

Report No.:

Test Time: 08.06.2020 17:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 4000K 60гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 18749.0 lm

Luminous Length (mm): 316 mm

Luminous Width (mm): 316 mm

Luminous Height (mm): 132 mm

Voltage: 221.1 V

Current: 0.697 A

Power: 151.97 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 18749.0 lm

Measurement Flux: 18749 lm

Efficiency: 100.00%

Downward Ratio: 99.53%

Upward Ratio: 0.47%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.0, 122.6, 121.6, 121.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 64.6, 65.3, 65.3, 65.2

Luminaire Efficacy Rating (LER): 123.42

Central Intensity: 13547.11 cd

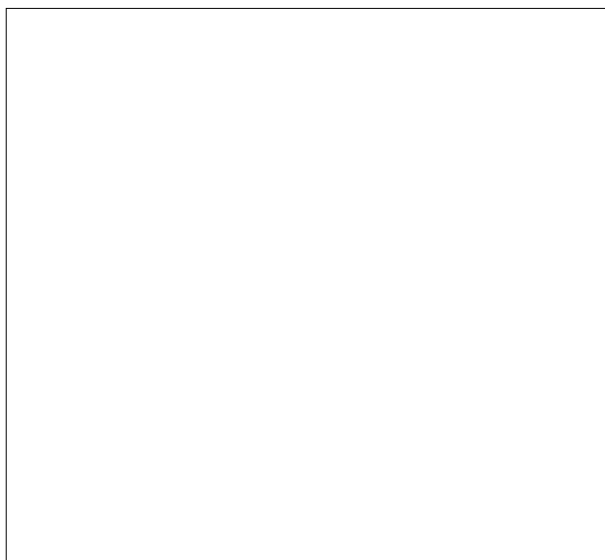
Max. Intensity: 13549.89 cd

Pos of Max. Intensity: H45 V0

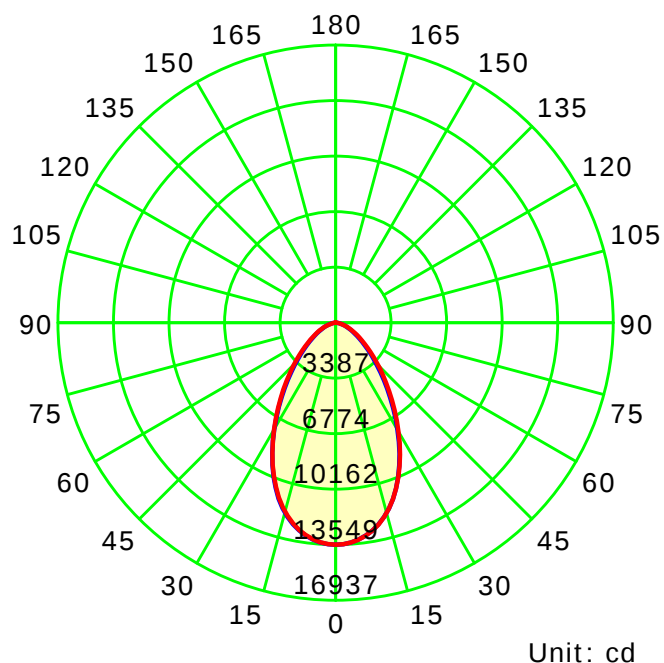
S/MH(C0/C180): 0.94

S/MH(C90/C270): 0.94

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

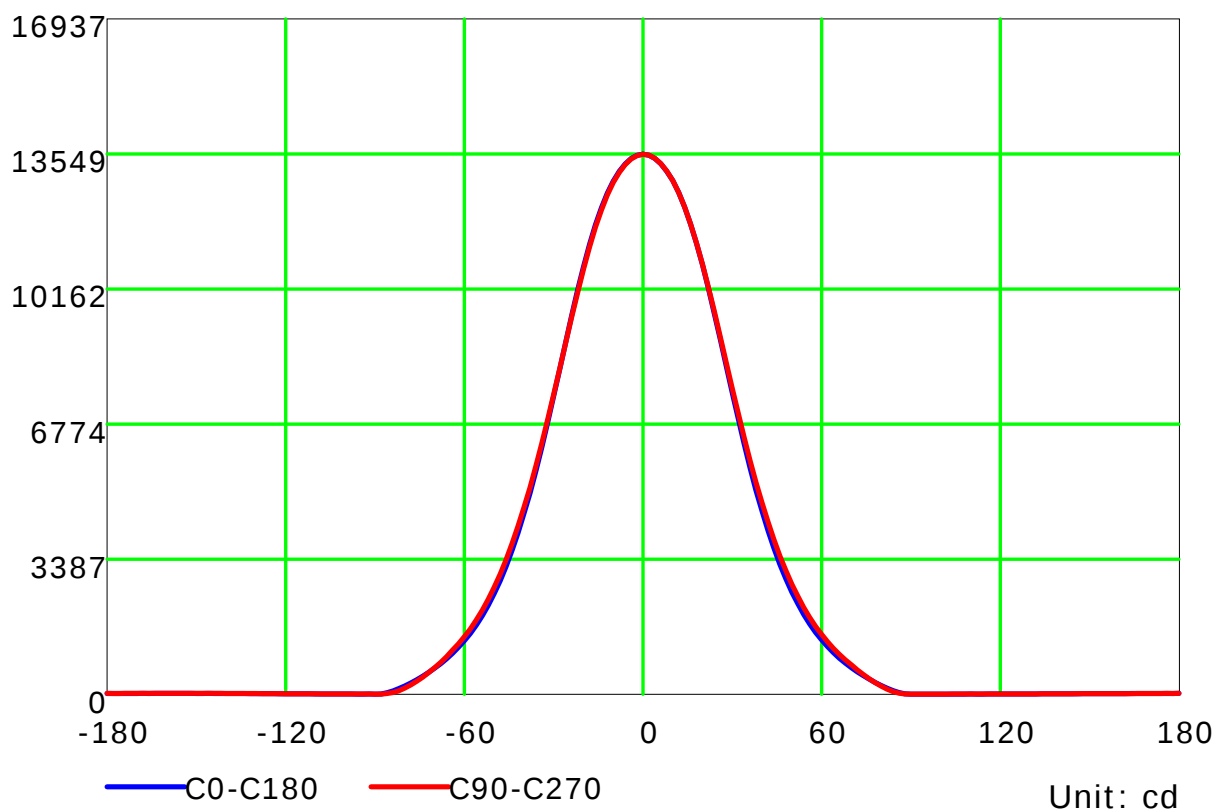
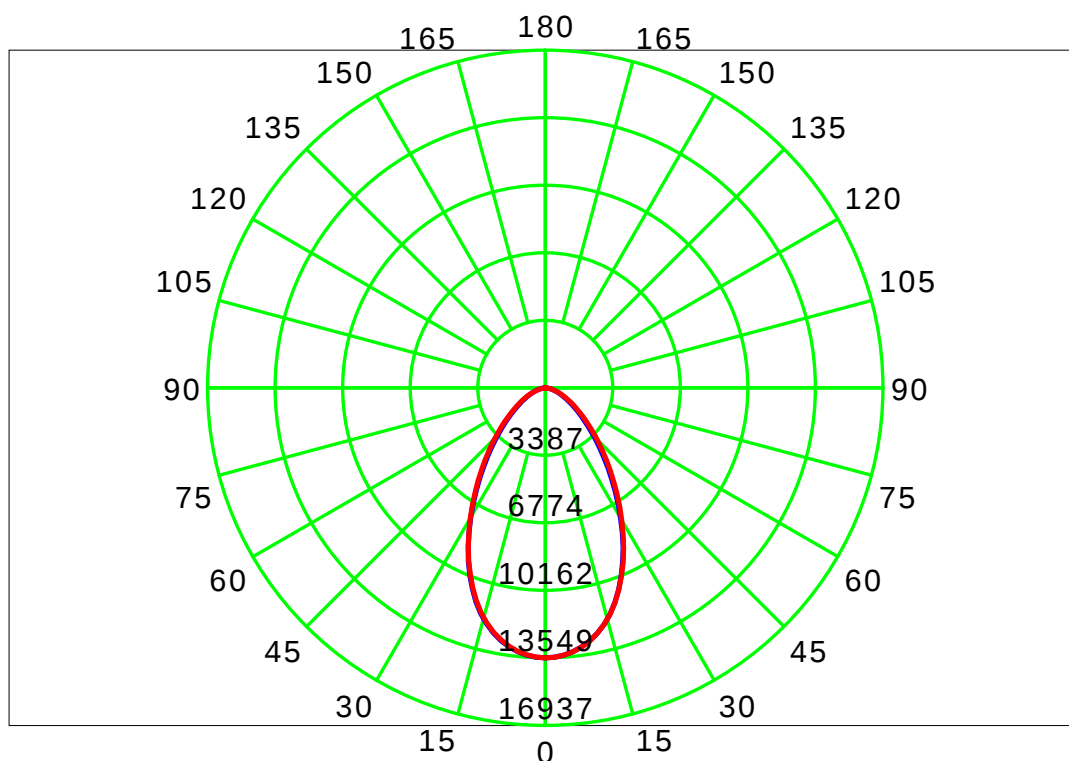
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

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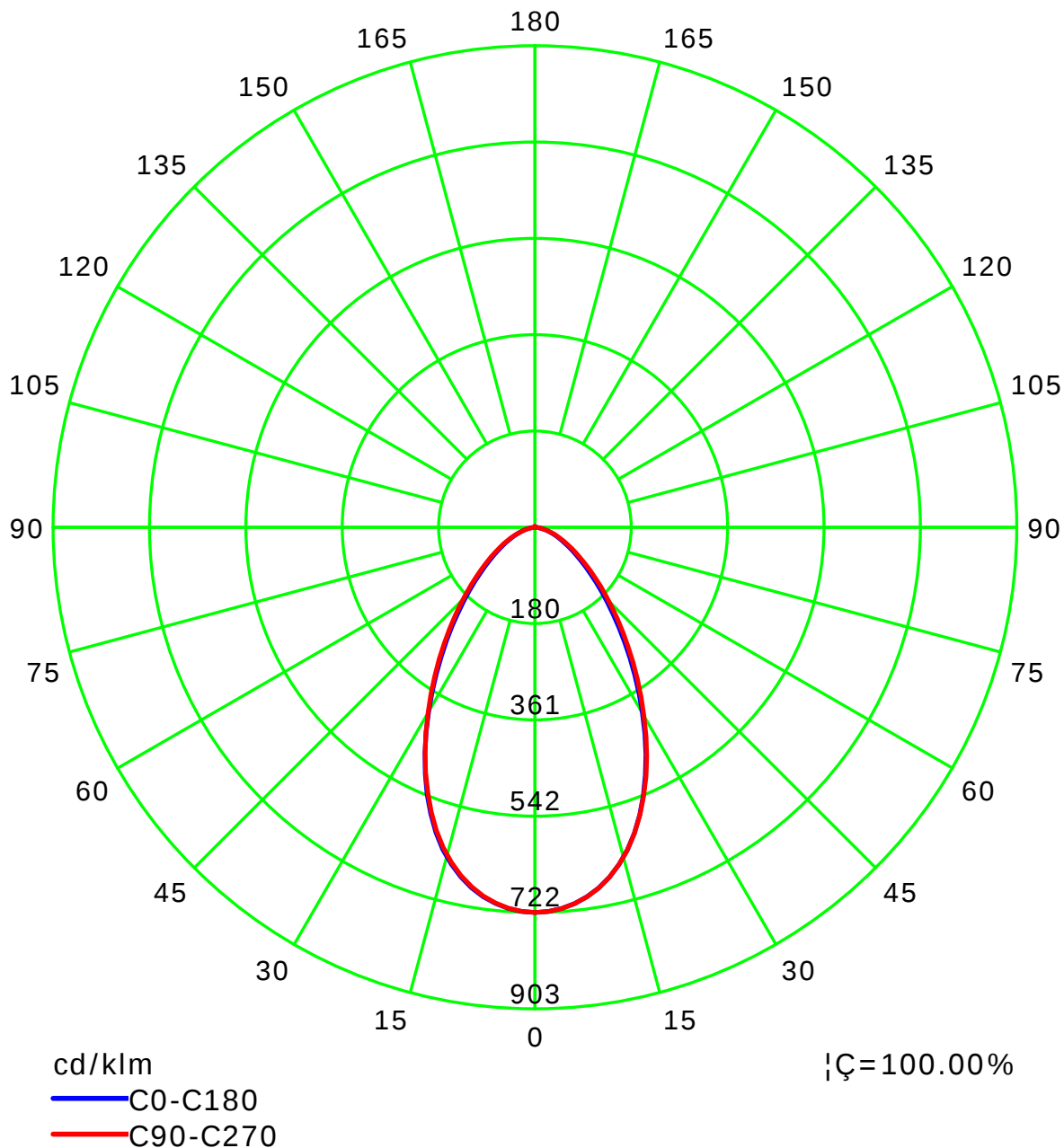
Test Device: LSG-1800B

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

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Operator:

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Test Device: LSG-1800B

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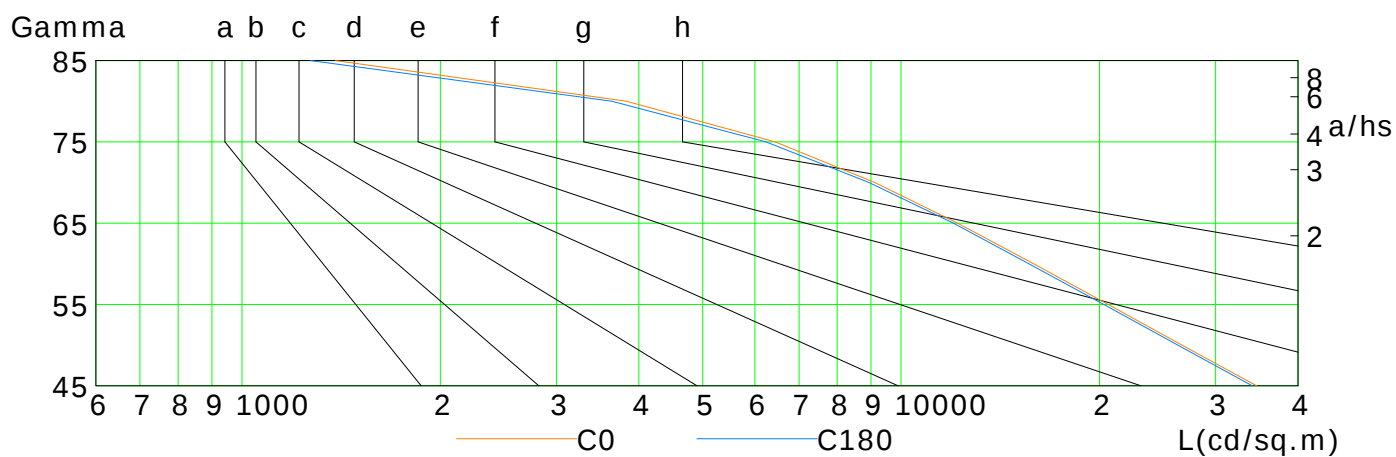
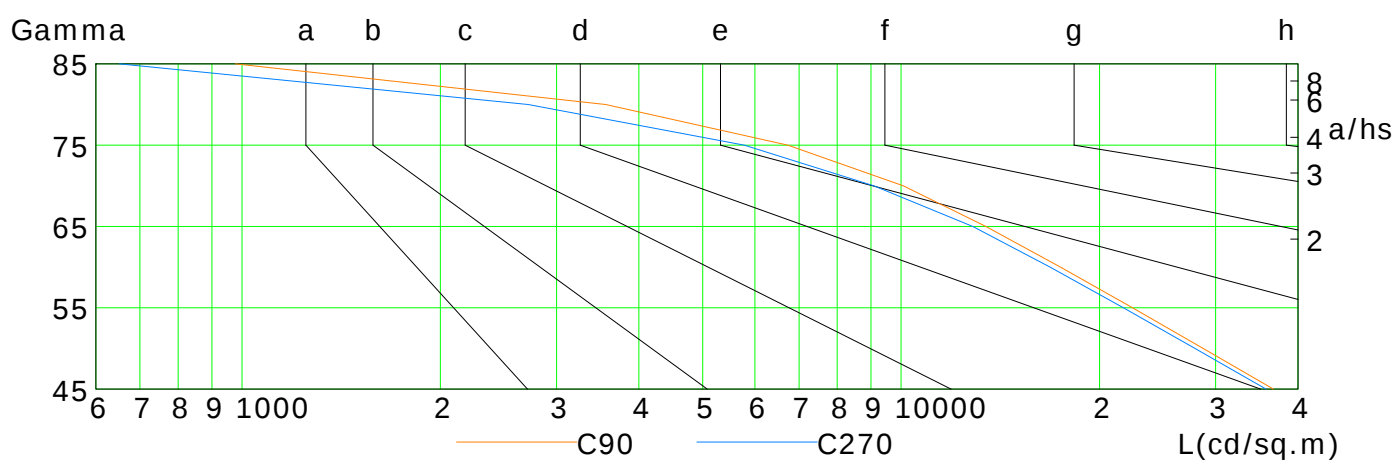
Humidity:

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	34609	26676	20619	15889	12177	9120	6438	3829	1386
C90	36716	28720	22446	17450	13443	10073	6732	3563	978
C180	34102	26284	20300	15631	12004	8938	6236	3639	1270
C270	35768	27912	21742	16824	12843	9089	5783	2718	652

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

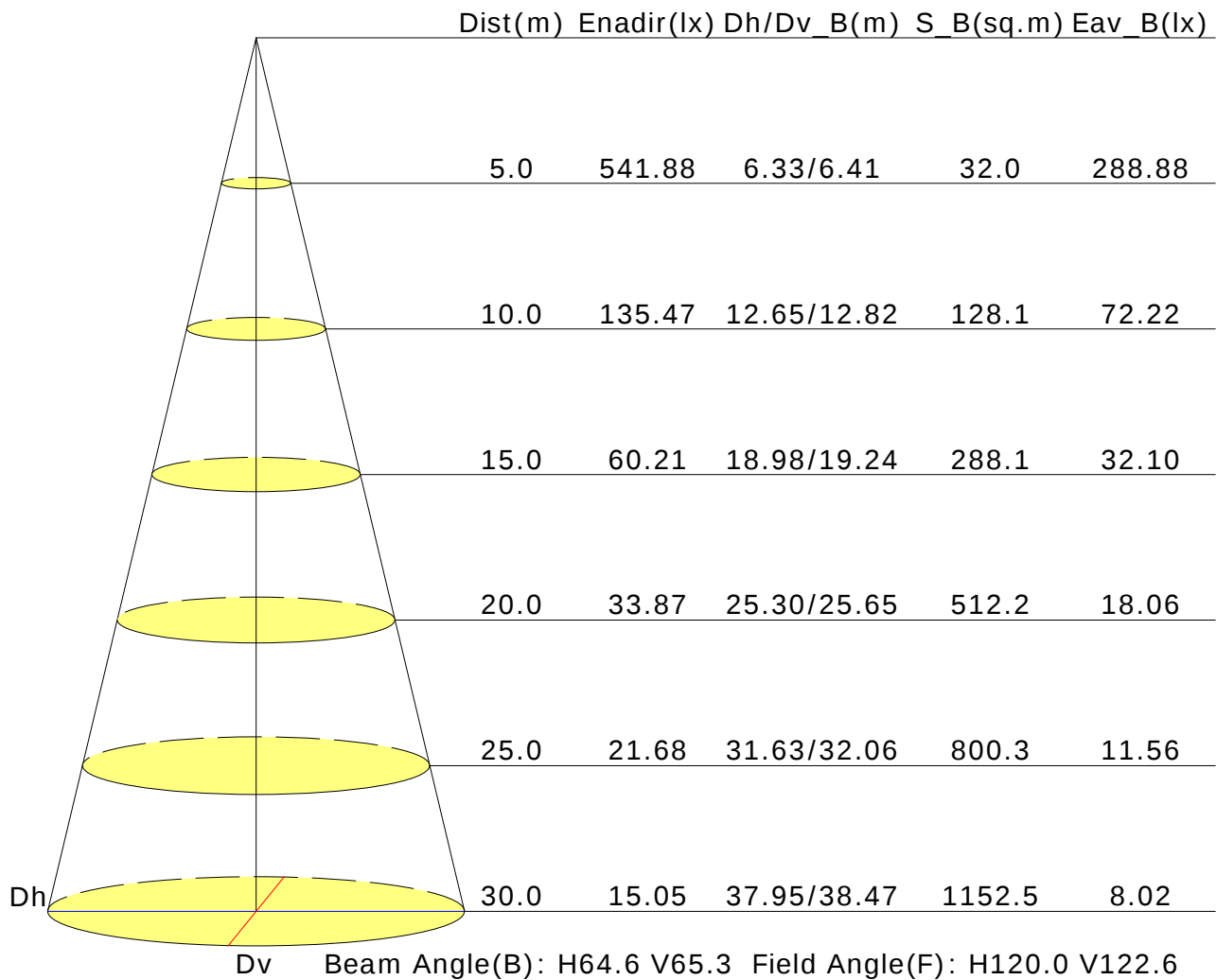
Test Device: LSG-1800B

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	21.9	23.0	22.1	23.2	23.4	22.1	23.2	22.4	23.4	23.7
3H	22.3	23.3	22.6	23.6	23.8	22.6	23.6	22.9	23.8	24.1
4H	22.4	23.4	22.8	23.7	23.9	22.7	23.6	23.0	23.9	24.2
6H	22.5	23.3	22.8	23.6	24.0	22.7	23.6	23.0	23.9	24.2
8H	22.4	23.3	22.8	23.6	23.9	22.7	23.5	23.0	23.8	24.2
12H	22.4	23.2	22.8	23.6	23.9	22.6	23.4	23.0	23.8	24.1
X=4H Y=2H	22.0	23.0	22.4	23.3	23.6	22.3	23.2	22.6	23.5	23.8
3H	22.6	23.4	23.0	23.7	24.1	22.9	23.7	23.2	24.0	24.3
4H	22.8	23.5	23.2	23.9	24.2	23.0	23.7	23.4	24.1	24.5
6H	22.9	23.5	23.3	23.9	24.3	23.1	23.7	23.5	24.1	24.5
8H	22.9	23.5	23.3	23.9	24.3	23.1	23.6	23.5	24.0	24.5
12H	22.9	23.4	23.3	23.8	24.3	23.0	23.5	23.5	24.0	24.4
X=8H Y=4H	22.8	23.4	23.3	23.8	24.2	23.0	23.6	23.5	24.0	24.4
6H	22.9	23.4	23.4	23.8	24.3	23.1	23.6	23.6	24.0	24.5
8H	23.0	23.4	23.4	23.8	24.3	23.1	23.5	23.6	24.0	24.5
12H	22.9	23.3	23.4	23.8	24.3	23.1	23.4	23.6	23.9	24.4
X=12H Y=4H	22.8	23.3	23.2	23.7	24.2	23.0	23.5	23.5	23.9	24.4
6H	22.9	23.3	23.4	23.8	24.3	23.1	23.5	23.6	24.0	24.4
8H	22.9	23.3	23.4	23.8	24.3	23.1	23.4	23.6	23.9	24.4
Variations with the observer position at spacings:										
S=1.0H	+0.6/-1.0					+0.5/-0.9				
S=1.5H	+1.6/-1.9					+1.5/-1.8				
S=2.0H	+2.8/-2.9					+2.7/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 18749lm ($8\log(F/F_0) = 10.2$).

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 = 1.00									
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	0.70	0.79	0.85	0.89	0.95	0.99	1.02	1.05	1.07	
	0.30		0.64	0.73	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.20		0.59	0.69	0.75	0.80	0.87	0.91	0.95	0.99	1.02	
0.50	0.50	0.20	0.69	0.77	0.83	0.87	0.92	0.96	0.98	1.01	1.03	
	0.30		0.63	0.72	0.78	0.82	0.88	0.92	0.95	0.99	1.01	
	0.20		0.59	0.68	0.74	0.79	0.85	0.89	0.92	0.97	0.99	
0.30	0.50	0.20	0.67	0.76	0.81	0.84	0.89	0.93	0.95	0.98	0.99	
	0.30		0.62	0.71	0.77	0.81	0.86	0.90	0.92	0.96	0.98	
	0.20		0.59	0.67	0.73	0.77	0.83	0.87	0.90	0.94	0.96	
0.00	0.00	0.00	0.57	0.65	0.71	0.75	0.80	0.84	0.86	0.89	0.91	
Rating:152W 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 = 1.00									
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	0.79	0.64	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.57	0.48	0.42	0.37	0.30	0.26	0.22	0.17	0.15	
0.50	0.50	0.20	0.76	0.61	0.51	0.44	0.35	0.32	0.24	0.18	0.15	
	0.30		0.64	0.53	0.45	0.40	0.32	0.26	0.23	0.17	0.14	
	0.20		0.56	0.47	0.41	0.36	0.29	0.24	0.21	0.17	0.14	
0.30	0.50	0.20	0.74	0.58	0.49	0.42	0.33	0.27	0.23	0.17	0.14	
	0.30		0.63	0.51	0.44	0.38	0.30	0.25	0.21	0.17	0.13	
	0.20		0.55	0.46	0.40	0.35	0.28	0.23	0.20	0.16	0.13	
0.00	0.00	0.00	0.43	0.35	0.29	0.25	0.20	0.16	0.14	0.11	0.09	
Rating:152W 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 = 1.00									
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	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.13	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		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	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	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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:152W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												