

Report No.:

Test Time: 08.06.2020 18:17

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 4000K 90гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 19156.1 lm

Luminous Length (mm): 316 mm

Luminous Width (mm): 316 mm

Luminous Height (mm): 132 mm

Voltage: 222.4 V

Current: 0.697 A

Power: 152.95 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 19156.1 lm

Measurement Flux: 19156.1 lm

Efficiency: 100.00%

Downward Ratio: 99.56%

Upward Ratio: 0.44%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 143.4, 142.3, 142.8, 143.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 89.9, 89.6, 89.0, 89.9

Luminaire Efficacy Rating (LER): 125.29

Central Intensity: 8875.79 cd

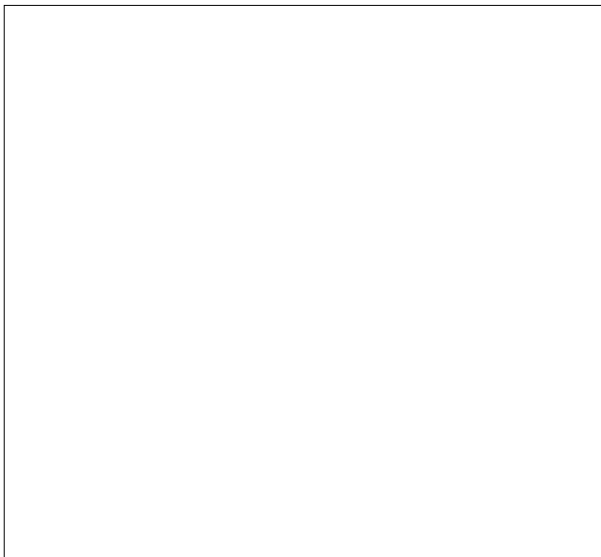
Max. Intensity: 9080.08 cd

Pos of Max. Intensity: H67.5 V12

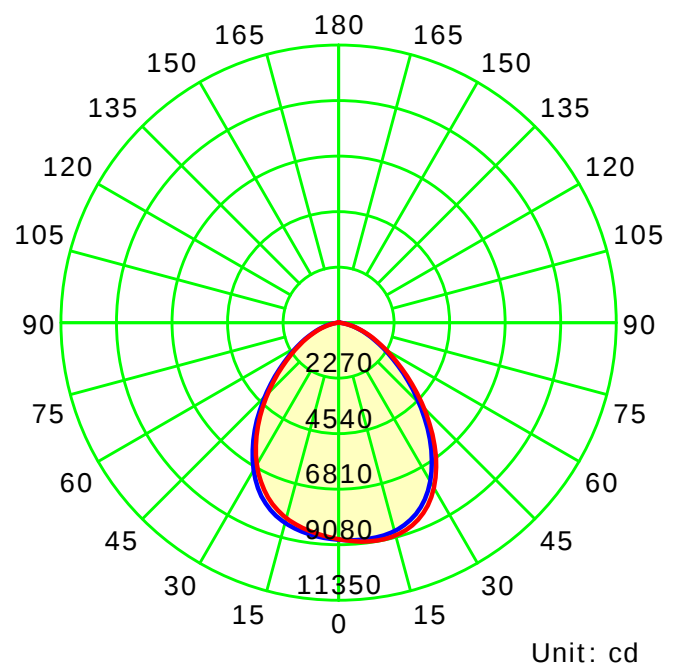
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

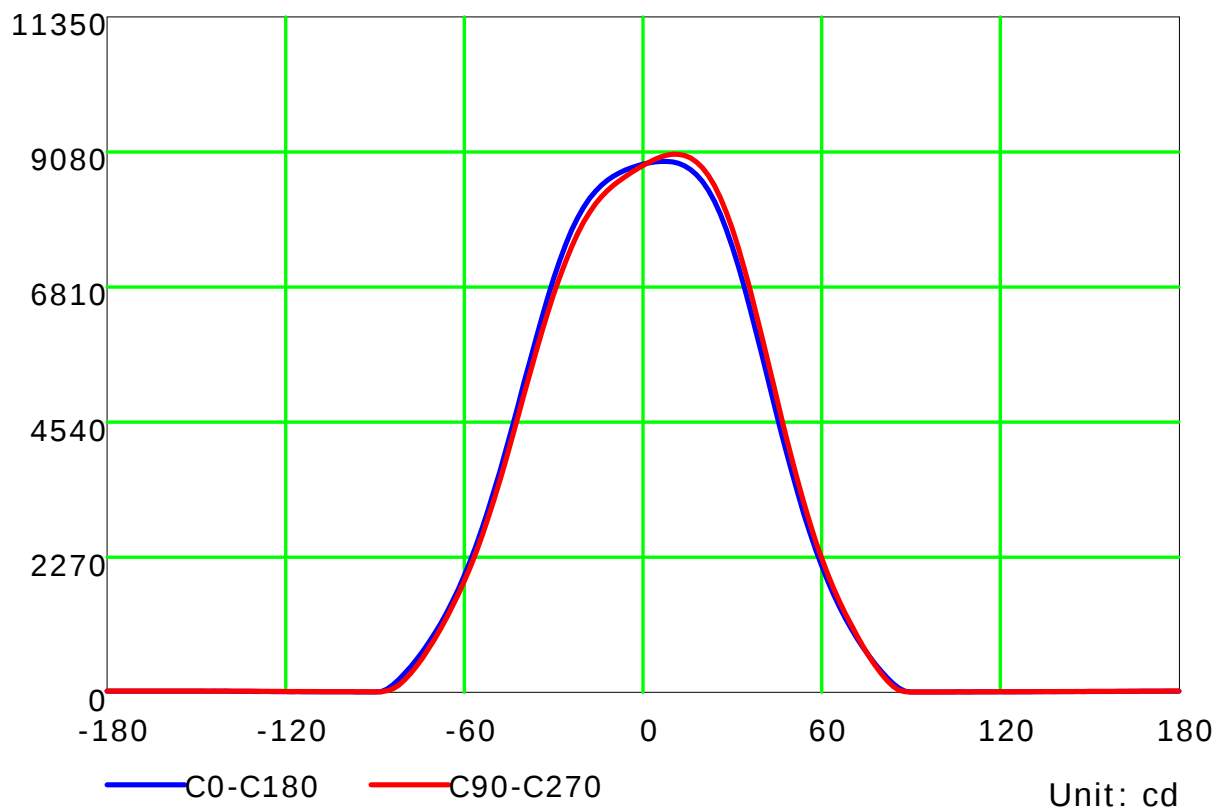
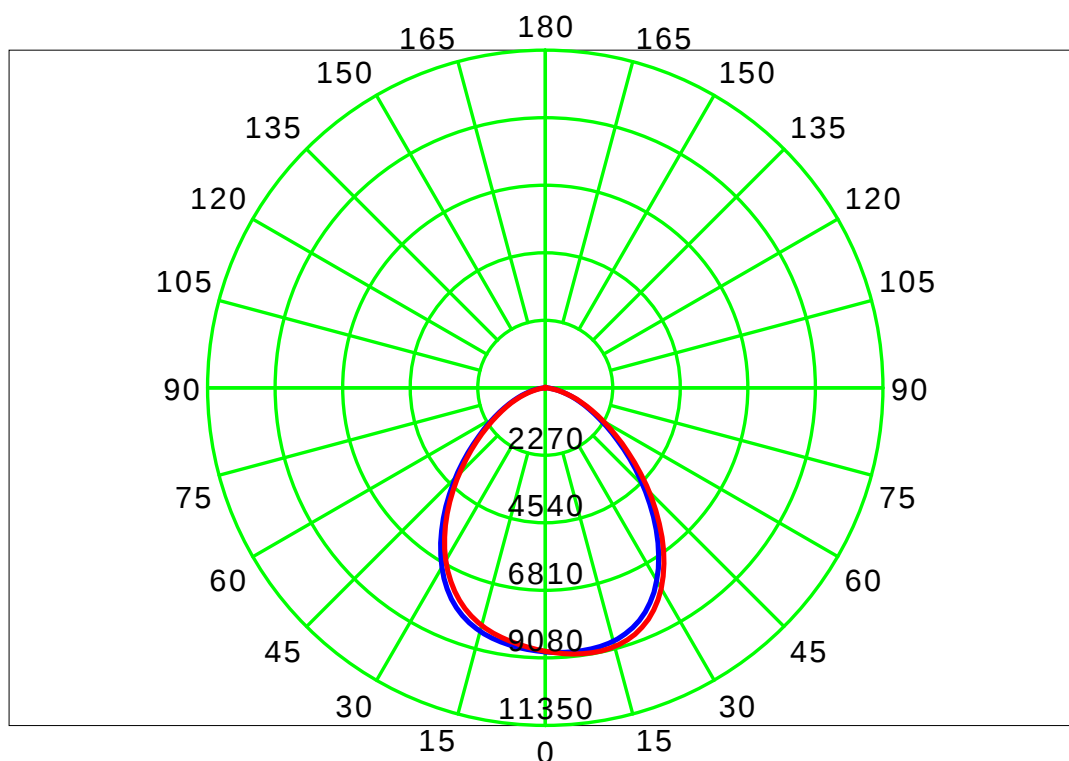
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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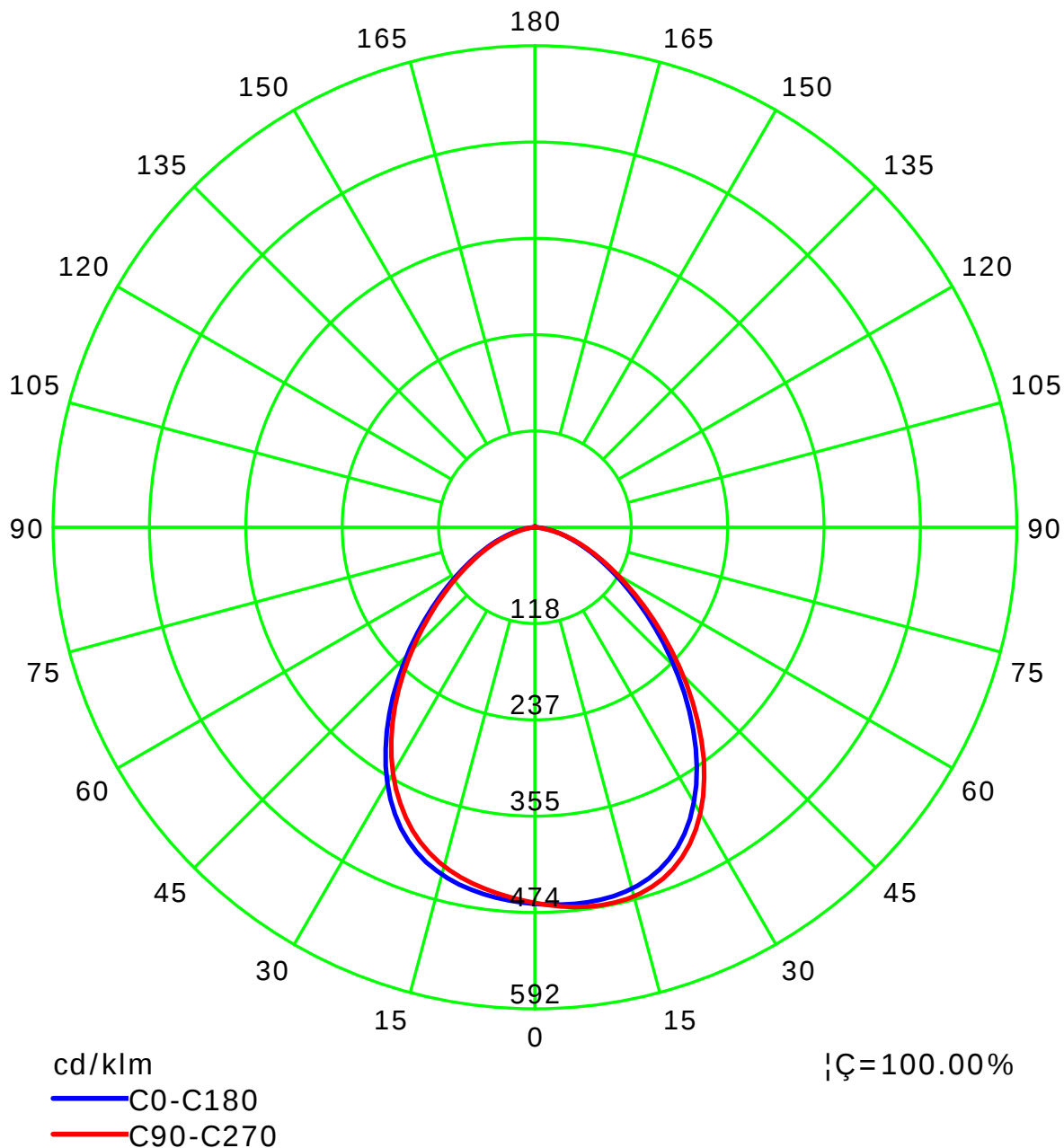
Test Device: LSG-1800B

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:

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Test Device: LSG-1800B

Distance: 12.677 m

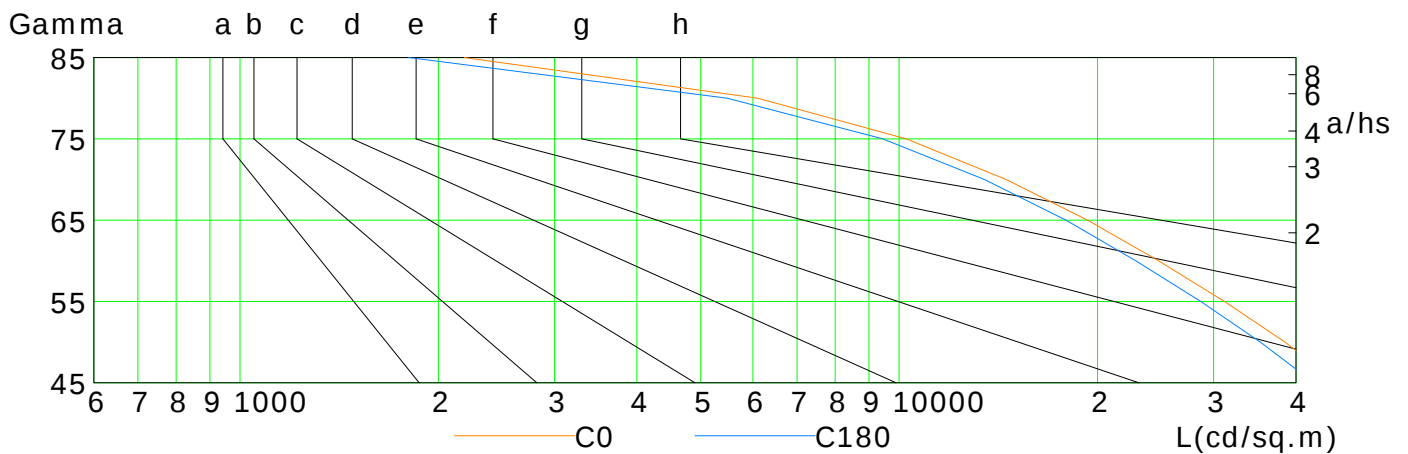
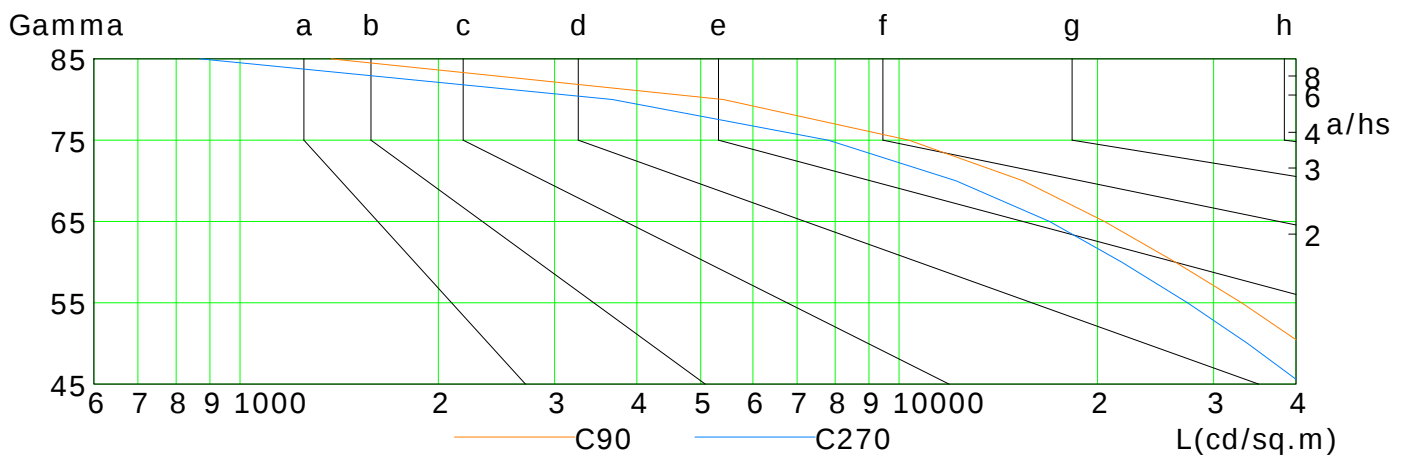
Humidity:

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	46490	38496	31167	24756	19319	14535	10253	6101	2190
C90	49296	40808	33092	26249	20491	15420	10343	5412	1375
C180	42649	35320	28684	22856	17910	13475	9445	5488	1803
C270	40950	33767	27380	21759	16909	12200	7802	3673	870

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

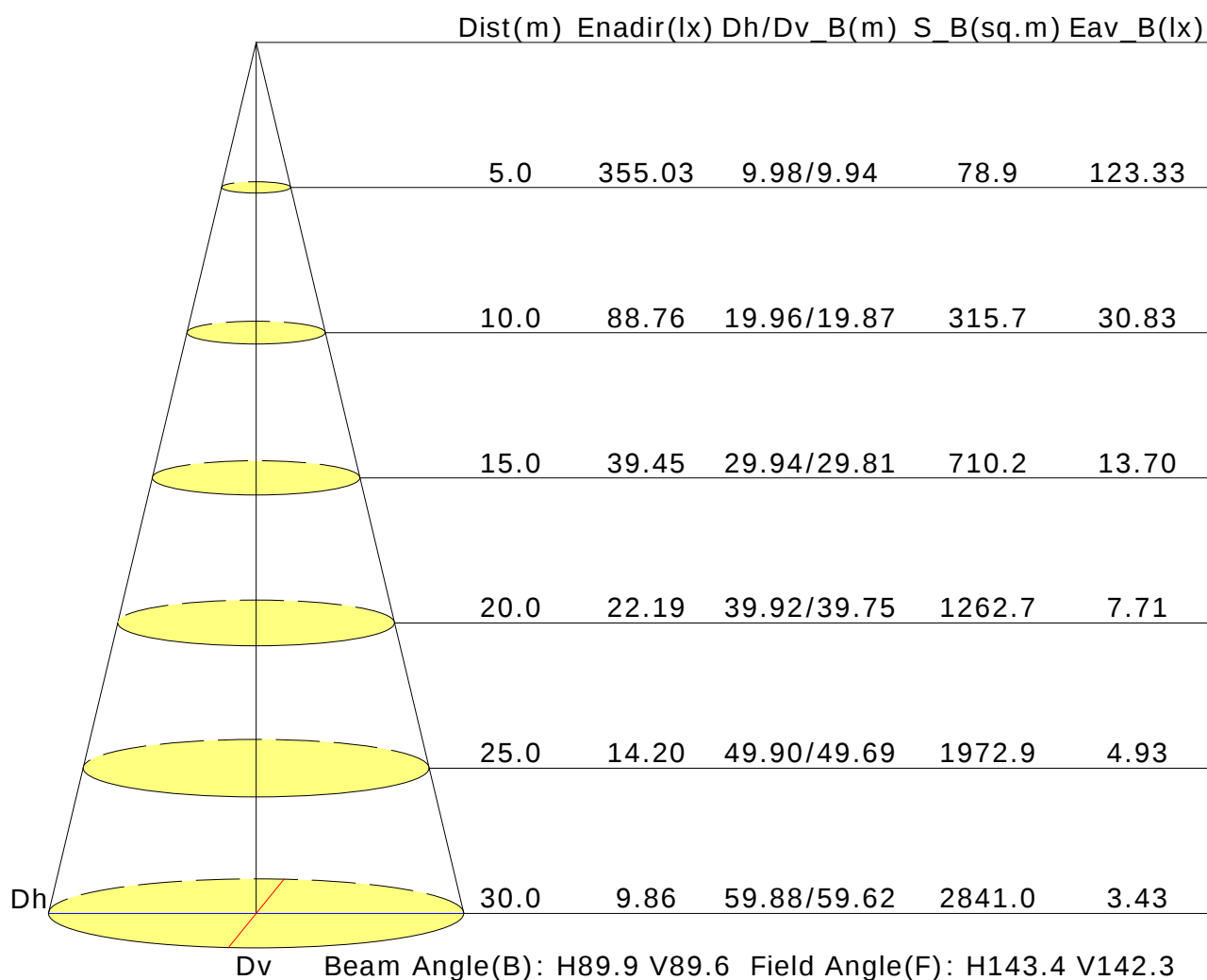
Test Device: LSG-1800B

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	23.9	25.1	24.2	25.4	25.6	23.9	25.1	24.2	25.3	25.6
3H	24.5	25.6	24.8	25.9	26.2	24.5	25.6	24.8	25.9	26.1
4H	24.7	25.7	25.0	26.0	26.3	24.6	25.7	25.0	25.9	26.2
6H	24.8	25.7	25.1	26.0	26.4	24.6	25.6	25.0	25.9	26.2
8H	24.7	25.7	25.1	26.0	26.3	24.6	25.6	25.0	25.9	26.2
12H	24.7	25.6	25.1	26.0	26.3	24.6	25.5	25.0	25.8	26.2
X=4H Y=2H	24.1	25.2	24.5	25.5	25.8	24.1	25.2	24.5	25.5	25.8
3H	24.9	25.8	25.3	26.1	26.5	24.9	25.8	25.2	26.1	26.4
4H	25.1	25.9	25.5	26.3	26.7	25.1	25.9	25.5	26.2	26.6
6H	25.3	26.0	25.7	26.4	26.8	25.1	25.8	25.6	26.2	26.6
8H	25.3	25.9	25.7	26.3	26.7	25.1	25.8	25.6	26.2	26.6
12H	25.3	25.8	25.7	26.3	26.7	25.1	25.7	25.6	26.1	26.6
X=8H Y=4H	25.2	25.8	25.6	26.2	26.6	25.1	25.8	25.5	26.2	26.6
6H	25.3	25.9	25.8	26.3	26.8	25.2	25.7	25.7	26.2	26.6
8H	25.4	25.8	25.9	26.3	26.8	25.2	25.7	25.7	26.1	26.6
12H	25.4	25.8	25.9	26.2	26.8	25.2	25.6	25.7	26.1	26.6
X=12H Y=4H	25.1	25.7	25.6	26.2	26.6	25.1	25.7	25.5	26.1	26.5
6H	25.3	25.8	25.8	26.2	26.7	25.2	25.7	25.7	26.1	26.6
8H	25.4	25.8	25.9	26.2	26.7	25.2	25.6	25.7	26.1	26.6
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.4/-0.7				
S=1.5H	+0.9/-1.4					+0.7/-1.5				
S=2.0H	+1.9/-2.4					+1.6/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 19156lm ($8\log(F/F_0) = 10.3$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.65	0.75	0.82	0.86	0.93	0.97	1.00	1.04	1.06	
	0.30		0.58	0.68	0.75	0.80	0.88	0.92	0.96	1.00	1.03	
	0.20		0.53	0.63	0.71	0.76	0.83	0.89	0.92	0.97	1.01	
0.50	0.50	0.20	0.64	0.73	0.79	0.84	0.90	0.94	0.96	1.00	1.02	
	0.30		0.58	0.67	0.74	0.79	0.85	0.90	0.93	0.97	0.99	
	0.20		0.53	0.63	0.70	0.75	0.82	0.86	0.90	0.95	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.57	0.66	0.73	0.77	0.83	0.87	0.90	0.94	0.96	
	0.20		0.53	0.62	0.69	0.74	0.80	0.84	0.88	0.92	0.94	
0.00	0.00	0.00	0.51	0.60	0.66	0.71	0.77	0.81	0.84	0.87	0.90	
Rating:153W 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	0.87	0.70	0.59	0.51	0.40	0.33	0.28	0.22	0.18	
	0.30		0.72	0.60	0.51	0.45	0.36	0.30	0.26	0.20	0.17	
	0.20		0.62	0.52	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
0.50	0.50	0.20	0.83	0.67	0.56	0.48	0.38	0.35	0.27	0.20	0.16	
	0.30		0.70	0.58	0.50	0.43	0.35	0.29	0.25	0.19	0.16	
	0.20		0.61	0.51	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
0.30	0.50	0.20	0.81	0.64	0.54	0.46	0.36	0.30	0.25	0.19	0.16	
	0.30		0.69	0.57	0.48	0.42	0.33	0.28	0.24	0.18	0.15	
	0.20		0.60	0.51	0.44	0.38	0.31	0.26	0.22	0.17	0.14	
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.16	0.12	0.10	
Rating:153W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	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	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	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	0.16	0.18	0.18	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:153W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												