



Report No.: 1

Test Time: 15.11.2019 18:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 40LED 0,35A 44W 4000K microprisma Hygiene

Number of Lamps: 1

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.198 A

Power: 42.88 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5419.6 lm

Measurement Flux: 5419.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.2, 158.9, 151.5, 151.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 82.5, 79.1, 77.1, 77.0

Luminaire Efficacy Rating (LER): 126.44

Central Intensity: 2702.15 cd

Max. Intensity: 2707.94 cd

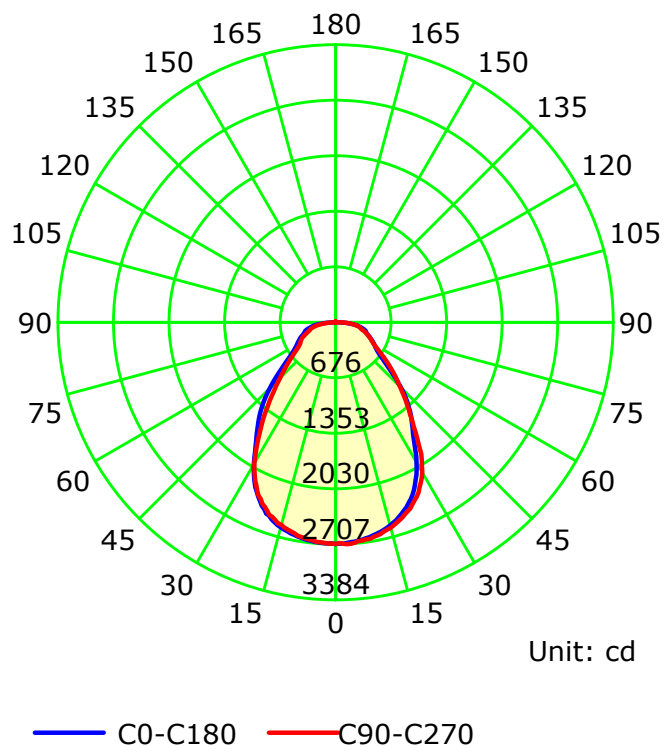
Pos of Max. Intensity: H90 V3

S/MH(C0/C180): 1.12

S/MH(C90/C270): 1.14

Termogramma

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

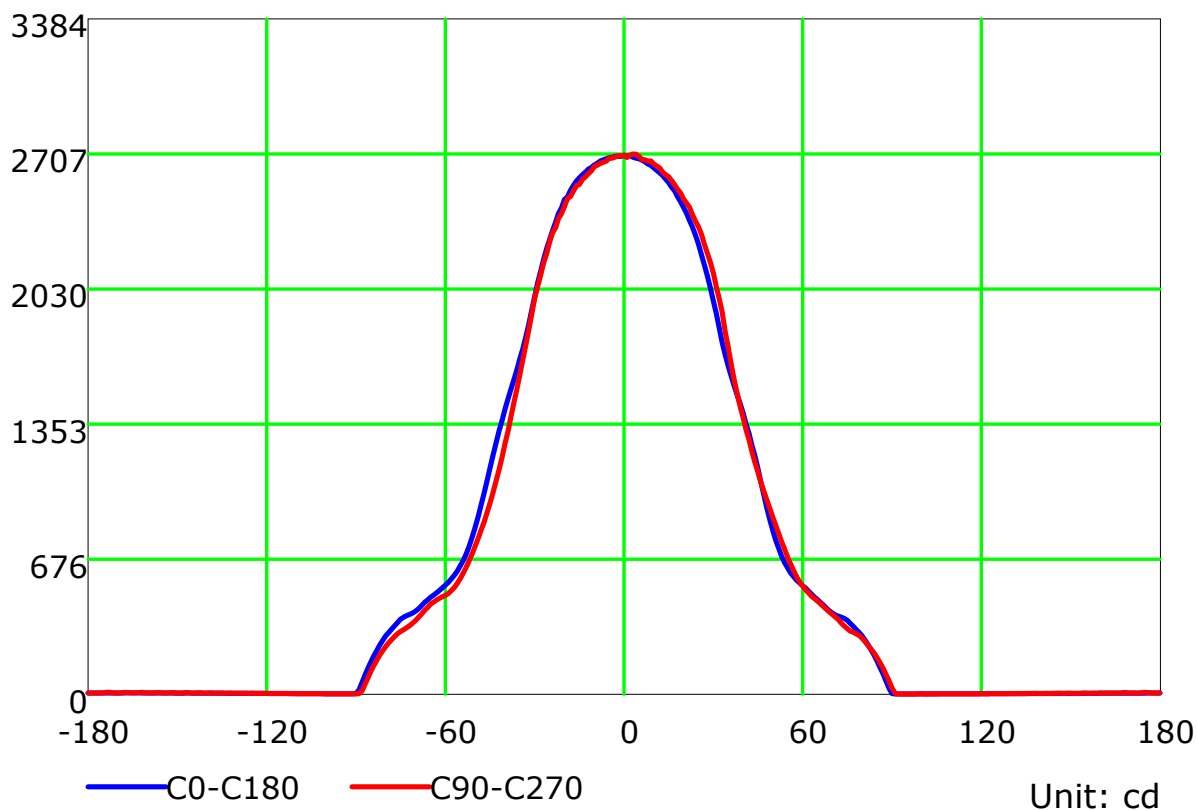
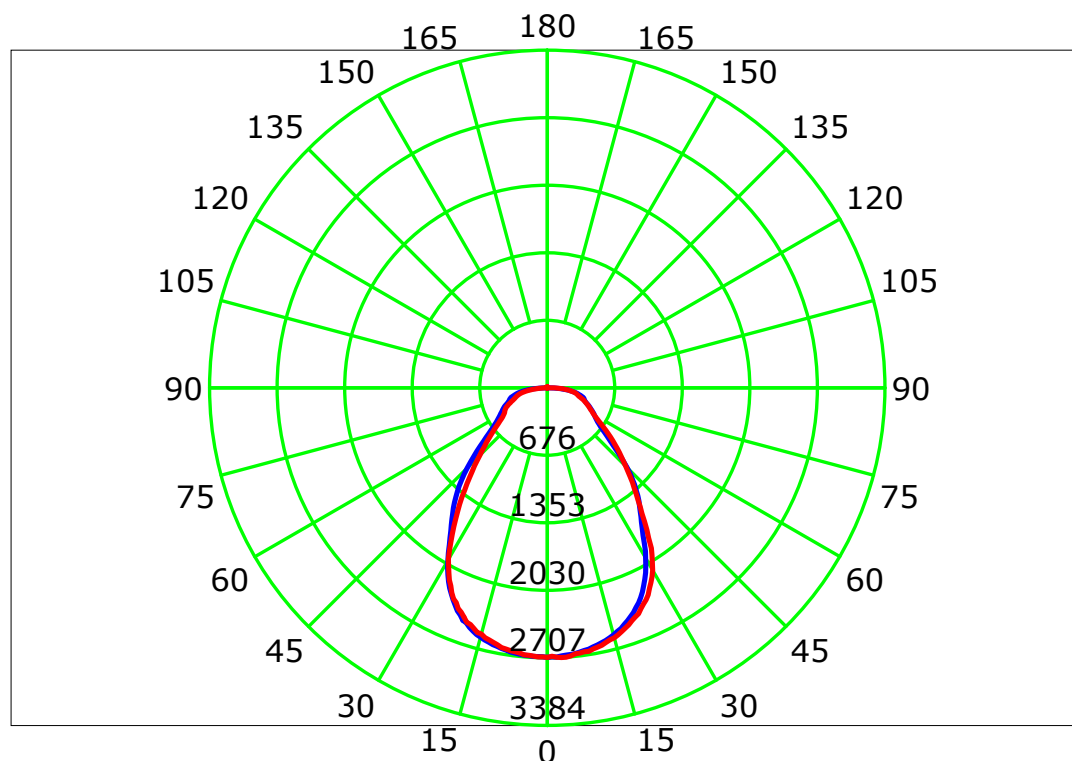
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

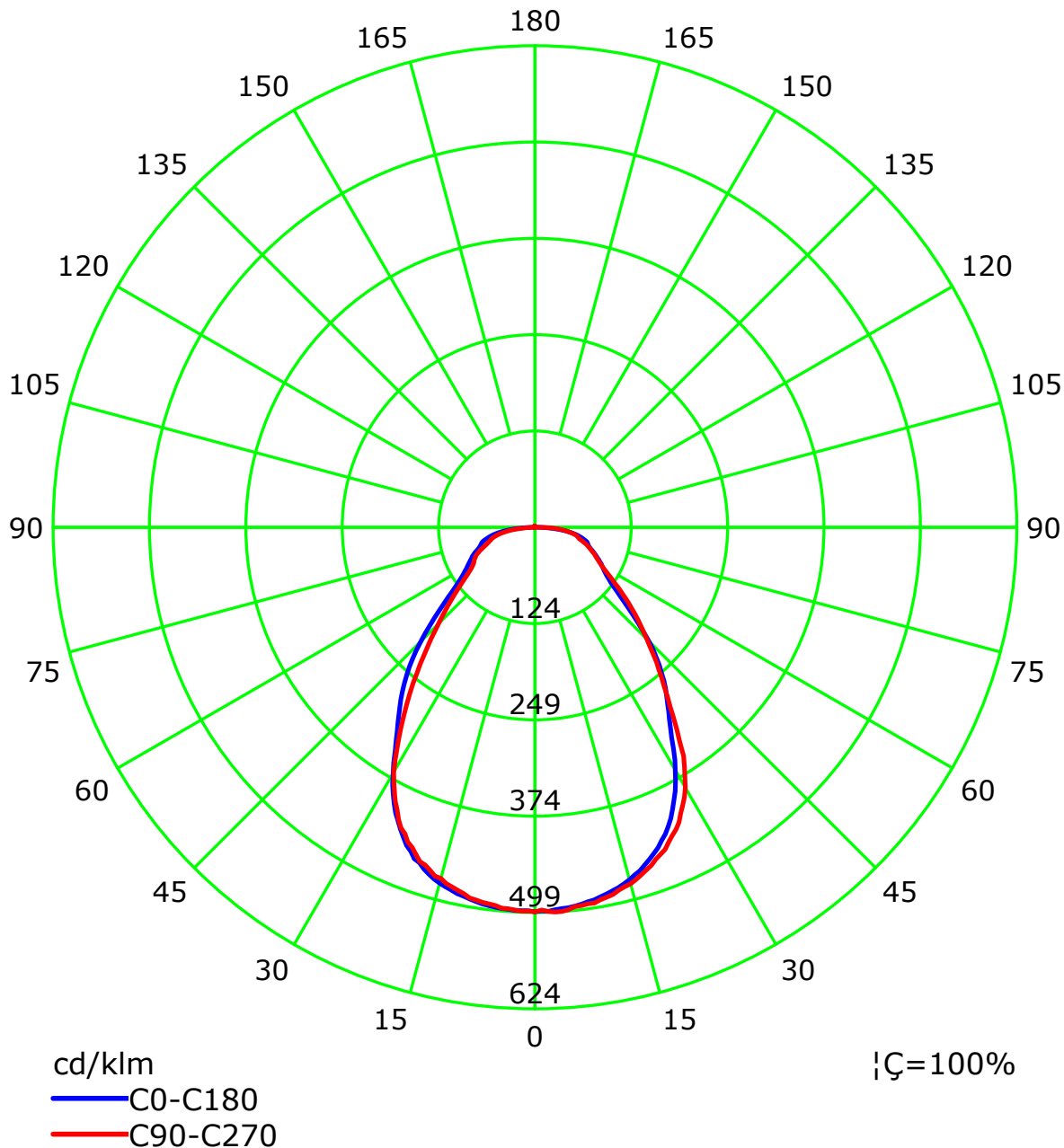
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
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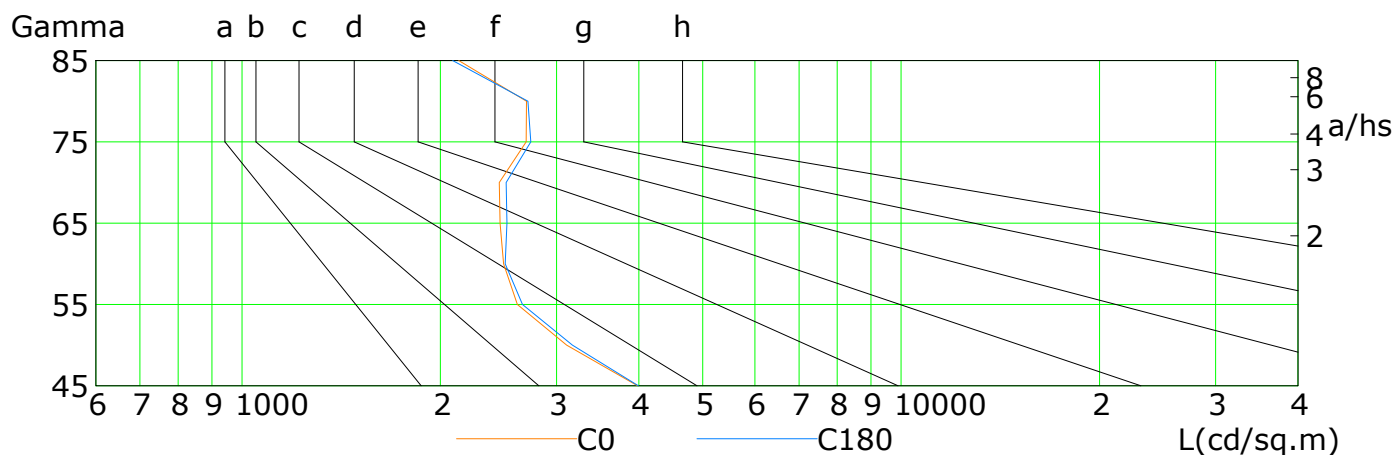
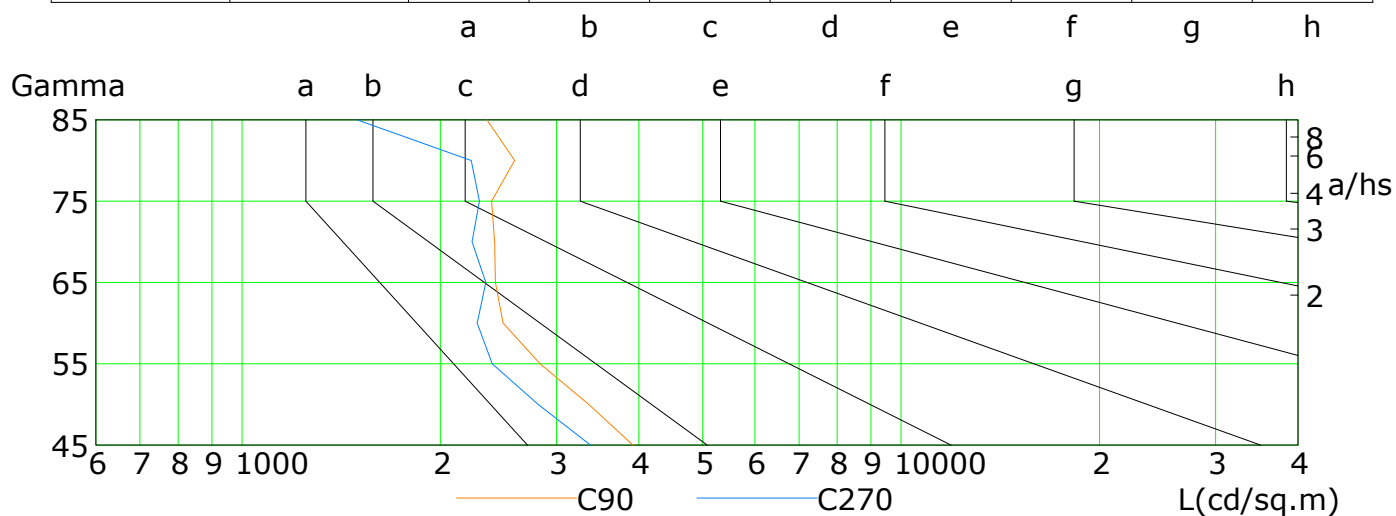
Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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	3981	3108	2617	2494	2463	2457	2698	2702	2133
C90	3918	3358	2832	2490	2423	2417	2392	2592	2353
C180	3994	3171	2664	2508	2523	2517	2743	2715	2087
C270	3378	2814	2397	2274	2344	2234	2291	2228	1495

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

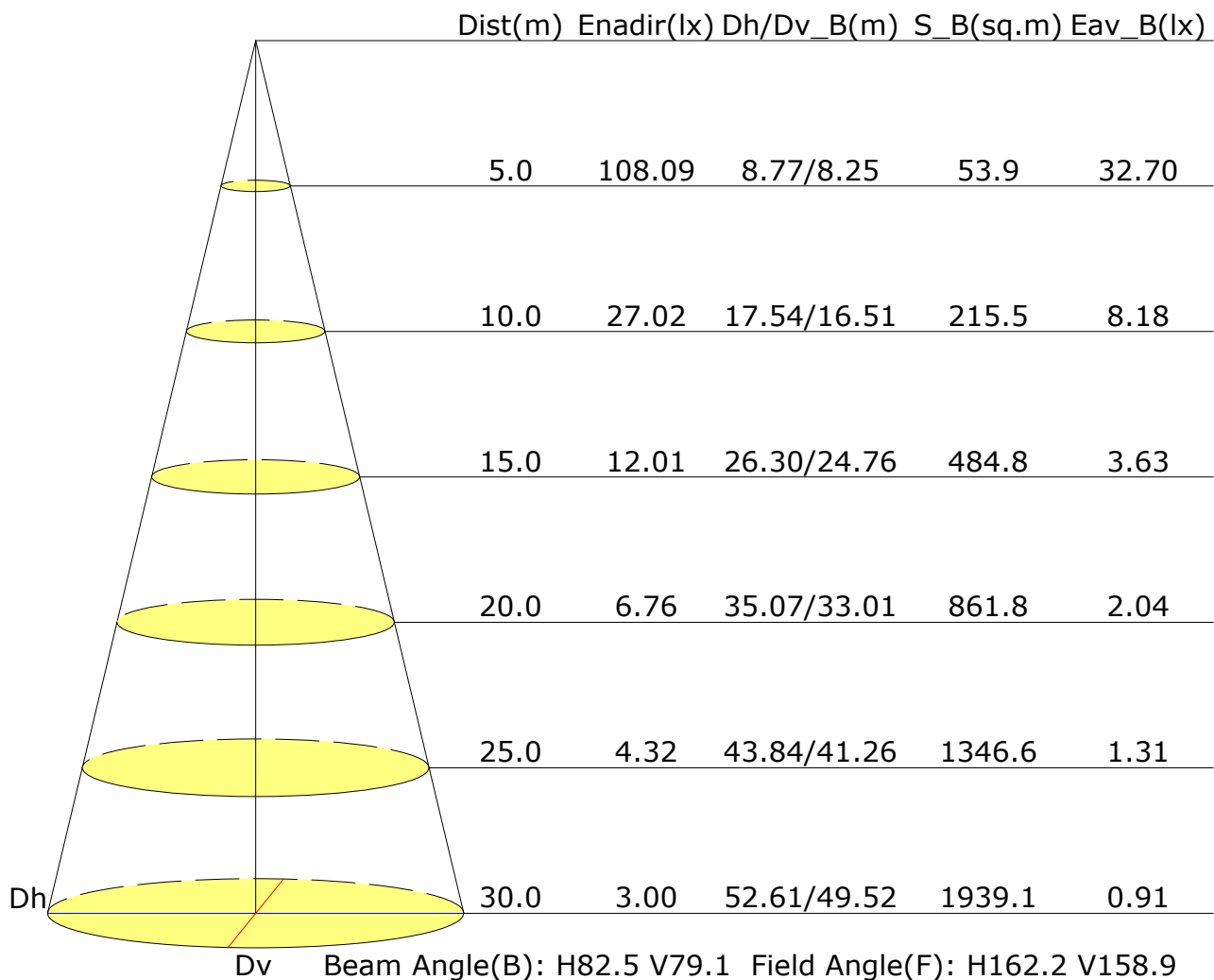
Test Device: LSG-1800B

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	15.1	16.4	15.4	16.6	16.9	15.0	16.3	15.3	16.5	16.8
3H	16.6	17.8	16.9	18.0	18.3	16.4	17.6	16.8	17.9	18.1
4H	17.5	18.6	17.8	18.9	19.2	17.2	18.2	17.5	18.5	18.8
6H	18.3	19.3	18.7	19.7	20.0	17.9	18.9	18.3	19.2	19.6
8H	18.7	19.7	19.0	20.0	20.3	18.2	19.2	18.6	19.5	19.9
12H	18.9	19.9	19.3	20.2	20.5	18.4	19.4	18.8	19.7	20.1
X=4H Y=2H	15.6	16.7	15.9	17.0	17.3	15.5	16.6	15.8	16.9	17.2
3H	17.3	18.2	17.7	18.6	18.9	17.1	18.1	17.5	18.4	18.8
4H	18.3	19.2	18.7	19.5	19.9	18.0	18.8	18.4	19.2	19.6
6H	19.3	20.1	19.8	20.5	20.9	18.9	19.6	19.3	20.0	20.4
8H	19.8	20.5	20.2	20.9	21.3	19.3	20.0	19.7	20.4	20.8
12H	20.1	20.7	20.5	21.1	21.6	19.6	20.2	20.0	20.6	21.1
X=8H Y=4H	18.6	19.3	19.0	19.7	20.1	18.3	19.0	18.7	19.4	19.8
6H	19.8	20.3	20.2	20.8	21.2	19.3	19.9	19.8	20.3	20.8
8H	20.3	20.8	20.8	21.3	21.7	19.8	20.3	20.3	20.8	21.3
12H	20.7	21.1	21.2	21.6	22.1	20.2	20.7	20.7	21.1	21.6
X=12H Y=4H	18.6	19.2	19.1	19.7	20.1	18.3	19.0	18.8	19.4	19.8
6H	19.8	20.3	20.3	20.8	21.3	19.4	19.9	19.9	20.4	20.9
8H	20.4	20.8	20.9	21.3	21.8	19.9	20.4	20.4	20.9	21.4
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					+0.3/-0.7				
S=2.0H	+0.7/-0.9					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5420lm ($8\log(F/F_0) = 5.9$).

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:

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	0.76	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	0.91	0.93	0.97	1.00	
	0.30		0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.94	0.97	
	0.20		0.50	0.59	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		0.54	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	0.56	0.62	0.66	0.72	0.77	0.80	0.84	0.87	
Rating:43W 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	0.76	0.65	0.57	0.45	0.38	0.33	0.26	0.21	
	0.30		0.76	0.65	0.56	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.65	0.57	0.50	0.45	0.37	0.32	0.28	0.23	0.19	
0.50	0.50	0.20	0.88	0.72	0.62	0.54	0.43	0.40	0.31	0.24	0.20	
	0.30		0.74	0.63	0.55	0.48	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	0.85	0.70	0.59	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	0.35	0.30	0.26	0.21	0.18	
0.00	0.00	0.00	0.53	0.44	0.38	0.34	0.28	0.23	0.20	0.16	0.13	
Rating:43W 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:43W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												