

Report No.: 1

Test Time: 30.10.2019 19:16

Luminaire Property

Luminaire Manufacturer:

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

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.2 V

Current: 0.157 A

Power: 34.09 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 4392.4 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4392.4 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.9, 160.8, 158.9, 158.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.9, 116.7, 116.9, 116.8

Luminaire Efficacy Rating (LER): 128.90

Central Intensity: 1480.57 cd

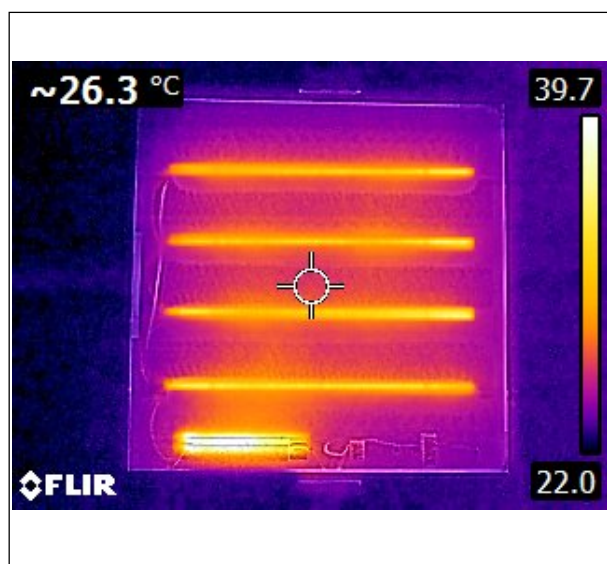
Max. Intensity: 1483.27 cd

Pos of Max. Intensity: H45 V2

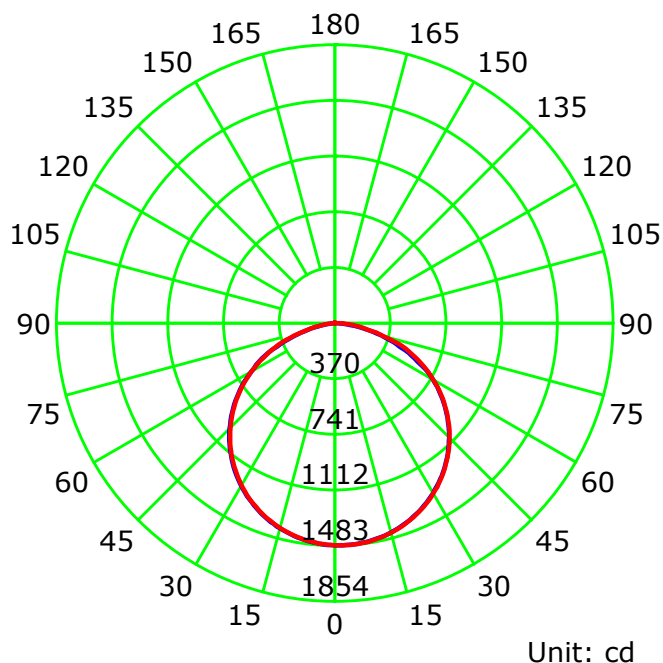
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.28

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

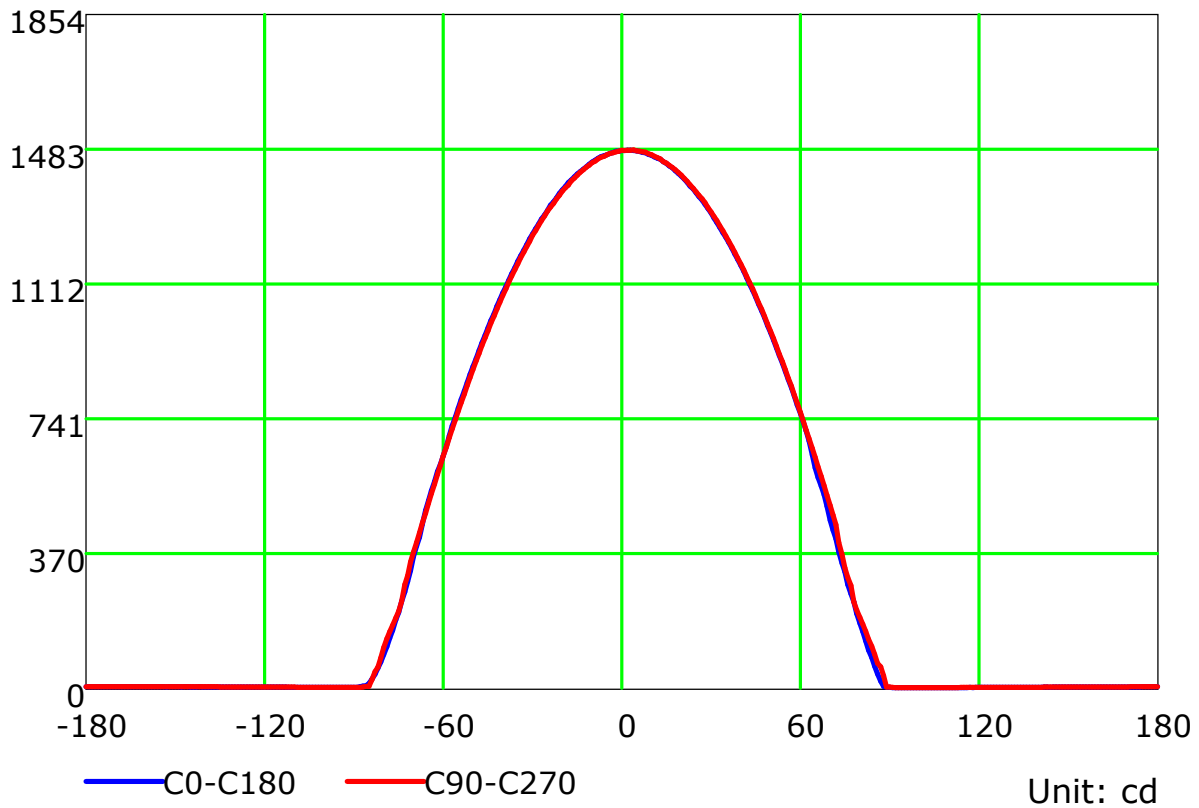
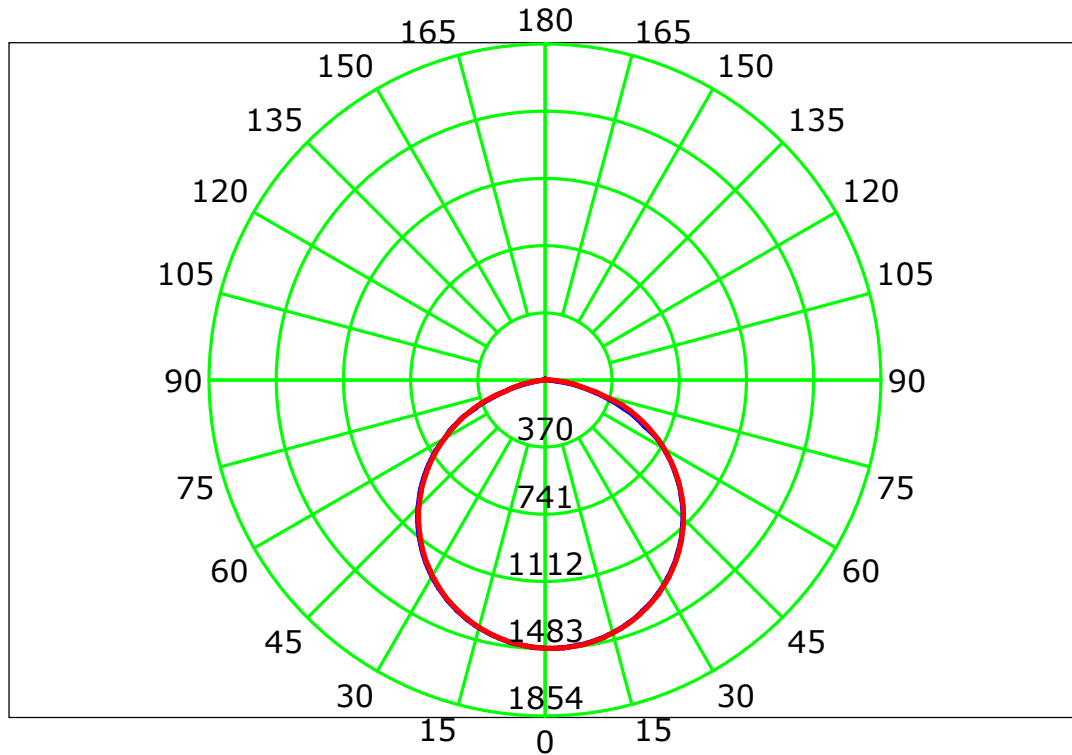
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

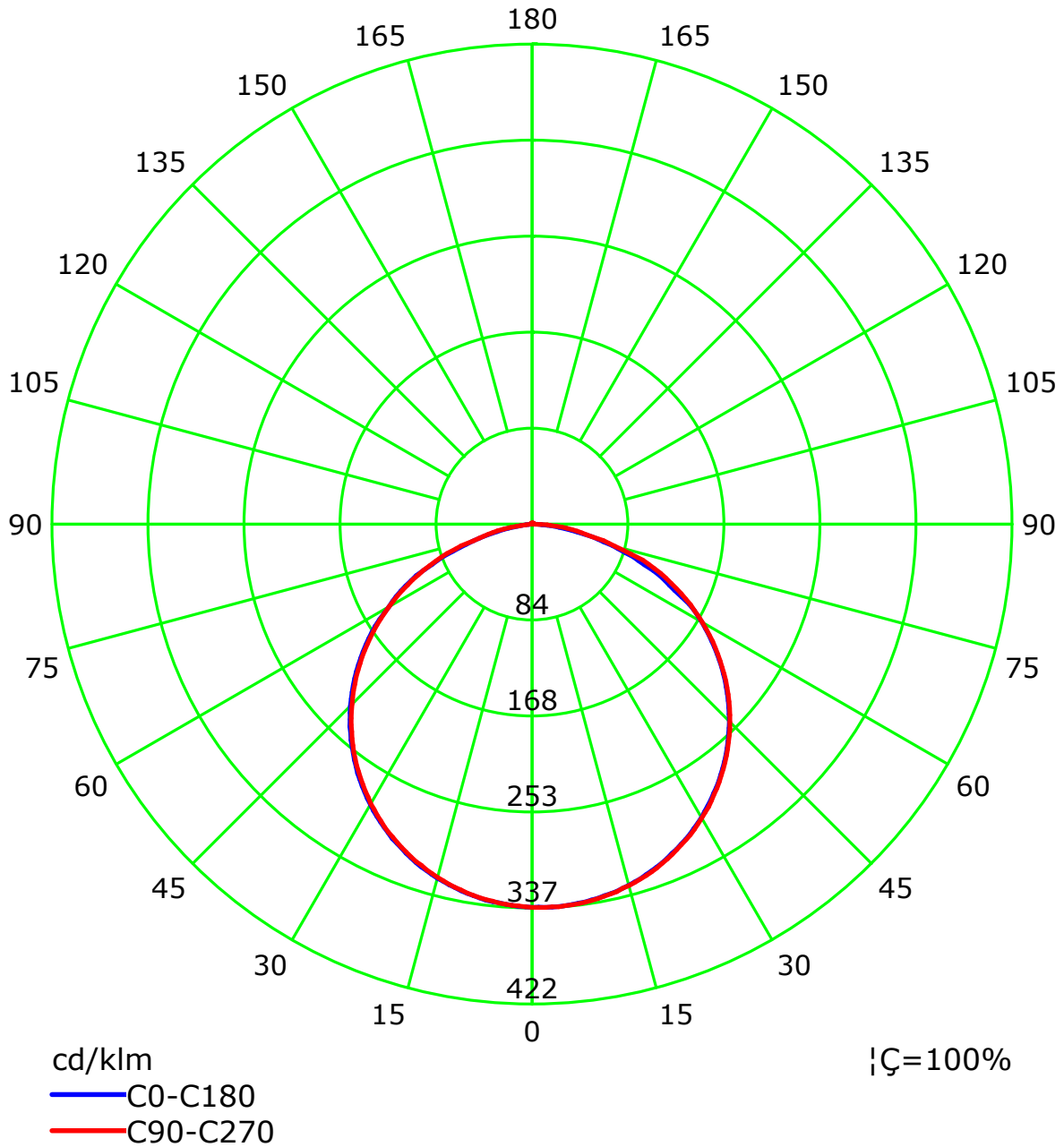
Luminous Intensity Distribution Curve



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:

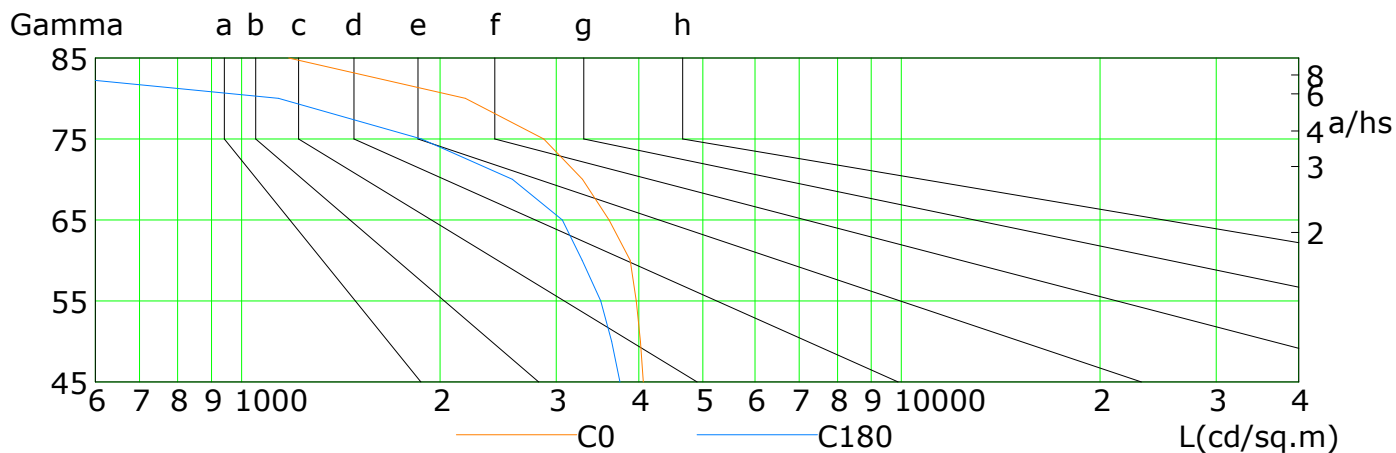
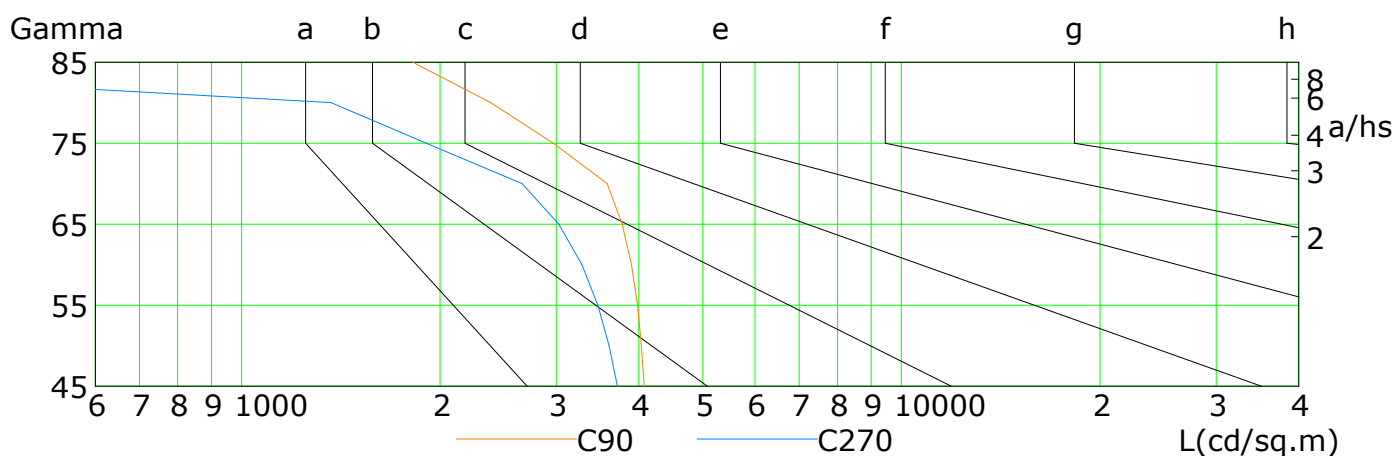
Luminous Intensity Distribution Curve(cd/klm)



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

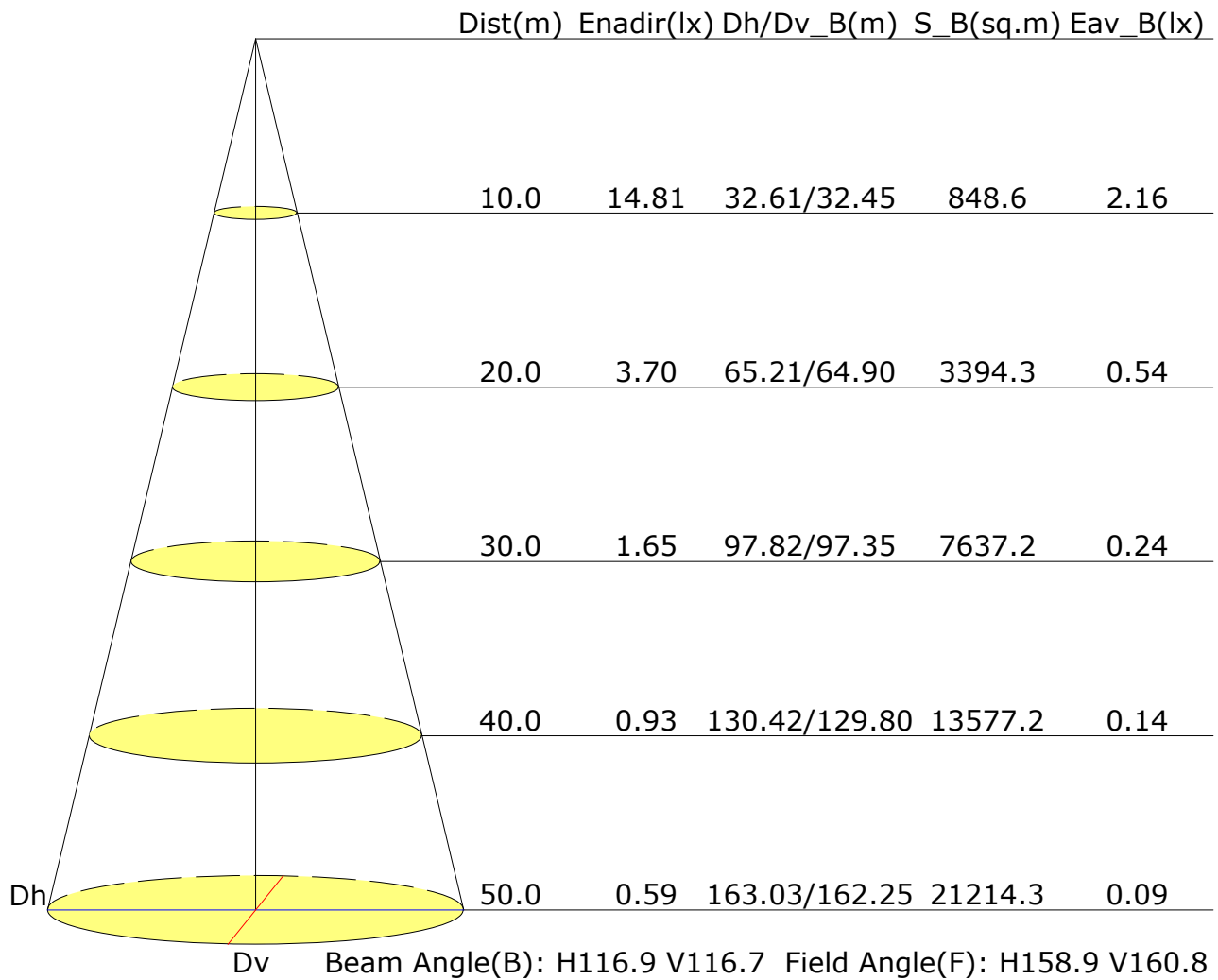


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4064	4022	3964	3882	3604	3288	2870	2183	1178
C90	4078	4036	3983	3897	3775	3581	2968	2384	1817
C180	3744	3638	3503	3282	3065	2574	1875	1137	272
C270	3712	3606	3466	3280	3024	2662	1906	1366	111

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	17.6	19.0	17.9	19.2	19.5	17.3	18.7	17.6	19.0	19.2
3H	19.1	20.4	19.5	20.7	21.0	18.9	20.2	19.2	20.4	20.7
4H	19.7	20.9	20.1	21.2	21.5	19.4	20.6	19.8	20.9	21.2
6H	20.0	21.2	20.4	21.5	21.8	19.7	20.8	20.1	21.2	21.5
8H	20.1	21.2	20.5	21.5	21.9	19.8	20.9	20.2	21.2	21.5
12H	20.2	21.2	20.5	21.5	21.9	19.8	20.9	20.2	21.2	21.6
X=4H Y=2H	18.3	19.5	18.6	19.7	20.1	18.1	19.3	18.4	19.5	19.9
3H	20.0	21.0	20.4	21.3	21.7	19.8	20.8	20.2	21.2	21.5
4H	20.6	21.6	21.1	21.9	22.3	20.4	21.4	20.8	21.7	22.1
6H	21.1	21.9	21.5	22.3	22.7	20.8	21.6	21.3	22.0	22.4
8H	21.2	22.0	21.7	22.4	22.8	20.9	21.7	21.4	22.1	22.5
12H	21.3	21.9	21.7	22.4	22.8	21.0	21.7	21.5	22.1	22.6
X=8H Y=4H	20.9	21.6	21.3	22.0	22.5	20.7	21.5	21.2	21.9	22.3
6H	21.4	22.0	21.9	22.5	23.0	21.2	21.8	21.7	22.3	22.7
8H	21.6	22.1	22.1	22.6	23.1	21.4	21.9	21.9	22.4	22.9
12H	21.7	22.2	22.2	22.6	23.2	21.5	21.9	22.0	22.4	22.9
X=12H Y=4H	20.9	21.6	21.4	22.0	22.5	20.7	21.4	21.2	21.8	22.3
6H	21.5	22.0	22.0	22.5	23.0	21.2	21.8	21.7	22.2	22.7
8H	21.7	22.1	22.2	22.6	23.1	21.4	21.9	21.9	22.4	22.9
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.5/-0.6				
S=2.0H	+0.6/-0.8					+0.6/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 4392lm ($8\log(F/F_0) = 5.1$).

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 = 1.25									
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	0.56	0.66	0.74	0.79	0.87	0.92	0.96	1.00	1.03	
	0.30		0.48	0.59	0.66	0.72	0.81	0.86	0.91	0.96	1.00	
	0.20		0.42	0.53	0.61	0.67	0.75	0.82	0.86	0.92	0.97	
0.50	0.50	0.20	0.54	0.64	0.71	0.77	0.84	0.88	0.92	0.96	0.99	
	0.30		0.47	0.57	0.65	0.70	0.78	0.84	0.88	0.93	0.96	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.84	0.90	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.63	0.69	0.76	0.81	0.85	0.90	0.93	
	0.20		0.41	0.51	0.59	0.64	0.72	0.78	0.82	0.87	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.69	0.74	0.78	0.83	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 = 1.25									
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	1.01	0.83	0.71	0.61	0.49	0.40	0.34	0.27	0.22	
	0.30		0.84	0.71	0.62	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.42	0.33	0.25	0.20	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.94	0.77	0.65	0.56	0.45	0.37	0.31	0.24	0.20	
	0.30		0.81	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.71	0.60	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.61	0.51	0.43	0.38	0.31	0.26	0.22	0.17	0.14	
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 = 1.25									
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	0.17	0.18	0.19	0.20	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	0.08	0.09	0.12	0.13	0.14	0.16	0.17	
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		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	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	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	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:34W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												