

Report No.: 1

Test Time: 30.10.2019 21:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x24LED 0,35A 37W 3000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.4 V

Current: 0.173 A

Power: 37.23 W

Power Factor: 0.969

Photometric Results

CIE Class: Direct

Measurement Flux: 3991.2 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3991.2 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 162.2, 152.4, 152.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.6, 83.7, 77.8, 77.4

Luminaire Efficacy Rating (LER): 107.25

Central Intensity: 1962.33 cd

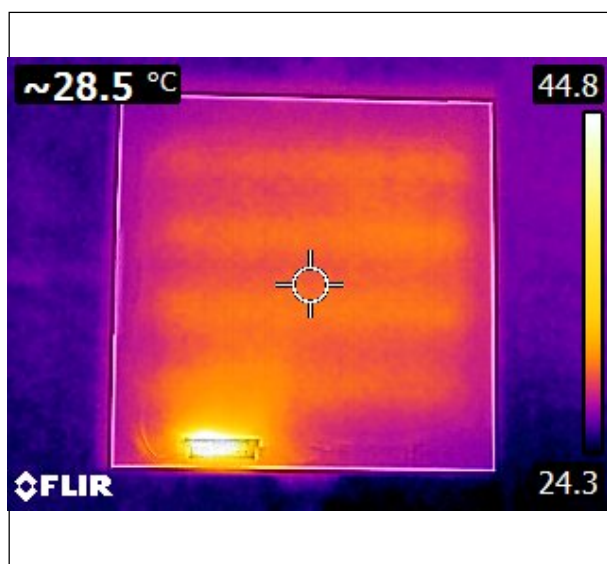
Max. Intensity: 1969.82 cd

Pos of Max. Intensity: H0 V2

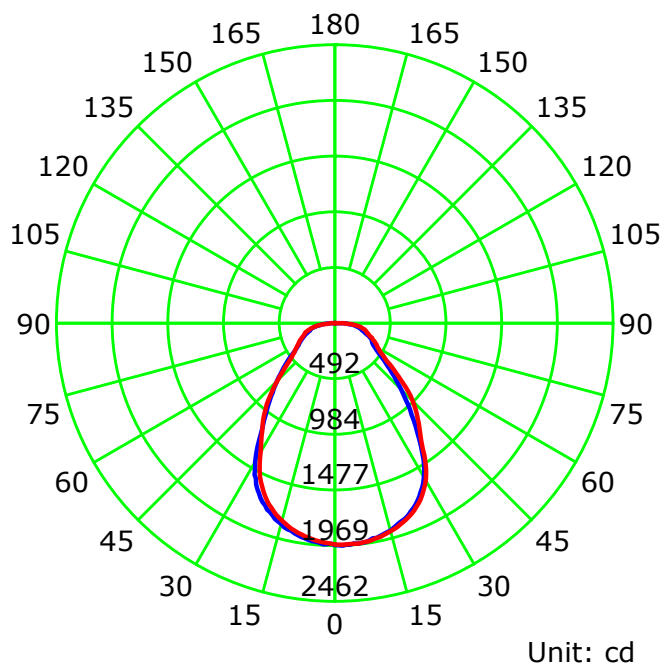
S/MH(C0/C180): 1.15

S/MH(C90/C270): 1.13

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

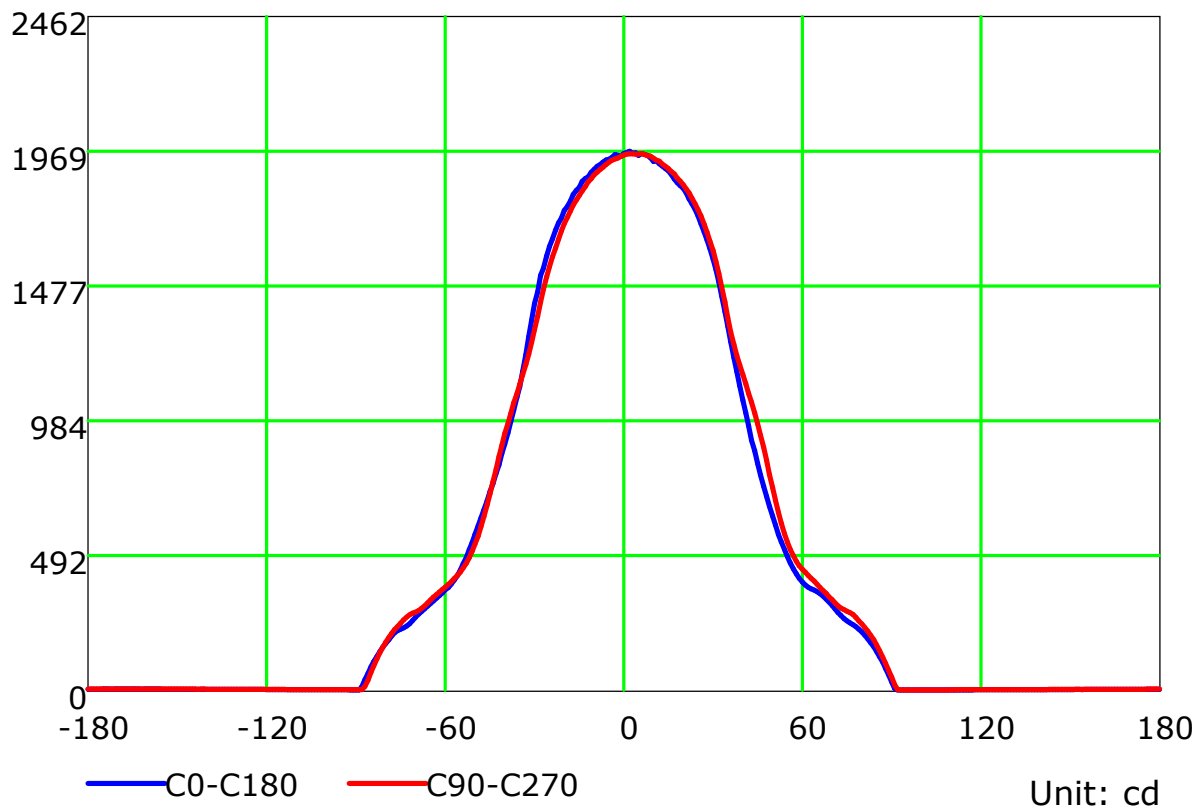
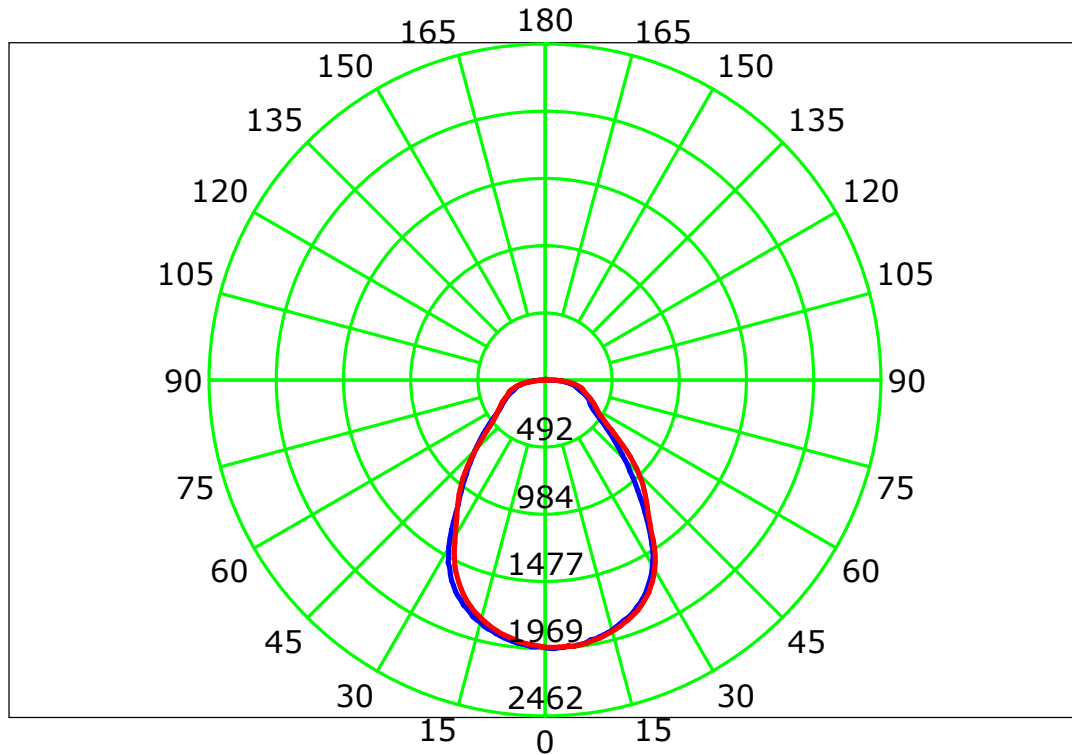
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

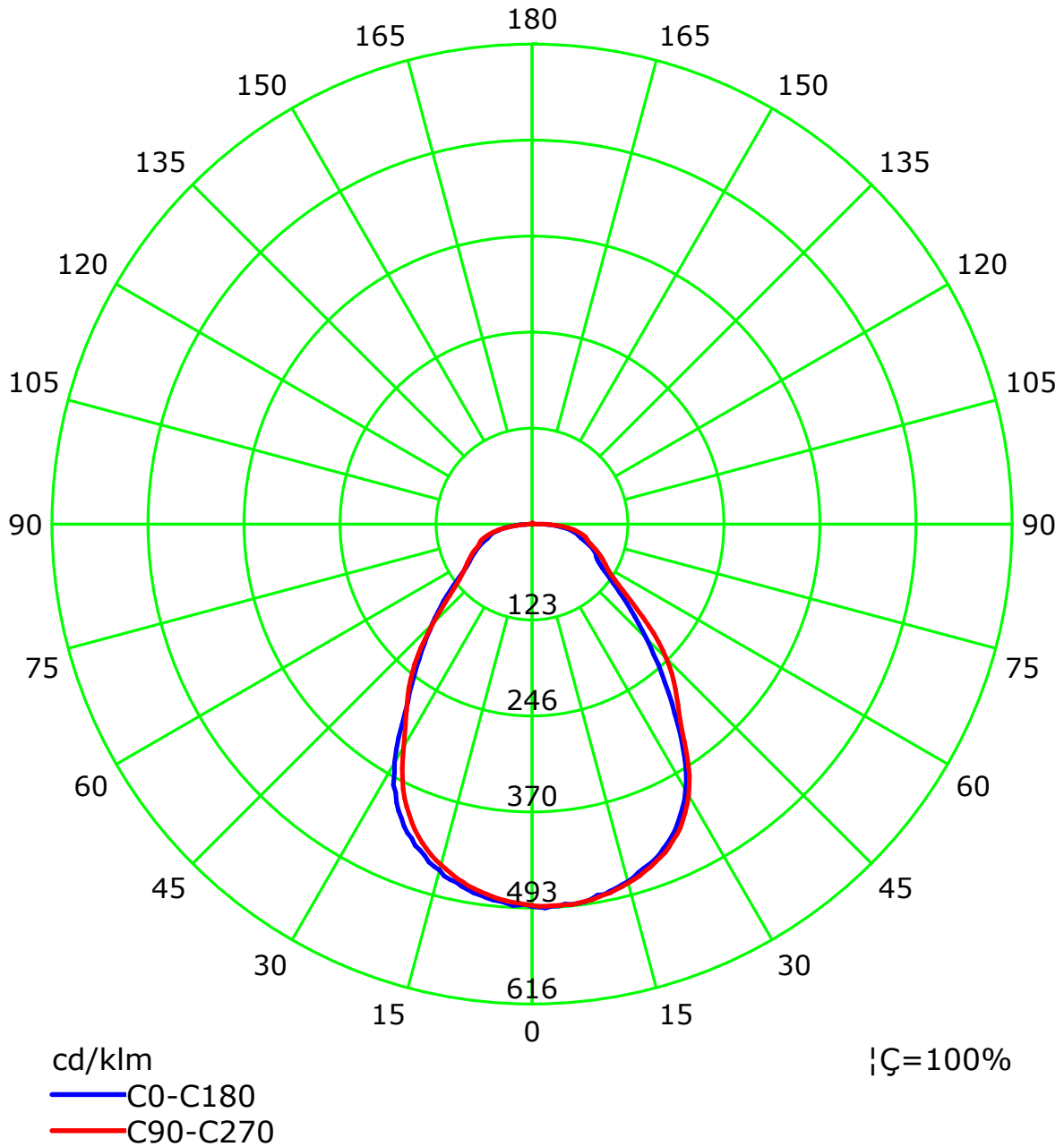
Luminous Intensity Distribution Curve



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)

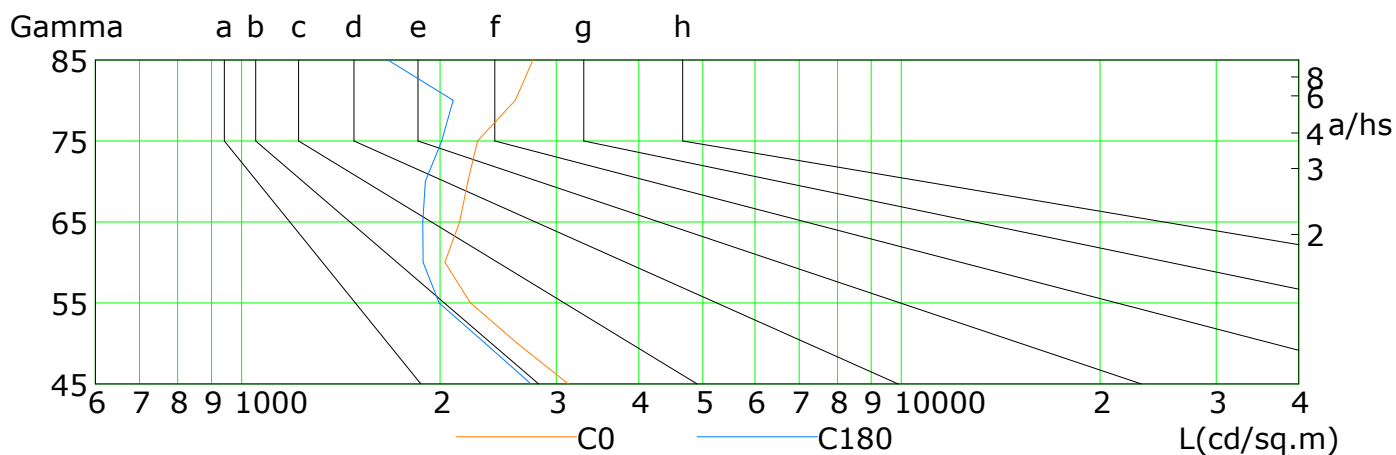
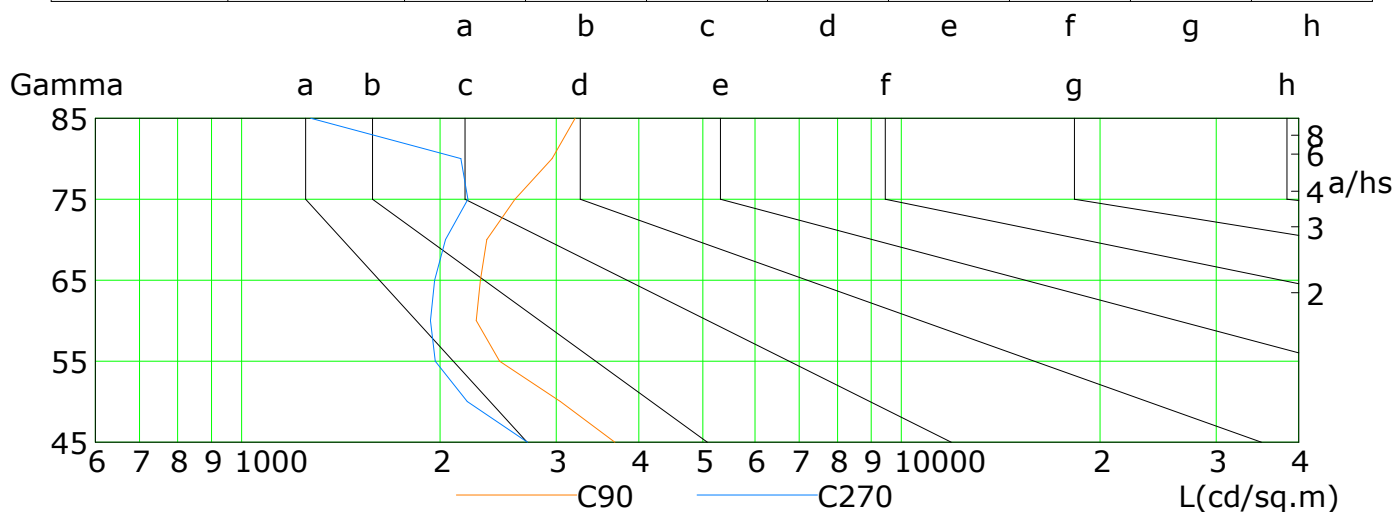


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

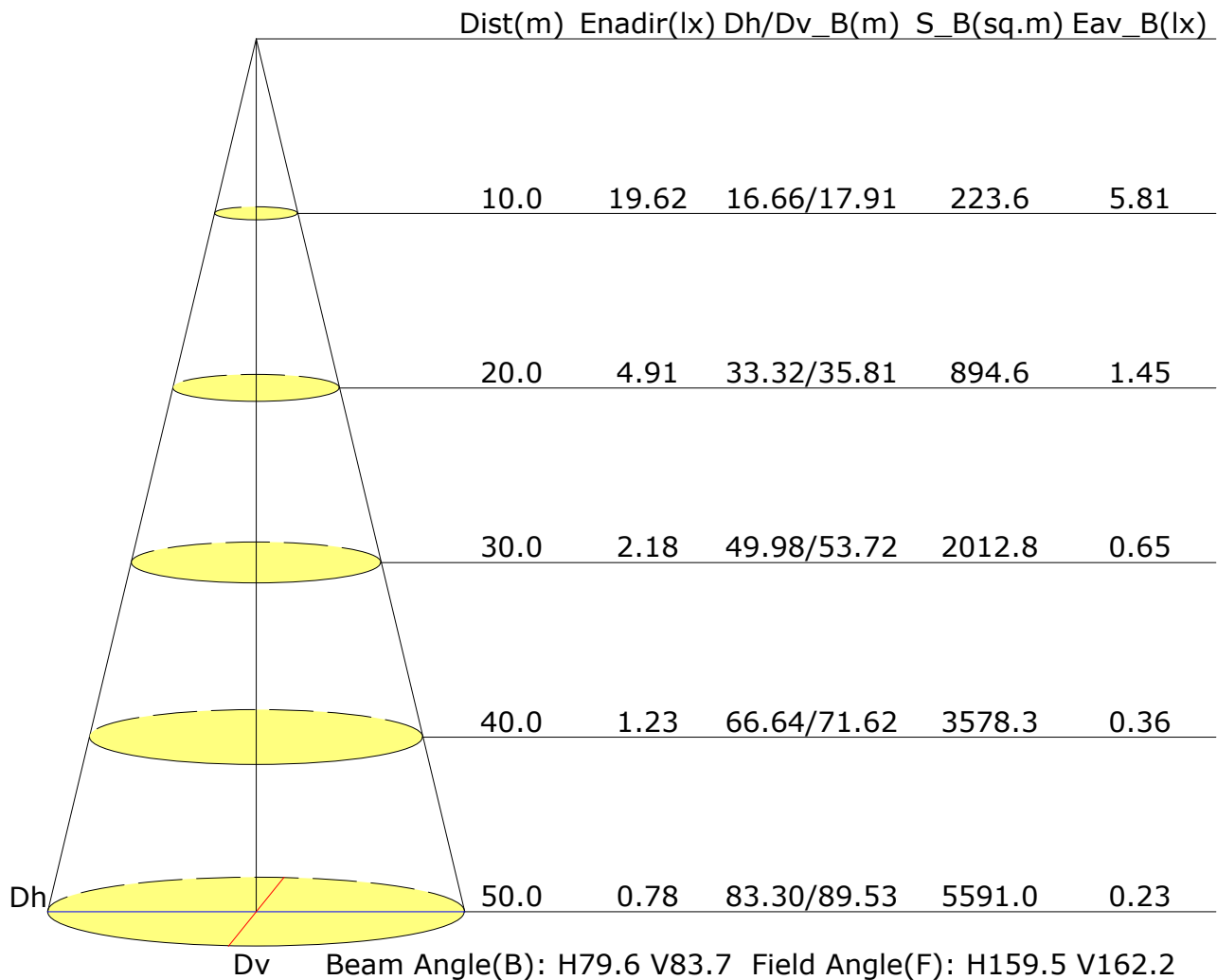


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3129	2618	2223	2032	2141	2204	2277	2600	2764
C90	3677	3044	2461	2269	2302	2354	2595	2956	3203
C180	2744	2341	1993	1884	1881	1898	2010	2092	1666
C270	2710	2197	1966	1933	1961	2037	2202	2149	1273

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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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	14.8	16.1	15.1	16.3	16.6
3H	16.3	17.4	16.6	17.7	18.0	16.3	17.5	16.7	17.8	18.1
4H	17.1	18.2	17.4	18.5	18.8	17.2	18.3	17.6	18.6	18.9
6H	17.9	19.0	18.3	19.3	19.6	18.1	19.1	18.5	19.4	19.7
8H	18.4	19.3	18.7	19.7	20.0	18.5	19.5	18.8	19.8	20.1
12H	18.7	19.7	19.1	20.0	20.4	18.8	19.7	19.2	20.0	20.4
X=4H Y=2H	15.2	16.3	15.6	16.6	16.9	15.3	16.4	15.7	16.7	17.0
3H	17.0	18.0	17.4	18.3	18.7	17.1	18.0	17.5	18.4	18.7
4H	18.0	18.8	18.4	19.2	19.6	18.1	19.0	18.5	19.3	19.7
6H	19.0	19.8	19.5	20.2	20.6	19.2	19.9	19.6	20.3	20.7
8H	19.5	20.2	20.0	20.6	21.1	19.7	20.4	20.1	20.8	21.2
12H	20.0	20.6	20.4	21.0	21.5	20.0	20.7	20.5	21.1	21.5
X=8H Y=4H	18.3	19.0	18.8	19.4	19.8	18.4	19.1	18.9	19.5	20.0
6H	19.5	20.1	20.0	20.5	21.0	19.7	20.3	20.2	20.7	21.2
8H	20.2	20.7	20.7	21.1	21.6	20.3	20.8	20.8	21.2	21.7
12H	20.7	21.2	21.2	21.7	22.2	20.8	21.2	21.3	21.7	22.2
X=12H Y=4H	18.4	19.0	18.8	19.4	19.9	18.5	19.1	18.9	19.5	20.0
6H	19.6	20.1	20.1	20.6	21.1	19.8	20.3	20.3	20.7	21.2
8H	20.3	20.7	20.8	21.2	21.7	20.4	20.9	20.9	21.3	21.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.4/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.7				
S=2.0H	+0.6/-0.9					+0.4/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3991lm ($8\log(F/F_0) = 4.8$).

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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	0.83	0.89	0.92	0.97	1.00	
	0.20		0.49	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	0.86	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:37W 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	0.43	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	0.41	0.34	0.30	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	0.36	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:37W 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	0.18	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	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	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	0.08	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	0.17	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:37W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												