

Report No.: 1

Test Time: 31.10.2019 18:55

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x24LED 0,48A 26,5W 3000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.118 A

Power: 25.78 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 2926.3 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2926.3 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.3, 156.2, 151.0, 151.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.9, 80.8, 78.5, 78.5

Luminaire Efficacy Rating (LER): 113.56

Central Intensity: 1439.25 cd

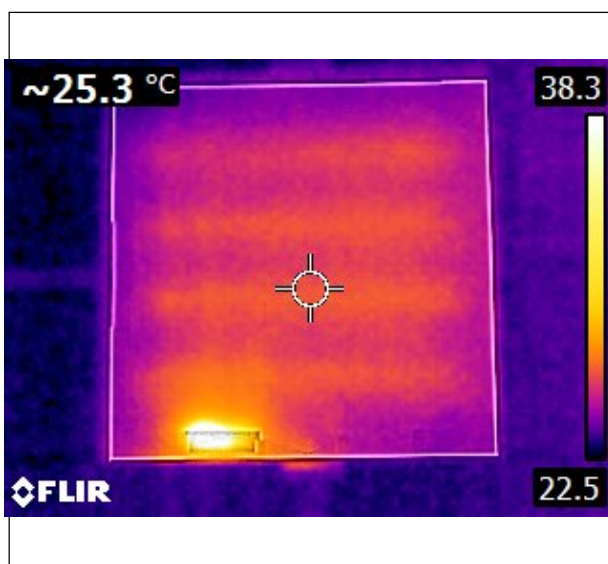
Max. Intensity: 1447.04 cd

Pos of Max. Intensity: H45 V3

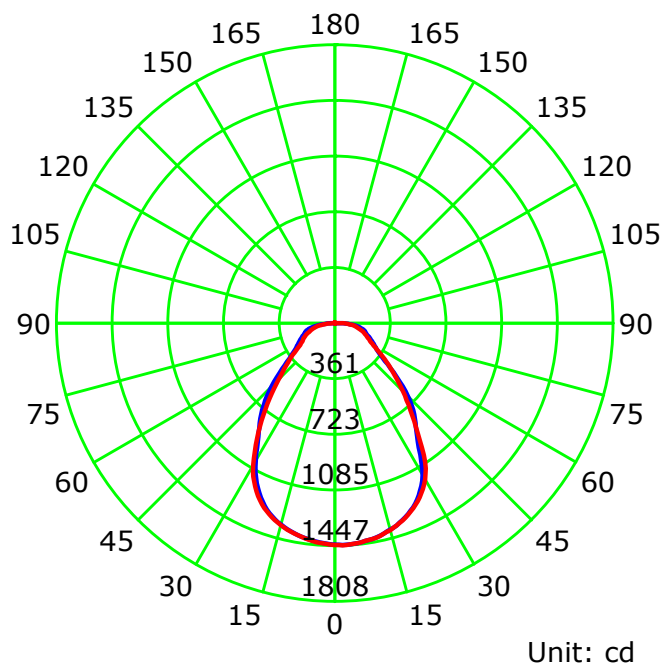
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.16

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

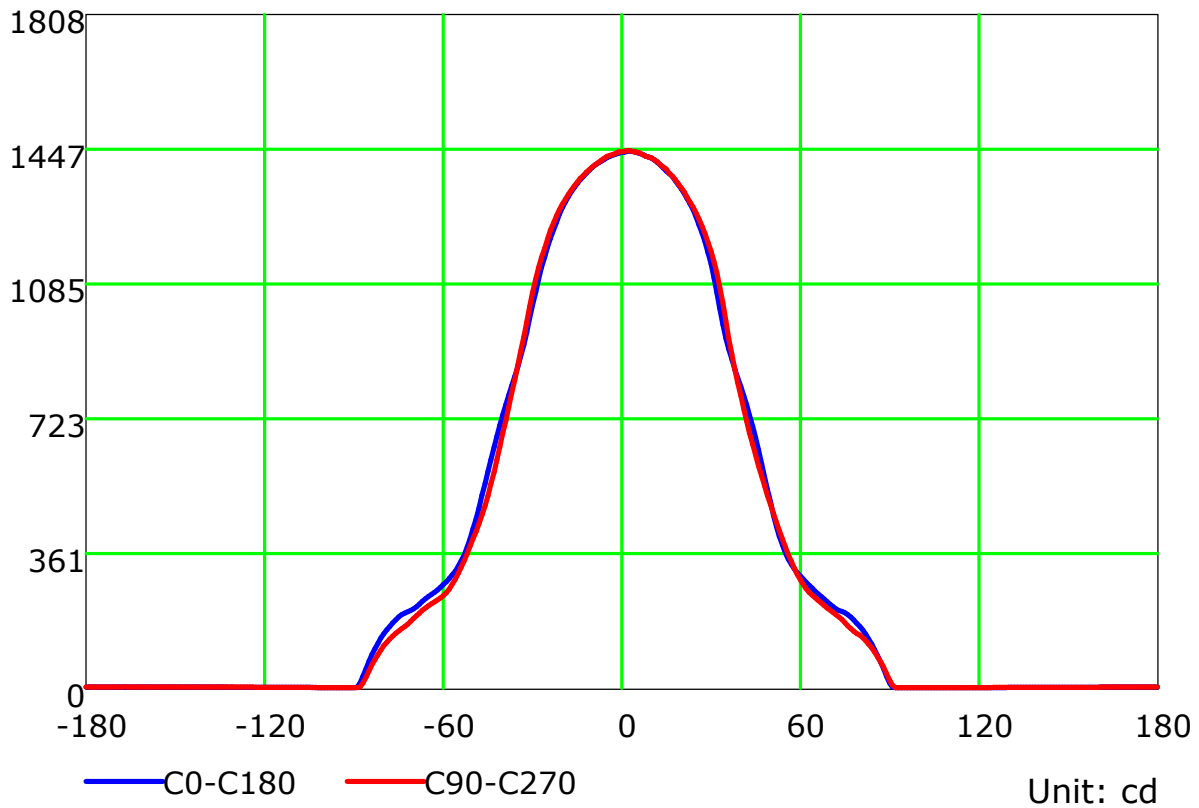
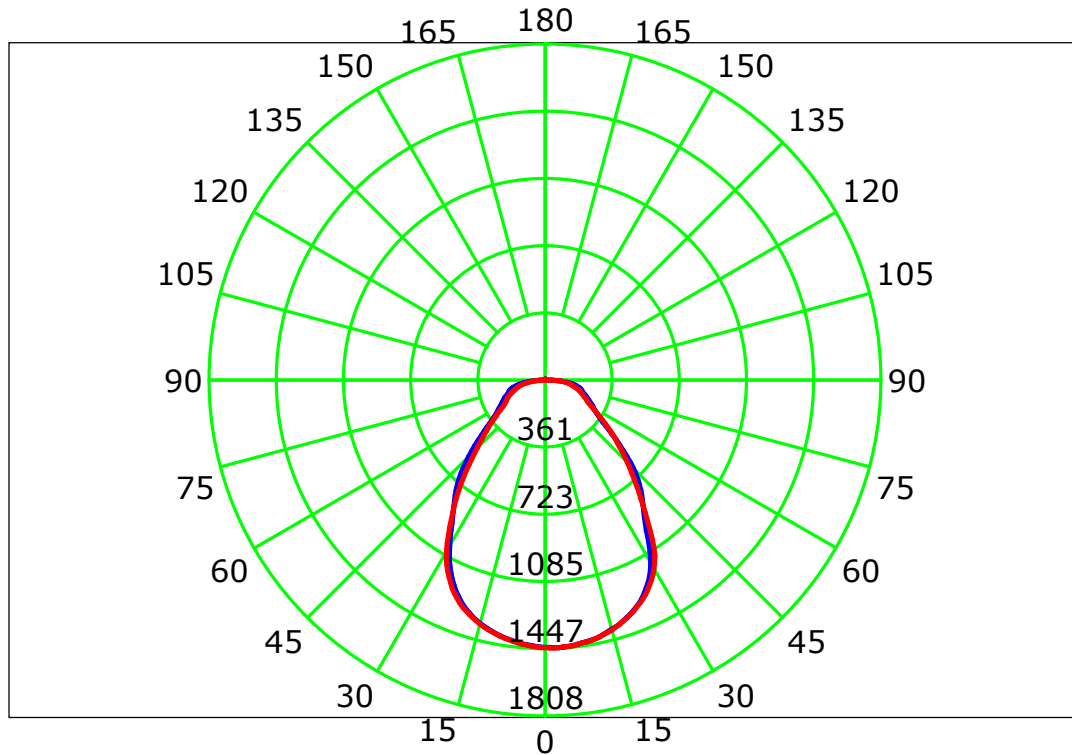
Test Device: LSG-1800B

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

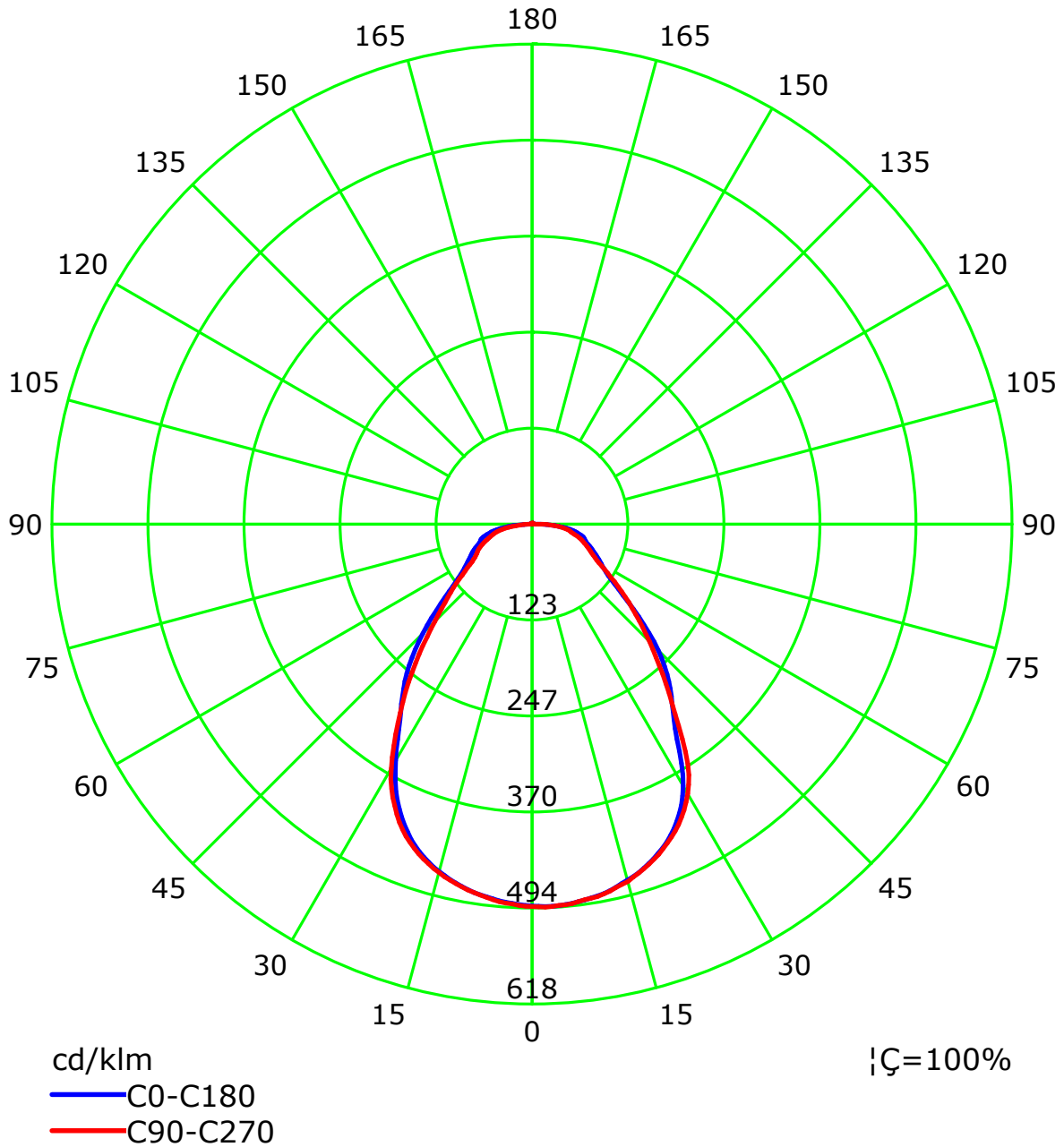
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



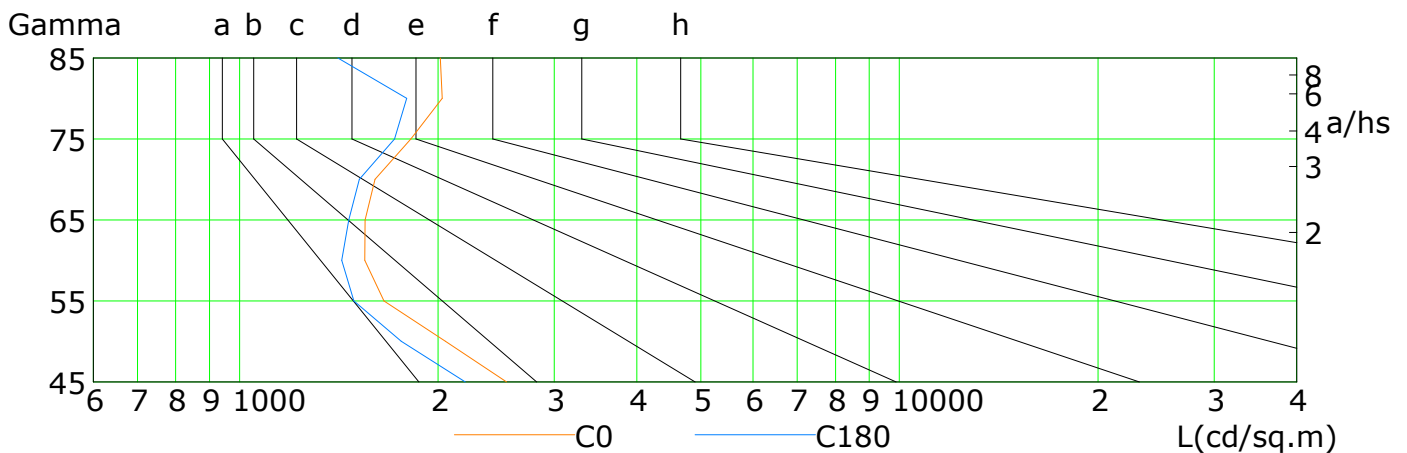
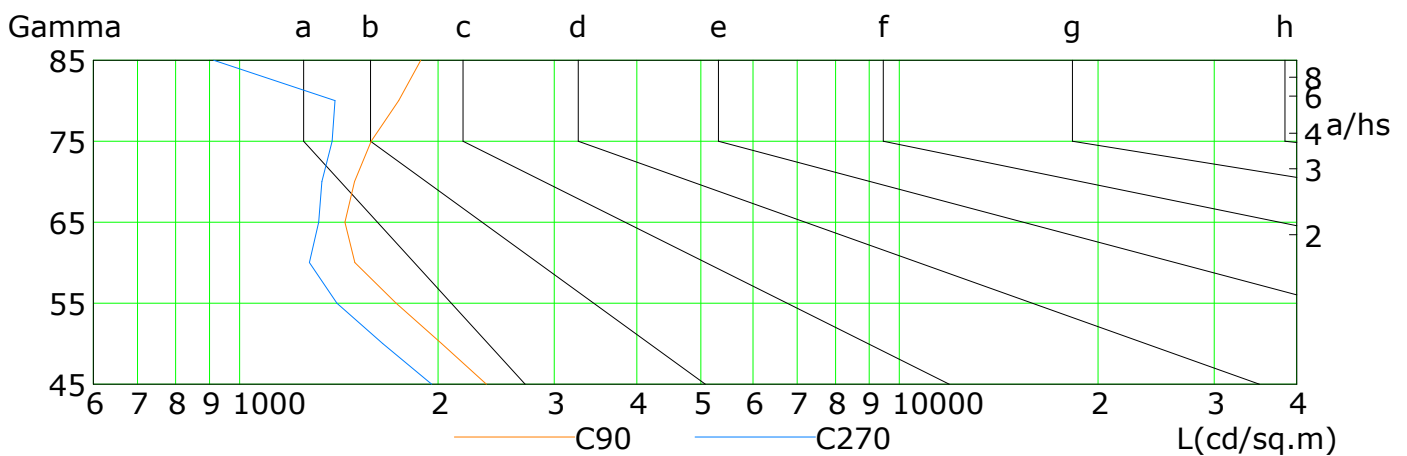
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2540	2051	1655	1548	1549	1604	1819	2029	2014
C90	2365	2023	1728	1496	1445	1494	1582	1742	1883
C180	2199	1759	1490	1427	1465	1518	1717	1791	1409
C270	1954	1648	1405	1277	1318	1333	1382	1396	913

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

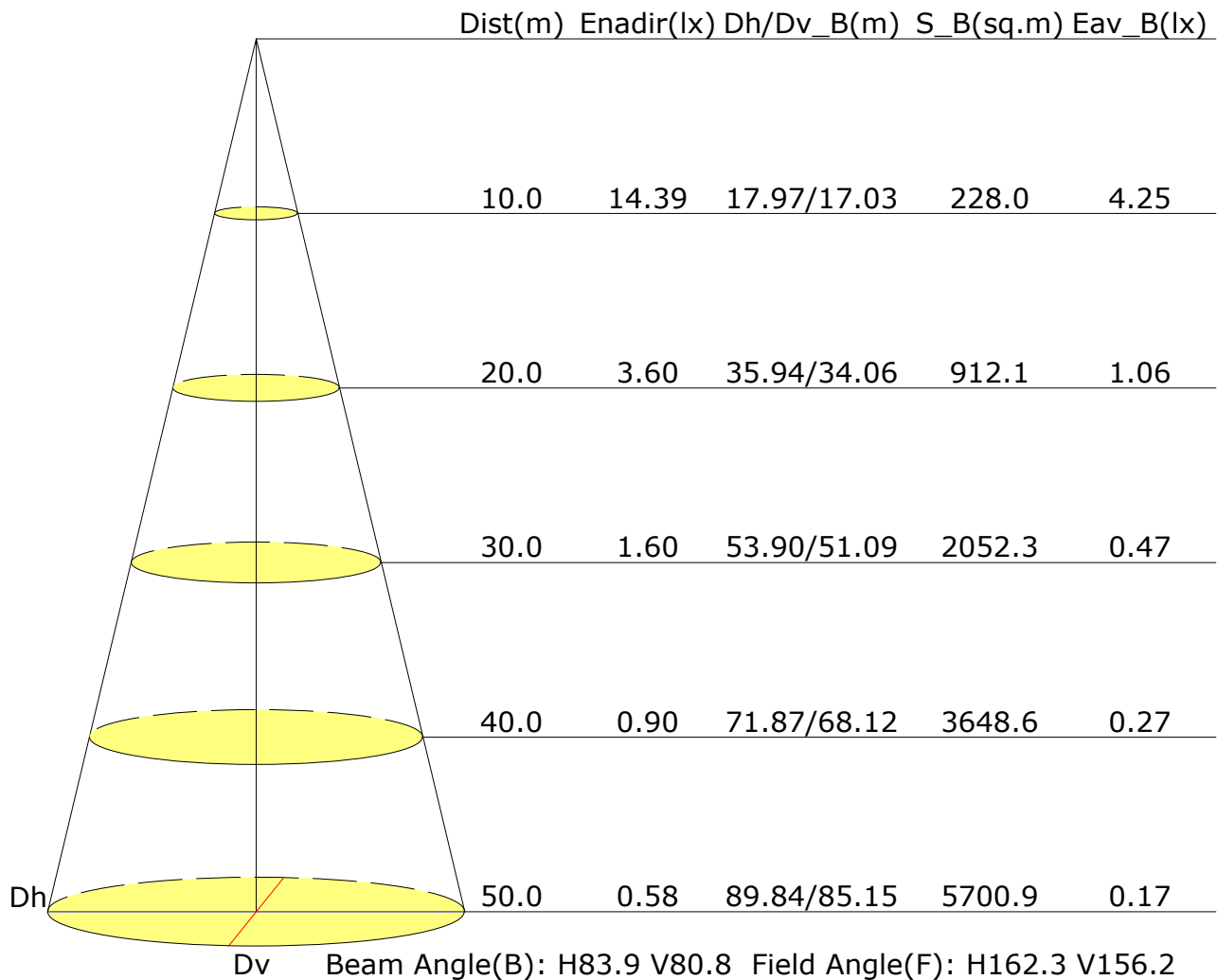
Test Device: LSG-1800B

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	13.7	15.0	14.0	15.2	15.5	13.4	14.6	13.7	14.9	15.1
3H	15.2	16.4	15.5	16.6	16.9	14.7	15.9	15.1	16.1	16.4
4H	16.1	17.2	16.4	17.5	17.8	15.5	16.6	15.8	16.8	17.2
6H	17.1	18.1	17.4	18.4	18.7	16.2	17.2	16.6	17.5	17.9
8H	17.5	18.5	17.9	18.8	19.1	16.5	17.5	16.9	17.8	18.2
12H	17.9	18.8	18.2	19.1	19.5	16.8	17.7	17.2	18.1	18.4
X=4H Y=2H	14.1	15.2	14.5	15.5	15.8	13.8	14.9	14.2	15.2	15.5
3H	15.9	16.8	16.3	17.2	17.5	15.5	16.4	15.9	16.7	17.1
4H	17.0	17.8	17.4	18.2	18.5	16.4	17.2	16.8	17.6	18.0
6H	18.1	18.9	18.6	19.3	19.7	17.3	18.0	17.7	18.4	18.8
8H	18.7	19.4	19.1	19.8	20.2	17.7	18.4	18.1	18.8	19.2
12H	19.1	19.7	19.6	20.2	20.6	18.0	18.6	18.5	19.1	19.5
X=8H Y=4H	17.3	17.9	17.7	18.3	18.8	16.7	17.4	17.2	17.8	18.3
6H	18.6	19.2	19.1	19.6	20.1	17.8	18.4	18.3	18.8	19.3
8H	19.3	19.8	19.8	20.2	20.7	18.3	18.8	18.8	19.3	19.8
12H	19.8	20.3	20.3	20.7	21.3	18.8	19.2	19.3	19.7	20.2
X=12H Y=4H	17.3	17.9	17.7	18.3	18.8	16.8	17.4	17.3	17.9	18.3
6H	18.7	19.2	19.2	19.6	20.1	17.9	18.4	18.4	18.9	19.4
8H	19.4	19.8	19.9	20.3	20.8	18.5	18.9	19.0	19.4	19.9
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	+0.7/-0.9					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2926lm ($8\log(F/F_0) = 3.7$).

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 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:

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	0.90	0.94	0.97	1.01	1.04	
	0.30		0.55	0.65	0.71	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.50	0.59	0.66	0.71	0.79	0.85	0.88	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.91	0.94	0.97	1.00	
	0.30		0.54	0.64	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.50	0.59	0.65	0.70	0.77	0.82	0.86	0.91	0.95	
0.30	0.50	0.20	0.59	0.68	0.74	0.78	0.84	0.87	0.90	0.94	0.96	
	0.30		0.54	0.62	0.69	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.49	0.58	0.64	0.69	0.76	0.81	0.84	0.89	0.91	
0.00	0.00	0.00	0.47	0.56	0.62	0.66	0.72	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	0.91	0.75	0.64	0.56	0.45	0.38	0.32	0.25	0.21	
	0.30		0.76	0.64	0.56	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.65	0.56	0.50	0.45	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.88	0.72	0.62	0.54	0.43	0.39	0.31	0.24	0.20	
	0.30		0.74	0.63	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.85	0.69	0.59	0.51	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	0.54	0.48	0.43	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.53	0.44	0.38	0.34	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		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	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	0.14	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	0.17	
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												