

Report No.: 1

Test Time: 30.10.2019 18:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x24LED 0,3A 32W 3000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.157 A

Power: 34.09 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 3727.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3727.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.4, 159.6, 152.3, 152.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.5, 79.9, 77.8, 77.6

Luminaire Efficacy Rating (LER): 109.39

Central Intensity: 1828.59 cd

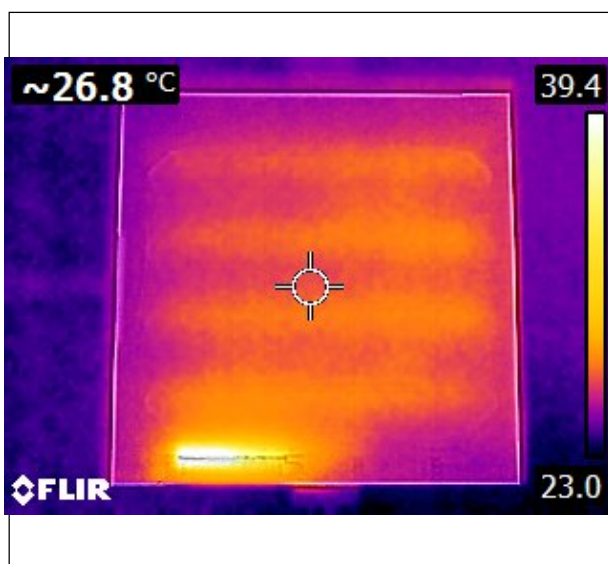
Max. Intensity: 1830.06 cd

Pos of Max. Intensity: H112.5 V2

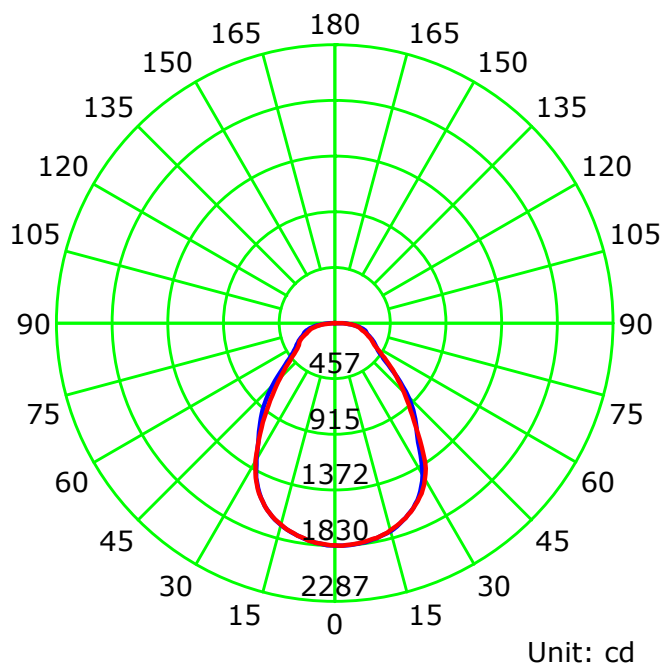
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.15

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

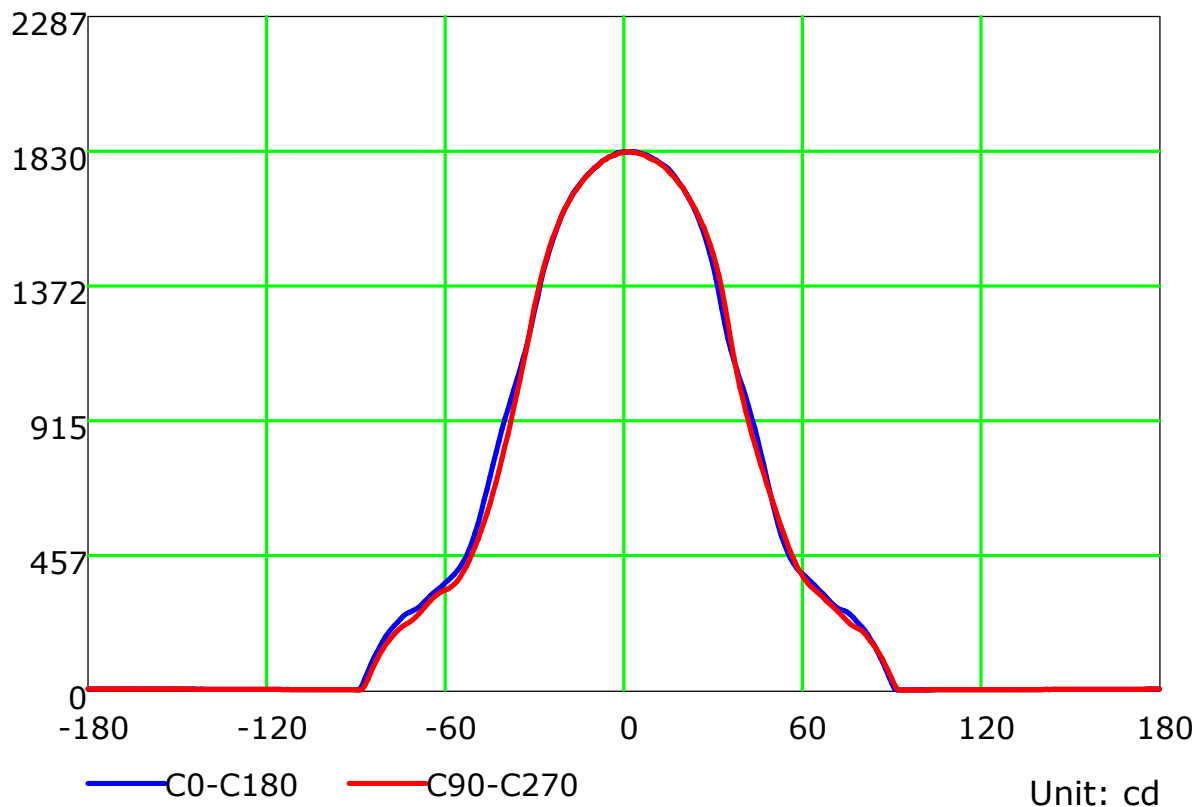
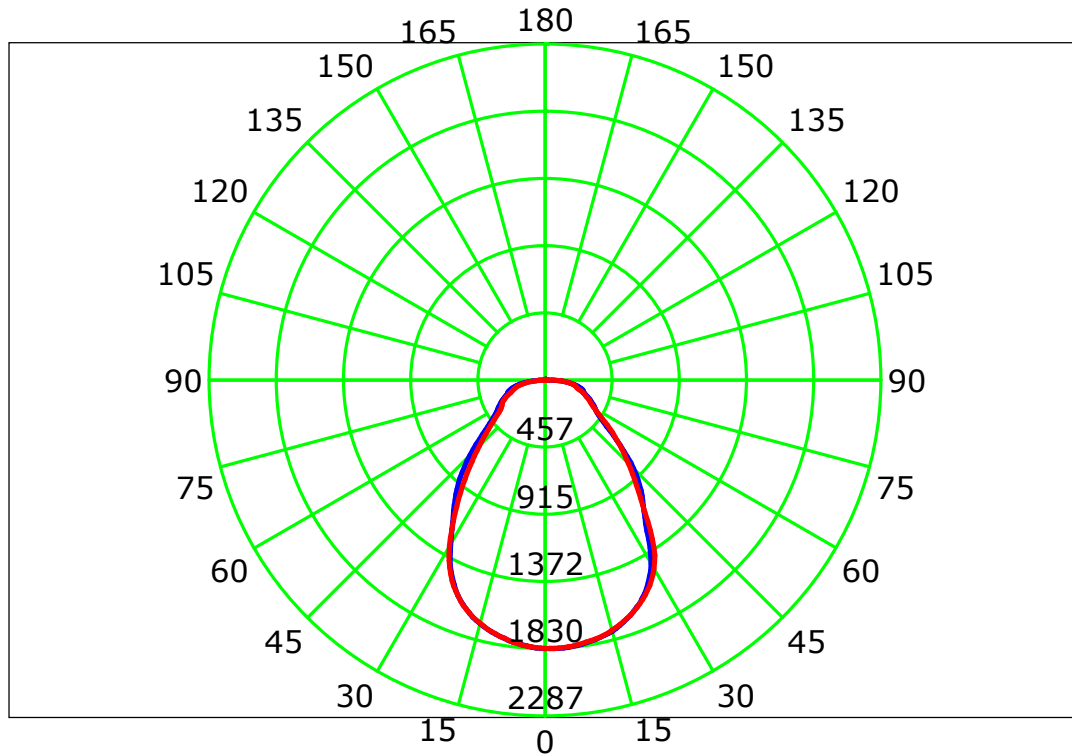
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

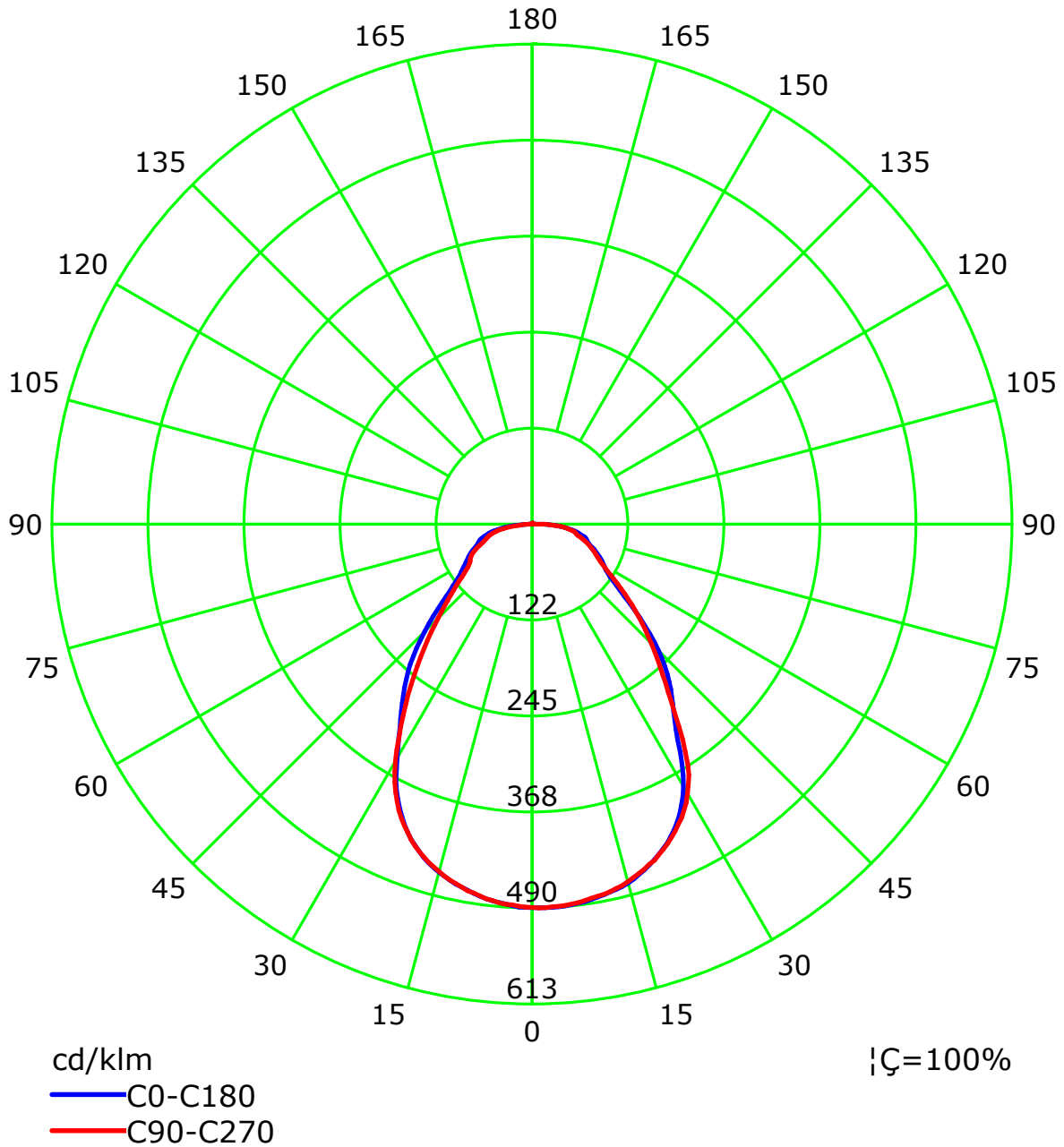
Luminous Intensity Distribution Curve



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)

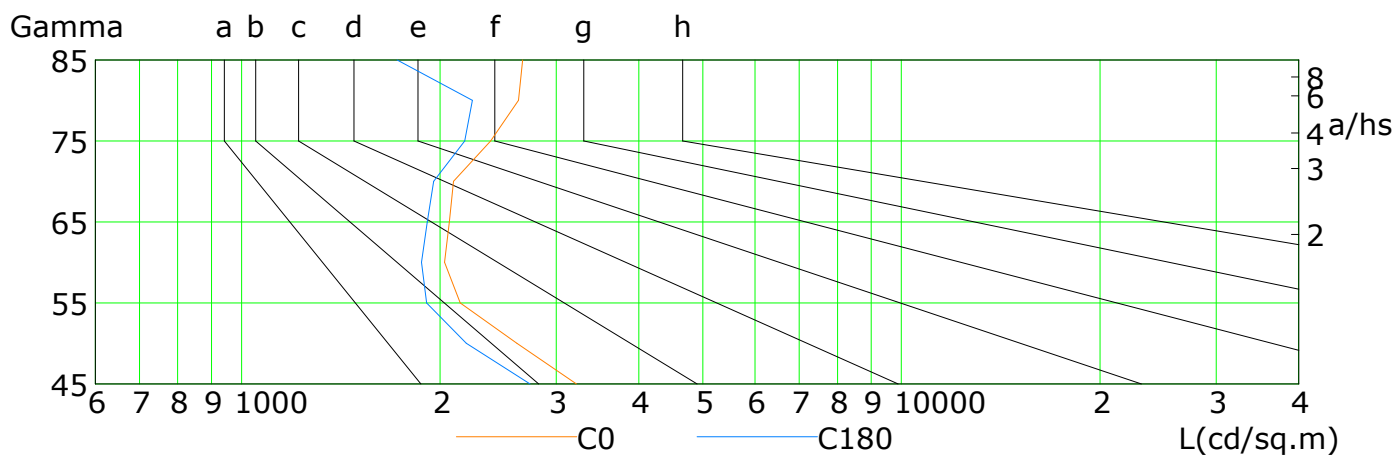
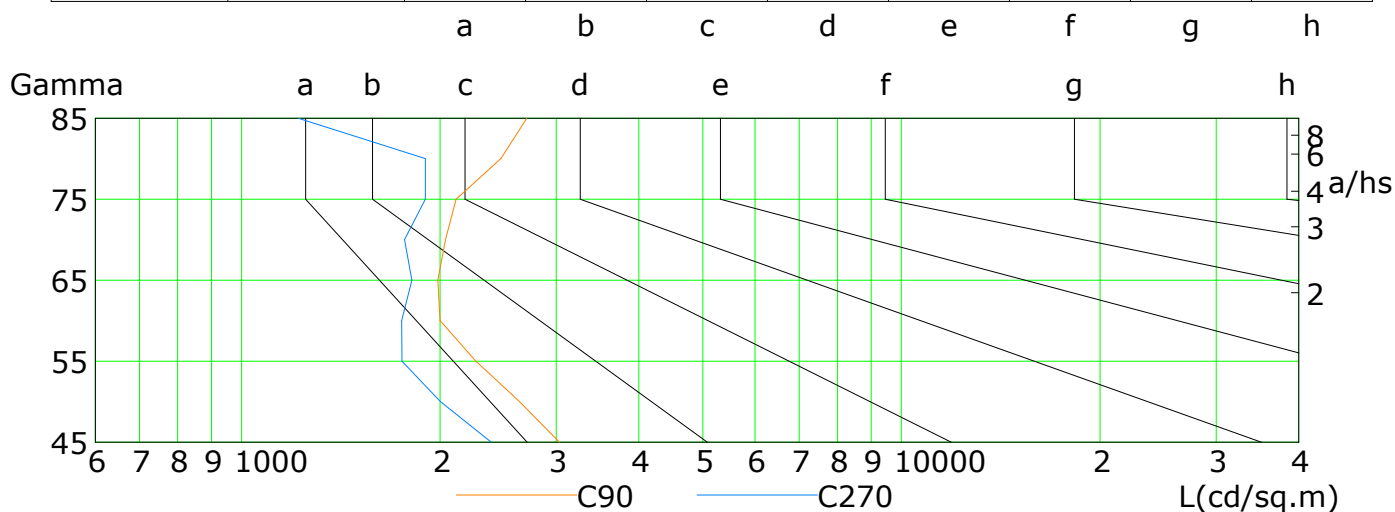


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

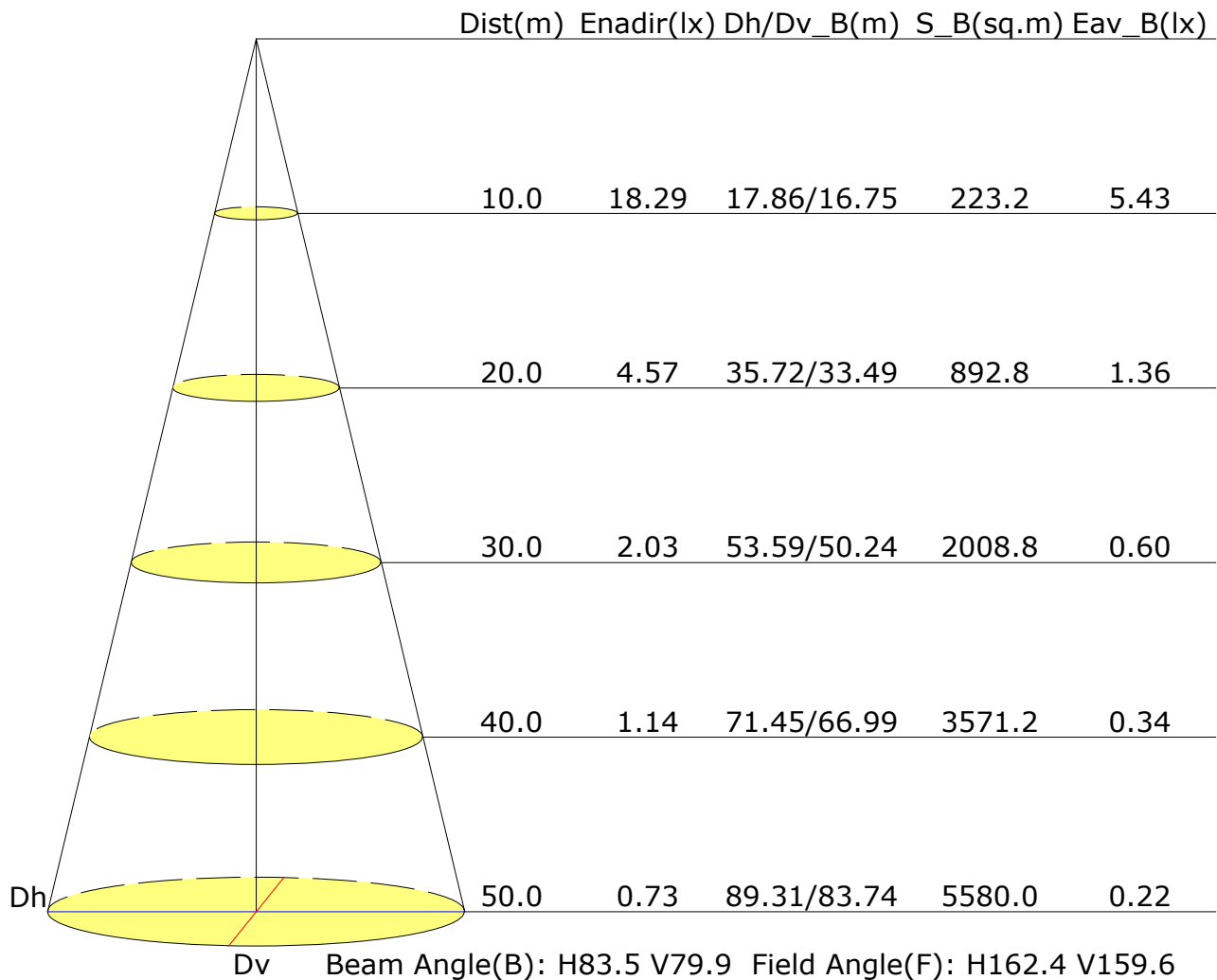


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3218	2615	2144	2030	2064	2095	2385	2628	2667
C90	3032	2638	2266	2000	1984	2037	2114	2471	2705
C180	2737	2192	1907	1873	1911	1956	2178	2237	1722
C270	2390	2001	1750	1748	1811	1767	1899	1899	1218

C Plane (°):0.0-360.0: 22.5
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 Temperature:
 Operator:

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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	14.7	16.0	15.0	16.2	16.5	14.3	15.6	14.6	15.8	16.1
3H	16.2	17.4	16.6	17.7	17.9	15.8	17.0	16.1	17.2	17.5
4H	17.1	18.2	17.5	18.5	18.8	16.6	17.7	16.9	18.0	18.3
6H	18.1	19.1	18.4	19.4	19.7	17.4	18.4	17.7	18.7	19.0
8H	18.5	19.5	18.9	19.8	20.1	17.7	18.7	18.1	19.0	19.4
12H	18.9	19.8	19.2	20.1	20.5	18.0	19.0	18.4	19.3	19.7
X=4H Y=2H	15.2	16.2	15.5	16.5	16.8	14.8	15.9	15.2	16.2	16.5
3H	16.9	17.9	17.3	18.2	18.6	16.6	17.5	17.0	17.9	18.2
4H	18.0	18.8	18.4	19.2	19.6	17.5	18.4	17.9	18.7	19.1
6H	19.1	19.9	19.6	20.3	20.7	18.5	19.2	18.9	19.6	20.0
8H	19.7	20.4	20.1	20.8	21.2	18.9	19.6	19.4	20.0	20.5
12H	20.1	20.8	20.6	21.2	21.6	19.3	19.9	19.7	20.3	20.8
X=8H Y=4H	18.3	19.0	18.7	19.4	19.8	17.9	18.6	18.3	19.0	19.4
6H	19.6	20.2	20.1	20.6	21.1	19.0	19.6	19.5	20.0	20.5
8H	20.3	20.8	20.8	21.2	21.7	19.6	20.1	20.1	20.5	21.0
12H	20.9	21.3	21.4	21.8	22.3	20.1	20.5	20.6	21.0	21.5
X=12H Y=4H	18.3	19.0	18.8	19.4	19.8	17.9	18.6	18.4	19.0	19.4
6H	19.7	20.2	20.2	20.7	21.2	19.1	19.6	19.6	20.1	20.6
8H	20.4	20.9	20.9	21.3	21.8	19.7	20.2	20.2	20.6	21.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.7				
S=2.0H	+0.6/-0.9					+0.4/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3727lm ($8\log(F/F_0) = 4.6$).

C Plane (°):0.0-360.0: 22.5
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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	0.71	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	0.97	
0.50	0.50	0.20	0.60	0.69	0.75	0.80	0.86	0.90	0.93	0.97	1.00	
	0.30		0.54	0.63	0.69	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	0.67	0.73	0.77	0.83	0.87	0.90	0.93	0.96	
	0.30		0.53	0.62	0.68	0.73	0.79	0.83	0.87	0.91	0.93	
	0.20		0.49	0.58	0.64	0.69	0.75	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.55	0.61	0.66	0.72	0.76	0.80	0.84	0.86	
Rating:34W 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	0.46	0.38	0.33	0.26	0.21	
	0.30		0.77	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	0.44	0.40	0.31	0.24	0.20	
	0.30		0.75	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.86	0.70	0.60	0.52	0.42	0.35	0.30	0.23	0.19	
	0.30		0.73	0.62	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.36	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:34W 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	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	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	0.13	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	0.12	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		0.10	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	0.11	0.13	0.14	0.15	0.16	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:34W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												