

Report No.: 1

Test Time: 28.10.2019 19:50

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x40LED 0,35A 44W 3000K bez stekla

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.211 A

Power: 46.09 W

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 6561.3 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 6561.3 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.6, 156.2, 155.8, 155.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.0, 117.6, 117.4, 117.4

Luminaire Efficacy Rating (LER): 142.41

Central Intensity: 2232.21 cd

Max. Intensity: 2233.15 cd

Pos of Max. Intensity: H202.5 V1

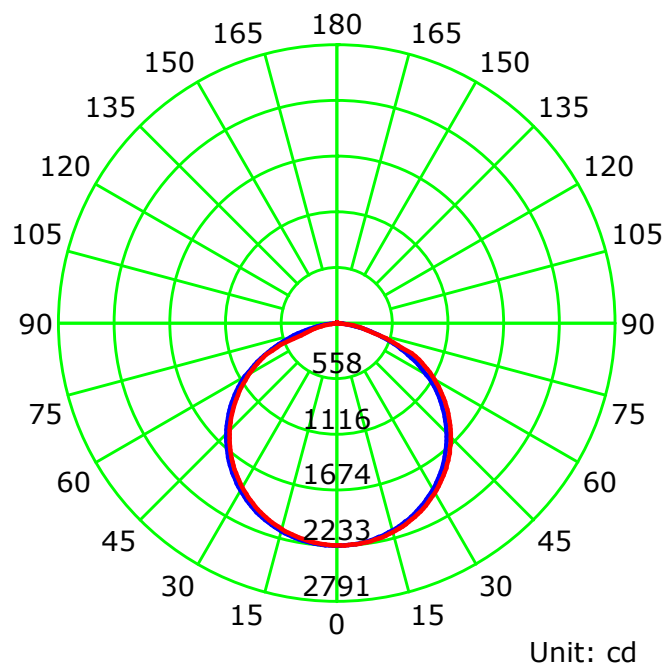
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.29

Picture Of Luminaire



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

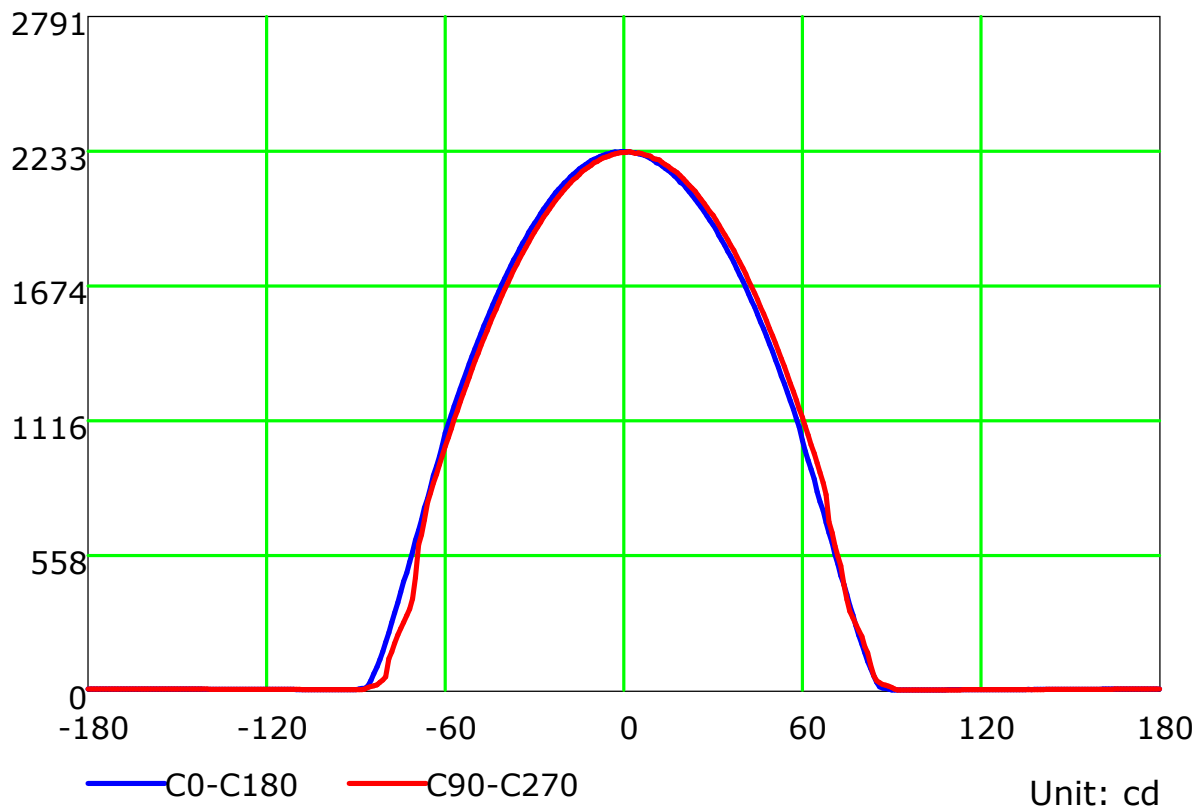
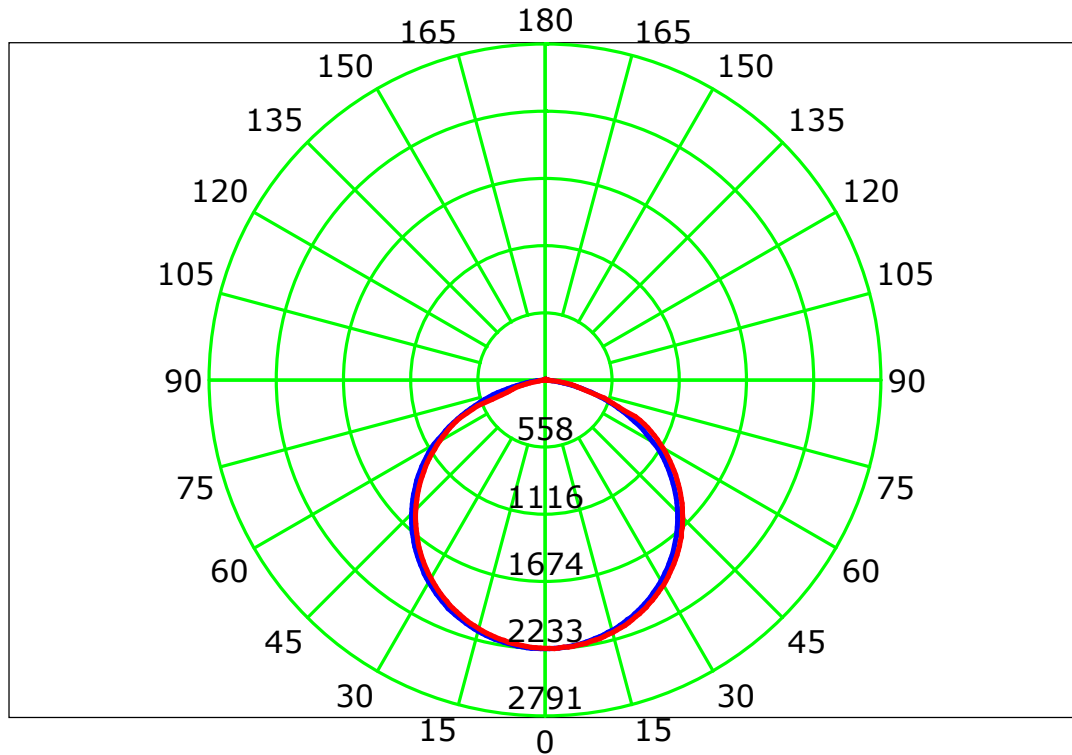
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

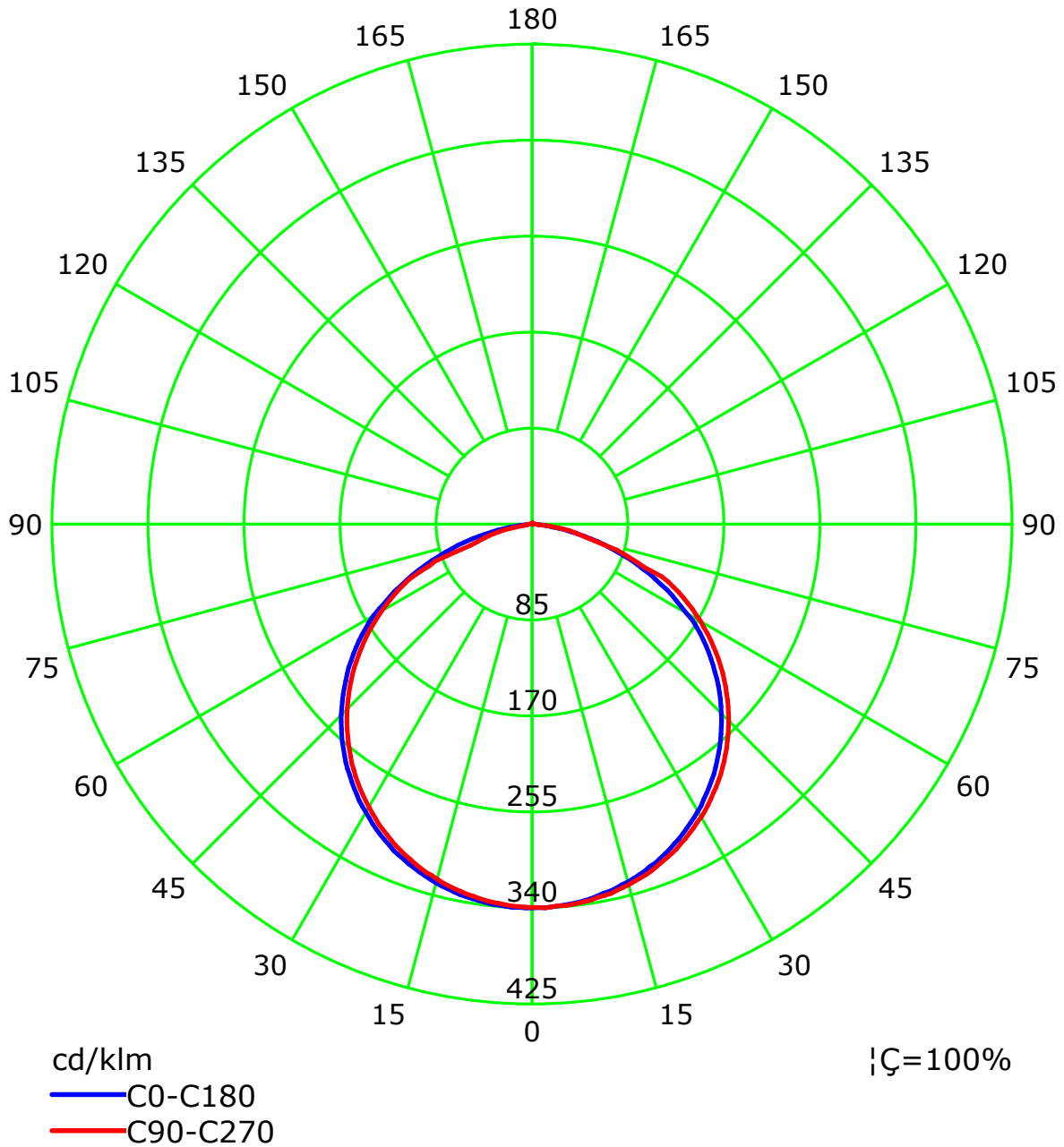
Luminous Intensity Distribution Curve



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)



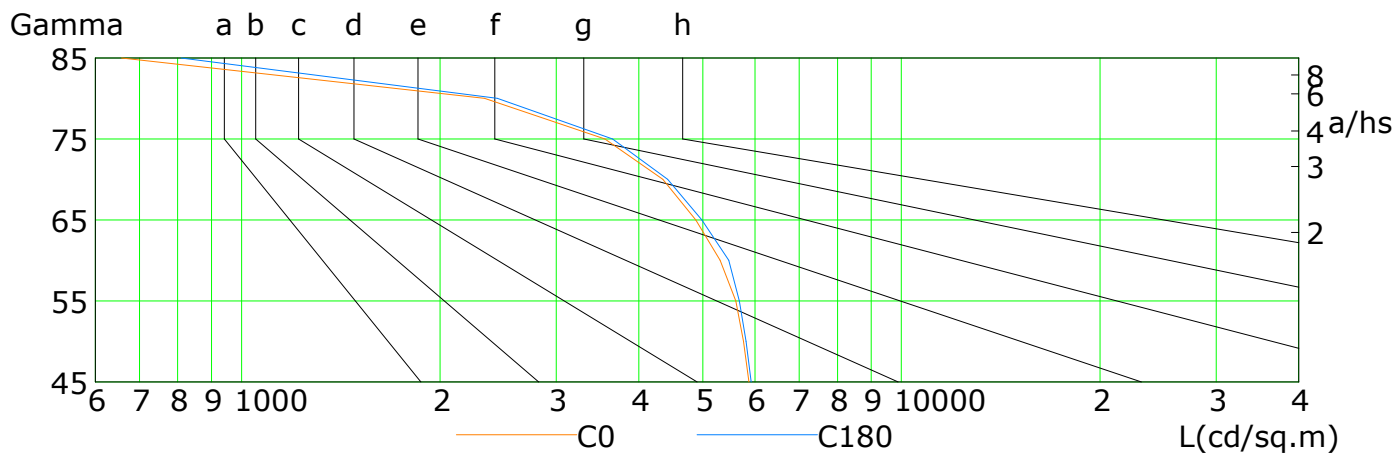
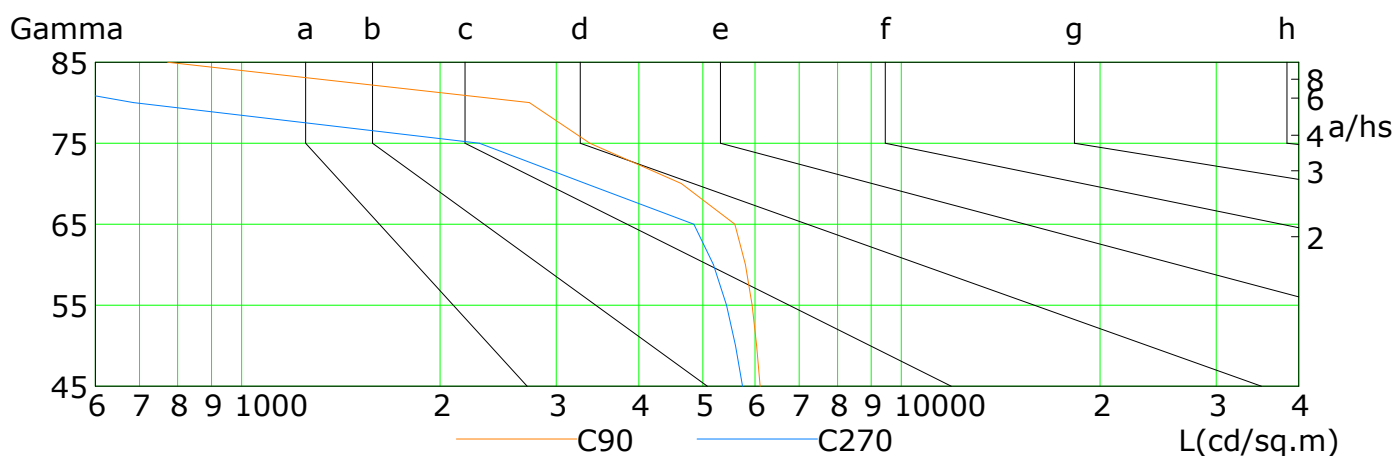
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

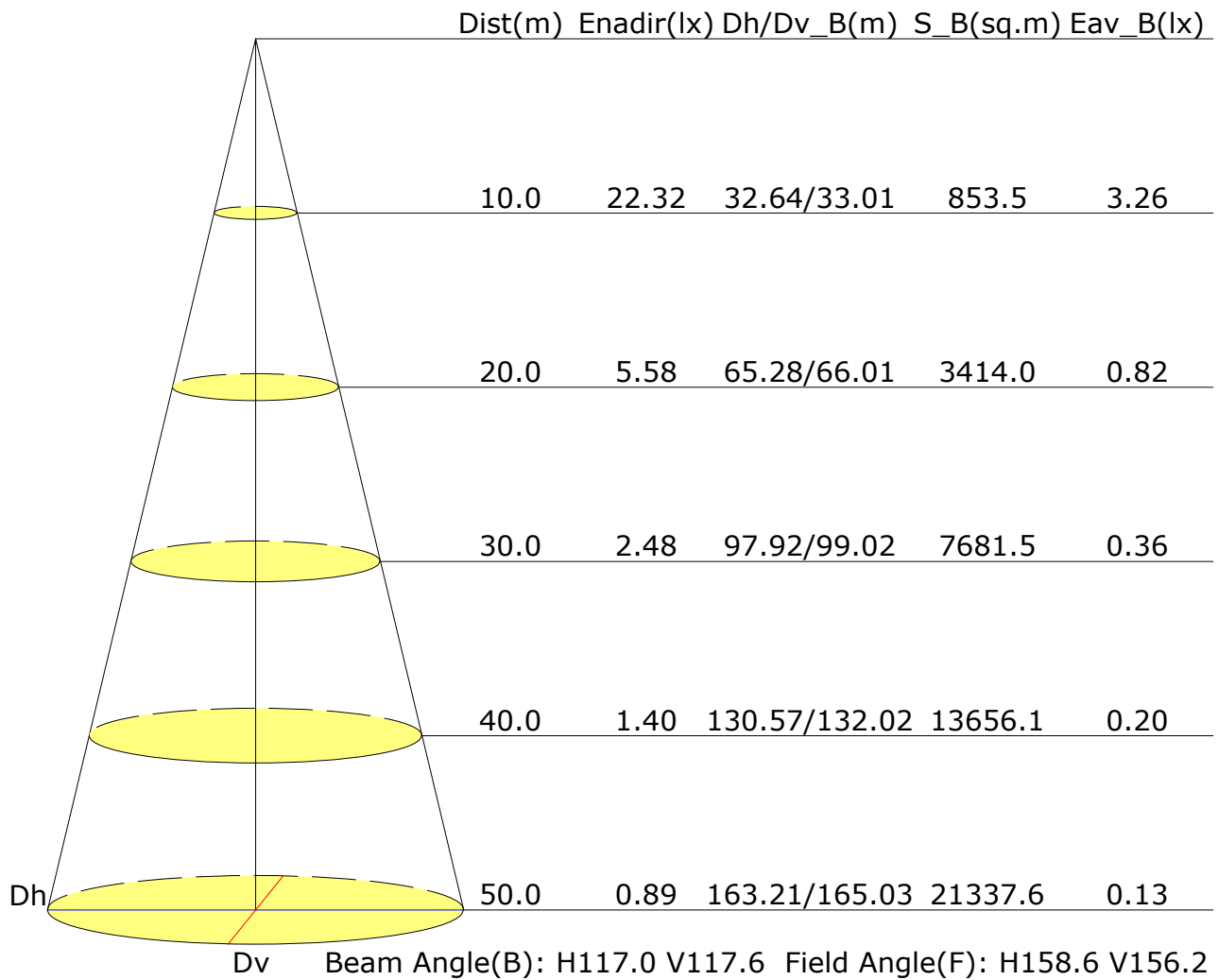


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5874	5762	5613	5311	4882	4351	3552	2334	658
C90	6105	6032	5937	5803	5590	4643	3371	2729	772
C180	5922	5814	5678	5473	4987	4422	3648	2442	810
C270	5741	5606	5432	5187	4849	3324	2294	685	316

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	18.6	20.0	18.9	20.2	20.5	18.7	20.1	19.0	20.4	20.6
3H	20.0	21.3	20.3	21.5	21.8	20.1	21.4	20.5	21.7	21.9
4H	20.5	21.6	20.8	21.9	22.2	20.4	21.6	20.8	21.9	22.2
6H	20.7	21.8	21.1	22.1	22.4	20.6	21.7	20.9	22.0	22.3
8H	20.7	21.8	21.1	22.1	22.4	20.6	21.6	21.0	22.0	22.3
12H	20.7	21.7	21.1	22.1	22.4	20.6	21.6	20.9	21.9	22.3
X=4H Y=2H	19.3	20.5	19.6	20.8	21.1	19.4	20.6	19.7	20.8	21.2
3H	20.8	21.8	21.2	22.2	22.5	20.9	21.9	21.3	22.3	22.6
4H	21.4	22.3	21.8	22.7	23.0	21.3	22.2	21.7	22.6	22.9
6H	21.7	22.5	22.1	22.9	23.3	21.5	22.3	21.9	22.7	23.1
8H	21.7	22.5	22.2	22.9	23.3	21.5	22.3	22.0	22.7	23.1
12H	21.7	22.4	22.2	22.8	23.3	21.5	22.2	22.0	22.6	23.0
X=8H Y=4H	21.5	22.3	22.0	22.7	23.1	21.5	22.2	21.9	22.6	23.0
6H	21.9	22.5	22.4	23.0	23.4	21.7	22.3	22.2	22.8	23.2
8H	22.0	22.5	22.5	23.0	23.5	21.8	22.3	22.3	22.8	23.3
12H	22.0	22.5	22.5	22.9	23.5	21.8	22.2	22.3	22.7	23.2
X=12H Y=4H	21.5	22.2	22.0	22.6	23.1	21.5	22.1	21.9	22.5	23.0
6H	21.9	22.5	22.4	22.9	23.4	21.7	22.2	22.2	22.7	23.2
8H	22.0	22.5	22.5	22.9	23.5	21.8	22.2	22.3	22.7	23.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.4/-0.6				
S=2.0H	+0.6/-0.9					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 6561lm ($8\log(F/F_0) = 6.5$).

C Plane (°):0.0-360.0: 22.5
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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 = 1.25									
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	0.67	0.74	0.80	0.87	0.92	0.96	1.01	1.04	
	0.30		0.48	0.59	0.67	0.73	0.81	0.87	0.91	0.97	1.00	
	0.20		0.42	0.53	0.61	0.67	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.54	0.65	0.72	0.77	0.84	0.89	0.92	0.97	0.99	
	0.30		0.47	0.58	0.65	0.71	0.79	0.84	0.88	0.93	0.96	
	0.20		0.42	0.53	0.60	0.66	0.75	0.80	0.85	0.90	0.94	
0.30	0.50	0.20	0.53	0.63	0.70	0.74	0.81	0.86	0.89	0.93	0.95	
	0.30		0.47	0.57	0.64	0.69	0.77	0.82	0.85	0.90	0.93	
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.88	0.91	
0.00	0.00	0.00	0.39	0.49	0.57	0.62	0.70	0.75	0.78	0.83	0.86	
Rating:46W 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	1.00	0.82	0.70	0.60	0.48	0.39	0.34	0.26	0.21	
	0.30		0.84	0.70	0.61	0.54	0.43	0.36	0.31	0.24	0.20	
	0.20		0.72	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.97	0.79	0.67	0.58	0.46	0.41	0.32	0.24	0.20	
	0.30		0.82	0.69	0.59	0.52	0.42	0.35	0.30	0.23	0.19	
	0.20		0.71	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.94	0.76	0.64	0.56	0.44	0.36	0.30	0.23	0.19	
	0.30		0.80	0.67	0.57	0.50	0.40	0.34	0.29	0.22	0.18	
	0.20		0.70	0.60	0.52	0.46	0.38	0.31	0.27	0.21	0.18	
0.00	0.00	0.00	0.60	0.50	0.43	0.37	0.30	0.25	0.21	0.16	0.13	
Rating:46W 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	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.20	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.17	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	0.16	0.17	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	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:46W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												