

Report No.: 1

Test Time: 05.11.2019 22:46

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x40LED 0,35A 44W 3000K bez stekla

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.0 V

Current: 0.211 A

Power: 45.97 W

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 6398.1 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 6398.1 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.1, 144.7, 152.7, 154.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.2, 113.8, 117.1, 116.4

Luminaire Efficacy Rating (LER): 139.23

Central Intensity: 2277.57 cd

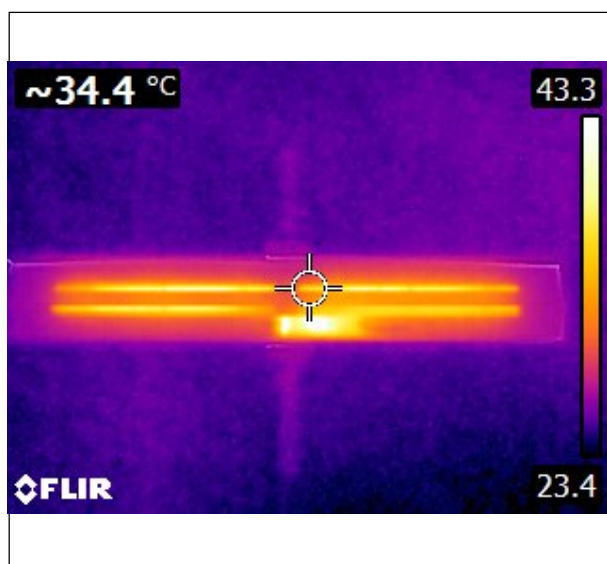
Max. Intensity: 2283.89 cd

Pos of Max. Intensity: H135 V1

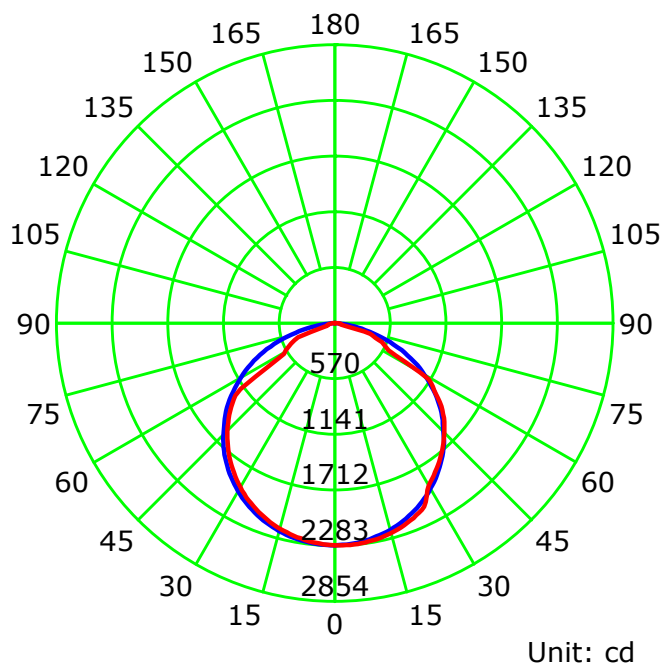
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.26

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

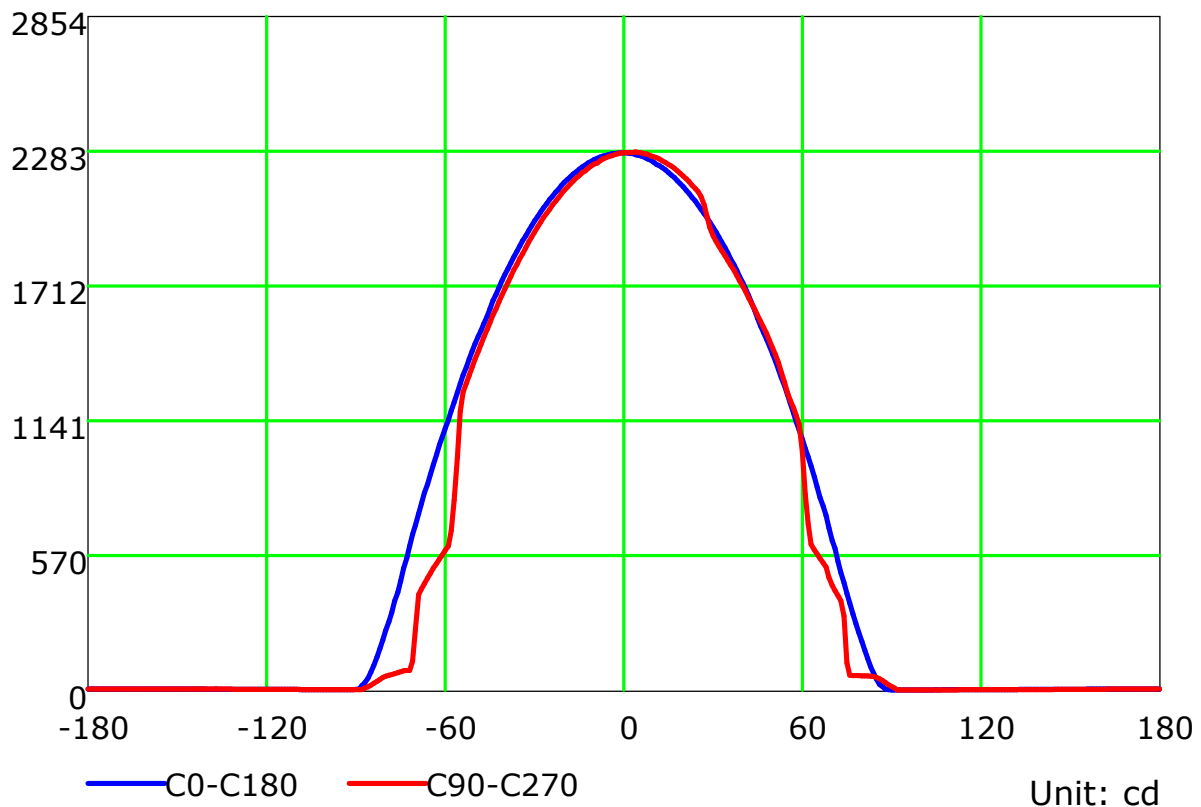
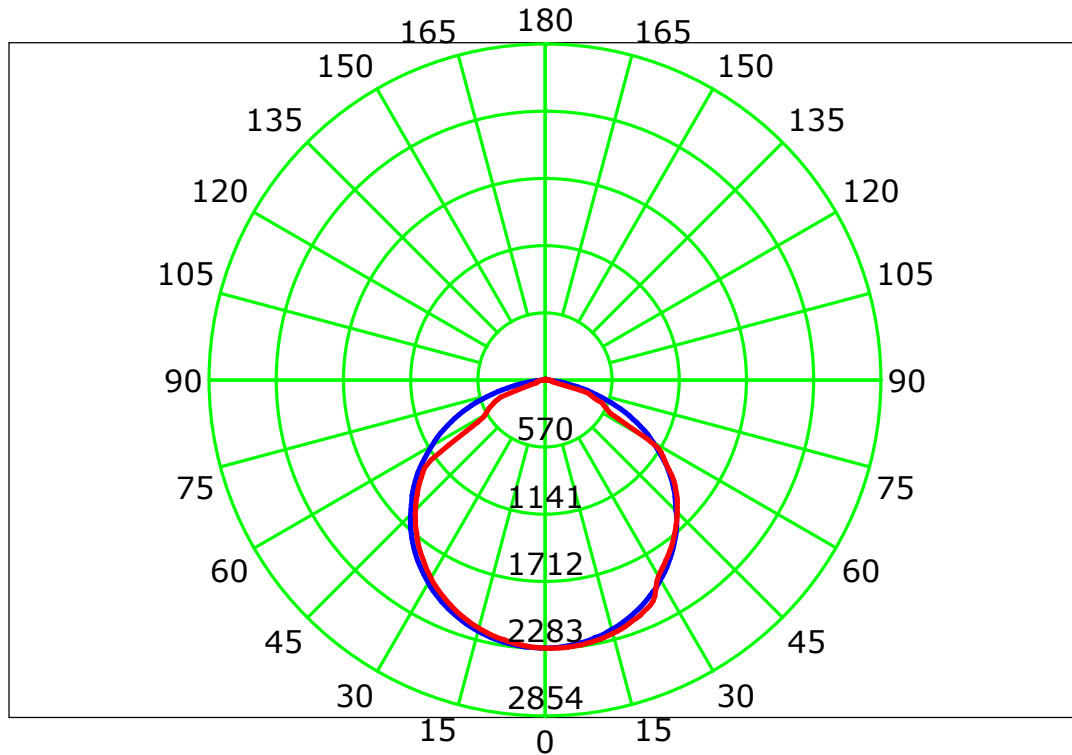
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

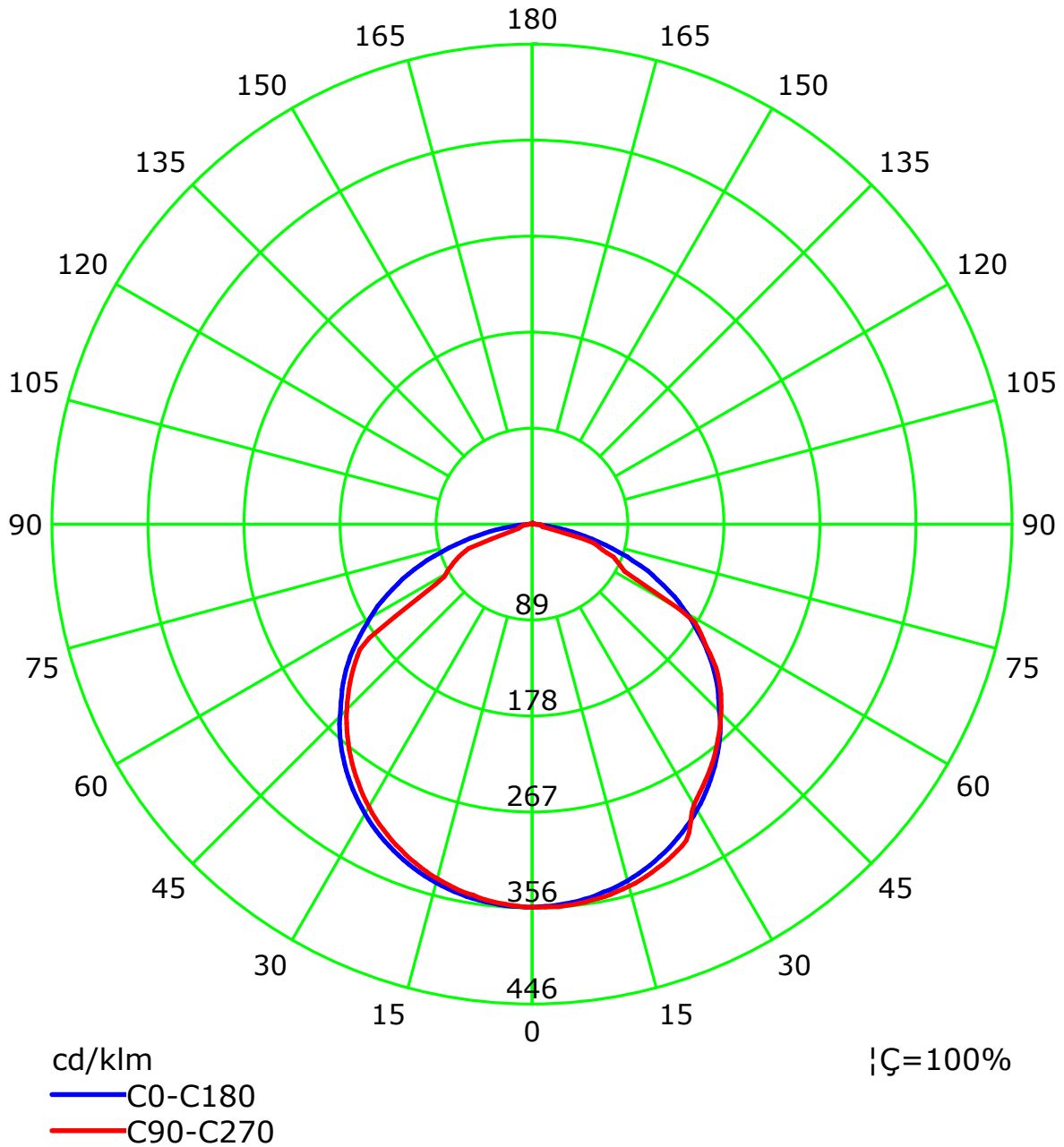
Luminous Intensity Distribution Curve



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)

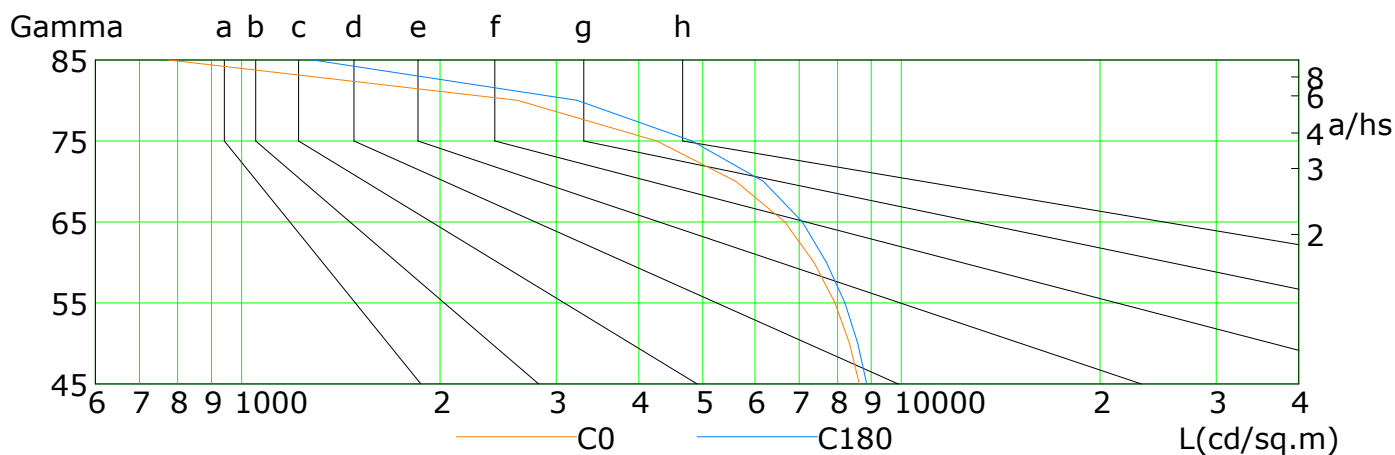
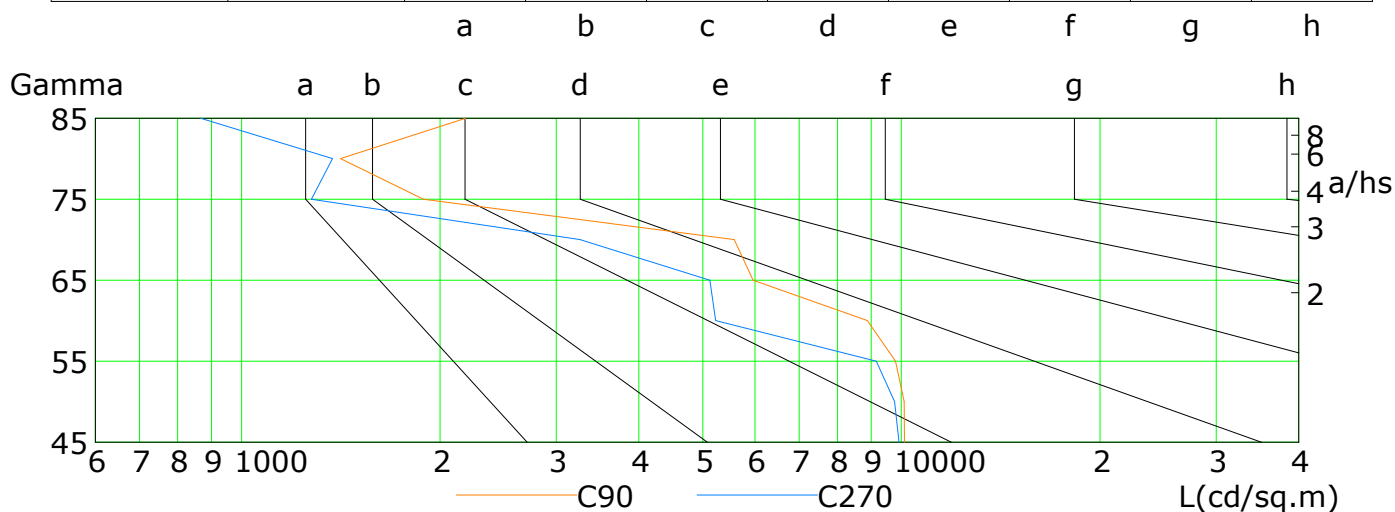


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

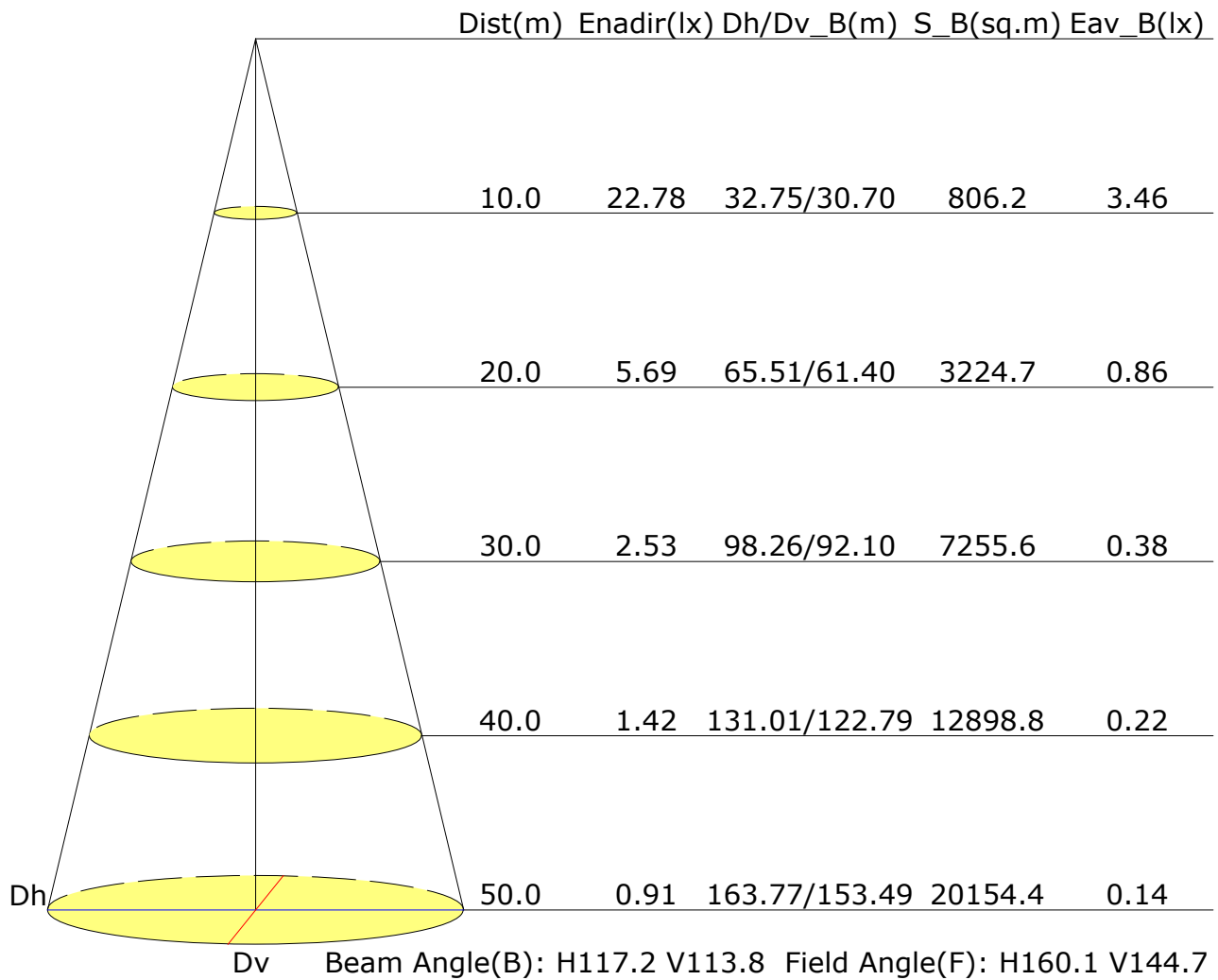


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8640	8342	7931	7365	6659	5610	4260	2619	776
C90	10107	10099	9794	8883	5958	5583	1885	1413	2187
C180	8863	8584	8214	7693	7082	6180	4816	3225	1283
C270	9921	9761	9164	5230	5127	3257	1276	1374	867

C Plane (°):0.0-360.0: 22.5
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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	20.0	21.4	20.3	21.6	21.9	19.7	21.1	20.0	21.3	21.6
3H	21.4	22.6	21.7	22.9	23.2	20.4	21.7	20.8	21.9	22.2
4H	21.8	23.0	22.2	23.3	23.6	20.6	21.7	20.9	22.0	22.3
6H	22.0	23.0	22.3	23.3	23.7	20.5	21.6	20.9	21.9	22.2
8H	22.0	23.0	22.3	23.3	23.7	20.5	21.5	20.9	21.9	22.2
12H	21.9	22.9	22.3	23.3	23.6	20.5	21.5	20.9	21.8	22.2
X=4H Y=2H	20.6	21.7	20.9	22.0	22.3	20.3	21.4	20.6	21.7	22.0
3H	22.0	23.0	22.4	23.4	23.7	21.1	22.1	21.5	22.4	22.8
4H	22.6	23.4	23.0	23.8	24.2	21.2	22.1	21.6	22.5	22.9
6H	22.8	23.5	23.2	23.9	24.3	21.2	22.0	21.6	22.4	22.8
8H	22.8	23.5	23.2	23.9	24.3	21.2	21.9	21.6	22.3	22.8
12H	22.8	23.4	23.2	23.8	24.3	21.2	21.8	21.7	22.3	22.7
X=8H Y=4H	22.6	23.3	23.0	23.7	24.1	21.3	22.0	21.8	22.5	22.9
6H	22.8	23.4	23.3	23.8	24.3	21.3	21.9	21.8	22.3	22.8
8H	22.9	23.4	23.3	23.8	24.3	21.3	21.8	21.8	22.3	22.8
12H	22.9	23.3	23.4	23.8	24.3	21.4	21.8	21.9	22.3	22.8
X=12H Y=4H	22.6	23.2	23.0	23.6	24.1	21.3	22.0	21.8	22.4	22.8
6H	22.8	23.3	23.3	23.7	24.2	21.3	21.8	21.8	22.3	22.8
8H	22.8	23.3	23.3	23.7	24.3	21.3	21.8	21.8	22.2	22.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.4/-0.6				
S=1.5H	+0.4/-0.7					+1.2/-1.8				
S=2.0H	+0.8/-1.2					+1.9/-2.1				

Calculate in accordance with CIE Pub.117. The table is revised with 6398lm ($8\log(F/F_0) = 6.4$).

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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	0.58	0.69	0.76	0.82	0.89	0.94	0.97	1.02	1.05	
	0.30		0.50	0.61	0.69	0.75	0.83	0.89	0.93	0.98	1.01	
	0.20		0.44	0.55	0.63	0.70	0.78	0.84	0.89	0.94	0.98	
0.50	0.50	0.20	0.56	0.67	0.74	0.79	0.86	0.90	0.94	0.98	1.00	
	0.30		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
	0.20		0.44	0.55	0.63	0.68	0.77	0.82	0.86	0.92	0.95	
0.30	0.50	0.20	0.55	0.65	0.71	0.76	0.83	0.87	0.90	0.94	0.96	
	0.30		0.48	0.59	0.66	0.71	0.79	0.84	0.87	0.91	0.94	
	0.20		0.44	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.41	0.52	0.59	0.64	0.72	0.76	0.80	0.85	0.87	
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	0.99	0.80	0.68	0.59	0.46	0.38	0.33	0.25	0.20	
	0.30		0.82	0.69	0.59	0.52	0.42	0.35	0.30	0.24	0.19	
	0.20		0.71	0.60	0.52	0.47	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.95	0.77	0.65	0.56	0.44	0.40	0.31	0.24	0.19	
	0.30		0.81	0.67	0.57	0.50	0.40	0.34	0.29	0.22	0.18	
	0.20		0.70	0.59	0.51	0.46	0.37	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.92	0.74	0.62	0.54	0.42	0.35	0.29	0.22	0.18	
	0.30		0.79	0.65	0.56	0.49	0.39	0.32	0.28	0.22	0.18	
	0.20		0.69	0.58	0.51	0.45	0.36	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.59	0.48	0.41	0.36	0.29	0.24	0.20	0.15	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	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.19	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	0.09	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	0.18	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:46W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												