

Report No.: 1

Test Time: 10.12.2019 10:02

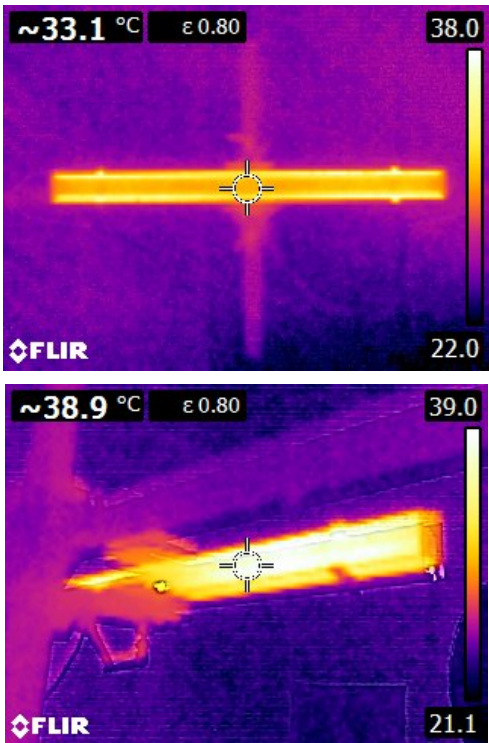
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FG 63 31W 4000K опал ND
Luminous Length (mm): 850
Luminous Width (mm): 63
Luminous Height (mm): 40
Voltage: 24.0 V
Current: 0.041 A
Power: 30.24 W
Power Factor: 0.000
Current: 1.26 A

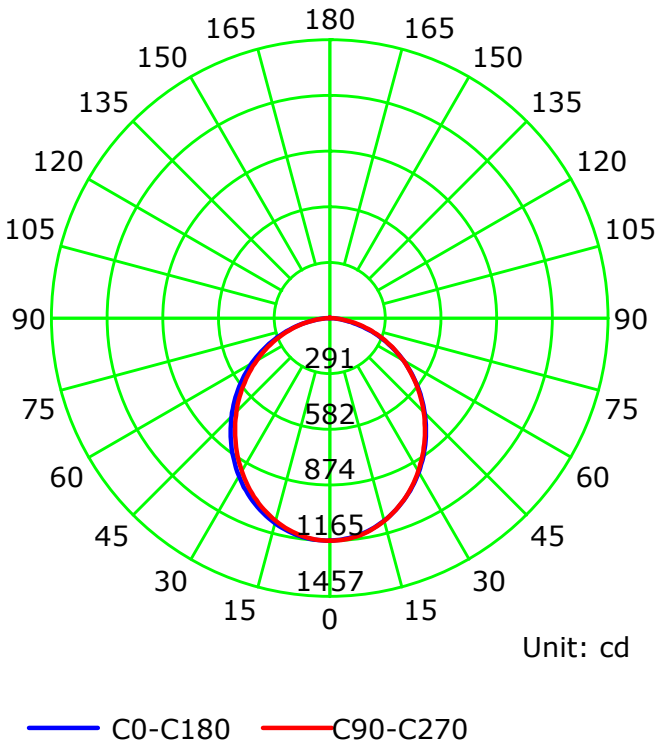
Photometric Results

CIE Class: Direct
Measurement Flux: 3081.5 lm
Downward Ratio: 99%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.0, 159.7, 159.7, 159.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.8, 103.4, 104.7, 104.7
Luminaire Efficacy Rating (LER): 101.90
Max. Intensity: 1165.62 cd
S/MH(C0/C180): 1.21
Total Rated Lamp Lumens: 3081.5 lm
Efficiency: 100%
Upward Ratio: 1%
Central Intensity: 1164.6 cd
Pos of Max. Intensity: H90 V0
S/MH(C90/C270): 1.19

Termogramma



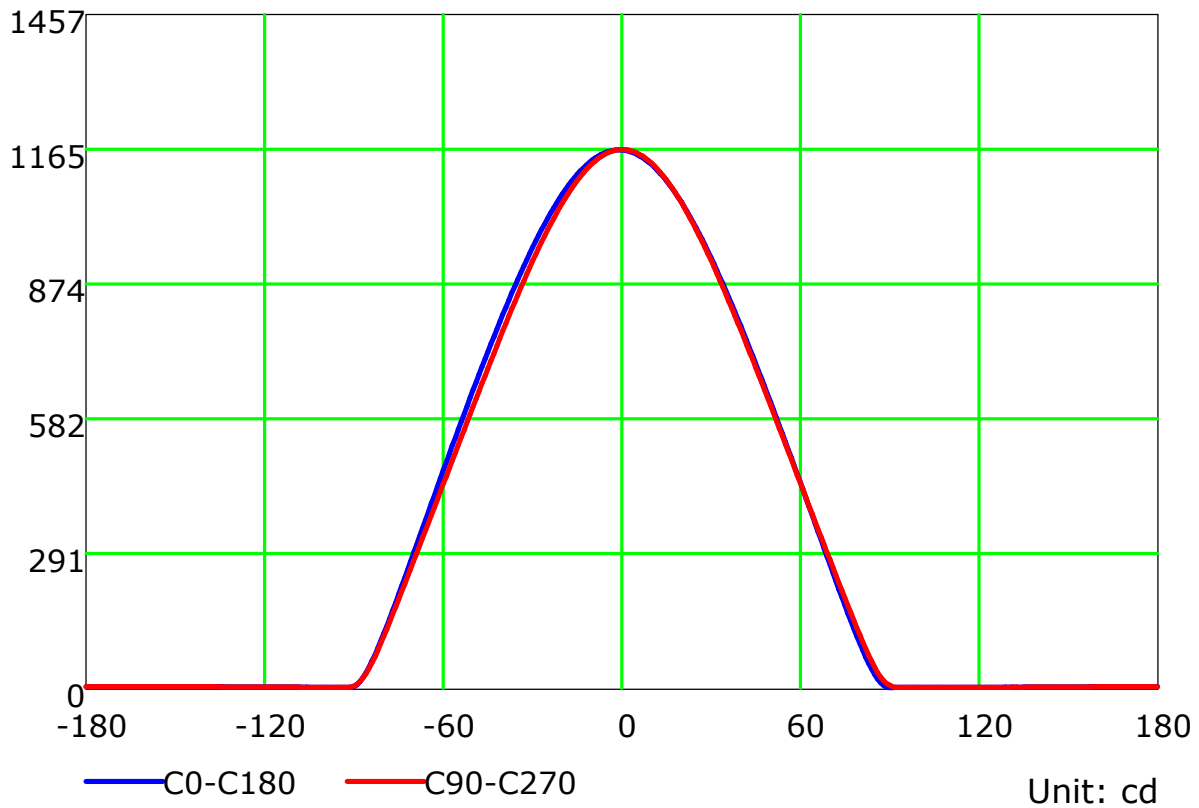
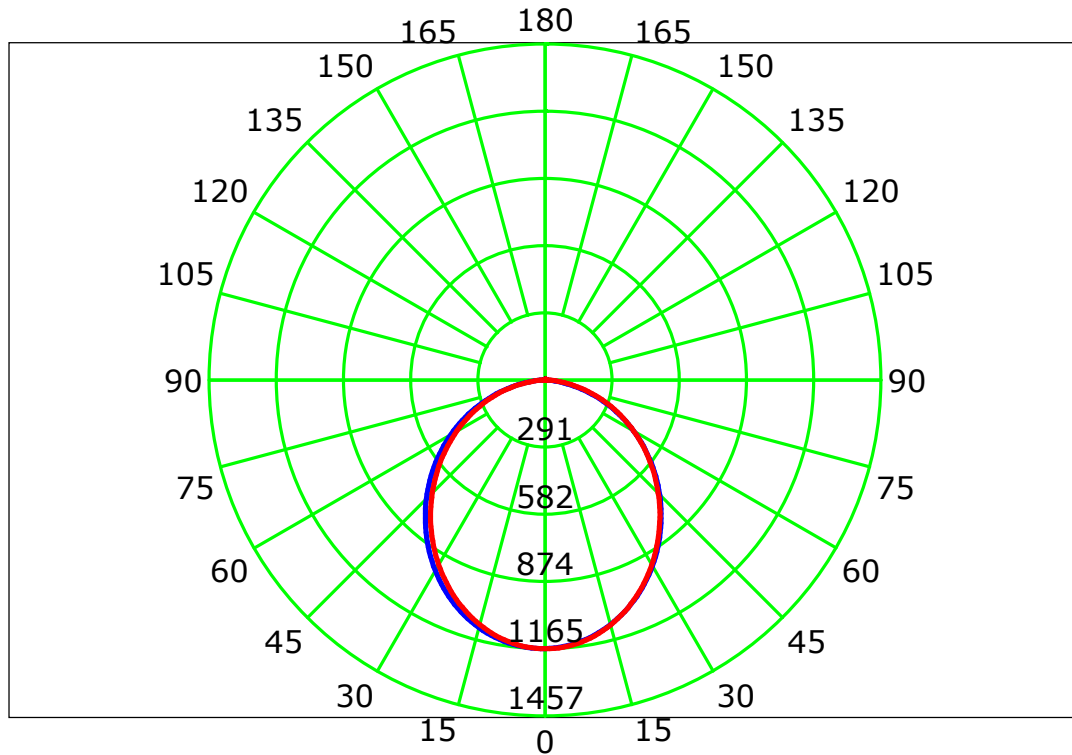
Luminous Intensity Distribution Curve



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:

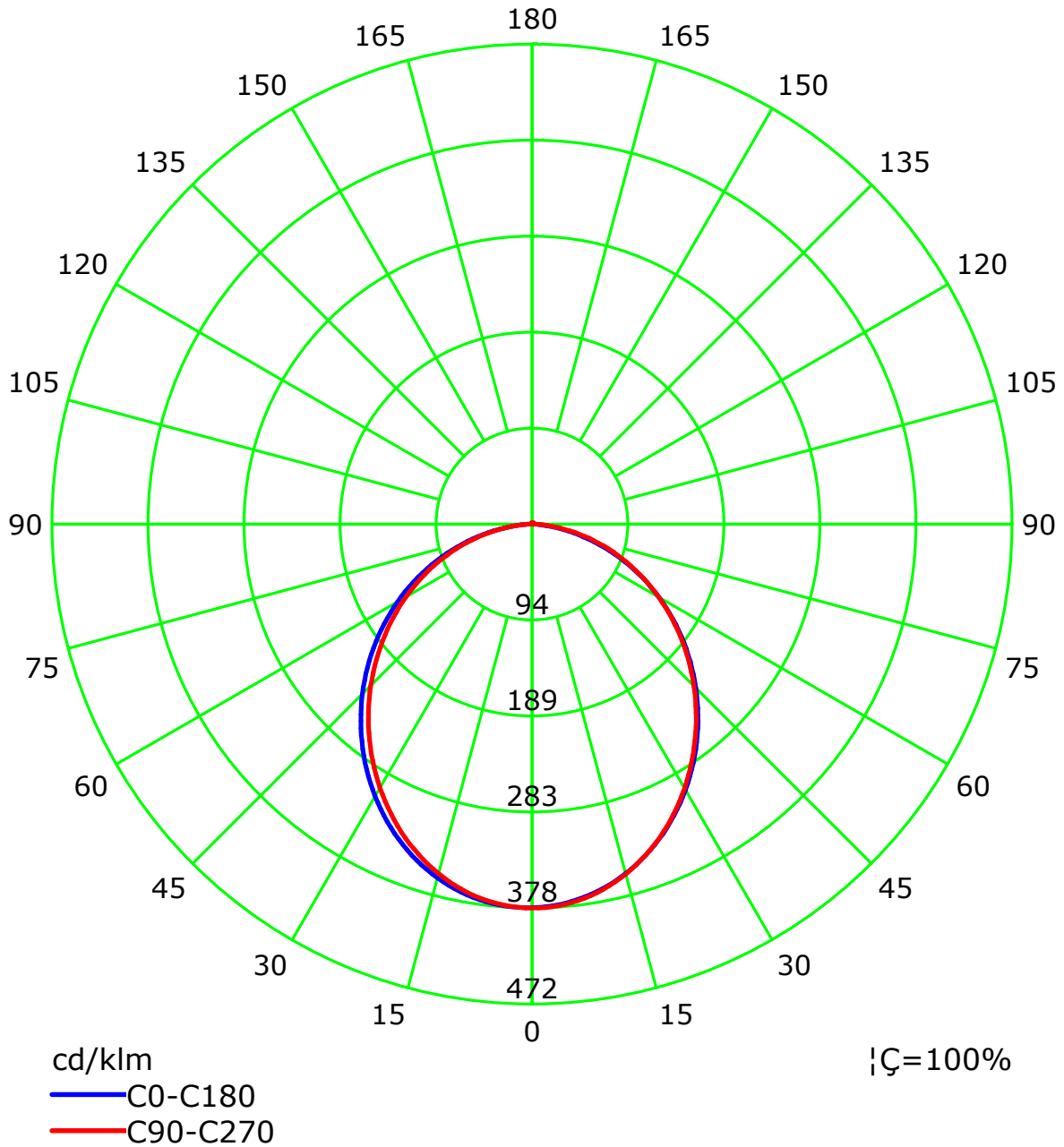
Luminous Intensity Distribution Curve



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)



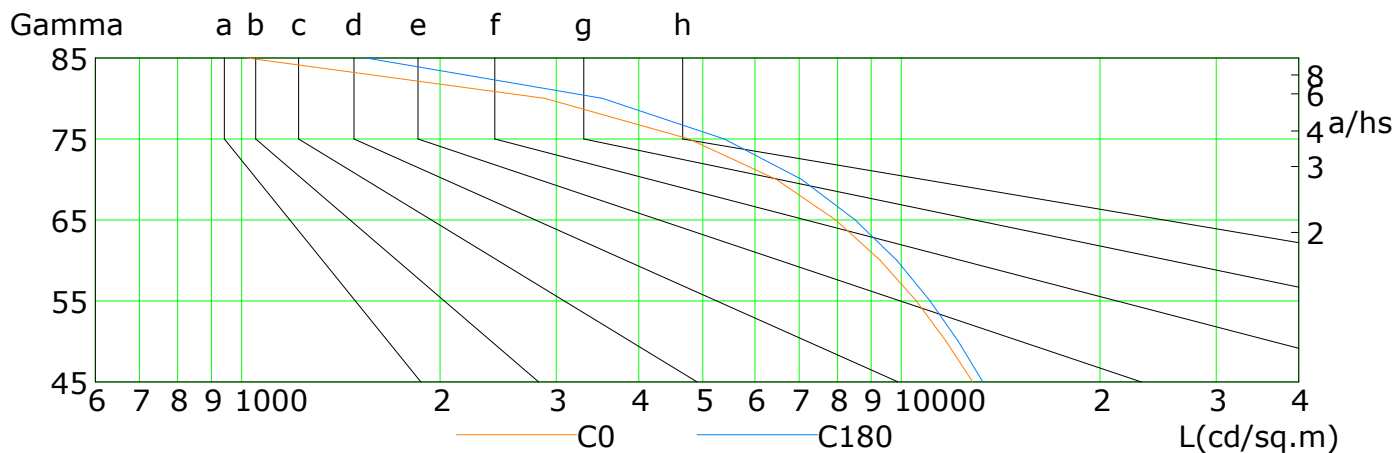
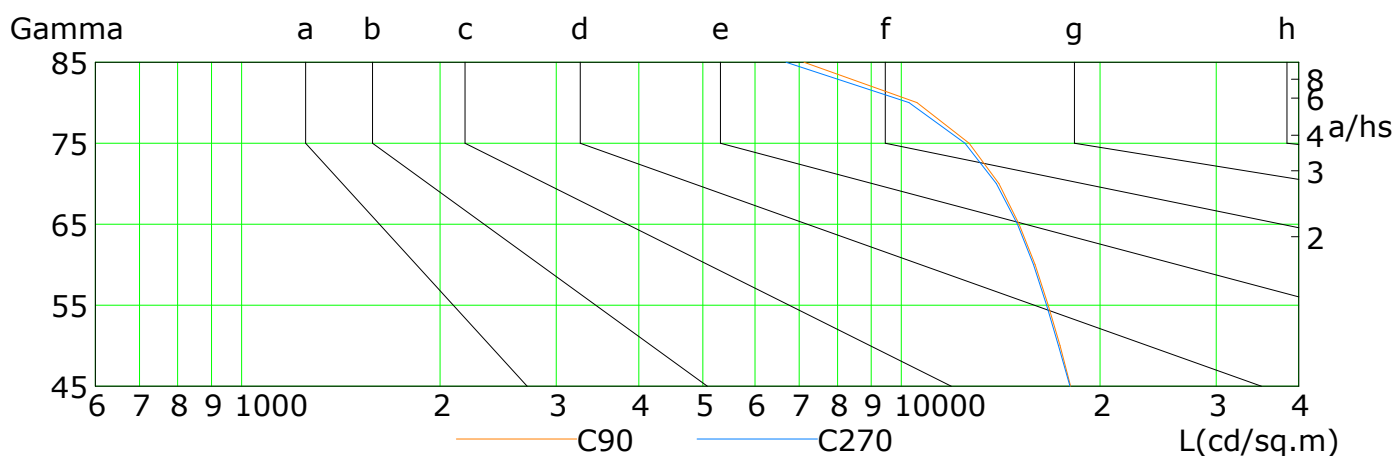
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

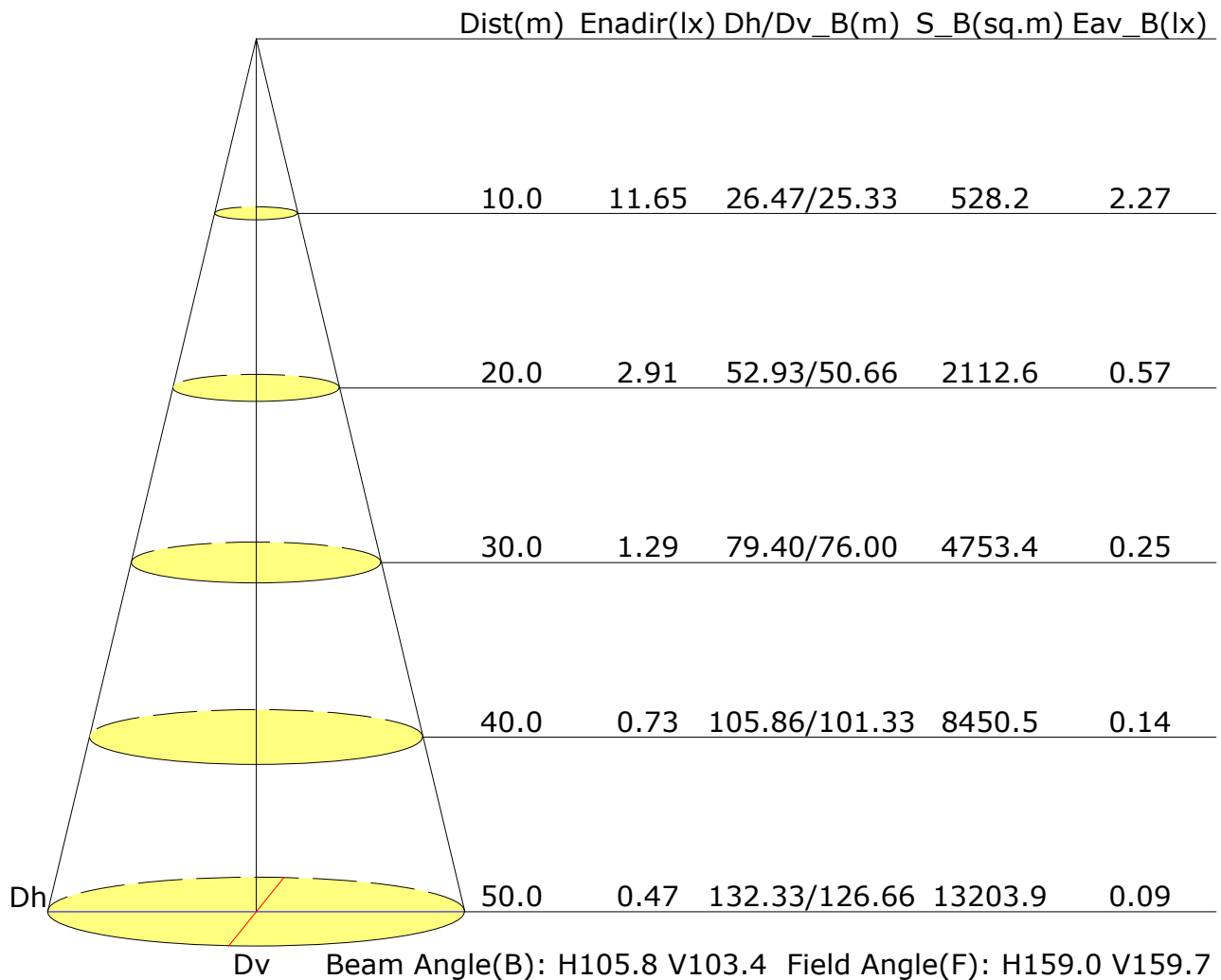


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	12819	11690	10539	9291	7948	6457	4766	2879	1020
C90	18049	17391	16689	15945	15073	14057	12660	10563	7115
C180	13284	12192	11050	9845	8511	7053	5391	3523	1545
C270	18000	17307	16604	15849	14989	13922	12482	10268	6688

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



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	20.7	22.1	21.0	22.3	22.6	21.6	23.0	21.9	23.2	23.5
3H	21.8	23.1	22.2	23.3	23.6	23.1	24.3	23.4	24.6	24.9
4H	22.2	23.4	22.5	23.7	24.0	23.7	24.8	24.0	25.1	25.4
6H	22.4	23.4	22.7	23.8	24.1	24.1	25.2	24.4	25.5	25.8
8H	22.4	23.4	22.8	23.8	24.1	24.2	25.2	24.6	25.6	25.9
12H	22.4	23.4	22.7	23.7	24.1	24.2	25.2	24.6	25.6	25.9
X=4H Y=2H	21.3	22.5	21.7	22.8	23.1	22.0	23.2	22.4	23.5	23.8
3H	22.6	23.6	23.0	23.9	24.3	23.7	24.7	24.1	25.0	25.4
4H	23.1	24.0	23.5	24.3	24.7	24.4	25.3	24.8	25.6	26.0
6H	23.3	24.1	23.7	24.5	24.9	24.9	25.7	25.3	26.0	26.5
8H	23.4	24.1	23.8	24.5	24.9	25.0	25.7	25.4	26.1	26.6
12H	23.4	24.0	23.8	24.4	24.9	25.1	25.7	25.5	26.2	26.6
X=8H Y=4H	23.3	24.0	23.7	24.4	24.9	24.5	25.2	24.9	25.6	26.1
6H	23.6	24.2	24.1	24.7	25.1	25.1	25.7	25.5	26.1	26.6
8H	23.7	24.2	24.2	24.7	25.2	25.3	25.8	25.7	26.2	26.7
12H	23.7	24.2	24.2	24.7	25.2	25.4	25.8	25.9	26.3	26.8
X=12H Y=4H	23.3	24.0	23.8	24.4	24.8	24.5	25.1	24.9	25.6	26.0
6H	23.7	24.2	24.2	24.6	25.1	25.1	25.6	25.6	26.1	26.6
8H	23.8	24.2	24.3	24.7	25.2	25.3	25.7	25.8	26.2	26.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.7					+0.3/-0.4				
S=2.0H	+0.7/-1.2					+0.7/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3082lm ($8\log(F/F_0) = 3.9$).

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)

Utilisation Factors UF(F)			SHR NOM = 1.25									
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	0.58	0.68	0.75	0.80	0.88	0.93	0.96	1.01	1.03	
	0.30		0.50	0.60	0.68	0.73	0.82	0.87	0.91	0.96	1.00	
	0.20		0.44	0.55	0.62	0.68	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.84	0.89	0.92	0.96	0.99	
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
	0.20		0.44	0.54	0.61	0.67	0.75	0.80	0.85	0.90	0.94	
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	0.20		0.44	0.53	0.60	0.66	0.73	0.79	0.82	0.87	0.91	
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86	
Rating:0W 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 = 1.25									
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	0.98	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.70	0.60	0.53	0.48	0.39	0.34	0.29	0.23	0.19	
0.50	0.50	0.20	0.95	0.78	0.66	0.57	0.46	0.41	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.19	
	0.20		0.69	0.60	0.52	0.47	0.38	0.33	0.28	0.22	0.19	
0.30	0.50	0.20	0.92	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.51	0.46	0.37	0.32	0.27	0.22	0.18	
0.00	0.00	0.00	0.58	0.49	0.42	0.37	0.30	0.25	0.21	0.17	0.14	
Rating:0W 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 = 1.25									
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:0W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												