

Report No.:

Test Time: 12.03.2020 16:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x40LED 0,3A 38W 5000K закаленное стекло матовое IP65 N

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 230.2 V

Current: 0.172 A

Power: 38.38 W

Power Factor: 0.967

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4453.4 lm

Measurement Flux: 4453.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.9, 143.4, 147.0, 147.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.0, 95.1, 98.0, 98.0

Luminaire Efficacy Rating (LER): 116.08

Central Intensity: 1888.26 cd

Max. Intensity: 1889.41 cd

Pos of Max. Intensity: H22.5 V0

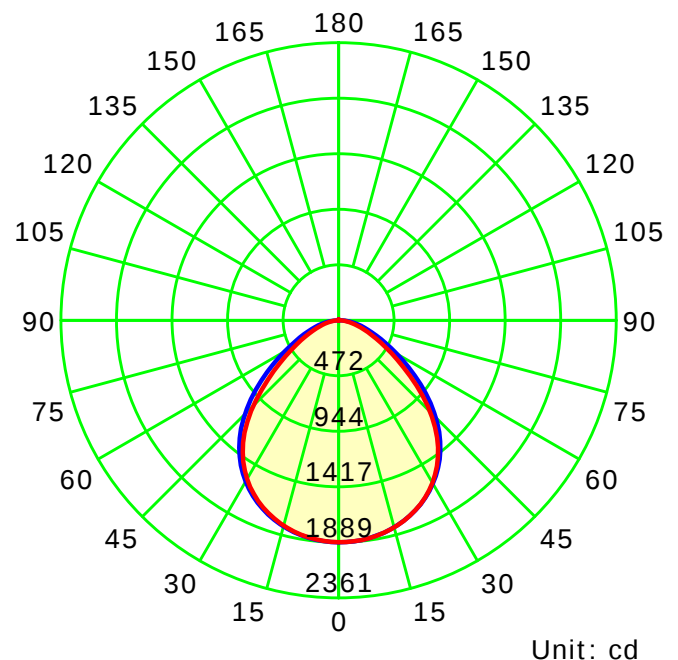
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.24

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

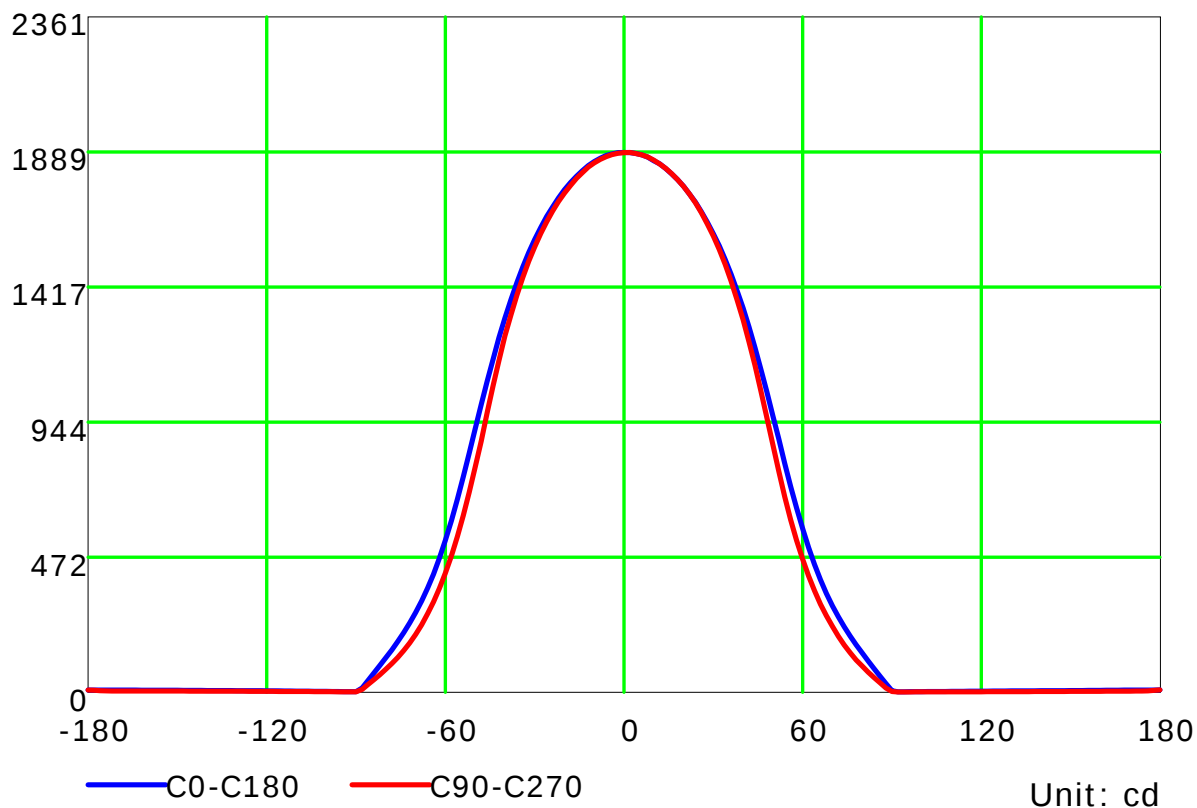
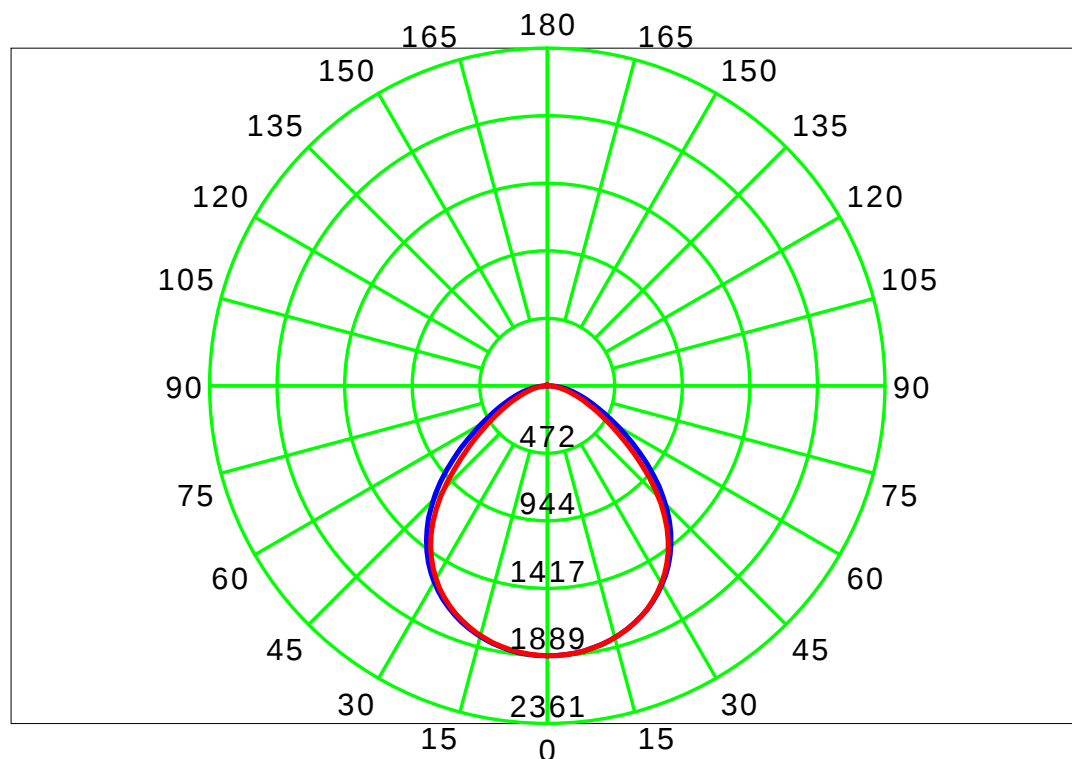
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

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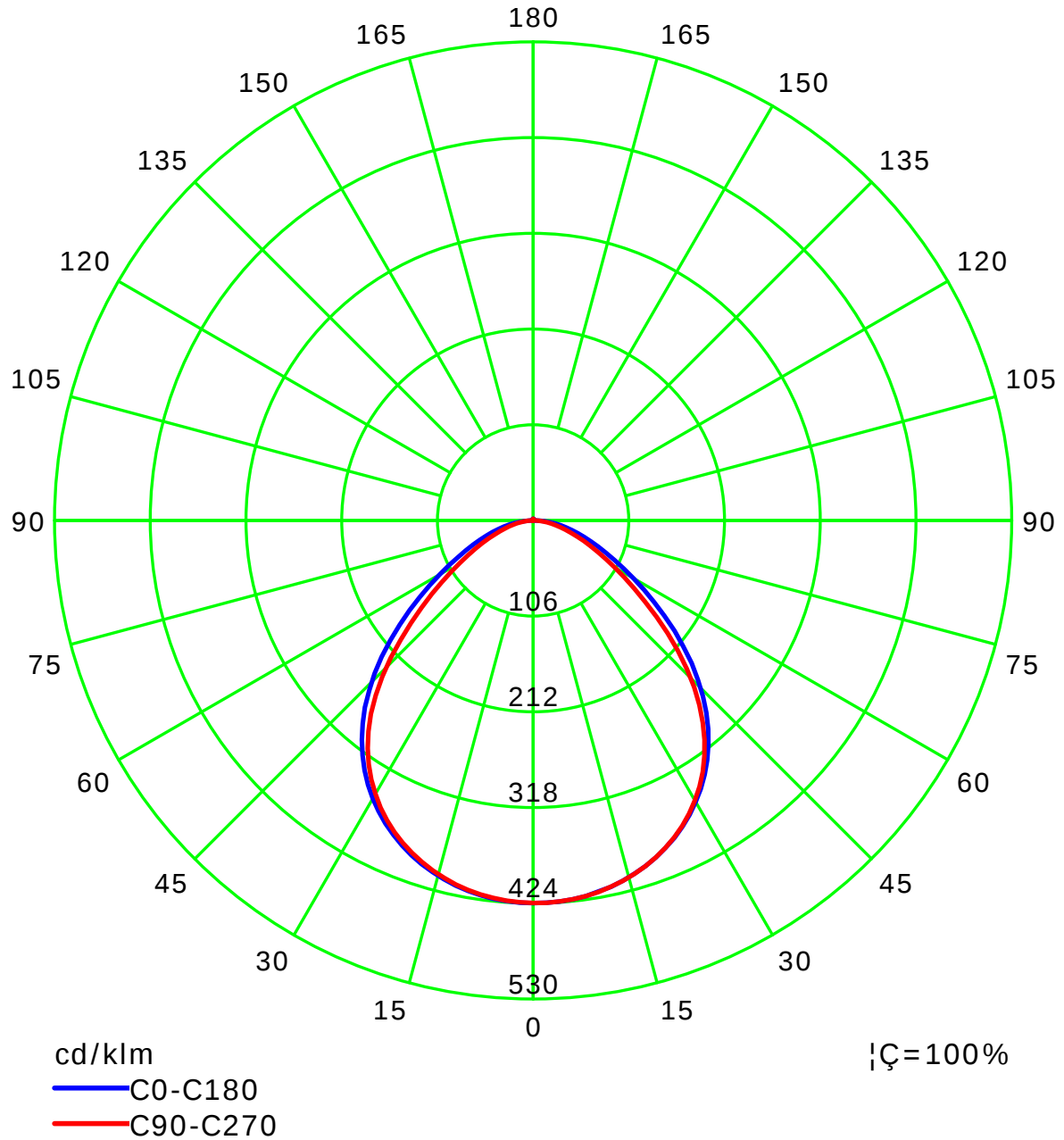
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

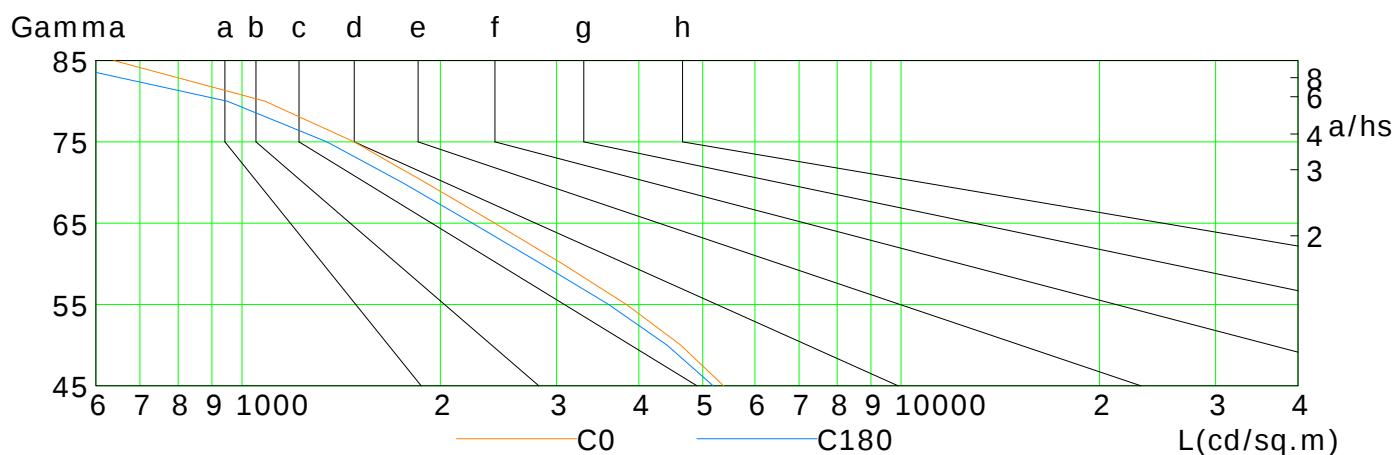
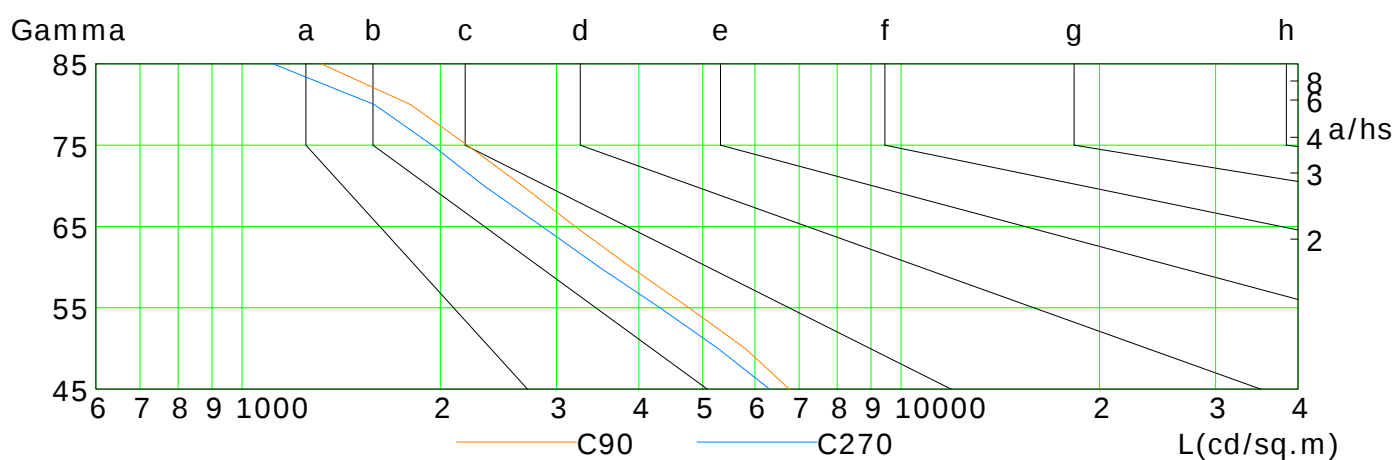
Luminous Intensity Distribution Curve(cd / klm)



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	5376	4632	3829	3064	2418	1897	1479	1084	639
C90	6768	5800	4764	3887	3202	2664	2196	1801	1319
C180	5185	4413	3598	2844	2236	1750	1345	950	498
C270	6312	5272	4307	3483	2851	2329	1943	1587	1114

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

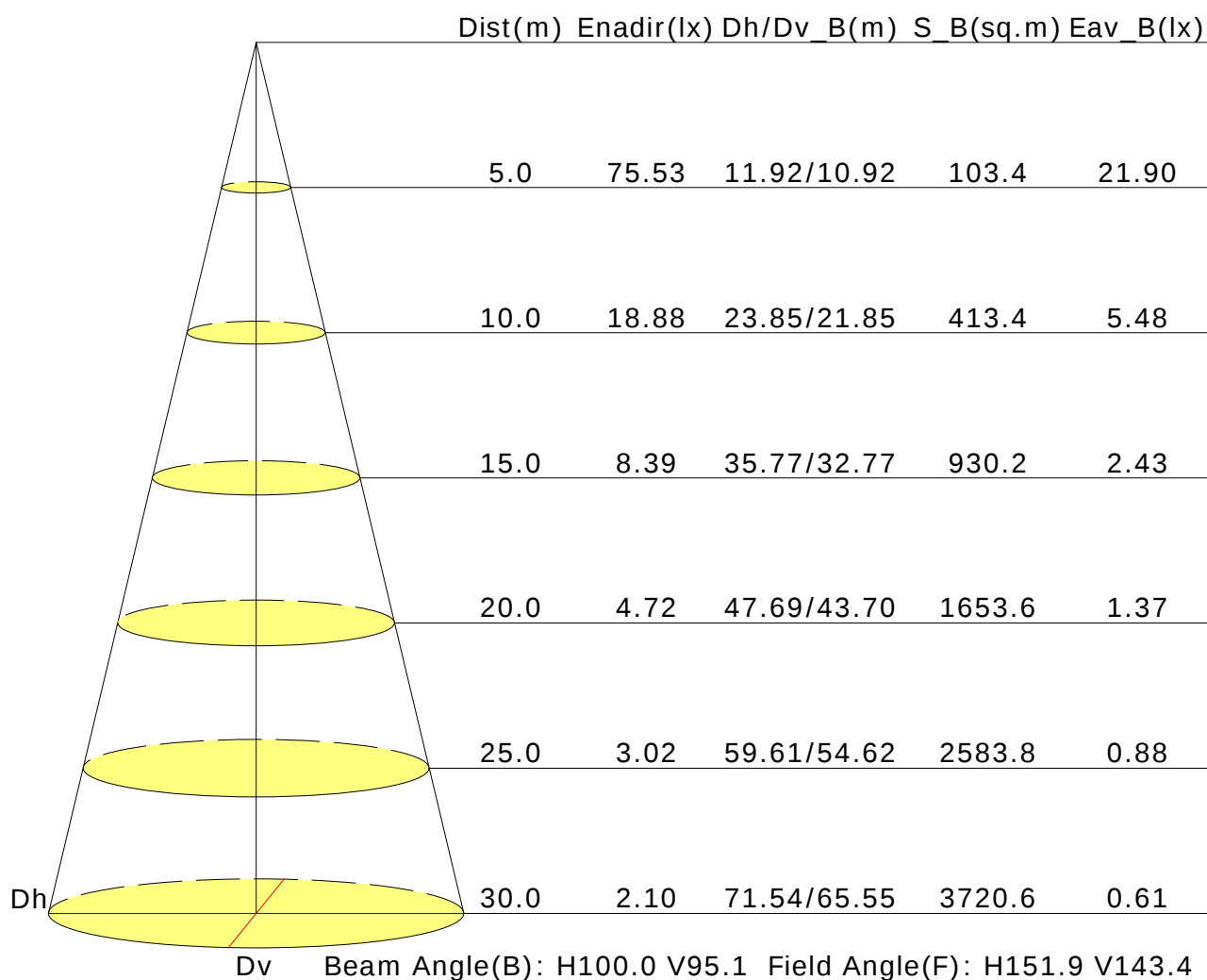
Test Device: LSG-1800B

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	17.1	18.4	17.4	18.6	18.8	17.0	18.2	17.3	18.5	18.7
3H	17.8	19.0	18.1	19.2	19.5	17.6	18.8	18.0	19.0	19.3
4H	18.1	19.1	18.4	19.4	19.7	17.9	18.9	18.2	19.2	19.5
6H	18.2	19.2	18.6	19.5	19.9	18.0	19.0	18.4	19.3	19.7
8H	18.3	19.2	18.6	19.6	19.9	18.1	19.0	18.4	19.3	19.7
12H	18.3	19.2	18.7	19.5	19.9	18.1	19.0	18.5	19.3	19.7
X=4H Y=2H	17.4	18.4	17.7	18.7	19.0	17.3	18.3	17.6	18.6	18.9
3H	18.2	19.2	18.6	19.5	19.8	18.1	19.0	18.4	19.3	19.7
4H	18.6	19.4	19.0	19.8	20.2	18.4	19.2	18.8	19.6	19.9
6H	18.8	19.6	19.3	20.0	20.4	18.6	19.3	19.0	19.7	20.1
8H	18.9	19.6	19.4	20.0	20.4	18.7	19.3	19.1	19.7	20.2
12H	19.0	19.6	19.4	20.0	20.4	18.7	19.3	19.2	19.7	20.2
X=8H Y=4H	18.7	19.3	19.1	19.7	20.2	18.4	19.1	18.9	19.5	20.0
6H	19.0	19.5	19.5	20.0	20.4	18.7	19.3	19.2	19.7	20.2
8H	19.1	19.6	19.6	20.0	20.5	18.9	19.3	19.3	19.8	20.3
12H	19.2	19.6	19.7	20.1	20.6	18.9	19.4	19.4	19.8	20.3
X=12H Y=4H	18.6	19.2	19.1	19.7	20.1	18.4	19.0	18.9	19.5	19.9
6H	19.0	19.5	19.5	19.9	20.4	18.8	19.2	19.2	19.7	20.2
8H	19.1	19.5	19.6	20.0	20.5	18.9	19.3	19.4	19.8	20.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.6				
S=1.5H	+0.6/-1.2					+0.7/-1.3				
S=2.0H	+1.4/-1.9					+1.7/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 4453lm ($8\log(F/F_0) = 5.2$).

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 = 1.25									
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	0.63	0.73	0.80	0.85	0.91	0.96	0.99	1.03	1.05	
	0.30		0.56	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.20		0.50	0.61	0.68	0.74	0.81	0.87	0.91	0.96	0.99	
0.50	0.50	0.20	0.61	0.71	0.77	0.82	0.88	0.92	0.95	0.99	1.01	
	0.30		0.55	0.65	0.72	0.77	0.84	0.88	0.91	0.96	0.98	
	0.20		0.50	0.60	0.67	0.72	0.80	0.85	0.88	0.93	0.96	
0.30	0.50	0.20	0.60	0.69	0.75	0.79	0.85	0.89	0.92	0.95	0.97	
	0.30		0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.86	0.90	0.93	
0.00	0.00	0.00	0.48	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.88	
Rating:38W 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	0.91	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.87	0.70	0.59	0.51	0.40	0.37	0.28	0.22	0.18	
	0.30		0.74	0.61	0.52	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		0.64	0.54	0.47	0.41	0.34	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.84	0.67	0.57	0.49	0.38	0.32	0.27	0.21	0.17	
	0.30		0.72	0.59	0.51	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.63	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.52	0.43	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
Rating:38W 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	0.22	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	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.21	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	0.14	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	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	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:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												