

Report No.: 1

Test Time: 01.11.2019 20:44

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x24LED 0,48A 26,5W 3000K microprisma

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.4 V

Current: 0.117 A

Power: 25.71 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 2709.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2709.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.4, 162.1, 149.2, 148.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 78.1, 79.1, 76.0, 76.0

Luminaire Efficacy Rating (LER): 105.45

Central Intensity: 1405.71 cd

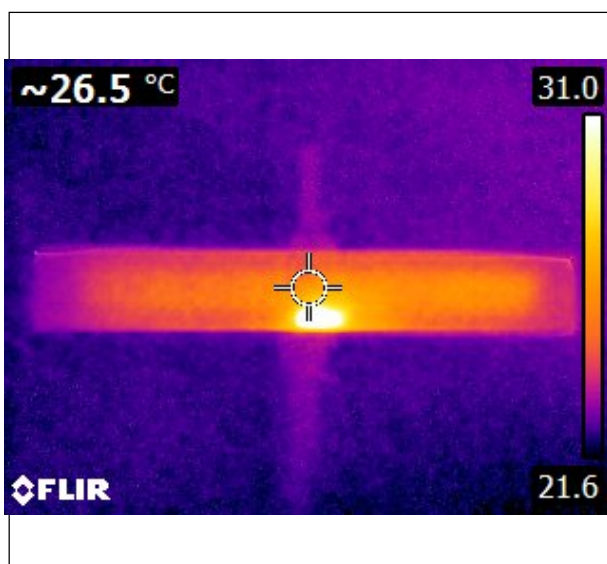
Max. Intensity: 1408.58 cd

Pos of Max. Intensity: H45 V2

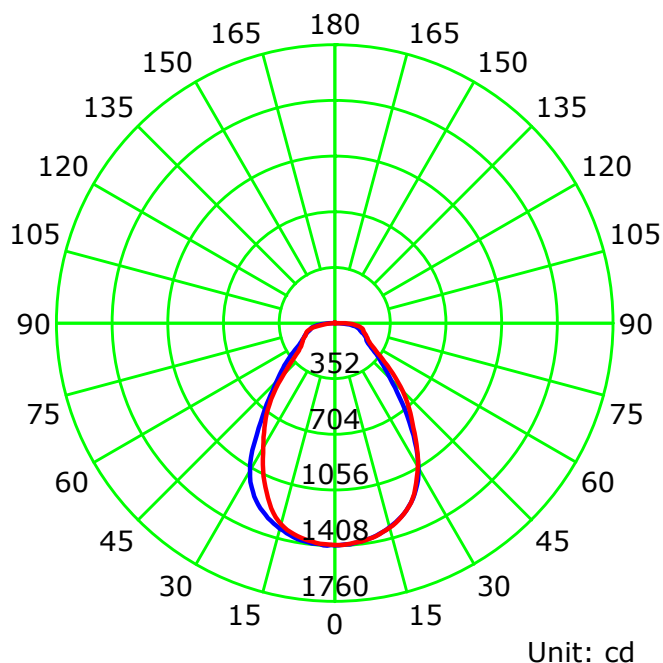
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.08

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

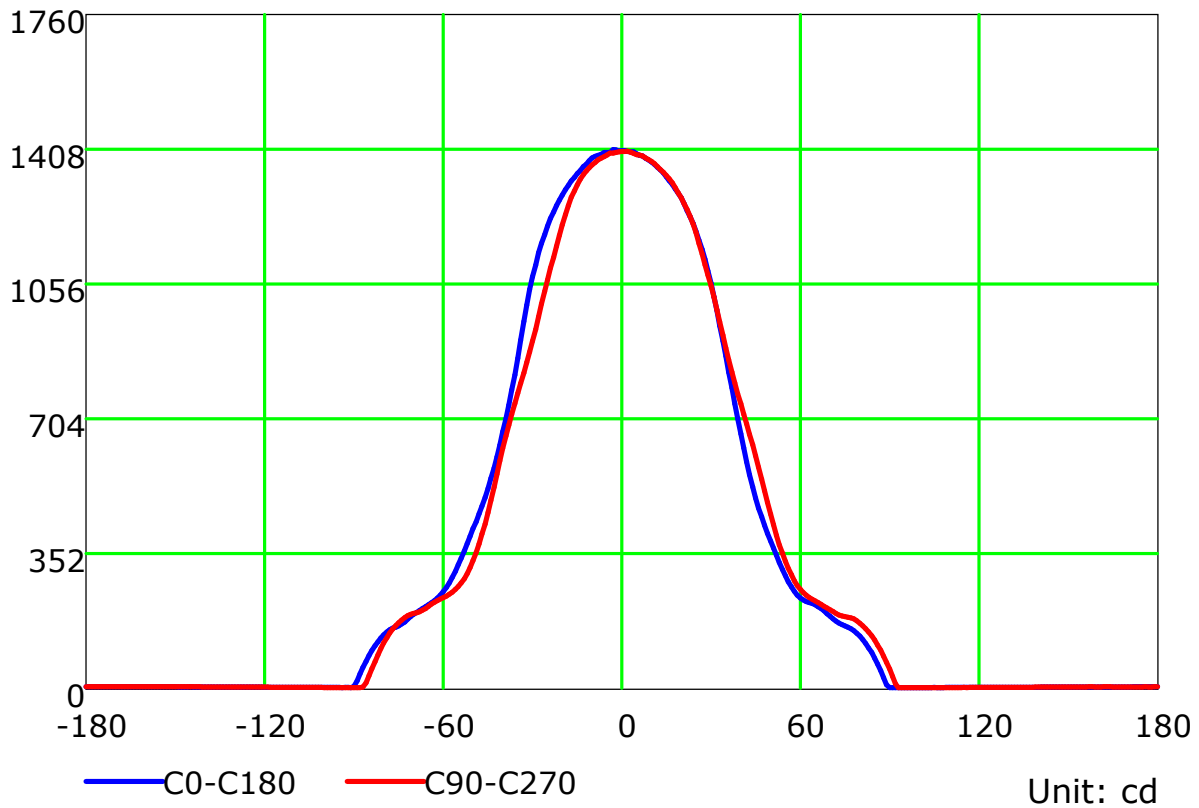
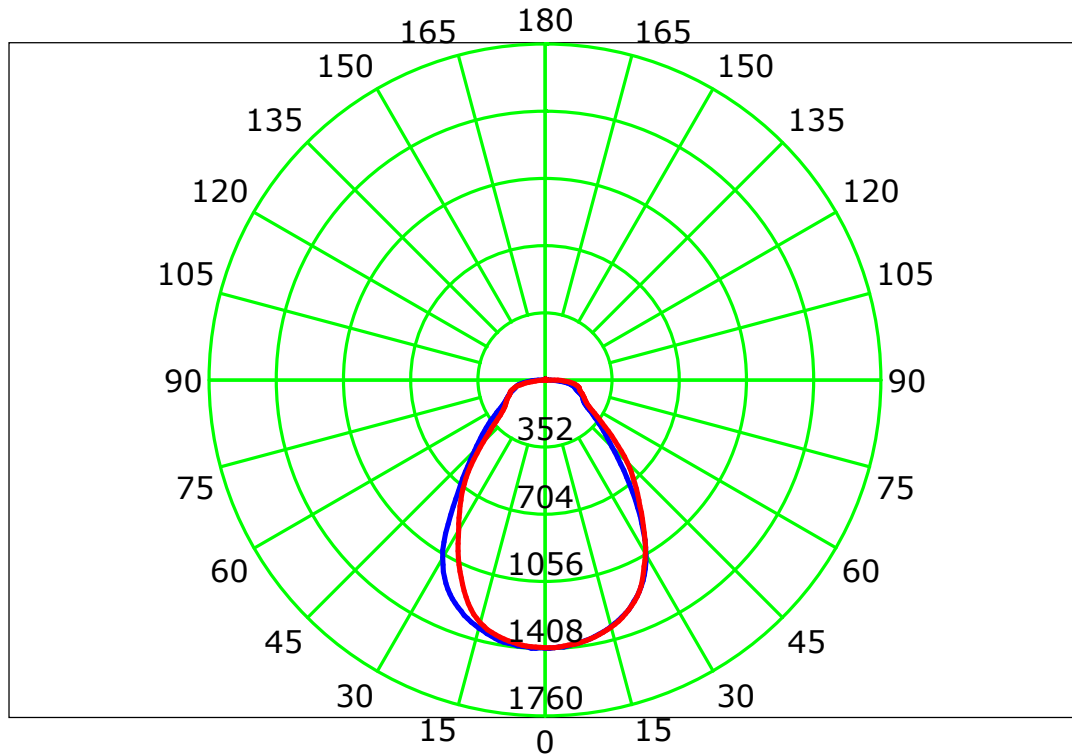
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

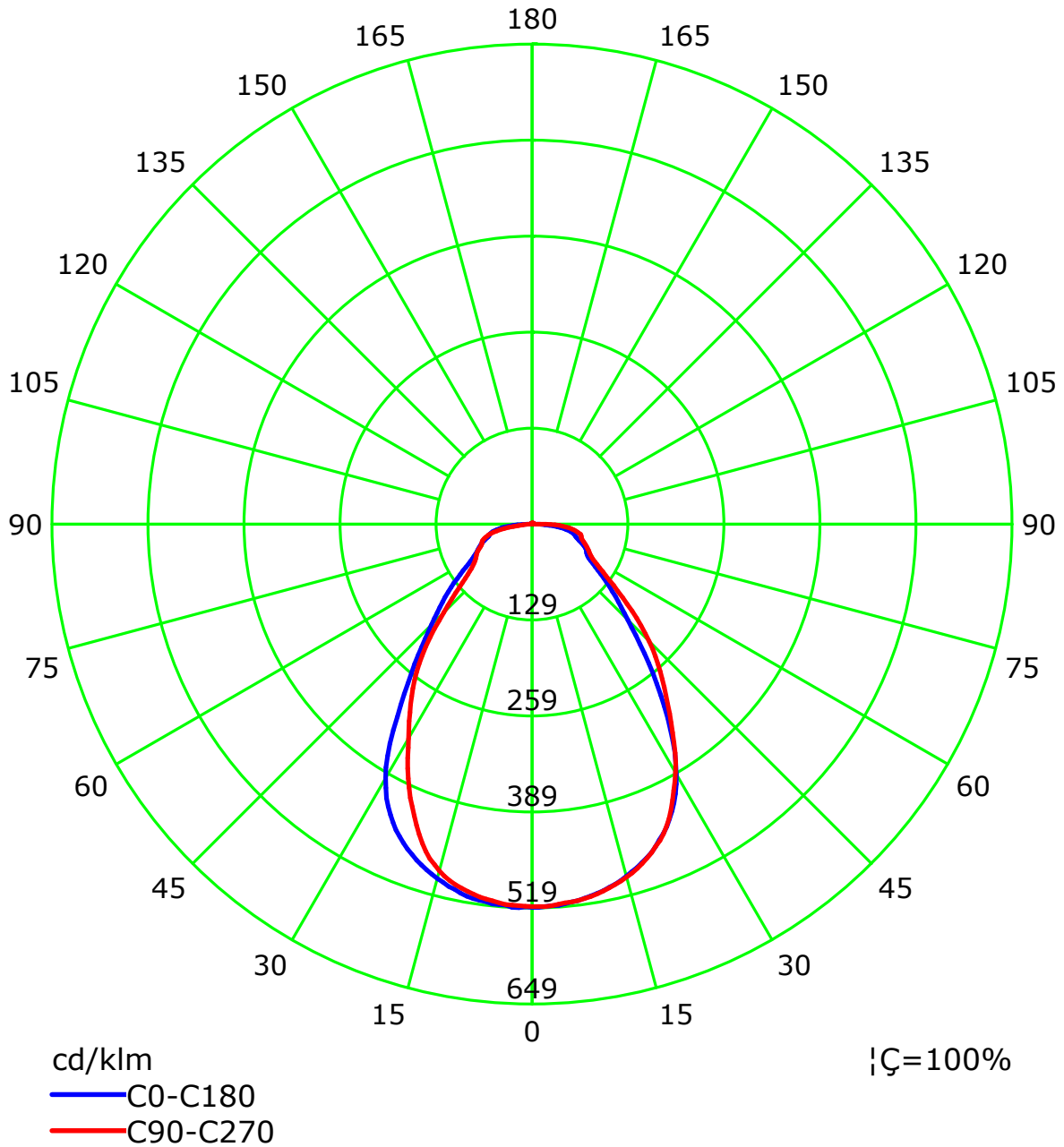
Luminous Intensity Distribution Curve



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

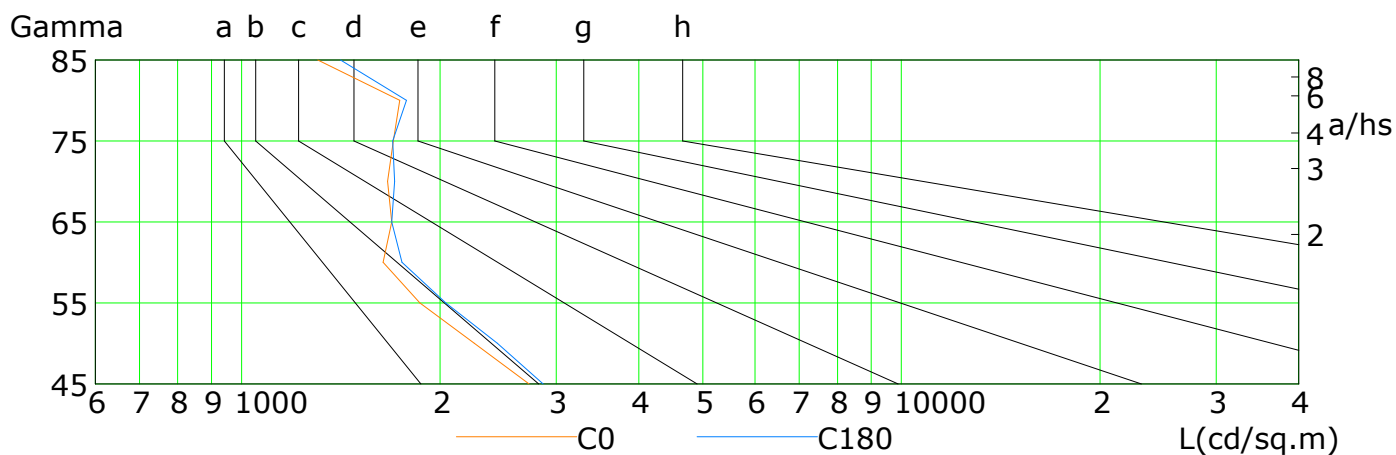
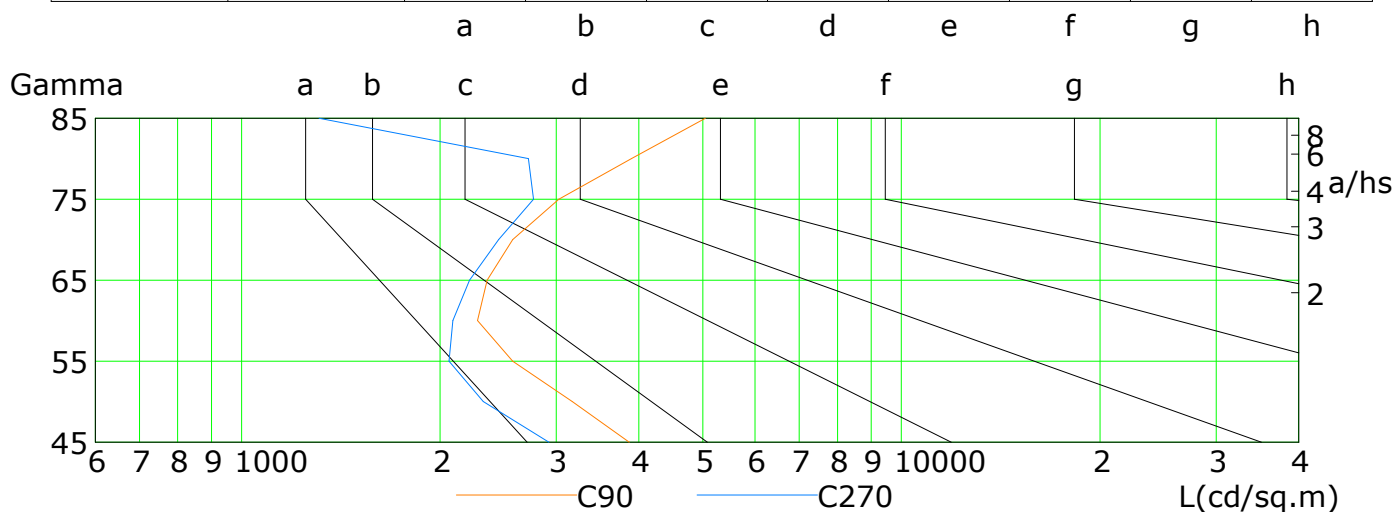
Distance: 12.677 m

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

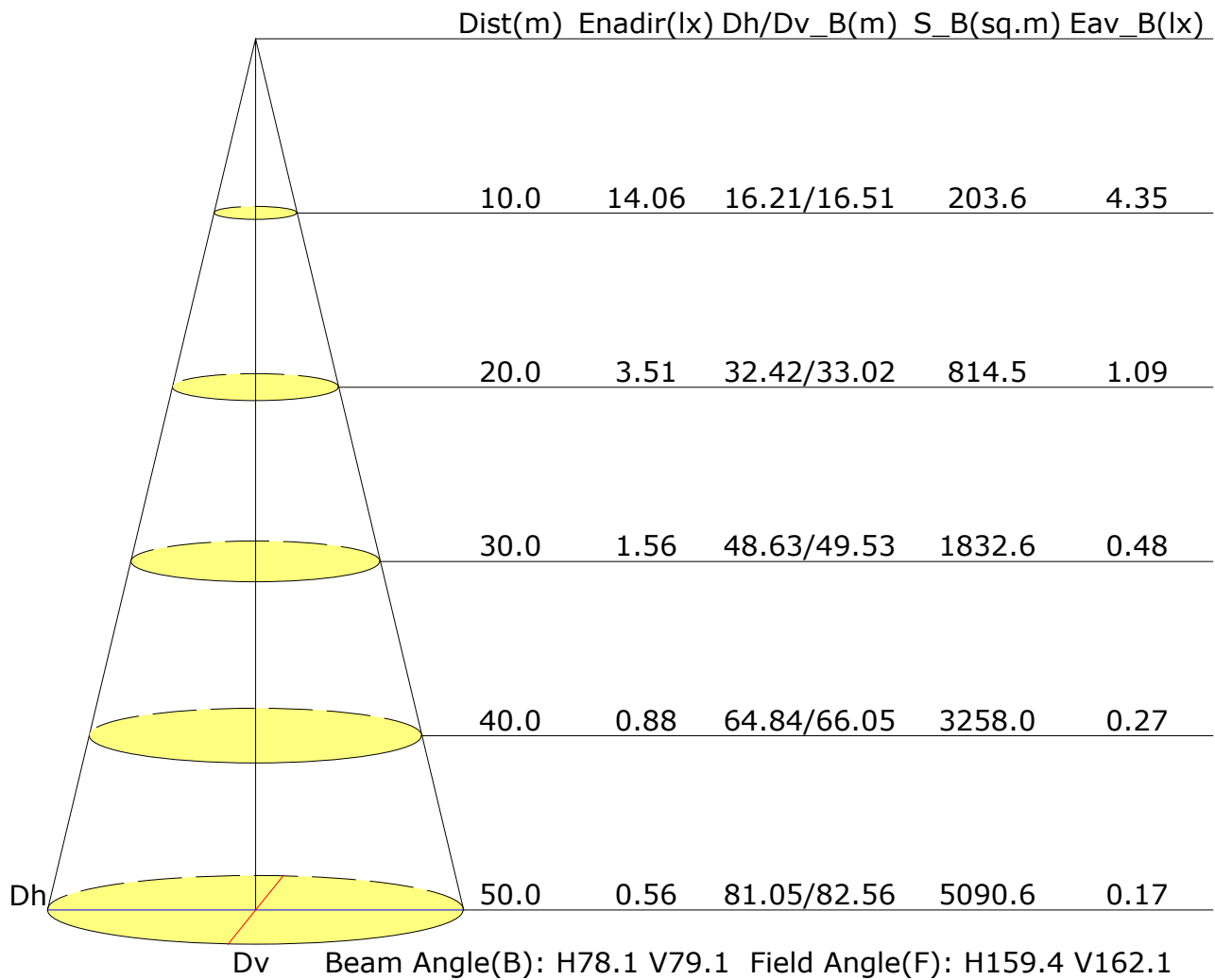


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2728	2254	1864	1639	1689	1664	1699	1736	1305
C90	3866	3170	2575	2278	2357	2576	3025	3899	5043
C180	2863	2441	2041	1751	1690	1707	1695	1778	1412
C270	2921	2325	2062	2091	2215	2453	2771	2719	1310

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:

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	14.0	15.2	14.3	15.5	15.7	14.5	15.7	14.8	16.0	16.2
3H	15.3	16.5	15.7	16.7	17.0	16.1	17.2	16.4	17.5	17.8
4H	16.1	17.1	16.4	17.4	17.7	17.1	18.1	17.4	18.4	18.7
6H	16.8	17.8	17.2	18.2	18.5	18.1	19.1	18.5	19.5	19.8
8H	17.2	18.1	17.5	18.5	18.8	18.6	19.6	19.0	19.9	20.3
12H	17.4	18.3	17.8	18.6	19.0	19.0	20.0	19.4	20.3	20.7
X=4H Y=2H	14.4	15.5	14.8	15.8	16.1	14.8	15.9	15.2	16.2	16.5
3H	16.0	17.0	16.4	17.3	17.7	16.7	17.6	17.1	18.0	18.3
4H	16.9	17.8	17.3	18.1	18.5	17.9	18.7	18.3	19.1	19.5
6H	17.9	18.6	18.3	19.0	19.4	19.1	19.9	19.6	20.3	20.7
8H	18.3	18.9	18.7	19.4	19.8	19.7	20.4	20.1	20.8	21.2
12H	18.6	19.2	19.0	19.6	20.1	20.2	20.8	20.7	21.2	21.7
X=8H Y=4H	17.3	17.9	17.7	18.4	18.8	18.1	18.8	18.6	19.2	19.6
6H	18.4	18.9	18.8	19.4	19.8	19.5	20.1	20.0	20.5	21.0
8H	18.8	19.3	19.3	19.8	20.3	20.2	20.7	20.7	21.2	21.7
12H	19.2	19.7	19.7	20.1	20.7	20.8	21.3	21.3	21.8	22.3
X=12H Y=4H	17.3	17.9	17.8	18.4	18.8	18.1	18.7	18.6	19.2	19.6
6H	18.5	18.9	18.9	19.4	19.9	19.6	20.1	20.1	20.5	21.0
8H	19.0	19.4	19.5	19.9	20.4	20.3	20.7	20.8	21.2	21.7
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/-0.6				
S=2.0H	+0.8/-1.0					+0.6/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 2710lm ($8\log(F/F_0) = 3.5$).

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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	0.63	0.72	0.79	0.83	0.90	0.94	0.97	1.01	1.04	
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.93	0.97	1.01	
	0.20		0.51	0.60	0.67	0.72	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.70	0.76	0.81	0.87	0.91	0.94	0.97	1.00	
	0.30		0.55	0.64	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.84	0.87	0.90	0.94	0.96	
	0.30		0.54	0.63	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.91	
0.00	0.00	0.00	0.48	0.56	0.62	0.67	0.73	0.77	0.80	0.84	0.87	
Rating:26W 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	0.90	0.74	0.64	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.64	0.55	0.49	0.40	0.34	0.30	0.24	0.20	
	0.20		0.64	0.55	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.86	0.71	0.61	0.53	0.43	0.39	0.30	0.24	0.20	
	0.30		0.73	0.62	0.54	0.48	0.39	0.33	0.28	0.23	0.19	
	0.20		0.63	0.54	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.84	0.68	0.58	0.51	0.40	0.34	0.29	0.23	0.19	
	0.30		0.71	0.60	0.52	0.46	0.37	0.32	0.27	0.22	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.52	0.43	0.37	0.33	0.27	0.23	0.20	0.16	0.13	
Rating:26W 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		0.06	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	0.19	0.20	0.20	0.21	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		0.06	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	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
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:26W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												