

Report No.:

Test Time: 18.12.2019 13:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x18LED 0,3A 32W 4000K закаленное стекло IP65

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 221.2 V

Current: 0.150 A

Power: 32.21 W

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4220.8 lm

Measurement Flux: 4220.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.2, 148.6, 149.2, 149.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.5, 115.1, 115.4, 115.4

Luminaire Efficacy Rating (LER): 131.09

Central Intensity: 1496.52 cd

Max. Intensity: 1497.16 cd

Pos of Max. Intensity: H22.5 V0

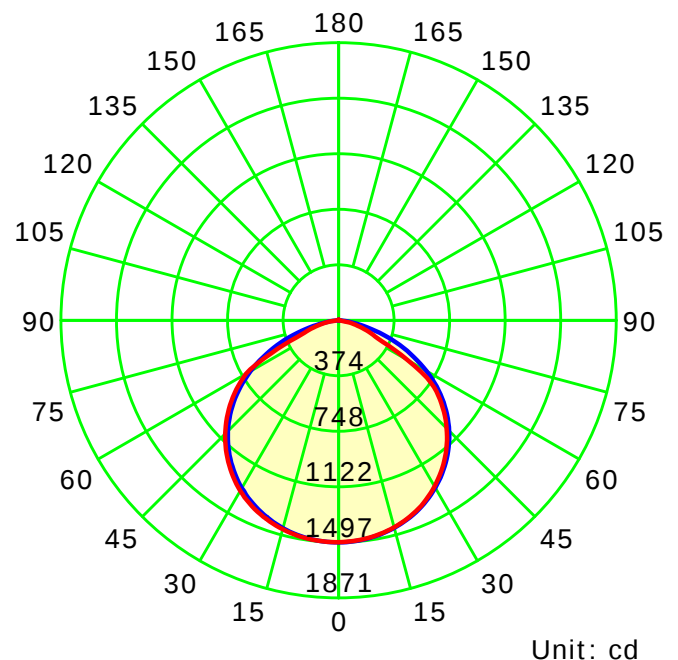
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.30

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

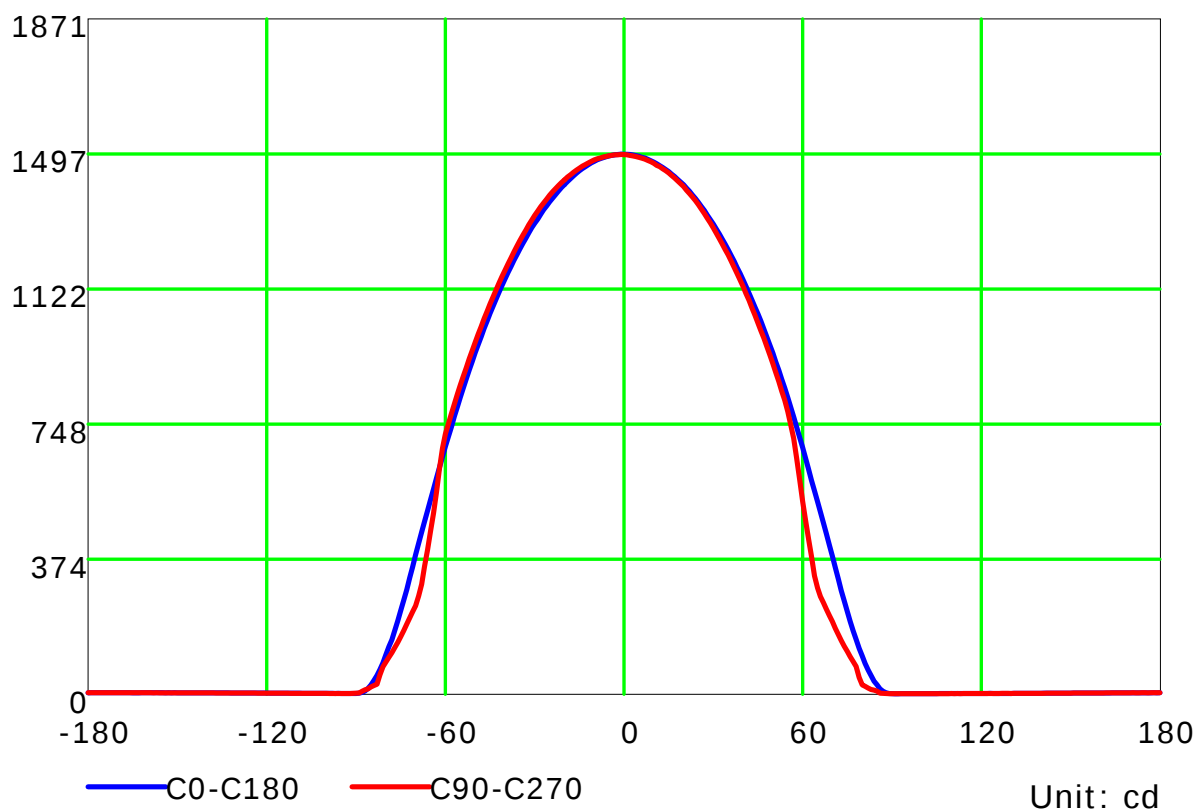
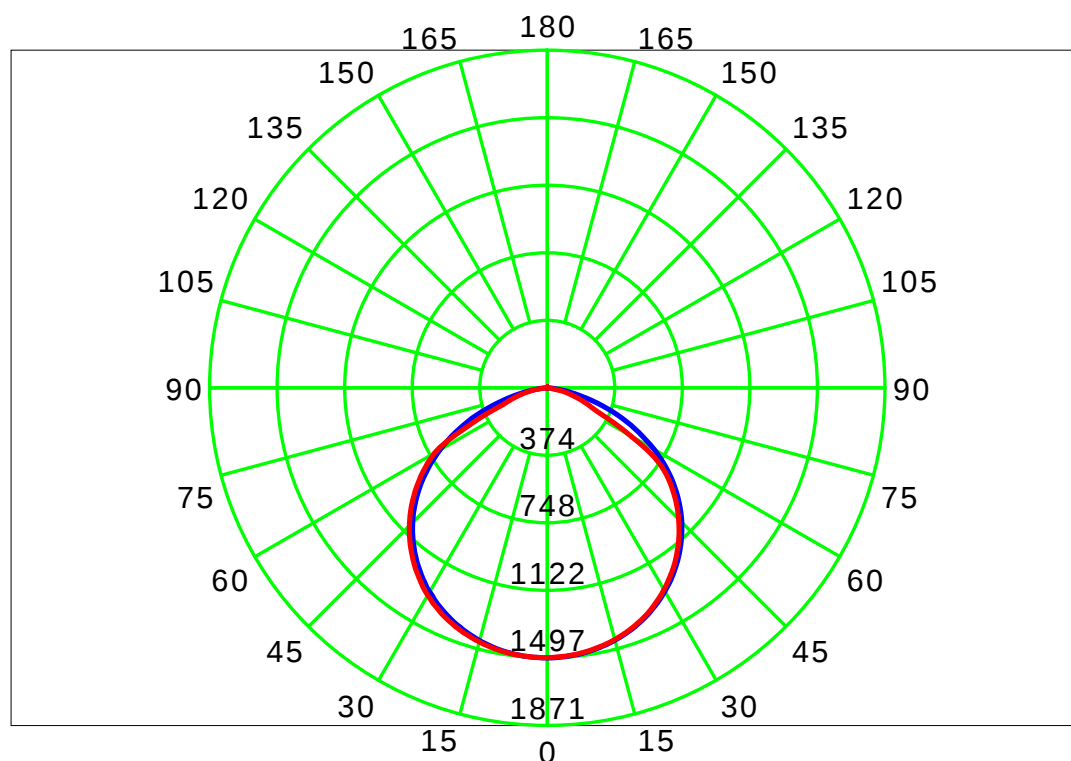
Temperature:

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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Gamma Plane (°): 0.0-180.0: 1.0

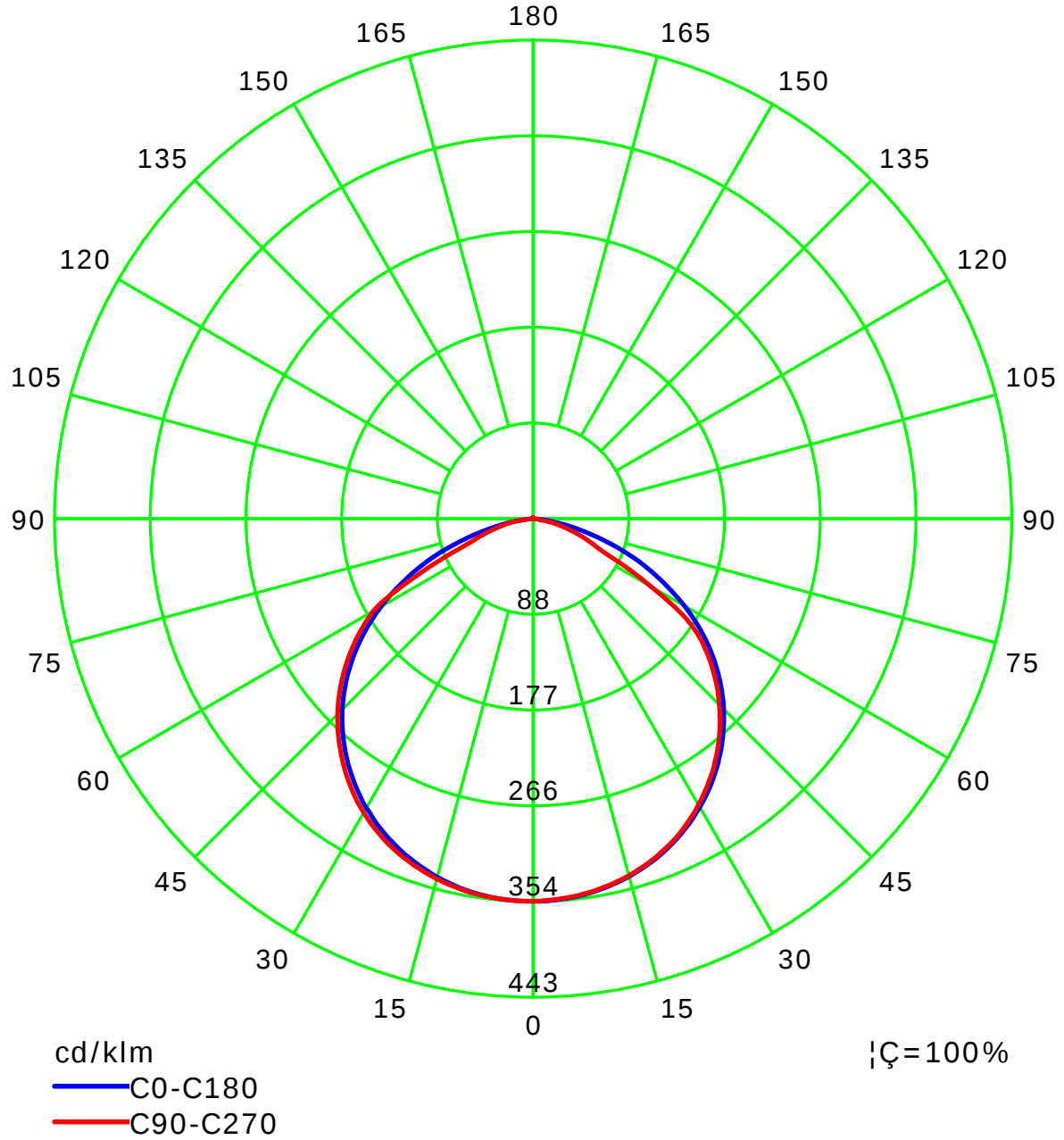
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

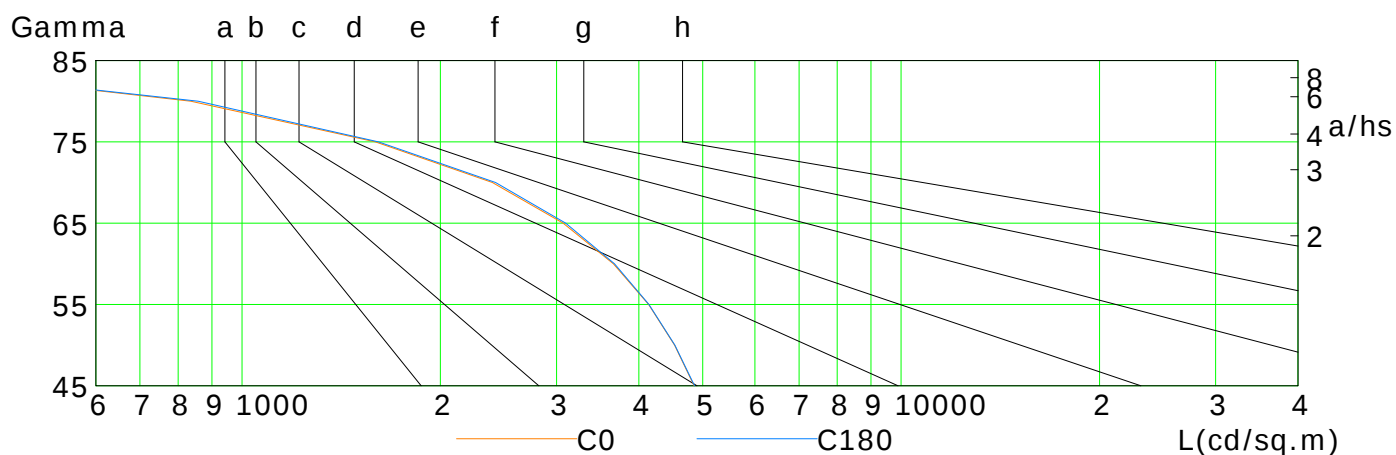
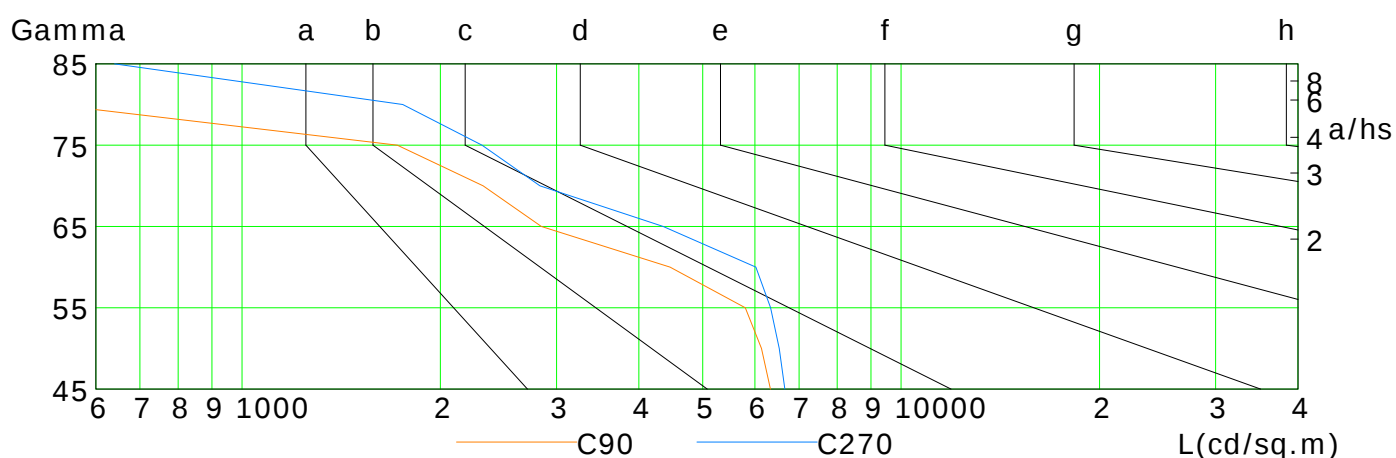
Luminous Intensity Distribution Curve(cd / klm)



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	4851	4531	4140	3659	3070	2398	1593	836	239
C90	6334	6138	5802	4461	2845	2322	1720	515	279
C180	4860	4536	4143	3673	3097	2424	1611	858	236
C270	6662	6531	6340	6020	4354	2832	2312	1753	641

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

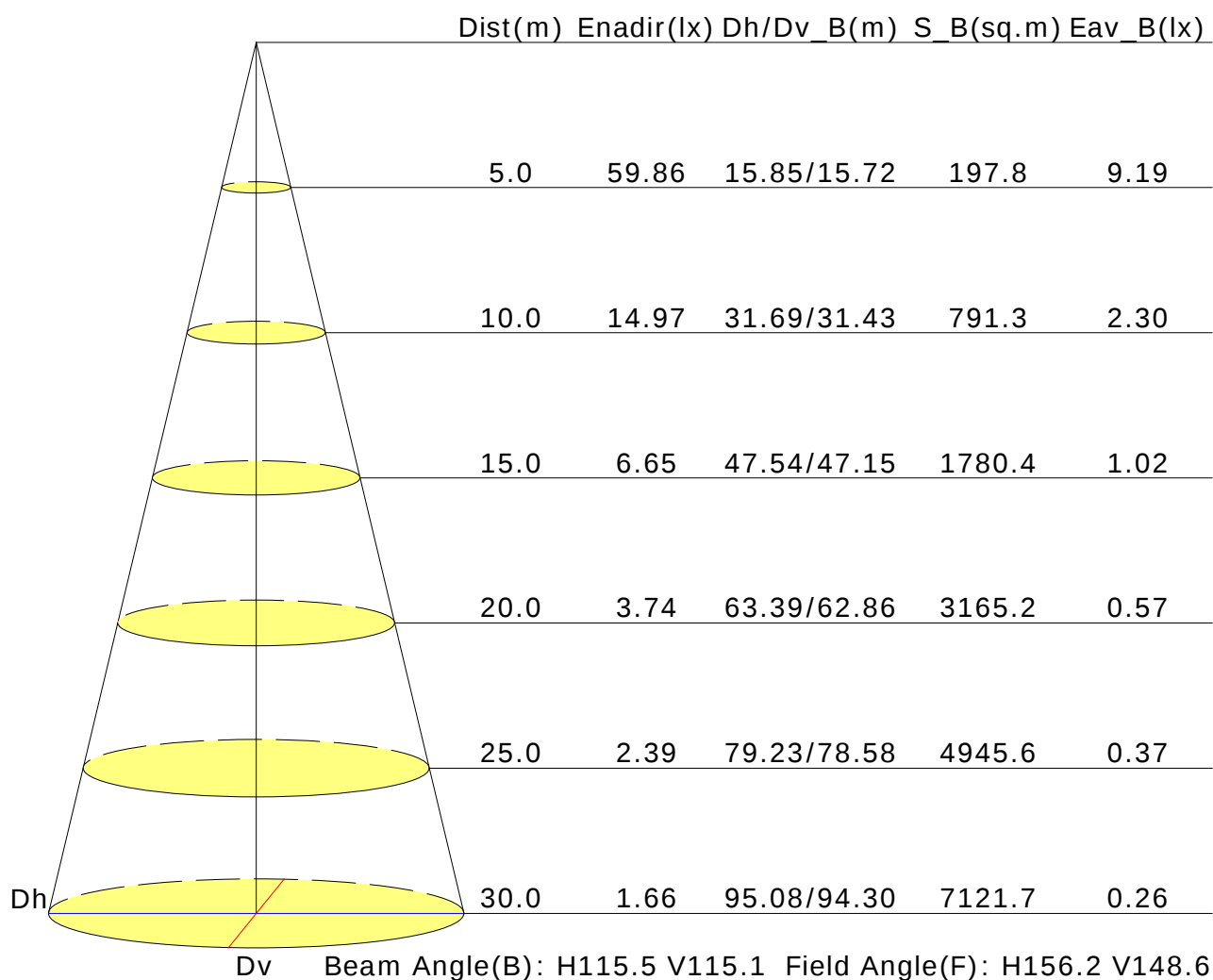
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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:

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	17.7	19.1	18.0	19.3	19.6	18.3	19.7	18.6	19.9	20.1
3H	18.8	20.0	19.1	20.3	20.6	18.9	20.1	19.2	20.4	20.7
4H	19.0	20.2	19.4	20.5	20.8	19.0	20.2	19.4	20.5	20.8
6H	19.1	20.2	19.5	20.5	20.8	19.1	20.1	19.4	20.5	20.8
8H	19.1	20.1	19.5	20.4	20.8	19.1	20.1	19.4	20.4	20.7
12H	19.1	20.0	19.5	20.4	20.7	19.0	20.0	19.4	20.3	20.7
X=4H Y=2H	18.3	19.4	18.6	19.7	20.0	18.7	19.9	19.1	20.2	20.5
3H	19.4	20.4	19.8	20.7	21.1	19.4	20.4	19.8	20.7	21.1
4H	19.7	20.6	20.2	21.0	21.4	19.6	20.4	20.0	20.8	21.2
6H	19.9	20.6	20.3	21.0	21.4	19.7	20.4	20.1	20.8	21.2
8H	19.9	20.6	20.3	21.0	21.4	19.7	20.4	20.1	20.8	21.2
12H	19.8	20.5	20.3	20.9	21.4	19.6	20.3	20.1	20.7	21.2
X=8H Y=4H	19.8	20.5	20.2	20.9	21.3	19.6	20.3	20.1	20.7	21.2
6H	19.9	20.5	20.4	20.9	21.4	19.7	20.3	20.2	20.7	21.2
8H	19.9	20.4	20.4	20.9	21.4	19.8	20.3	20.2	20.7	21.2
12H	19.9	20.3	20.4	20.8	21.3	19.7	20.2	20.2	20.6	21.2
X=12H Y=4H	19.7	20.4	20.2	20.8	21.3	19.6	20.2	20.0	20.6	21.1
6H	19.9	20.4	20.4	20.9	21.4	19.7	20.2	20.2	20.7	21.2
8H	19.9	20.3	20.4	20.8	21.3	19.7	20.2	20.2	20.7	21.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.8				
S=2.0H	+0.9/-1.6					+1.5/-2.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4221lm ($8\log(F/F_0) = 5.0$).

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	0.69	0.76	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.50	0.61	0.69	0.75	0.83	0.89	0.93	0.98	1.01	
	0.20		0.44	0.55	0.64	0.70	0.78	0.84	0.89	0.94	0.98	
0.50	0.50	0.20	0.56	0.66	0.74	0.79	0.86	0.90	0.93	0.98	1.00	
	0.30		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.94	0.97	
	0.20		0.44	0.55	0.63	0.68	0.77	0.82	0.86	0.92	0.95	
0.30	0.50	0.20	0.55	0.65	0.71	0.76	0.83	0.87	0.90	0.94	0.96	
	0.30		0.48	0.59	0.66	0.71	0.79	0.84	0.87	0.91	0.94	
	0.20		0.44	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.41	0.52	0.59	0.64	0.72	0.77	0.80	0.85	0.87	
Rating:32W 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	0.80	0.67	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.82	0.68	0.59	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.94	0.77	0.64	0.56	0.44	0.39	0.30	0.23	0.19	
	0.30		0.80	0.66	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.92	0.74	0.62	0.53	0.42	0.34	0.29	0.22	0.18	
	0.30		0.78	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.69	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.58	0.48	0.41	0.35	0.28	0.23	0.20	0.15	0.12	
Rating:32W 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	0.19	0.20	0.21	0.21	0.22	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	0.08	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	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	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												