

Report No.:

Test Time: 08.06.2020 18:17

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 5000K 90гр. диод 3Т матовое стекло

Luminous Length (mm): 316

Luminous Width (mm): 316

Luminous Height (mm): 132

Voltage: 222.5 V

Current: 0.696 A

Power: 152.95 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 20344.2 lm

Measurement Flux: 20344.2 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

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): 133.06

Central Intensity: 9426.29 cd

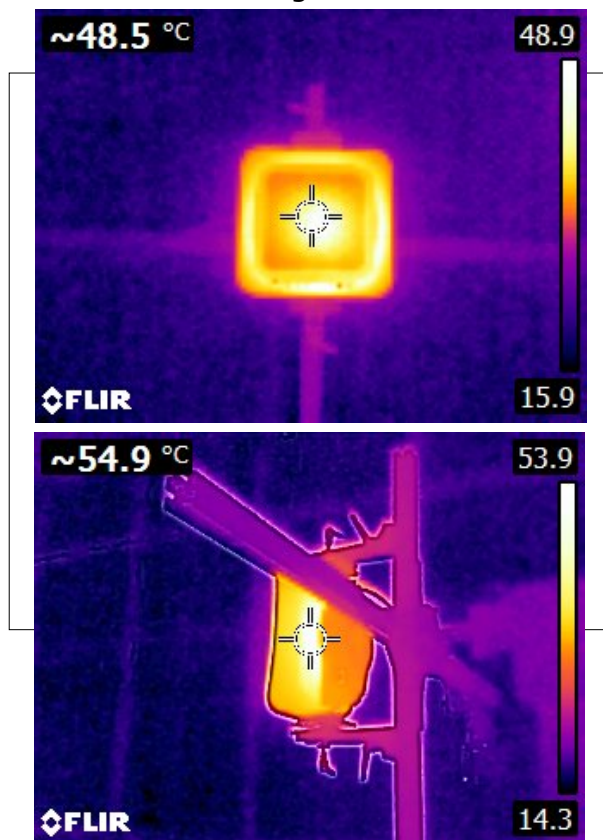
Max. Intensity: 9643.25 cd

Pos of Max. Intensity: H67.5 V12

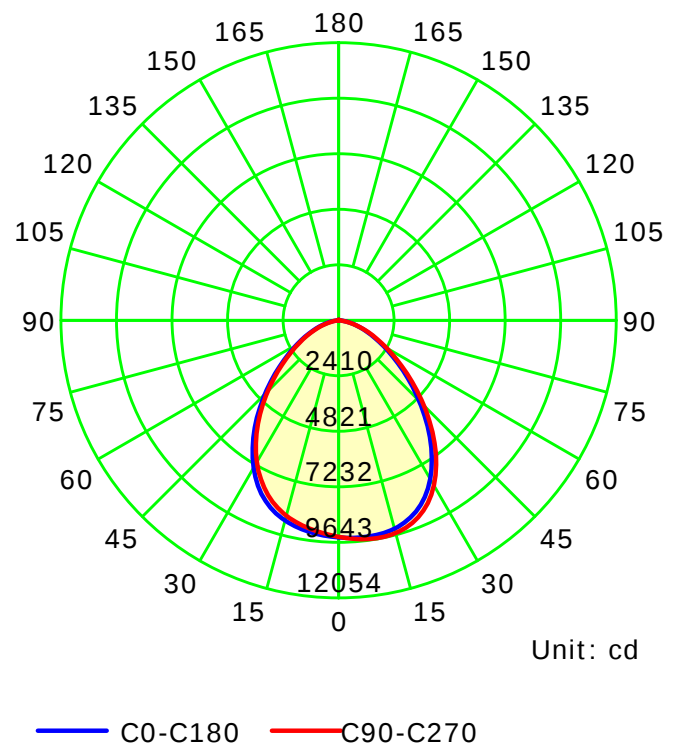
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.21

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

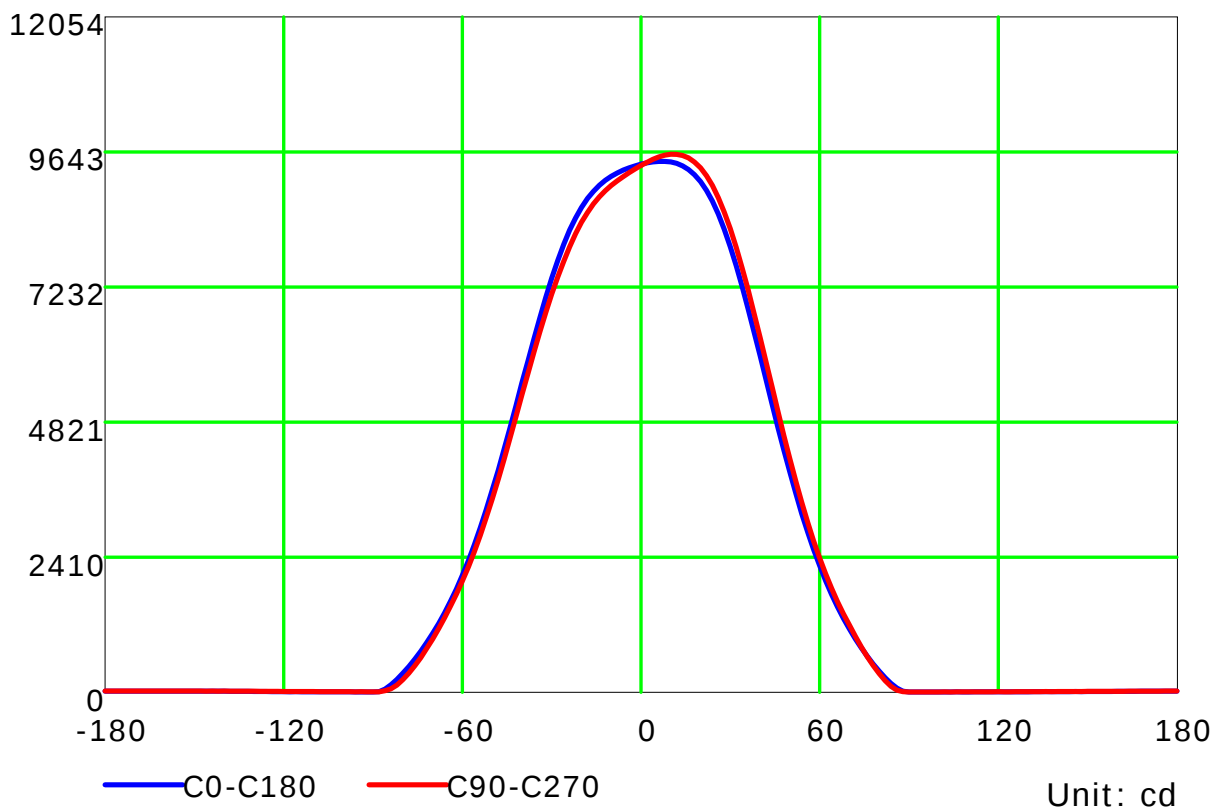
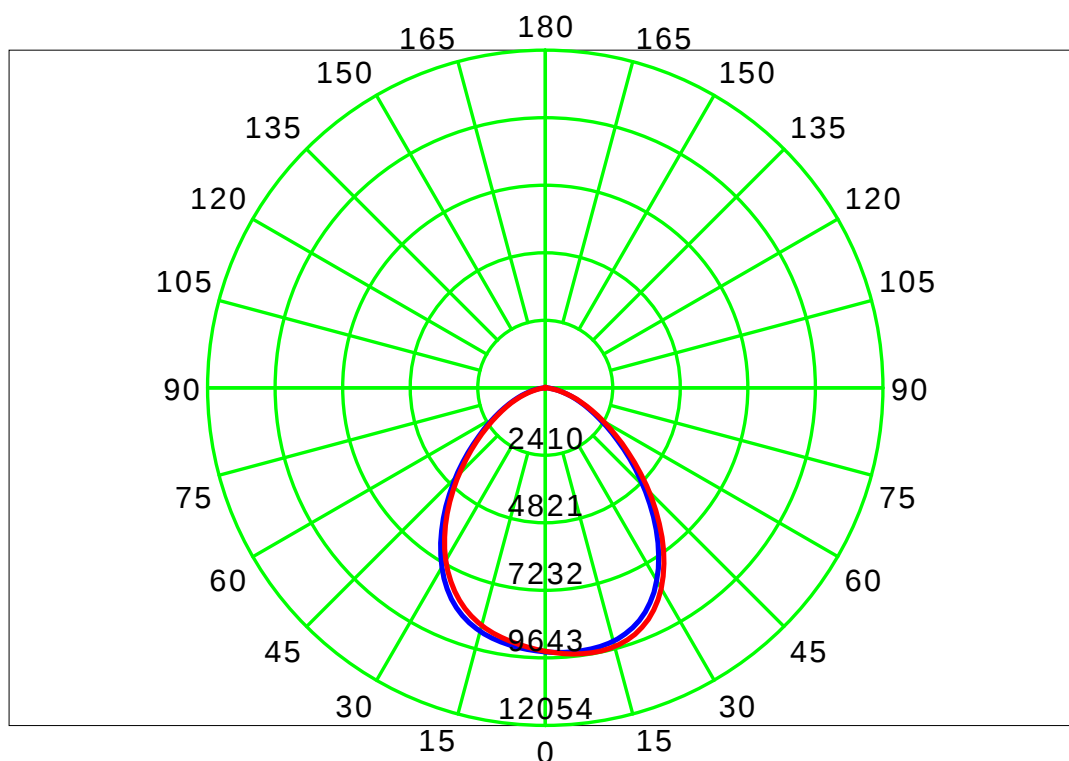
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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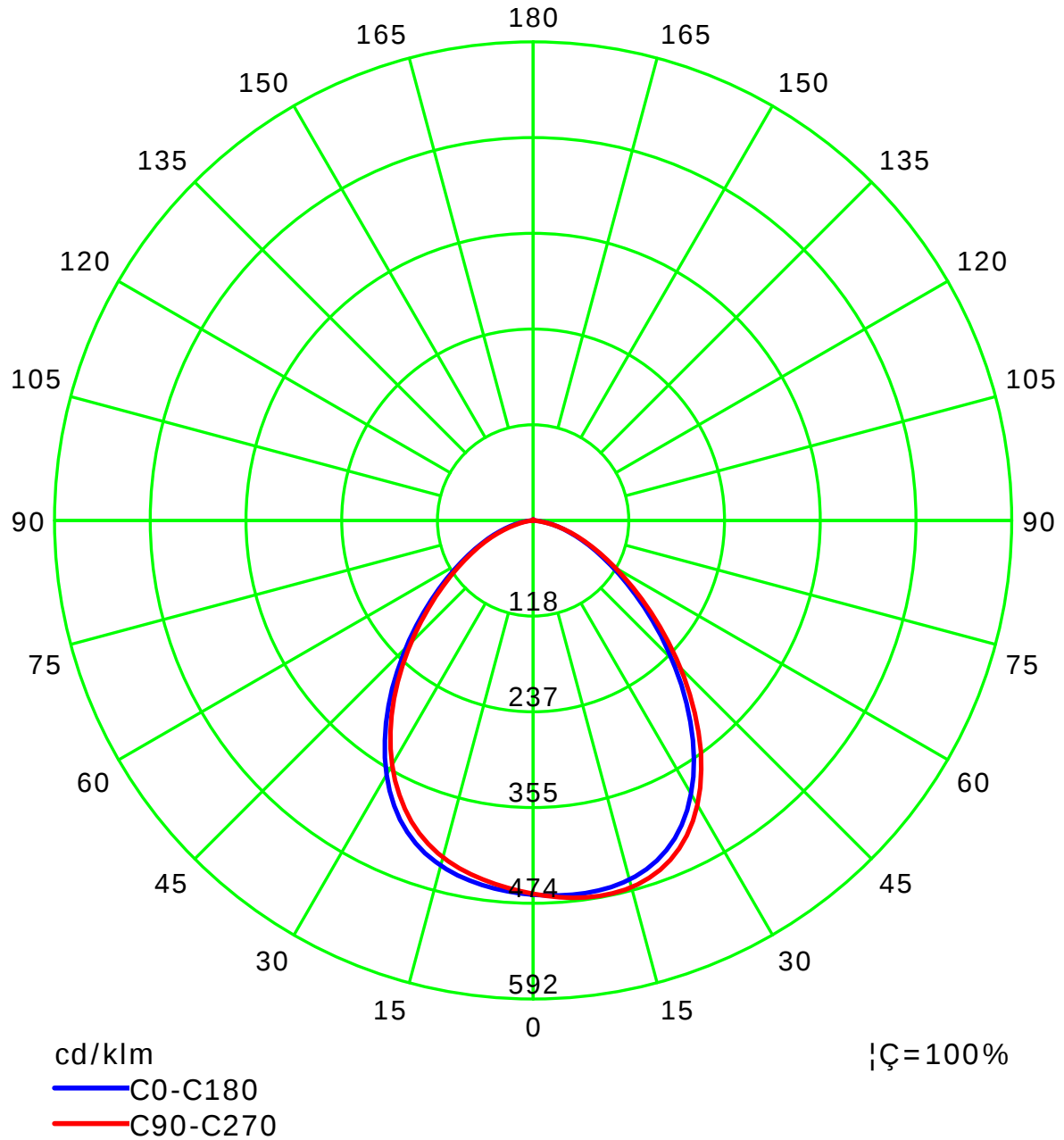
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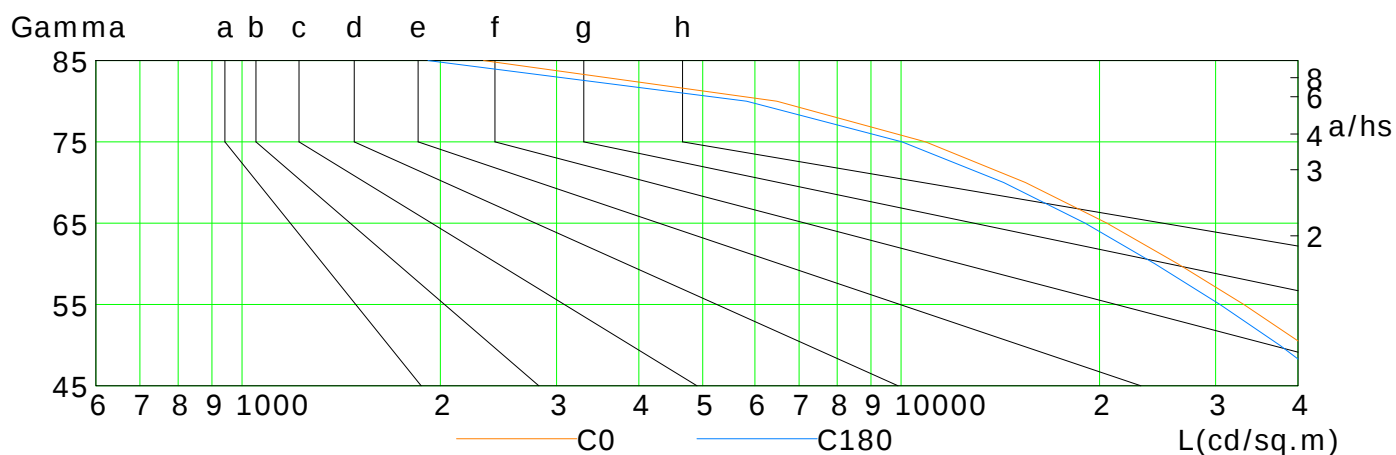
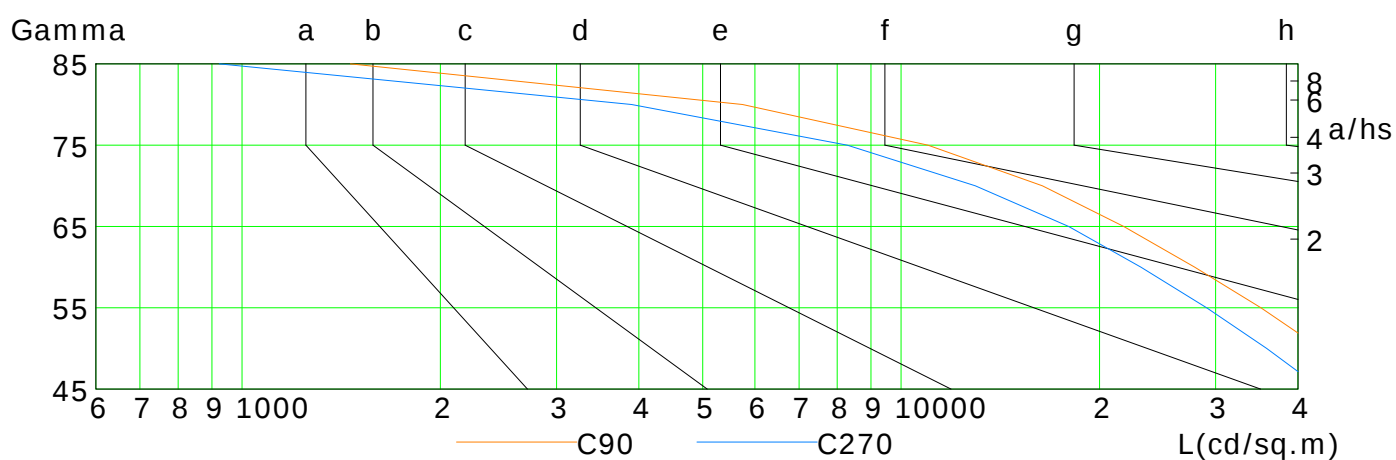
Luminous Intensity Distribution Curve(cd / klm)



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	49374	40884	33100	26291	20517	15436	10889	6479	2326
C90	52354	43339	35145	27877	21762	16376	10985	5747	1460
C180	45294	37511	30463	24273	19021	14311	10031	5828	1915
C270	43490	35861	29078	23109	17958	12957	8286	3901	924

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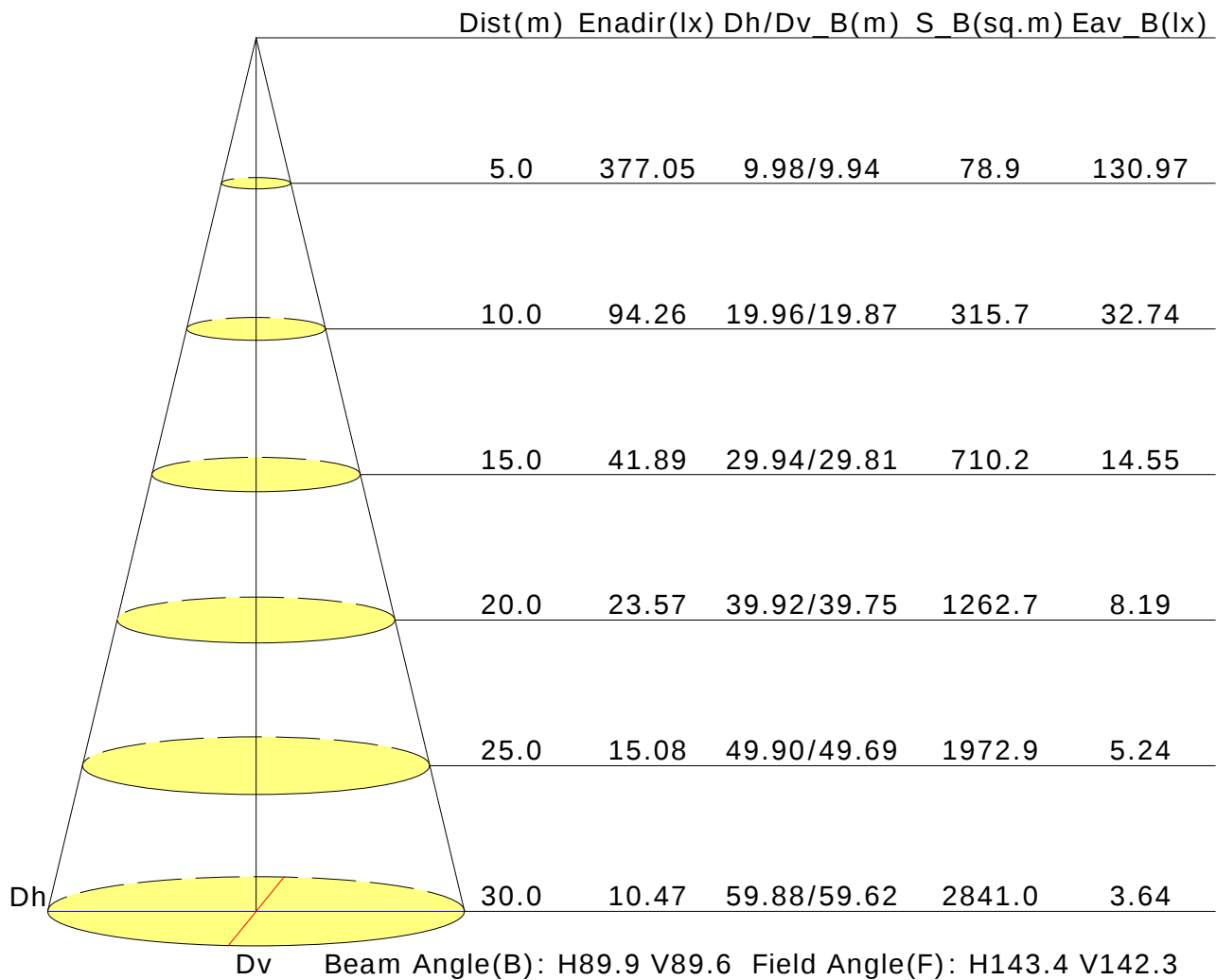
Test Device: LSG-1800B

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	24.1	25.3	24.4	25.6	25.8	24.1	25.3	24.4	25.5	25.8
3H	24.7	25.8	25.0	26.1	26.4	24.7	25.8	25.0	26.1	26.3
4H	24.9	25.9	25.2	26.2	26.5	24.8	25.9	25.2	26.2	26.5
6H	25.0	25.9	25.3	26.2	26.6	24.8	25.8	25.2	26.1	26.5
8H	25.0	25.9	25.3	26.2	26.5	24.8	25.8	25.2	26.1	26.4
12H	24.9	25.8	25.3	26.2	26.5	24.8	25.7	25.2	26.0	26.4
X=4H Y=2H	24.4	25.4	24.7	25.7	26.0	24.3	25.4	24.7	25.7	26.0
3H	25.1	26.0	25.5	26.3	26.7	25.1	26.0	25.4	26.3	26.6
4H	25.3	26.1	25.7	26.5	26.9	25.3	26.1	25.7	26.4	26.8
6H	25.5	26.2	25.9	26.6	27.0	25.4	26.1	25.8	26.4	26.9
8H	25.5	26.1	25.9	26.5	27.0	25.3	26.0	25.8	26.4	26.8
12H	25.5	26.0	25.9	26.5	26.9	25.3	25.9	25.8	26.3	26.8
X=8H Y=4H	25.4	26.0	25.8	26.4	26.9	25.3	26.0	25.8	26.4	26.8
6H	25.6	26.1	26.0	26.5	27.0	25.4	25.9	25.9	26.4	26.9
8H	25.6	26.0	26.1	26.5	27.0	25.4	25.9	25.9	26.3	26.8
12H	25.6	26.0	26.1	26.4	27.0	25.4	25.8	25.9	26.3	26.8
X=12H Y=4H	25.4	25.9	25.8	26.4	26.8	25.3	25.9	25.8	26.3	26.7
6H	25.5	26.0	26.0	26.4	26.9	25.4	25.9	25.9	26.3	26.8
8H	25.6	26.0	26.1	26.4	27.0	25.4	25.8	25.9	26.3	26.8
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 20344lm ($8\log(F/F_0) = 10.5$).

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Test Lab:

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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												