

Report No.:

Test Time: 16.06.2020 18:36

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 50 20W 5000K прозрачный IP65 Ex

Luminous Length (mm): 940

Luminous Width (mm): 60

Luminous Height (mm): 80

Voltage: 221.0 V

Current: 0.104 A

Power: 21.74 W

Power Factor: 0.943

Photometric Results

CIE Class: Direct

Measurement Flux: 1521 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 1521.0 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.5, 115.3, 131.2, 131.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.1, 106.4, 114.4, 114.0

Luminaire Efficacy Rating (LER): 70.01

Central Intensity: 602.21 cd

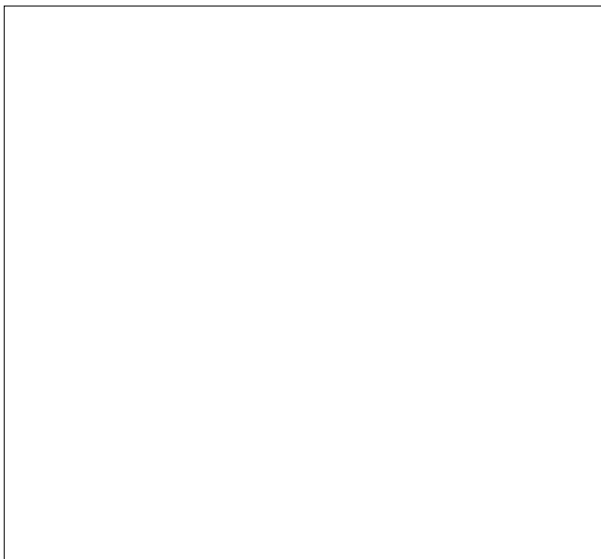
Max. Intensity: 602.22 cd

Pos of Max. Intensity: H0 V0

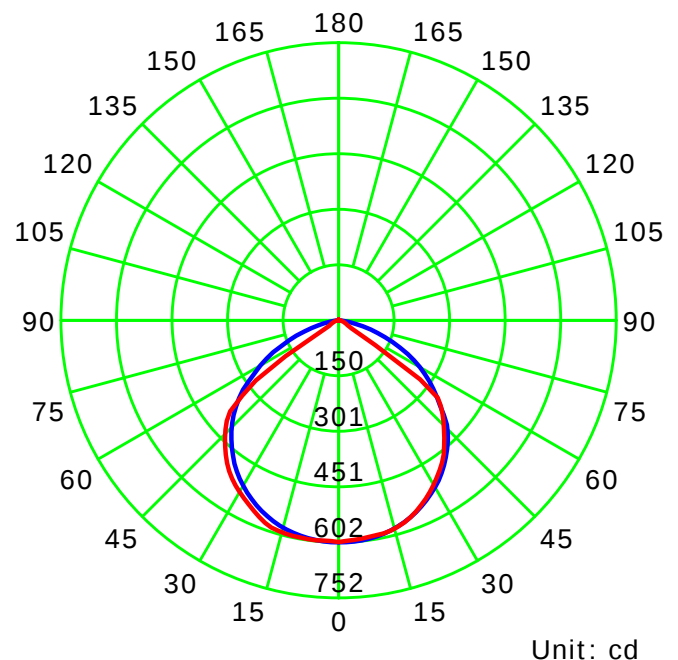
S/MH(C0/C180): 1.28

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

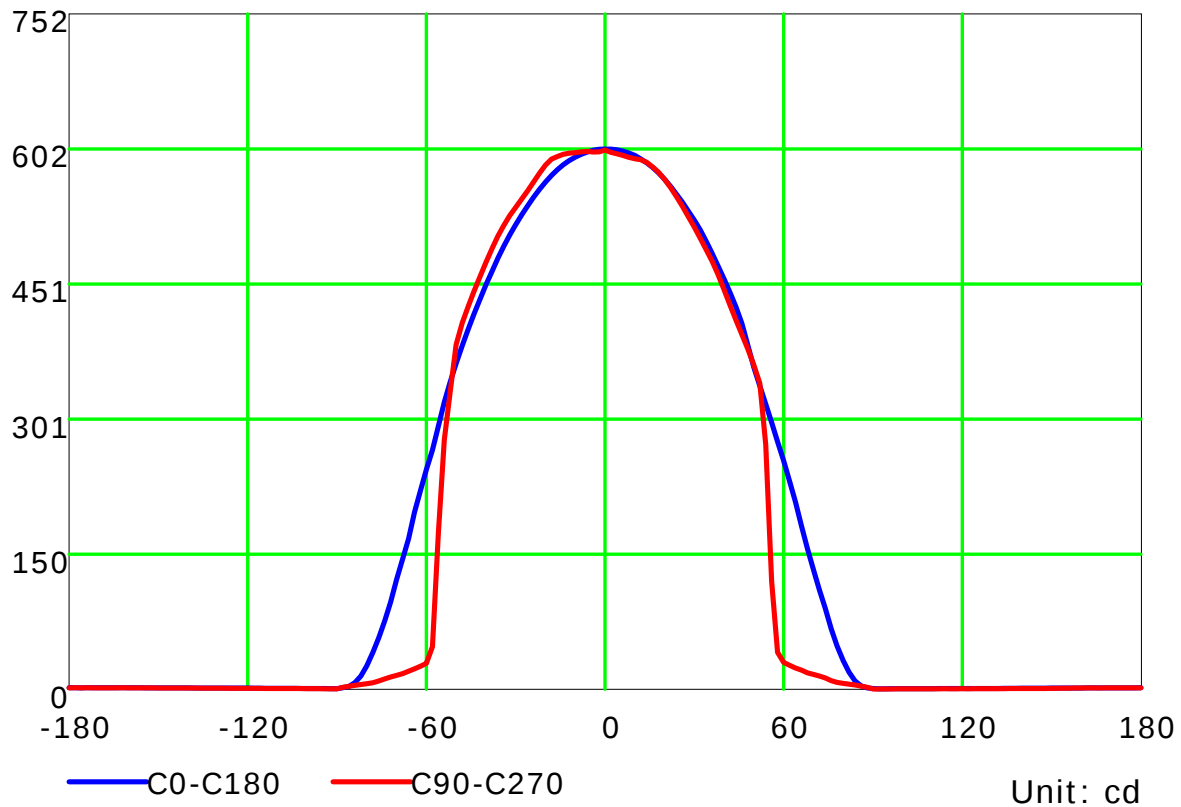
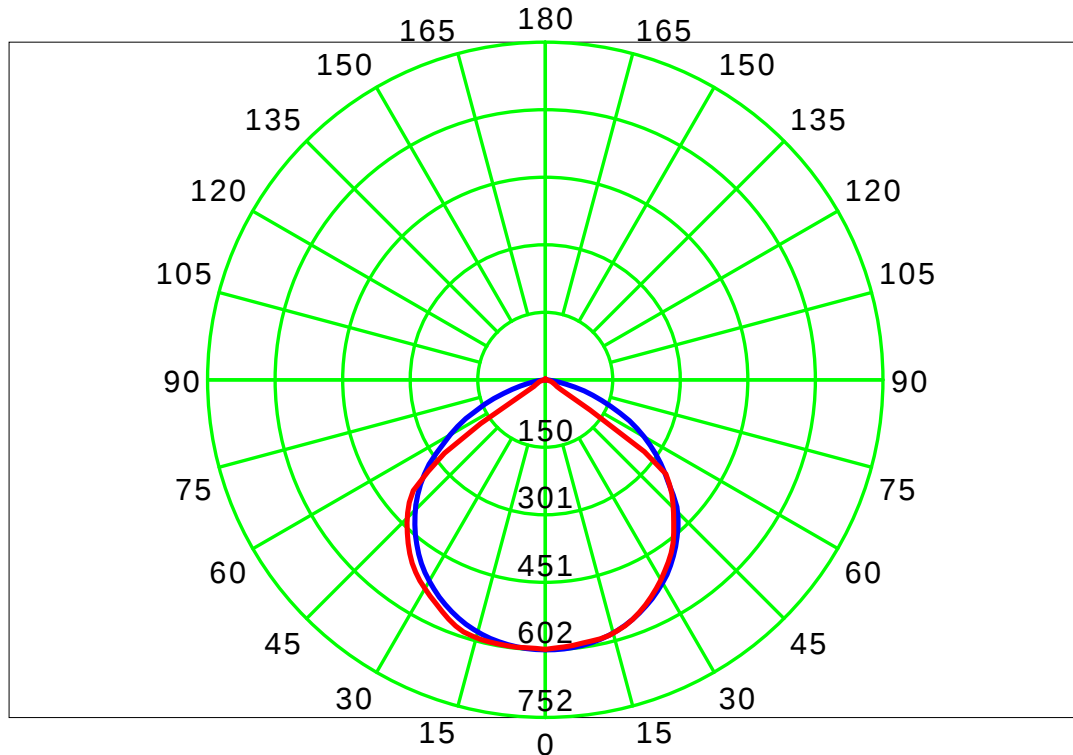
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

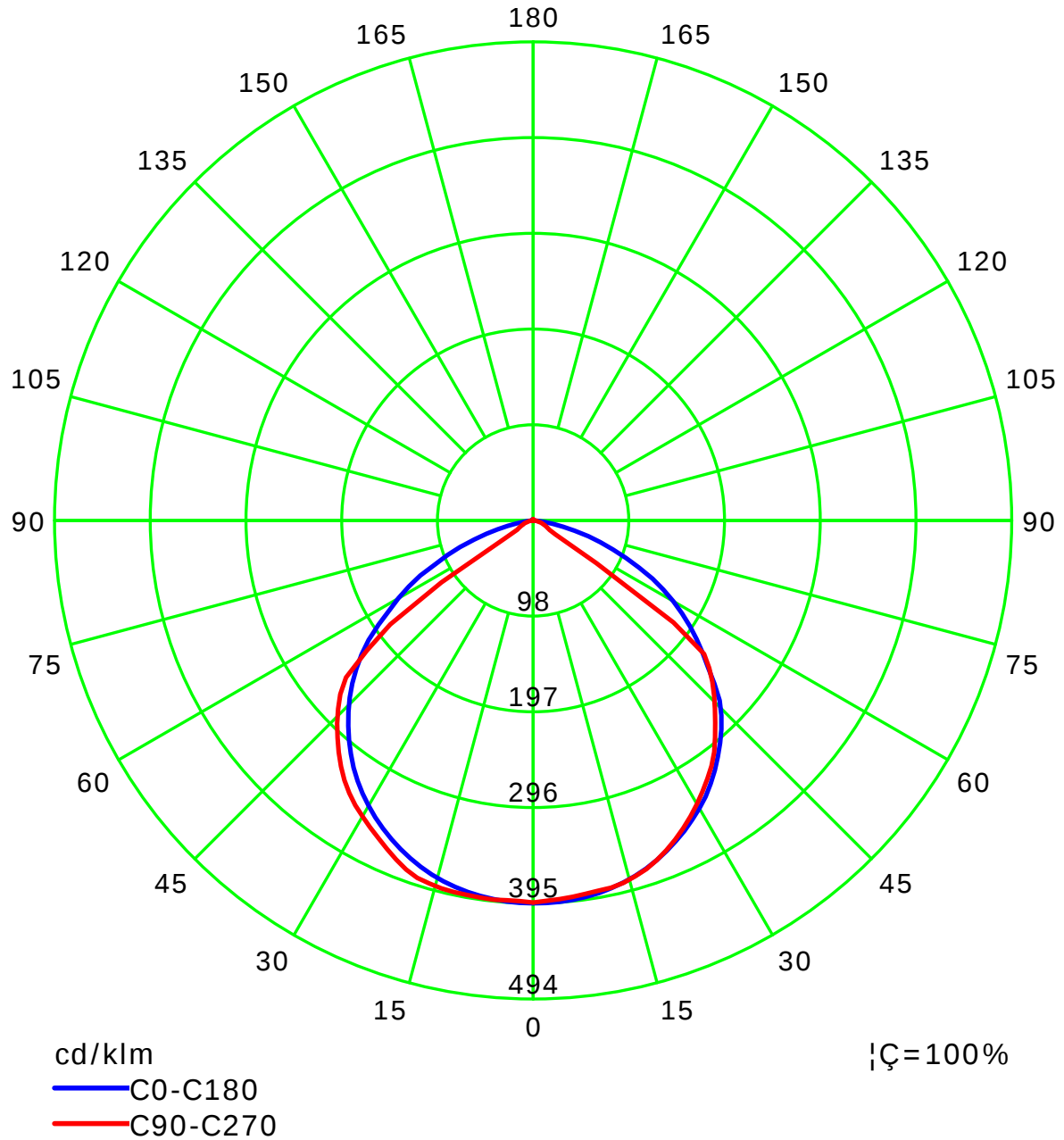
Luminous Intensity Distribution Curve



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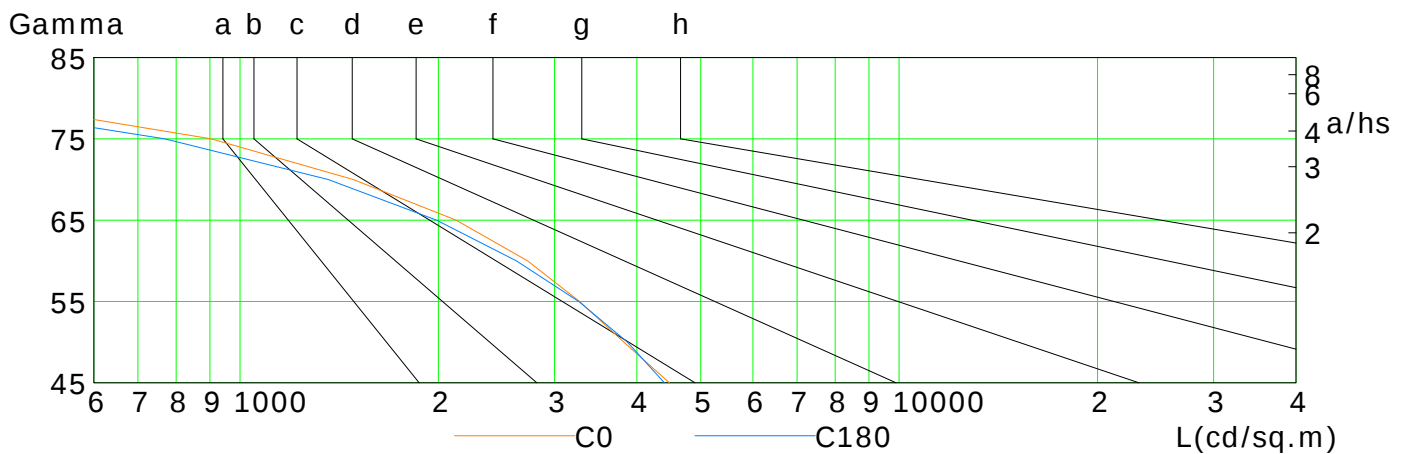
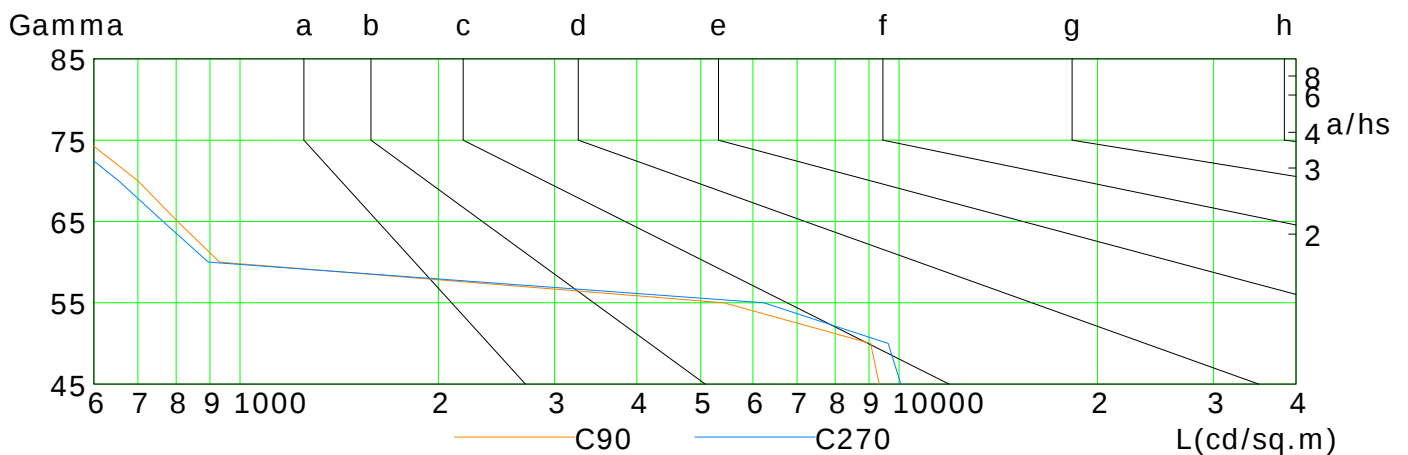
Luminous Intensity Distribution Curve(cd / klm)



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	4482	3823	3275	2729	2127	1485	905	383	83
C90	9326	9051	5421	931	804	700	584	459	440
C180	4405	3871	3265	2626	1987	1361	769	313	68
C270	10057	9625	6232	895	764	655	548	437	415

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

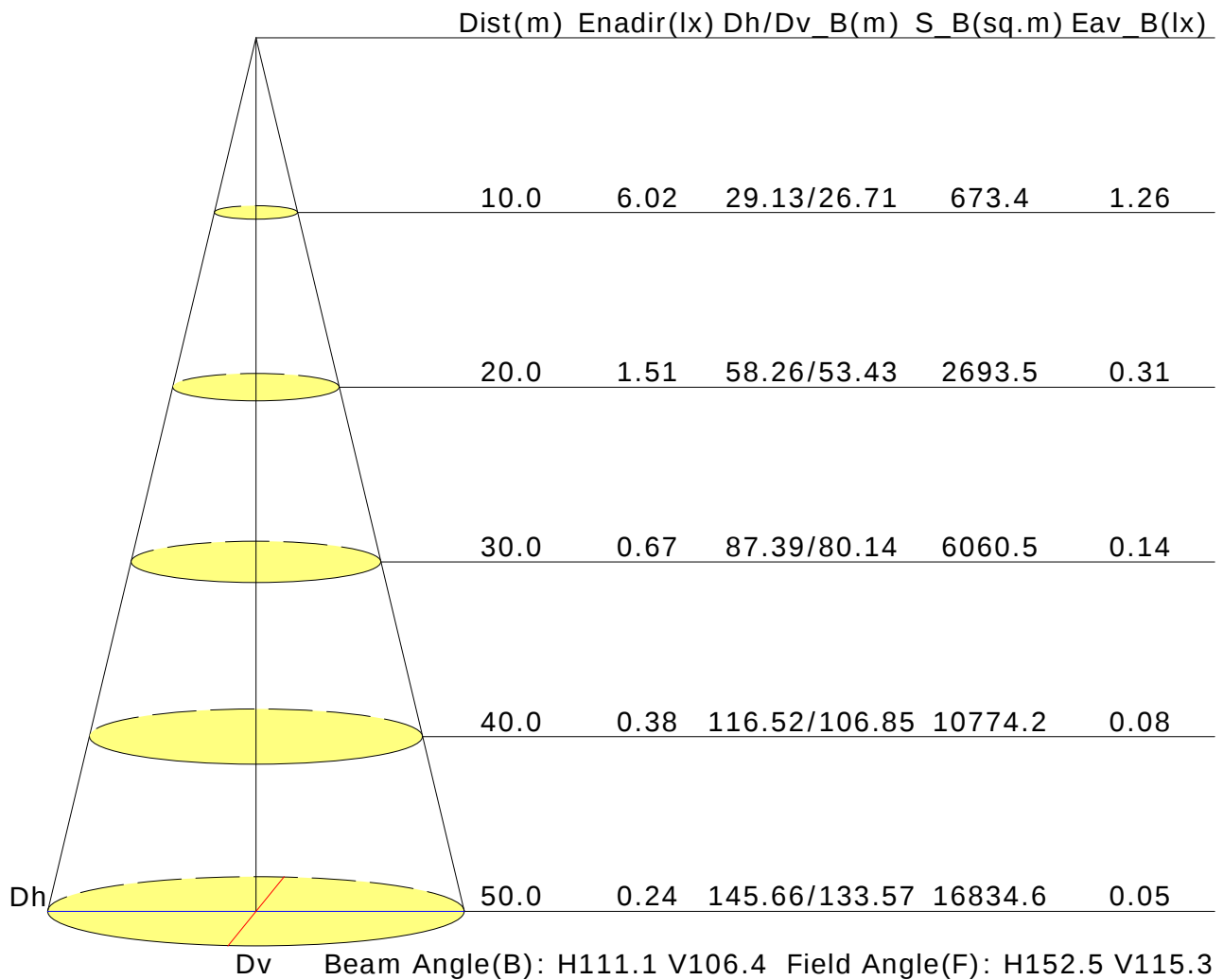
Test Device: LSG-1800B

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	17.4	18.7	17.7	18.9	19.2	17.3	18.5	17.6	18.8	19.0
3H	18.2	19.3	18.5	19.6	19.9	17.1	18.3	17.5	18.5	18.8
4H	18.3	19.4	18.7	19.7	20.0	17.1	18.1	17.4	18.4	18.7
6H	18.3	19.3	18.7	19.6	19.9	17.0	18.0	17.4	18.3	18.6
8H	18.3	19.2	18.7	19.6	19.9	17.0	17.9	17.3	18.2	18.6
12H	18.3	19.2	18.6	19.5	19.8	16.9	17.8	17.3	18.2	18.5
X=4H Y=2H	17.6	18.7	18.0	19.0	19.3	17.5	18.5	17.8	18.8	19.1
3H	18.5	19.4	18.9	19.7	20.1	17.3	18.2	17.7	18.6	18.9
4H	18.7	19.5	19.1	19.8	20.2	17.3	18.1	17.7	18.5	18.8
6H	18.7	19.4	19.1	19.8	20.2	17.2	17.9	17.7	18.3	18.7
8H	18.6	19.3	19.1	19.7	20.1	17.2	17.8	17.6	18.3	18.7
12H	18.6	19.2	19.1	19.6	20.1	17.2	17.8	17.6	18.2	18.6
X=8H Y=4H	18.6	19.2	19.0	19.6	20.1	17.2	17.9	17.7	18.3	18.7
6H	18.6	19.1	19.1	19.5	20.0	17.2	17.7	17.7	18.1	18.6
8H	18.6	19.0	19.0	19.5	20.0	17.2	17.6	17.6	18.1	18.6
12H	18.5	18.9	19.0	19.4	19.9	17.1	17.5	17.6	18.0	18.5
X=12H Y=4H	18.5	19.1	19.0	19.5	20.0	17.2	17.8	17.7	18.2	18.7
6H	18.6	19.0	19.0	19.5	20.0	17.2	17.6	17.6	18.1	18.6
8H	18.5	18.9	19.0	19.4	19.9	17.1	17.5	17.6	18.0	18.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+1.2/-1.7				
S=1.5H	+0.8/-1.7					+2.9/-10.1				
S=2.0H	+1.2/-2.5					+4.5/-12.0				

Calculate in accordance with CIE Pub.117. The table is revised with 1521lm ($8\log(F/F_0) = 1.5$).

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	0.62	0.73	0.80	0.86	0.92	0.97	1.00	1.04	1.06	
	0.30		0.54	0.66	0.74	0.79	0.87	0.92	0.96	1.00	1.03	
	0.20		0.49	0.61	0.69	0.75	0.83	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.60	0.71	0.78	0.83	0.89	0.93	0.96	1.00	1.02	
	0.30		0.54	0.65	0.72	0.78	0.85	0.90	0.93	0.97	1.00	
	0.20		0.49	0.60	0.68	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.59	0.69	0.76	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.53	0.64	0.71	0.76	0.83	0.87	0.90	0.94	0.96	
	0.20		0.48	0.60	0.67	0.72	0.79	0.84	0.88	0.92	0.95	
0.00	0.00	0.00	0.46	0.57	0.64	0.69	0.76	0.80	0.83	0.87	0.90	
Rating:22W 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	0.93	0.74	0.62	0.53	0.41	0.34	0.29	0.22	0.18	
	0.30		0.77	0.63	0.54	0.47	0.38	0.31	0.27	0.21	0.17	
	0.20		0.66	0.55	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.89	0.71	0.59	0.50	0.39	0.36	0.27	0.21	0.17	
	0.30		0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.20	0.16	
	0.20		0.66	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.30	0.50	0.20	0.87	0.68	0.56	0.48	0.37	0.30	0.26	0.20	0.16	
	0.30		0.74	0.60	0.50	0.44	0.35	0.29	0.24	0.19	0.15	
	0.20		0.65	0.53	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.54	0.43	0.36	0.31	0.24	0.20	0.17	0.13	0.10	
Rating:22W 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	0.17	0.18
0.50	0.50	0.20	0.16	0.17	0.18	0.18	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	0.09	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	0.17	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:22W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											