

Report No.: 1

Test Time: 04.12.2019 20:59

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 40LED 0.35A 44W 5000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.208 A

Power: 45.48 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 6164 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 6164.0 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.9, 161.7, 153.6, 152.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 80.7, 84.5, 78.6, 78.0

Luminaire Efficacy Rating (LER): 135.58

Central Intensity: 2999.66 cd

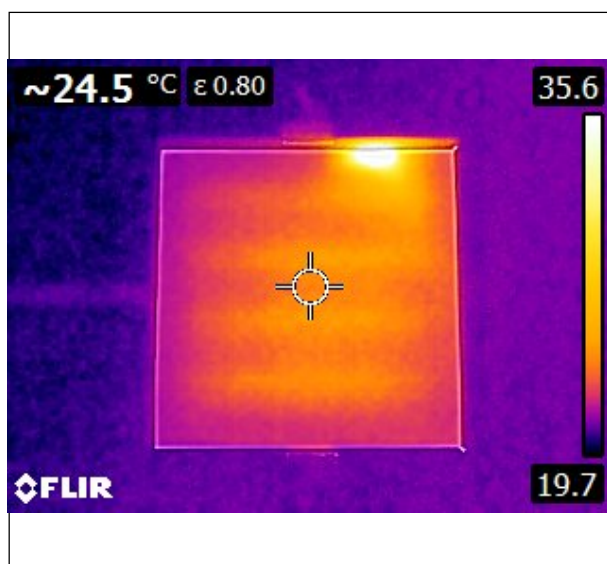
Max. Intensity: 3008.09 cd

Pos of Max. Intensity: H112.5 V0

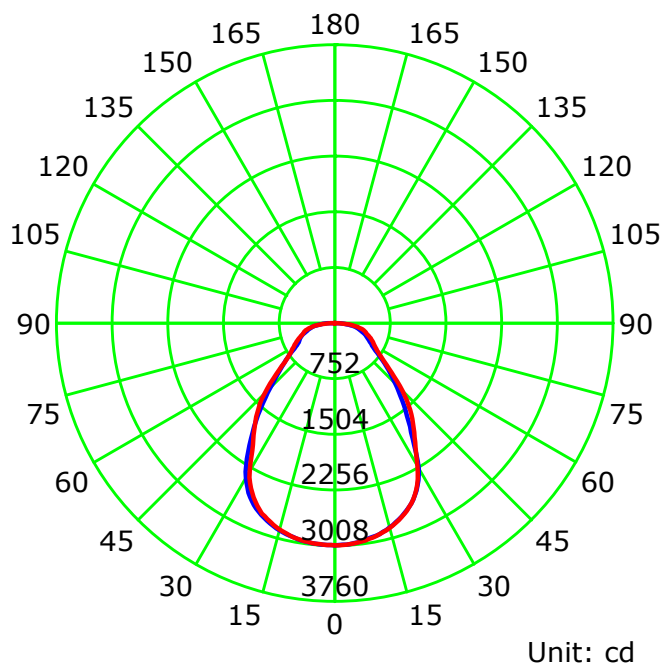
S/MH(C0/C180): 1.16

S/MH(C90/C270): 1.14

Termogramma



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 (°):0.0-180.0:1.0

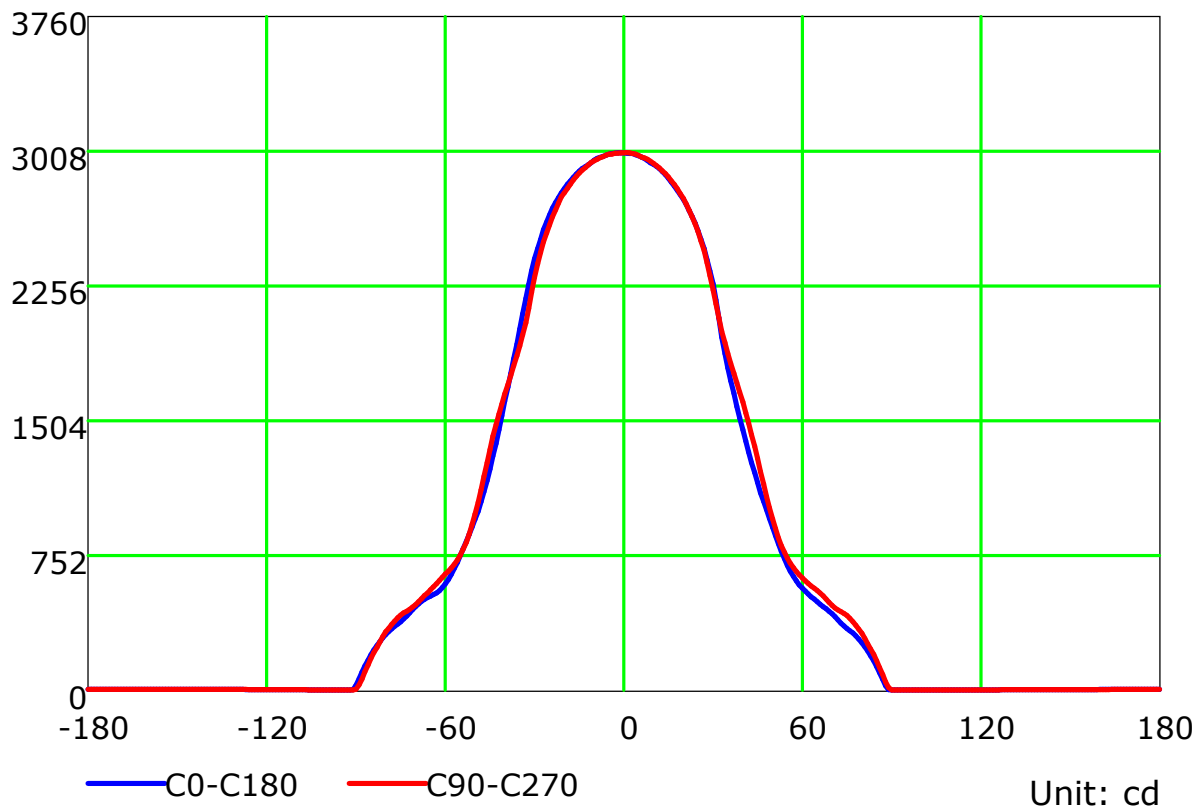
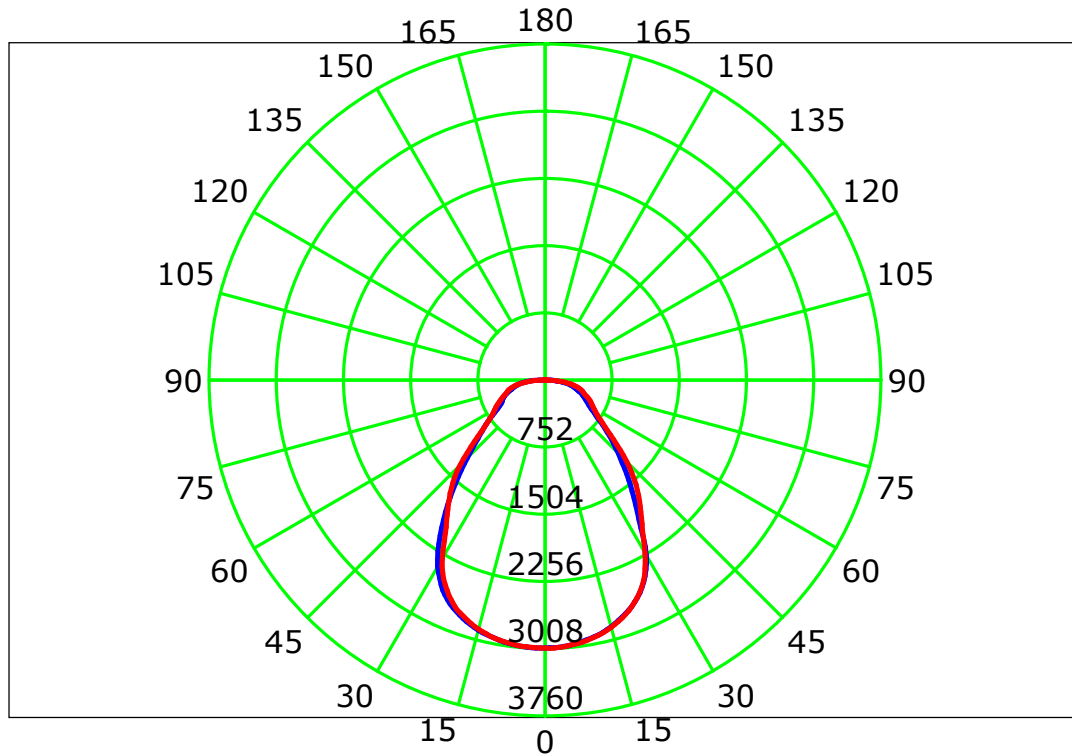
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

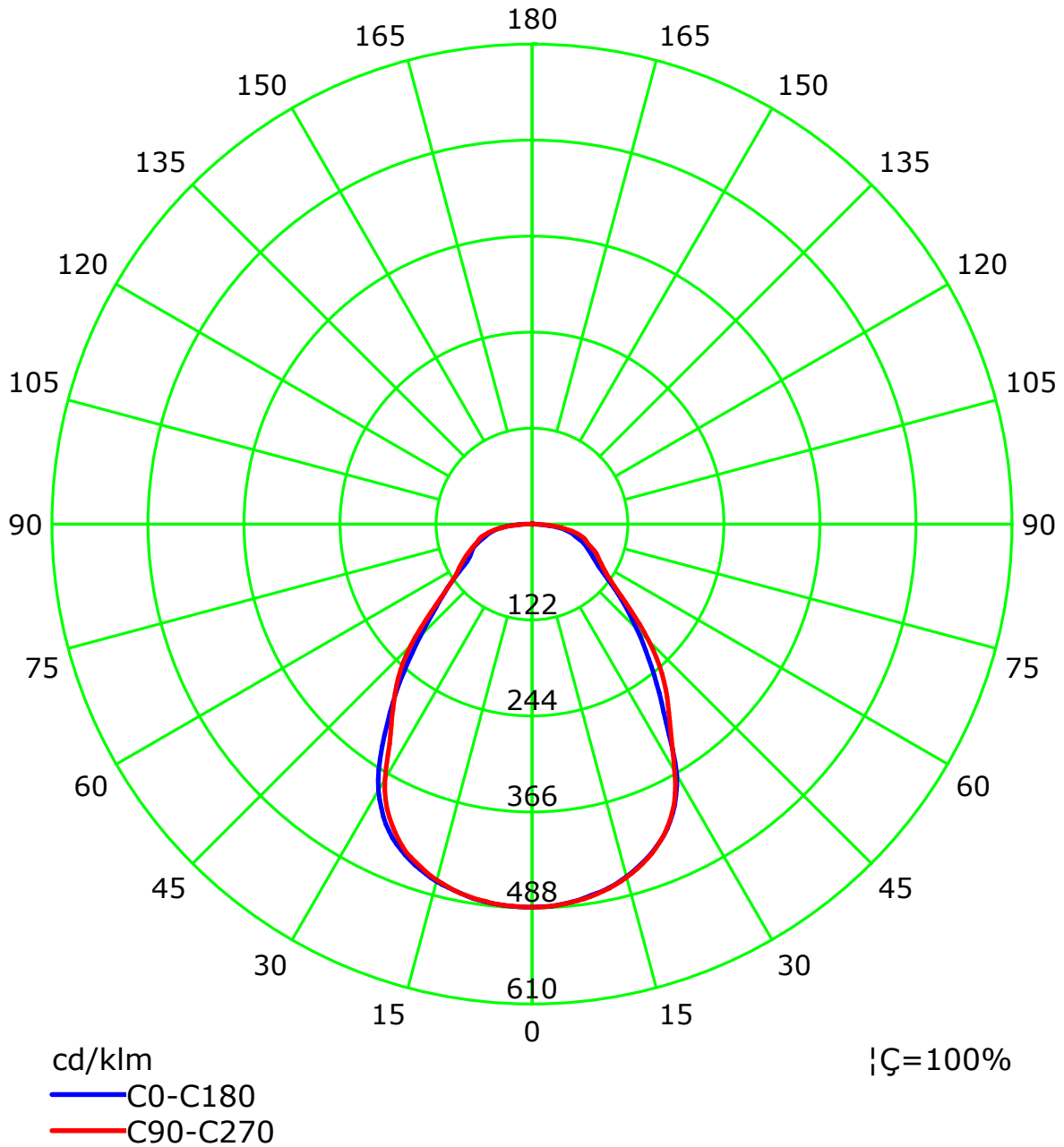
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

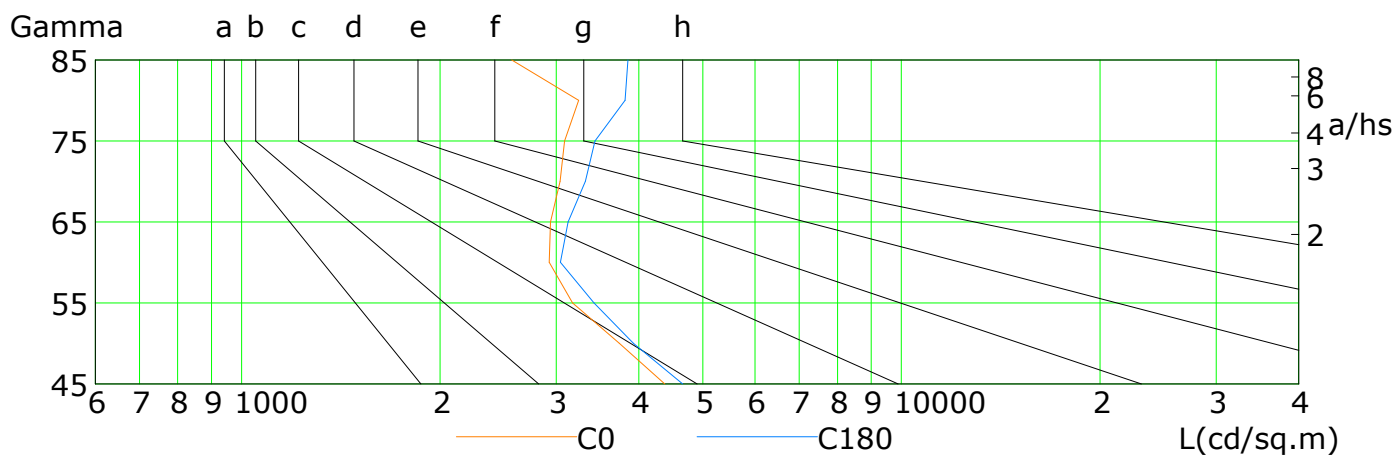
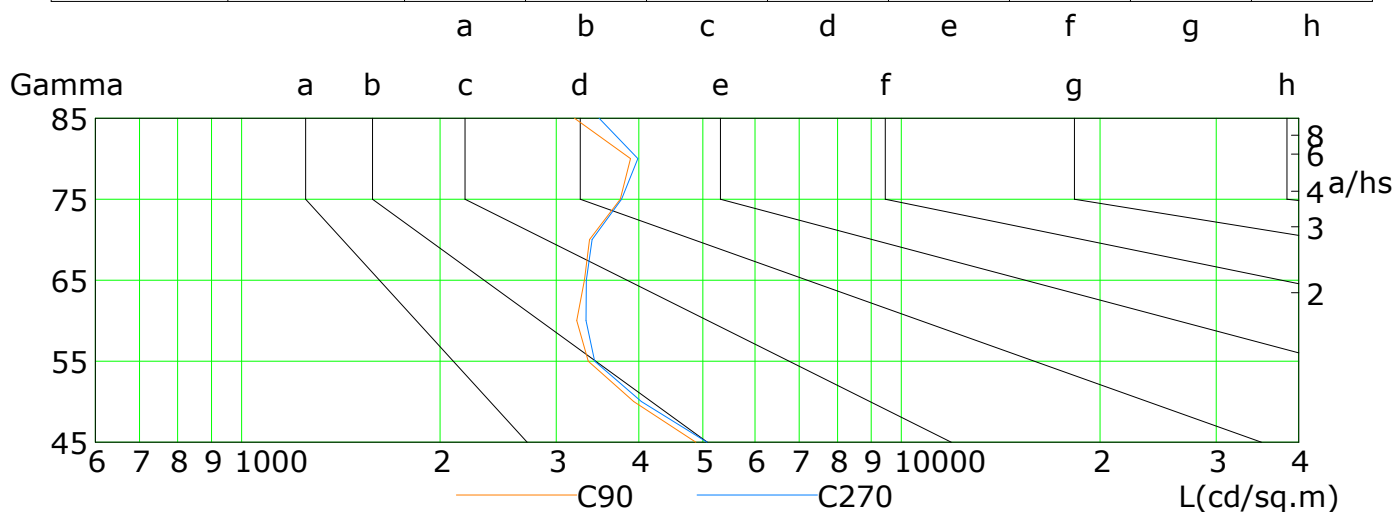


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
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

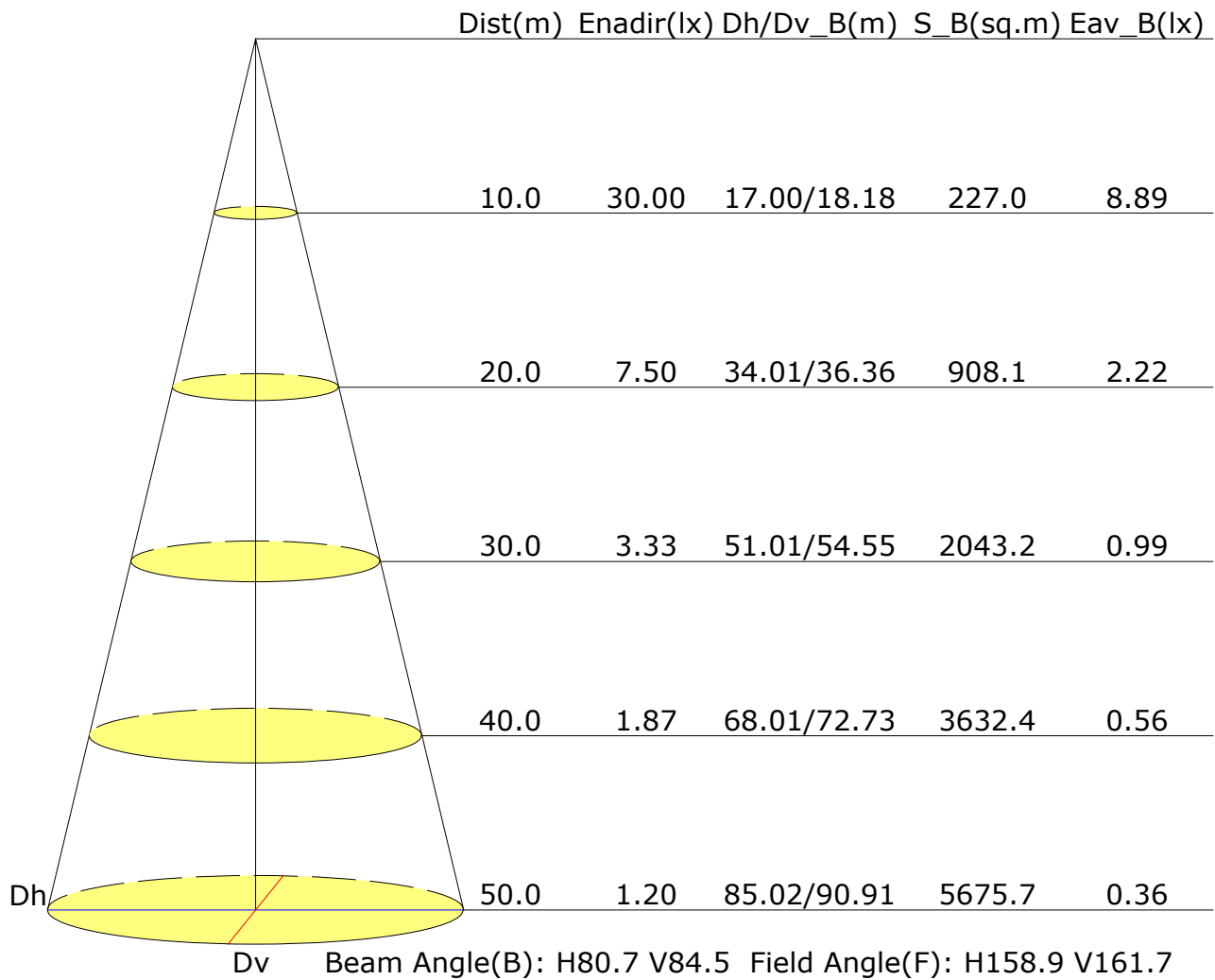


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4377	3737	3173	2925	2938	3040	3088	3241	2568
C90	4881	3929	3354	3220	3309	3369	3747	3885	3196
C180	4661	3923	3423	3043	3125	3320	3434	3811	3850
C270	5073	4036	3429	3326	3331	3400	3767	3988	3484

C Plane (°):0.0-360.0: 22.5
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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	15.6	16.9	15.9	17.1	17.4	16.0	17.3	16.3	17.5	17.8
3H	17.1	18.3	17.4	18.5	18.8	17.6	18.8	17.9	19.0	19.3
4H	17.9	19.0	18.2	19.3	19.6	18.5	19.6	18.9	19.9	20.2
6H	18.6	19.7	19.0	20.0	20.3	19.4	20.4	19.8	20.8	21.1
8H	18.9	19.9	19.3	20.2	20.6	19.8	20.8	20.2	21.1	21.4
12H	19.1	20.1	19.5	20.4	20.8	20.0	21.0	20.4	21.3	21.7
X=4H Y=2H	16.1	17.2	16.5	17.5	17.8	16.5	17.6	16.8	17.8	18.1
3H	17.9	18.8	18.3	19.2	19.5	18.3	19.3	18.7	19.6	19.9
4H	18.8	19.6	19.2	20.0	20.4	19.4	20.2	19.8	20.6	21.0
6H	19.7	20.5	20.1	20.9	21.3	20.5	21.2	20.9	21.6	22.0
8H	20.1	20.8	20.5	21.2	21.6	20.9	21.6	21.4	22.0	22.5
12H	20.3	21.0	20.8	21.4	21.8	21.2	21.9	21.7	22.3	22.7
X=8H Y=4H	19.2	19.8	19.6	20.3	20.7	19.7	20.4	20.1	20.8	21.2
6H	20.2	20.8	20.7	21.2	21.7	20.9	21.5	21.4	21.9	22.4
8H	20.7	21.2	21.2	21.6	22.1	21.5	22.0	22.0	22.4	22.9
12H	21.0	21.4	21.5	21.9	22.4	21.9	22.3	22.4	22.8	23.3
X=12H Y=4H	19.2	19.8	19.7	20.3	20.7	19.7	20.3	20.2	20.8	21.2
6H	20.3	20.8	20.8	21.3	21.8	21.0	21.5	21.5	22.0	22.5
8H	20.8	21.3	21.3	21.7	22.2	21.6	22.0	22.1	22.5	23.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.6					+0.4/-0.6				
S=2.0H	+0.6/-0.9					+0.6/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 6164lm ($8\log(F/F_0) = 6.3$).

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 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	0.62	0.72	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.30		0.55	0.64	0.71	0.76	0.84	0.89	0.92	0.97	1.01	
	0.20		0.50	0.59	0.66	0.71	0.79	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.93	0.97	1.00	
	0.30		0.54	0.63	0.70	0.74	0.81	0.86	0.89	0.94	0.97	
	0.20		0.49	0.58	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.59	0.68	0.73	0.78	0.83	0.87	0.90	0.94	0.96	
	0.30		0.53	0.62	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.49	0.58	0.64	0.69	0.76	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.55	0.61	0.66	0.72	0.77	0.80	0.84	0.87	
Rating:45W 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	0.92	0.76	0.65	0.57	0.45	0.38	0.33	0.25	0.21	
	0.30		0.76	0.65	0.57	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.66	0.57	0.50	0.45	0.38	0.32	0.28	0.23	0.19	
0.50	0.50	0.20	0.88	0.73	0.62	0.54	0.43	0.40	0.31	0.24	0.20	
	0.30		0.75	0.63	0.55	0.49	0.40	0.33	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.86	0.70	0.59	0.52	0.41	0.34	0.29	0.23	0.19	
	0.30		0.73	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.35	0.30	0.26	0.21	0.18	
0.00	0.00	0.00	0.53	0.45	0.39	0.34	0.28	0.23	0.20	0.16	0.13	
Rating:45W 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	0.16	0.17	0.18	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	0.14	0.16	0.17	
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	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	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	0.08	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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												