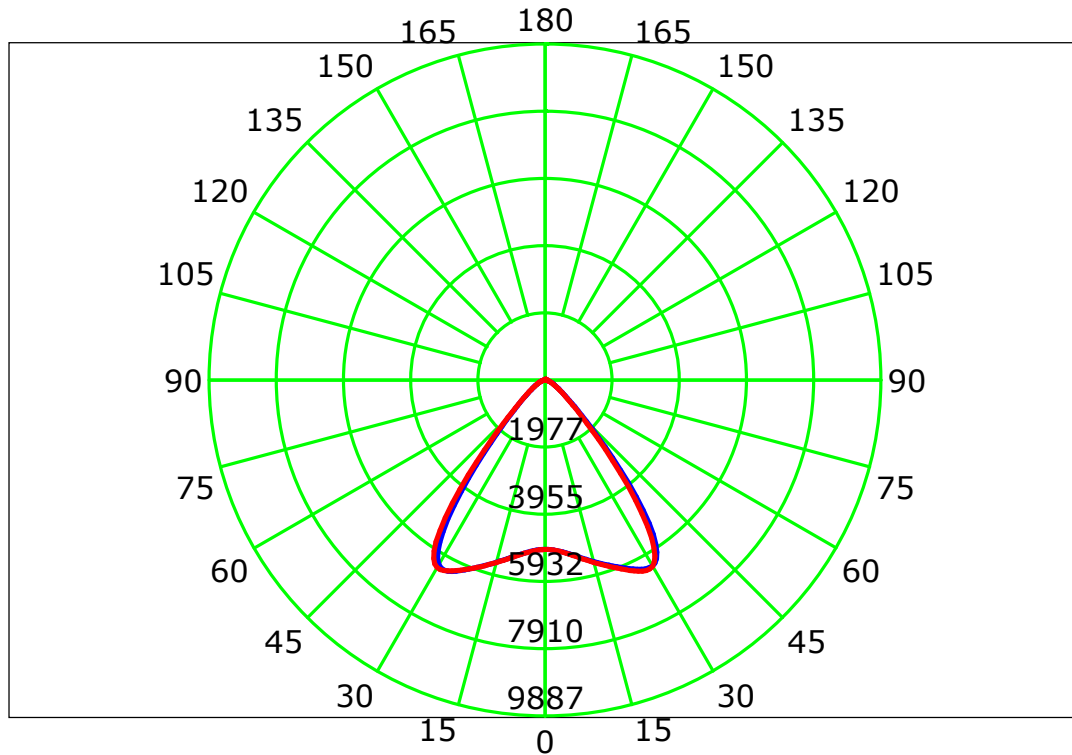
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

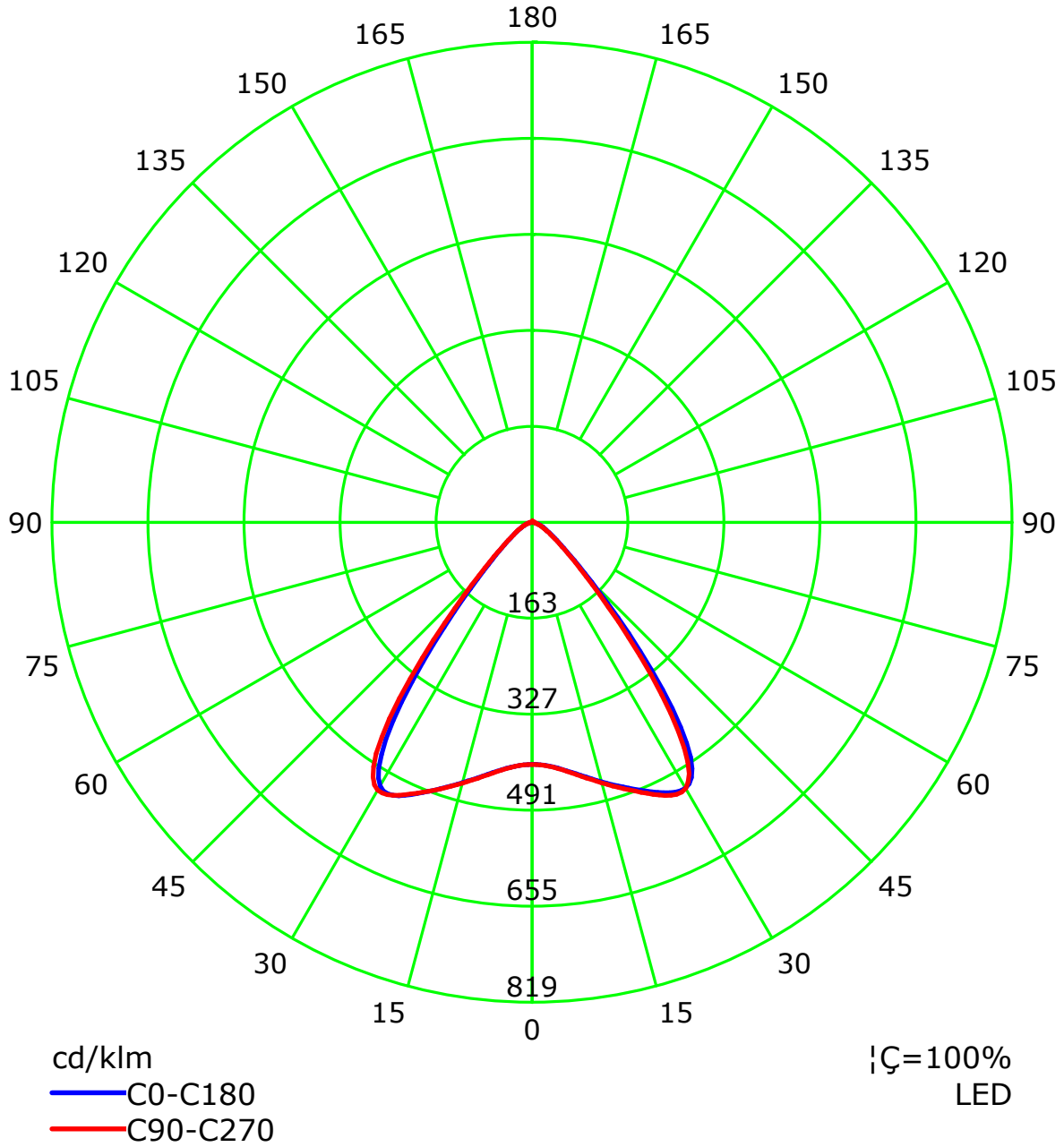
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

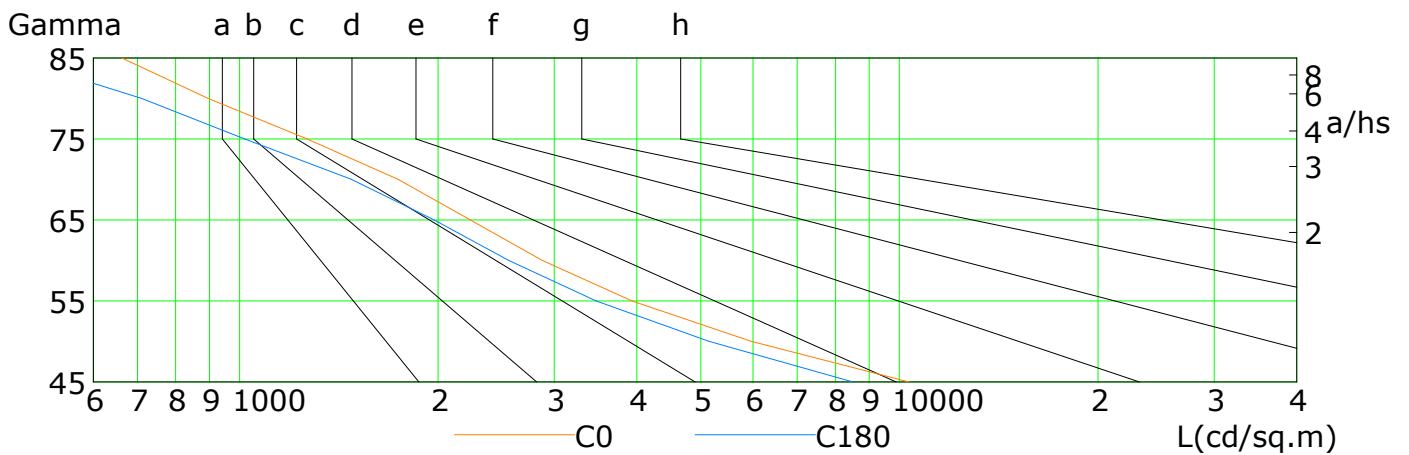
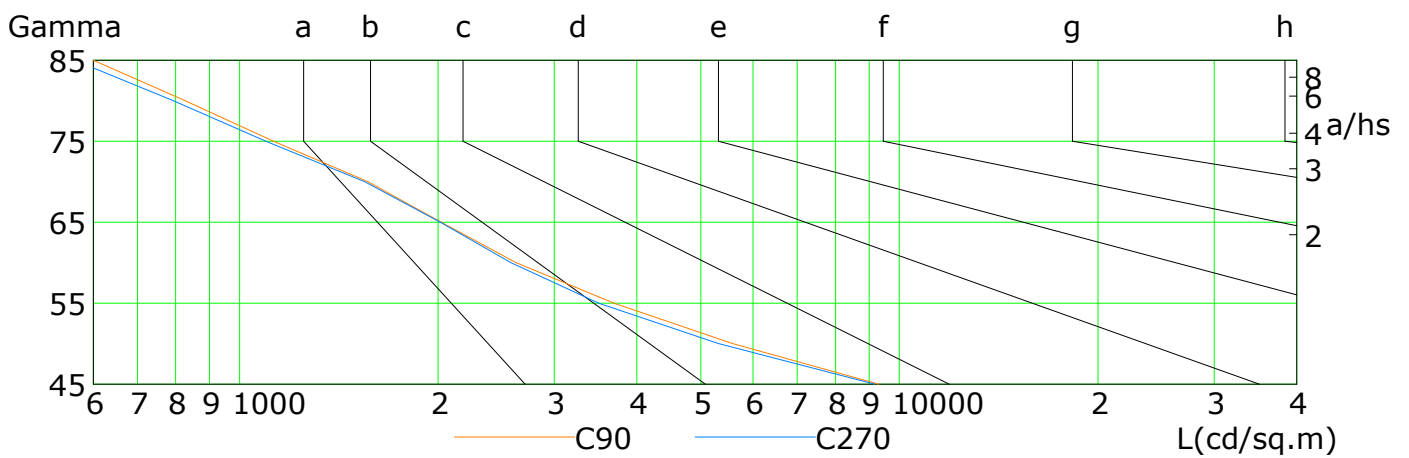
Humidity:

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	10333	5958	3933	2873	2239	1739	1266	895	663
C90	9308	5586	3696	2622	2022	1564	1126	827	600
C180	8503	5143	3471	2557	1972	1476	1018	709	455
C270	9185	5320	3504	2575	2015	1547	1095	793	562

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

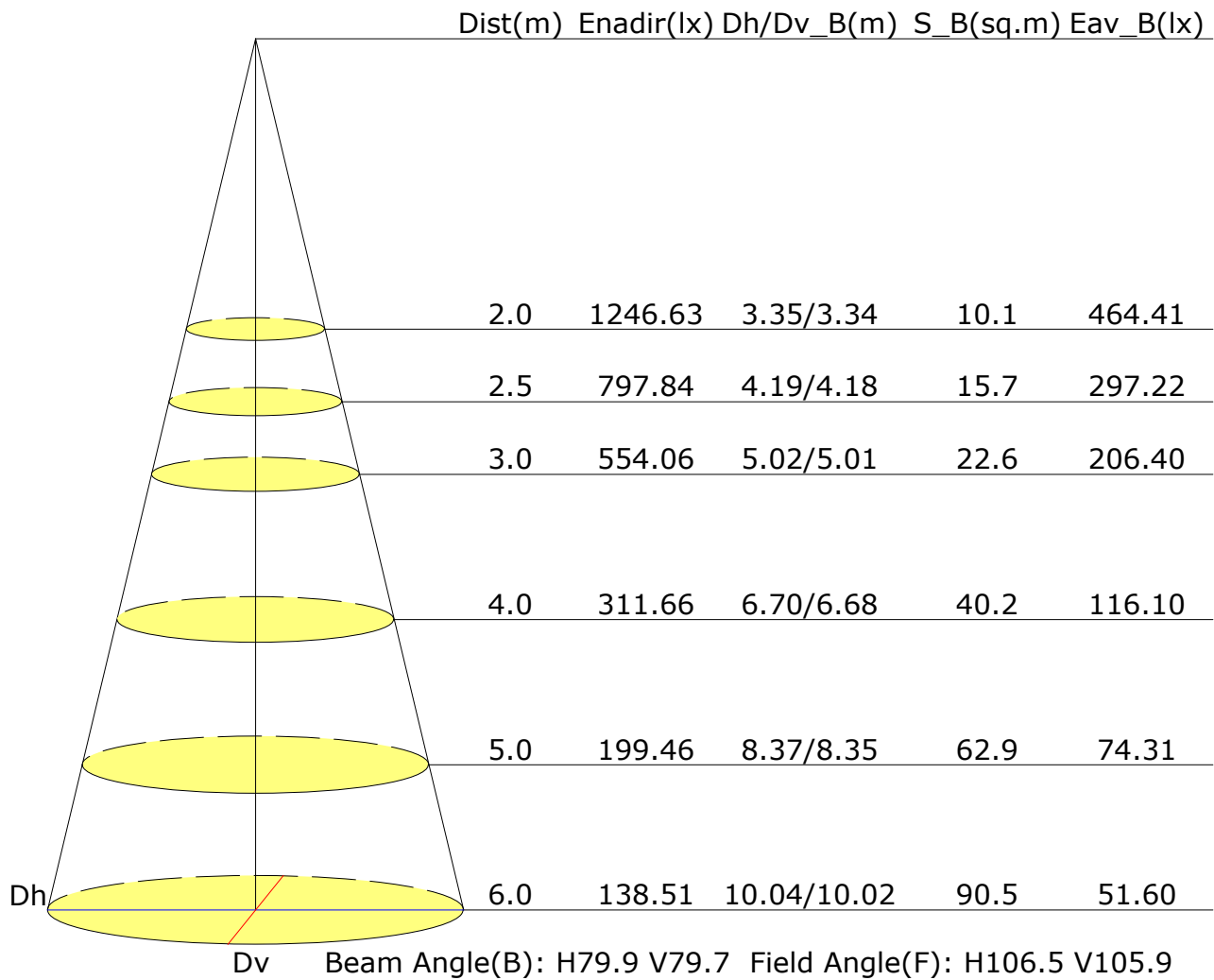
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

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	18.8	19.9	19.1	20.1	20.4	18.7	19.8	19.0	20.0	20.2
3H	18.8	19.8	19.1	20.0	20.3	18.7	19.6	19.0	19.9	20.2
4H	18.7	19.7	19.1	20.0	20.2	18.6	19.5	19.0	19.8	20.1
6H	18.7	19.5	19.1	19.9	20.2	18.6	19.4	18.9	19.7	20.0
8H	18.7	19.5	19.0	19.8	20.1	18.5	19.4	18.9	19.7	20.0
12H	18.6	19.4	19.0	19.8	20.1	18.5	19.3	18.9	19.6	20.0
X=4H Y=2H	18.7	19.6	19.1	19.9	20.2	18.6	19.5	19.0	19.8	20.1
3H	18.8	19.5	19.2	19.9	20.2	18.7	19.4	19.0	19.8	20.1
4H	18.8	19.5	19.2	19.8	20.2	18.6	19.3	19.1	19.7	20.1
6H	18.8	19.4	19.2	19.7	20.2	18.6	19.2	19.0	19.6	20.0
8H	18.7	19.3	19.2	19.7	20.1	18.6	19.1	19.0	19.6	20.0
12H	18.7	19.2	19.2	19.6	20.1	18.6	19.1	19.0	19.5	19.9
X=8H Y=4H	18.7	19.3	19.2	19.7	20.1	18.6	19.1	19.0	19.5	20.0
6H	18.7	19.1	19.2	19.6	20.1	18.6	19.0	19.1	19.5	19.9
8H	18.7	19.1	19.2	19.6	20.0	18.6	19.0	19.1	19.4	19.9
12H	18.7	19.0	19.2	19.5	20.0	18.5	18.9	19.1	19.4	19.9
X=12H Y=4H	18.7	19.2	19.1	19.6	20.1	18.6	19.0	19.0	19.5	19.9
6H	18.7	19.1	19.2	19.5	20.0	18.6	18.9	19.0	19.4	19.9
8H	18.7	19.0	19.2	19.5	20.0	18.5	18.9	19.0	19.4	19.9
Variations with the observer position at spacings:										
S=1.0H	+3.2/-4.2					+3.4/-4.4				
S=1.5H	+4.3/-5.7					+4.5/-6.0				
S=2.0H	+6.2/-6.7					+6.4/-7.0				

Calculate in accordance with CIE Pub.117. The table is revised with 12069Im ($8\log(F/F_0) = 8.7$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilance U(F)												
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	0.65	0.76	0.83	0.87	0.94	0.98	1.01	1.04	1.07	
	0.30		0.58	0.69	0.76	0.82	0.89	0.94	0.97	1.01	1.04	
	0.20		0.53	0.64	0.72	0.77	0.85	0.90	0.94	0.99	1.02	
0.50	0.50	0.20	0.64	0.74	0.80	0.85	0.91	0.95	0.97	1.01	1.03	
	0.30		0.57	0.68	0.75	0.80	0.87	0.91	0.94	0.98	1.00	
	0.20		0.53	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
0.30	0.50	0.20	0.62	0.72	0.78	0.82	0.88	0.92	0.94	0.97	0.99	
	0.30		0.57	0.67	0.74	0.78	0.85	0.89	0.91	0.95	0.97	
	0.20		0.53	0.63	0.70	0.75	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.51	0.61	0.67	0.72	0.79	0.82	0.85	0.89	0.91	
Luminous ceiling reflectance(into room):0.30 Luminous ceiling reflectance(into void):0.20 Luminous ceiling transmittance:0.40 Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Wall)

Utilance U(W)												
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	0.87	0.69	0.58	0.49	0.38	0.31	0.27	0.20	0.16	
	0.30		0.72	0.59	0.50	0.44	0.35	0.29	0.25	0.19	0.16	
	0.20		0.62	0.52	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.84	0.66	0.55	0.47	0.36	0.33	0.25	0.19	0.15	
	0.30		0.71	0.58	0.49	0.42	0.33	0.27	0.23	0.18	0.15	
	0.20		0.61	0.51	0.43	0.38	0.31	0.26	0.22	0.17	0.14	
0.30	0.50	0.20	0.81	0.63	0.53	0.45	0.34	0.28	0.24	0.18	0.15	
	0.30		0.69	0.56	0.47	0.40	0.32	0.26	0.22	0.17	0.14	
	0.20		0.61	0.50	0.43	0.37	0.30	0.25	0.21	0.16	0.13	
0.00	0.00	0.00	0.49	0.39	0.33	0.28	0.21	0.18	0.15	0.11	0.09	
Luminous ceiling reflectance(into room):0.30 Luminous ceiling reflectance(into void):0.20 Luminous ceiling transmittance:0.40 Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilance U(C)											
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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.16	0.17
0.50	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.19
	0.30		0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	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	NA	NA	NA	NA	NA	NA	NA	NA	NA
Luminous ceiling reflectance(into room):0.30 Luminous ceiling reflectance(into void):0.20 Luminous ceiling transmittance:0.40 Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector: