

Report No.: 1

Test Time: 24.12.2019 17:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 190 2x210LED 0.7A 80W 4000K zakalennoe steklo mestlight

Luminous Length (mm): 1200

Luminous Width (mm): 190

Luminous Height (mm): 80

Voltage: 221.3 V

Current: 0.364 A

Power: 78.93 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 10324.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 10324.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 140.8, 76.7, 94.5, 95.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.2, 46.5, 58.4, 60.0

Luminaire Efficacy Rating (LER): 130.85

Central Intensity: 8371.58 cd

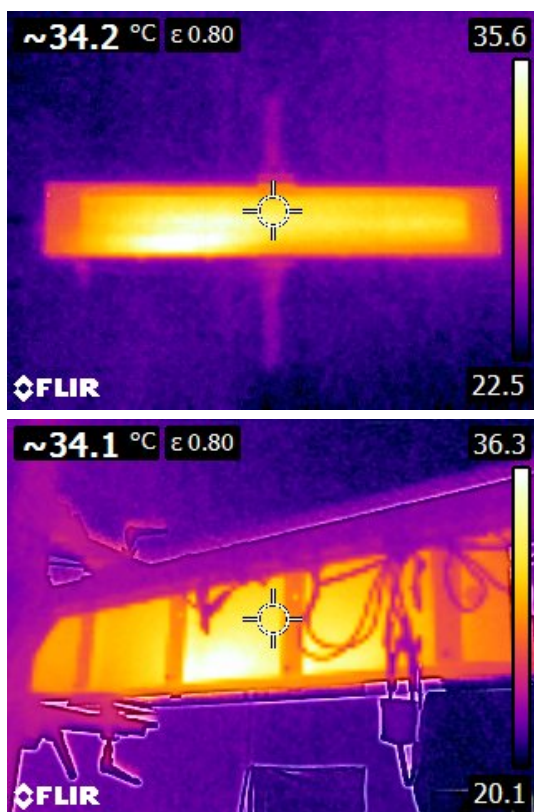
Max. Intensity: 8383.67 cd

Pos of Max. Intensity: H202.5 V2

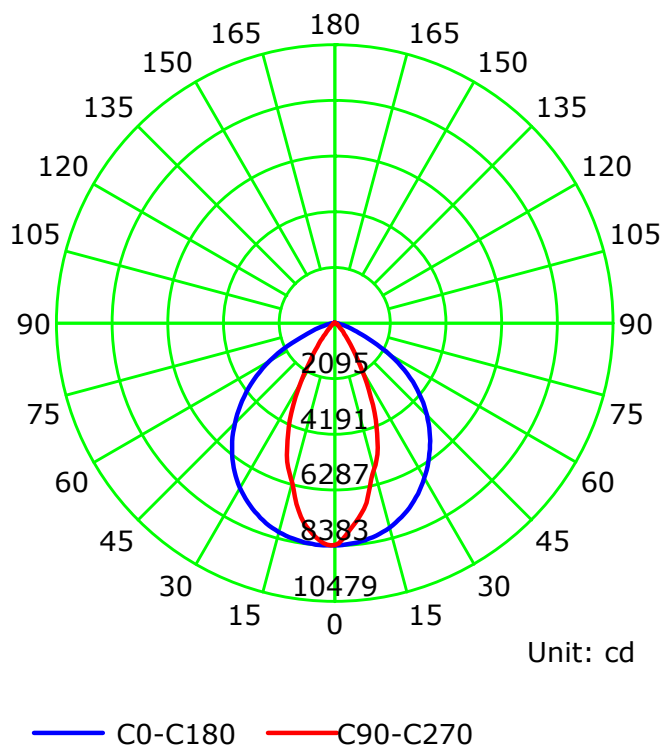
S/MH(C0/C180): 1.23

S/MH(C90/C270): 0.72

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

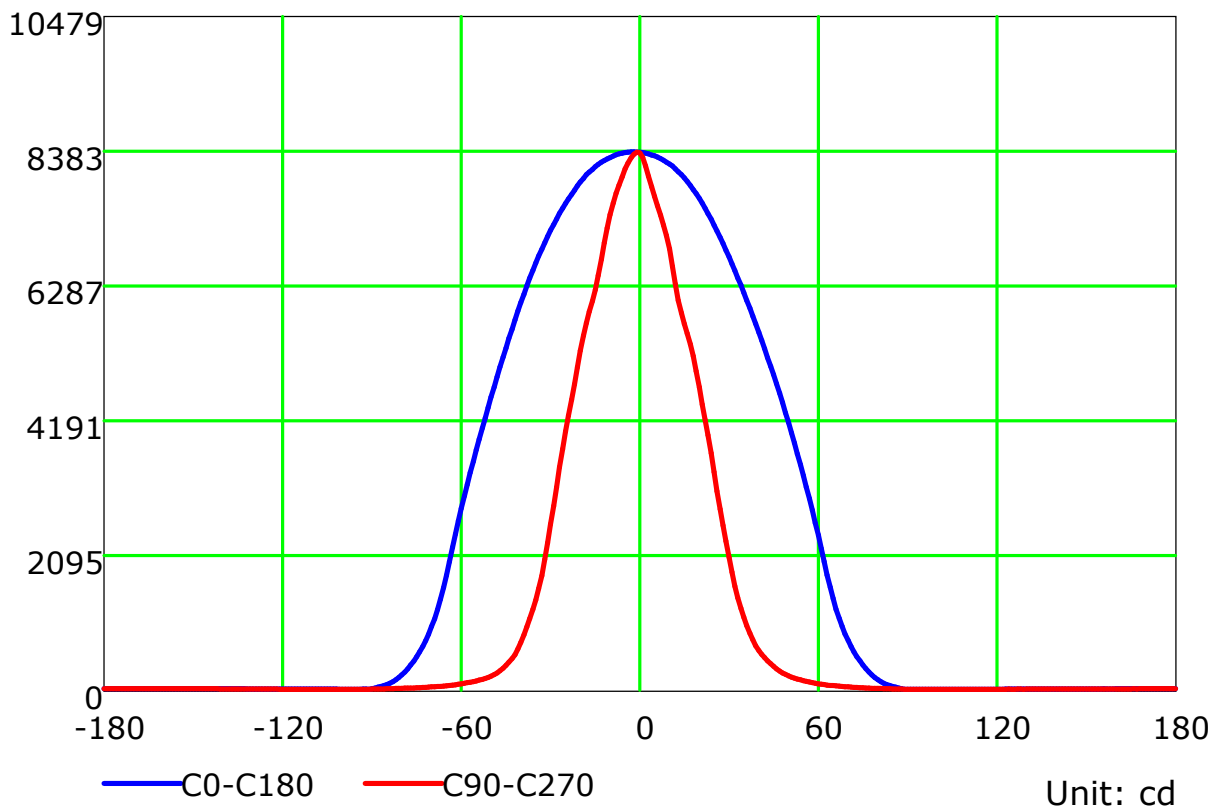
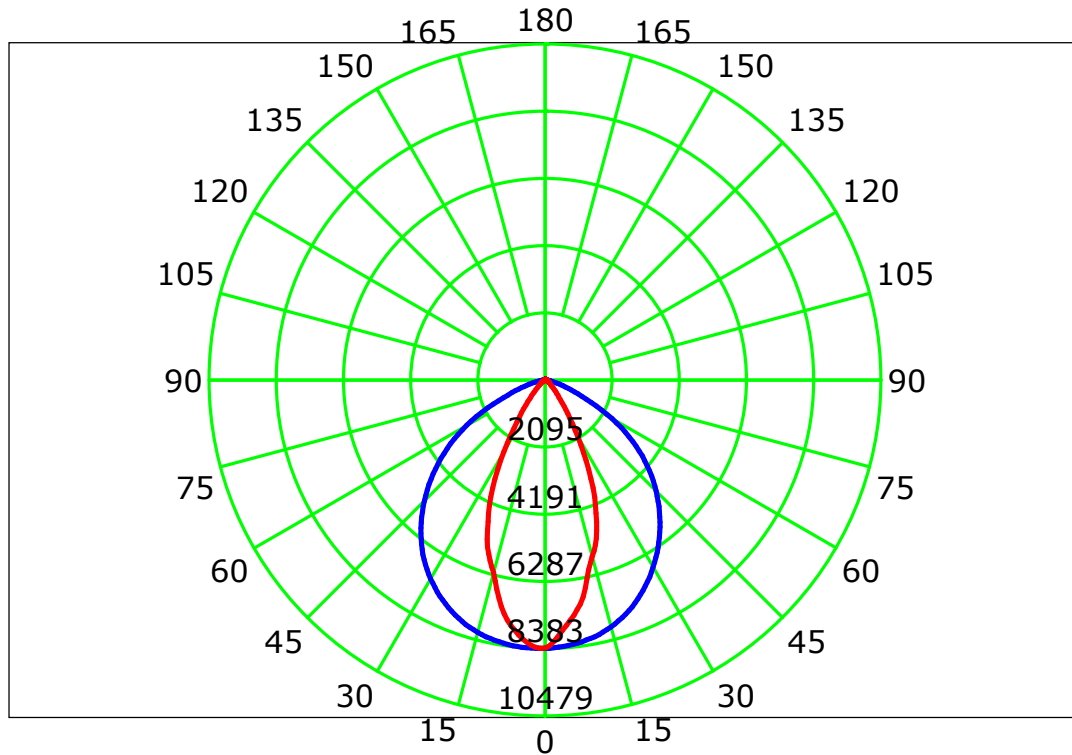
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

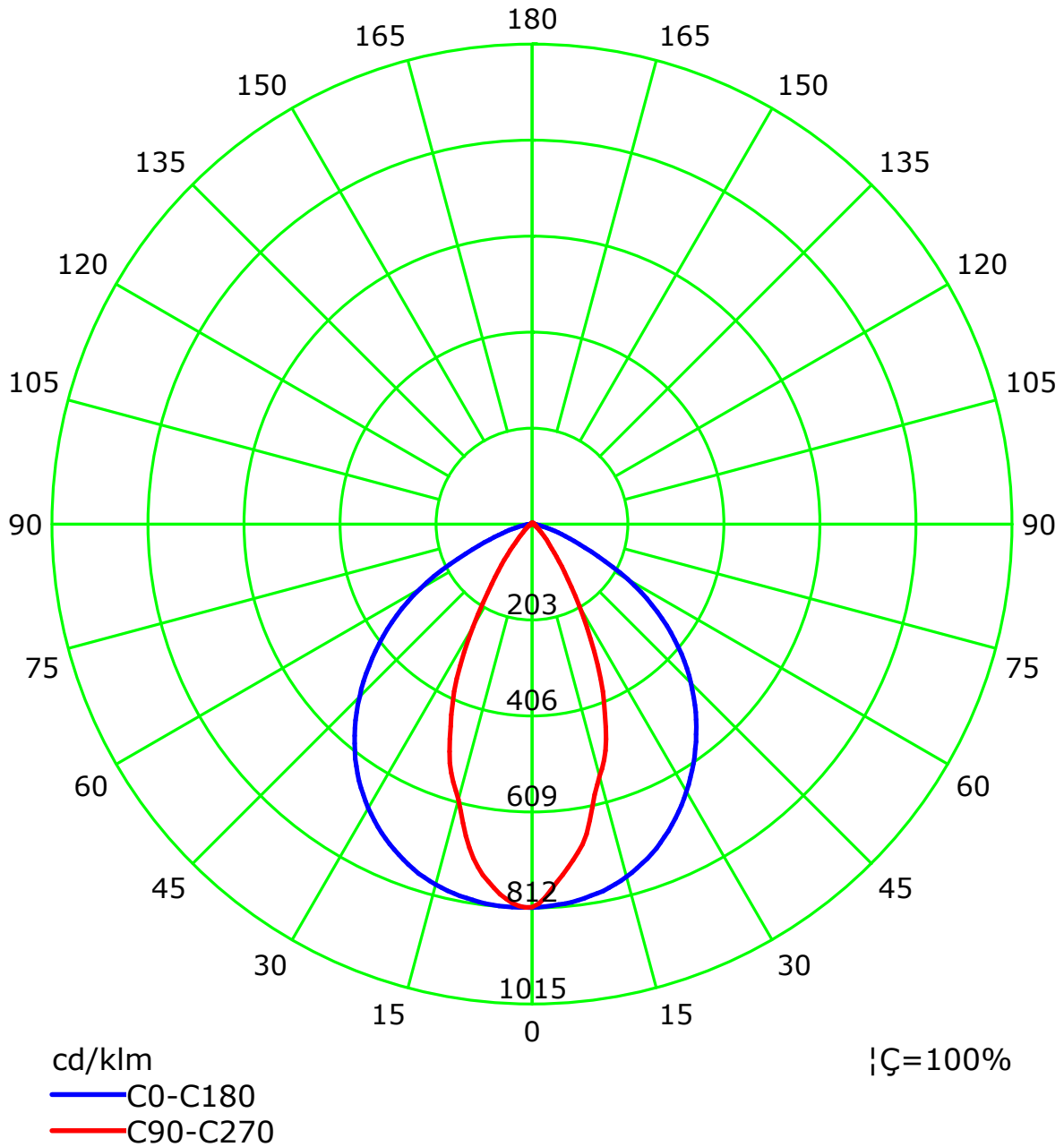
Luminous Intensity Distribution Curve



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:

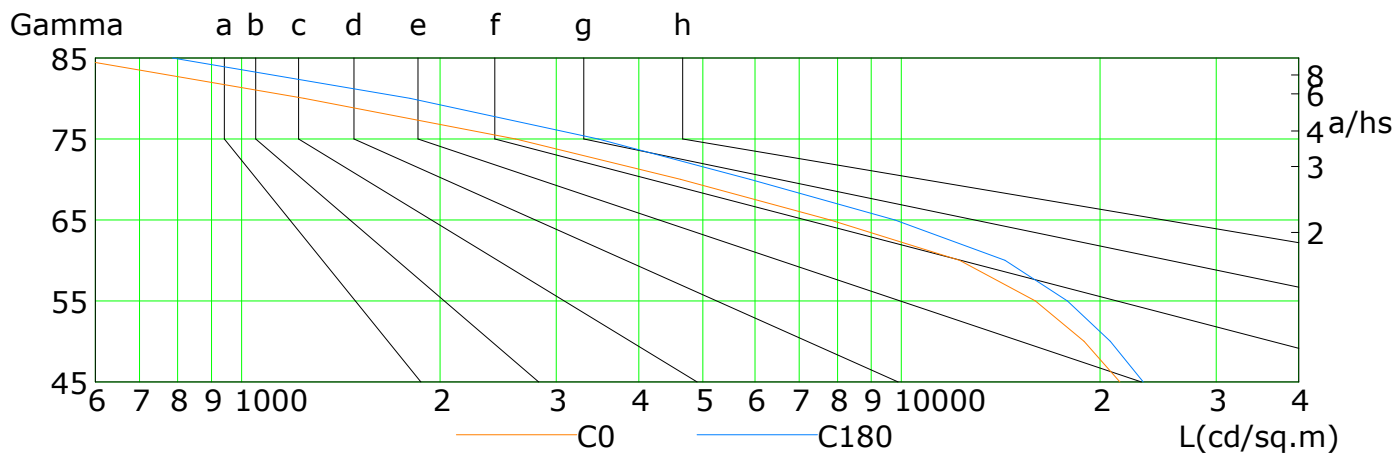
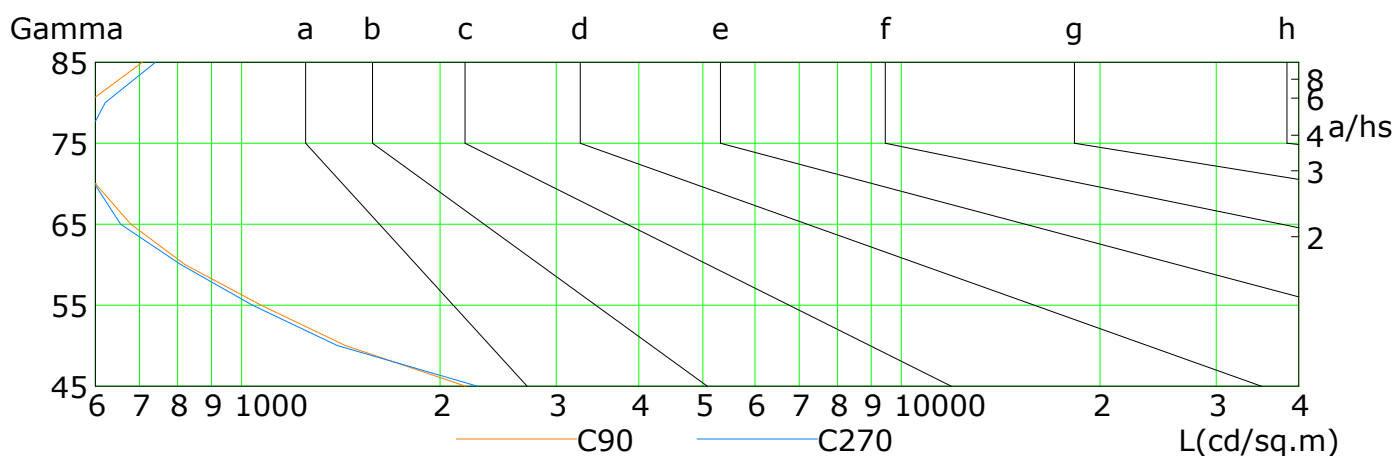
Luminous Intensity Distribution Curve(cd/klm)



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

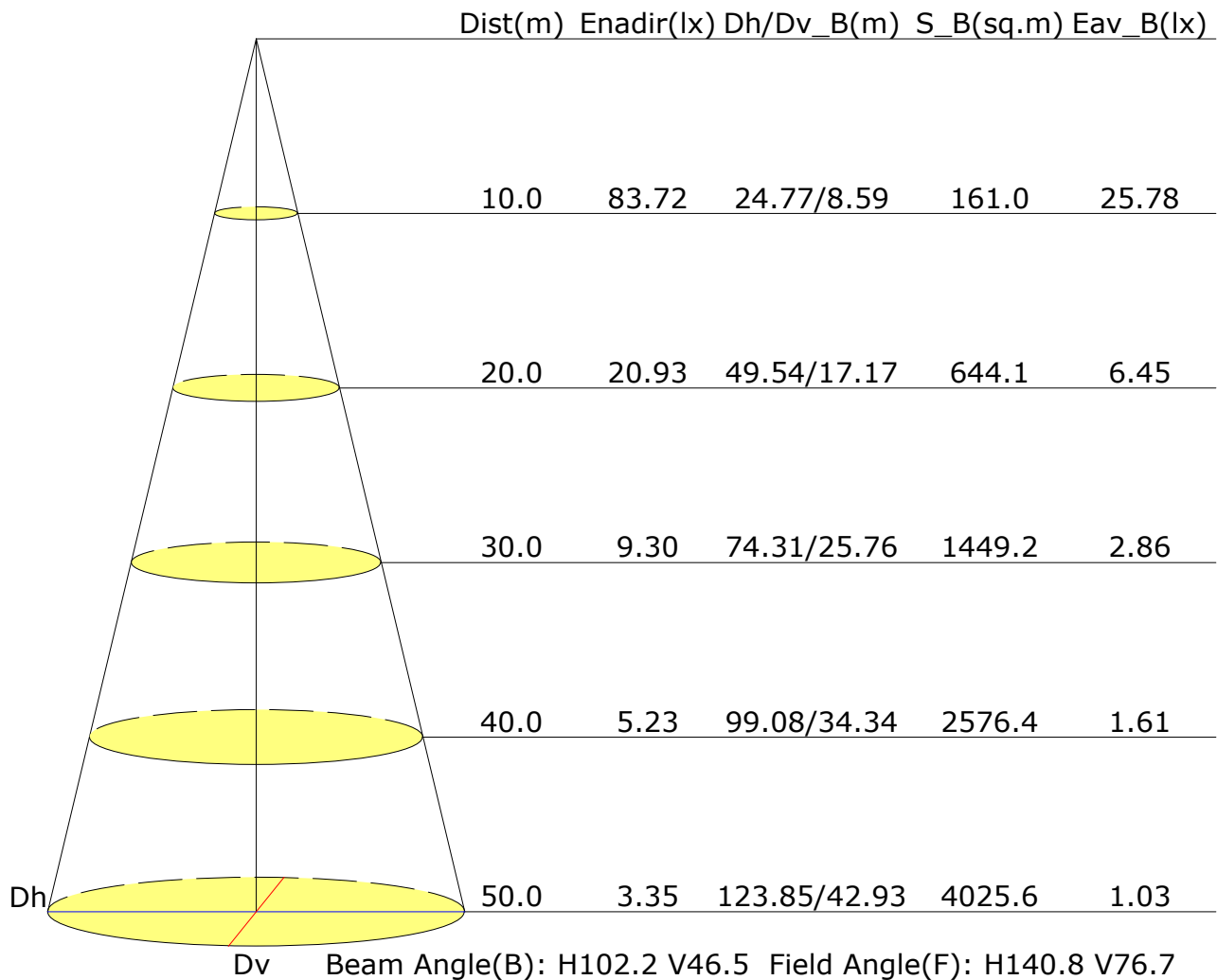


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	21433	18919	15961	12249	7798	4625	2601	1244	549
C90	2186	1437	1070	821	680	601	568	584	707
C180	23248	20731	17854	14349	9773	5891	3470	1800	786
C270	2278	1397	1039	809	656	597	576	621	741

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	21.2	22.2	21.5	22.5	22.7	10.7	11.7	11.0	12.0	12.2
3H	21.6	22.5	21.9	22.8	23.1	10.7	11.6	11.0	11.9	12.2
4H	21.6	22.5	22.0	22.8	23.1	10.7	11.6	11.0	11.9	12.2
6H	21.6	22.4	22.0	22.7	23.1	10.7	11.5	11.0	11.8	12.2
8H	21.6	22.4	21.9	22.7	23.0	10.7	11.5	11.1	11.8	12.2
12H	21.5	22.3	21.9	22.6	23.0	10.7	11.5	11.1	11.8	12.2
X=4H Y=2H	21.0	21.9	21.3	22.2	22.5	11.3	12.2	11.7	12.5	12.8
3H	21.4	22.1	21.8	22.5	22.8	11.3	12.1	11.7	12.4	12.8
4H	21.4	22.1	21.9	22.5	22.9	11.4	12.0	11.8	12.4	12.8
6H	21.4	22.0	21.9	22.4	22.9	11.4	12.0	11.8	12.4	12.8
8H	21.4	22.0	21.9	22.4	22.8	11.4	12.0	11.9	12.4	12.8
12H	21.4	21.9	21.9	22.3	22.8	11.5	12.0	12.0	12.4	12.9
X=8H Y=4H	21.3	21.9	21.8	22.3	22.7	11.5	12.0	11.9	12.4	12.9
6H	21.3	21.8	21.8	22.2	22.7	11.5	12.0	12.0	12.4	12.9
8H	21.3	21.7	21.8	22.2	22.7	11.6	12.0	12.1	12.5	13.0
12H	21.3	21.6	21.8	22.1	22.7	11.7	12.0	12.2	12.5	13.0
X=12H Y=4H	21.3	21.8	21.8	22.2	22.7	11.4	11.9	11.9	12.4	12.8
6H	21.3	21.7	21.8	22.2	22.7	11.6	11.9	12.1	12.4	12.9
8H	21.3	21.6	21.8	22.1	22.6	11.6	12.0	12.2	12.5	13.0
Variations with the observer position at spacings:										
S=1.0H	+0.8/-1.2					+3.0/-4.0				
S=1.5H	+2.7/-3.8					+4.6/-5.3				
S=2.0H	+4.5/-6.4					+5.8/-6.3				

Calculate in accordance with CIE Pub.117. The table is revised with $10324 \ln (8 \log(F/F_0) = 8.1)$.

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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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 = 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	0.69	0.78	0.85	0.89	0.95	0.99	1.02	1.05	1.07	
	0.30		0.63	0.72	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.20		0.58	0.68	0.74	0.79	0.86	0.91	0.95	0.99	1.02	
0.50	0.50	0.20	0.68	0.76	0.82	0.86	0.92	0.95	0.98	1.01	1.03	
	0.30		0.62	0.71	0.77	0.82	0.88	0.92	0.95	0.98	1.01	
	0.20		0.58	0.67	0.73	0.78	0.85	0.89	0.92	0.96	0.99	
0.30	0.50	0.20	0.66	0.74	0.80	0.84	0.89	0.92	0.94	0.97	0.99	
	0.30		0.61	0.70	0.76	0.80	0.86	0.89	0.92	0.95	0.97	
	0.20		0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.93	0.95	
0.00	0.00	0.00	0.55	0.64	0.70	0.74	0.79	0.83	0.85	0.89	0.91	
Rating:79W 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	0.81	0.65	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.67	0.56	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.58	0.49	0.42	0.37	0.30	0.26	0.22	0.17	0.15	
0.50	0.50	0.20	0.77	0.62	0.52	0.44	0.35	0.32	0.24	0.18	0.15	
	0.30		0.65	0.54	0.46	0.40	0.32	0.26	0.22	0.17	0.14	
	0.20		0.57	0.47	0.41	0.36	0.29	0.24	0.21	0.17	0.14	
0.30	0.50	0.20	0.74	0.59	0.49	0.42	0.33	0.27	0.22	0.17	0.14	
	0.30		0.64	0.52	0.44	0.38	0.30	0.25	0.21	0.16	0.13	
	0.20		0.56	0.46	0.40	0.35	0.28	0.23	0.20	0.16	0.13	
0.00	0.00	0.00	0.44	0.35	0.29	0.25	0.20	0.16	0.14	0.10	0.08	
Rating:79W 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	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	
	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	0.17	0.18	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	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	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:79W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												