

Report No.: 1

Test Time: 30.10.2019 22:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x24LED 0,35A 37W 3000K bez stekla

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.4 V

Current: 0.174 A

Power: 37.38 W

Power Factor: 0.970

Photometric Results

CIE Class: Direct

Measurement Flux: 4702.9 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4702.9 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.7, 159.7, 158.5, 158.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.9, 116.8, 117.0, 116.9

Luminaire Efficacy Rating (LER): 125.86

Central Intensity: 1586.57 cd

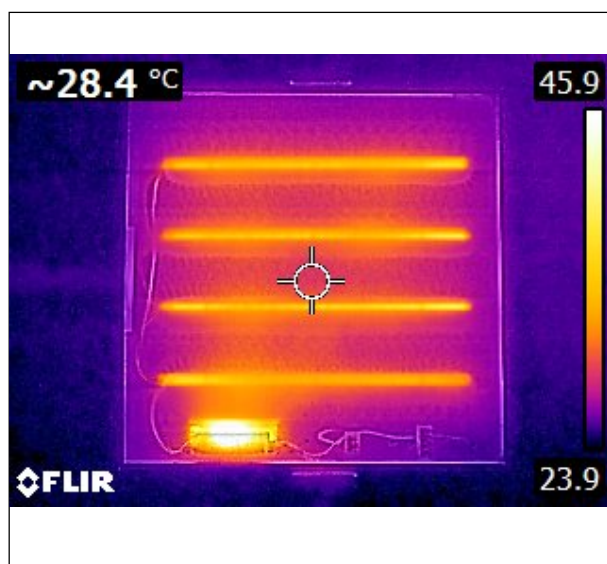
Max. Intensity: 1594.24 cd

Pos of Max. Intensity: H22.5 V5

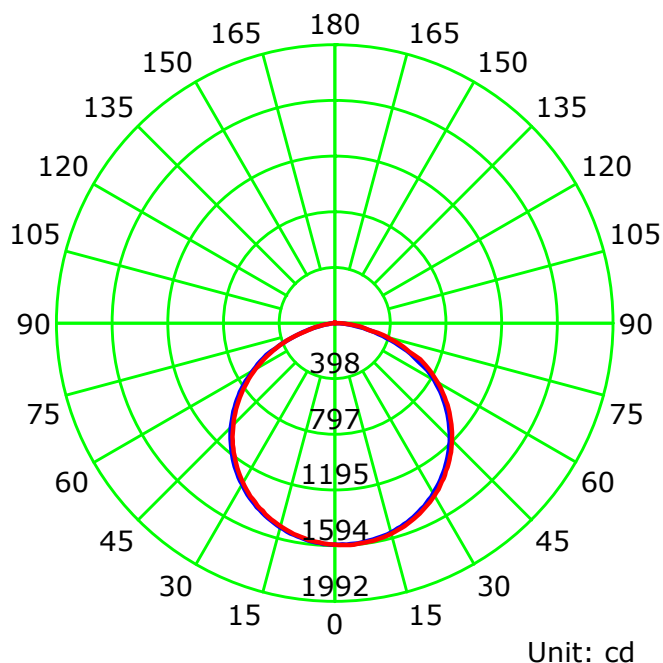
S/MH(C0/C180): 1.28

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

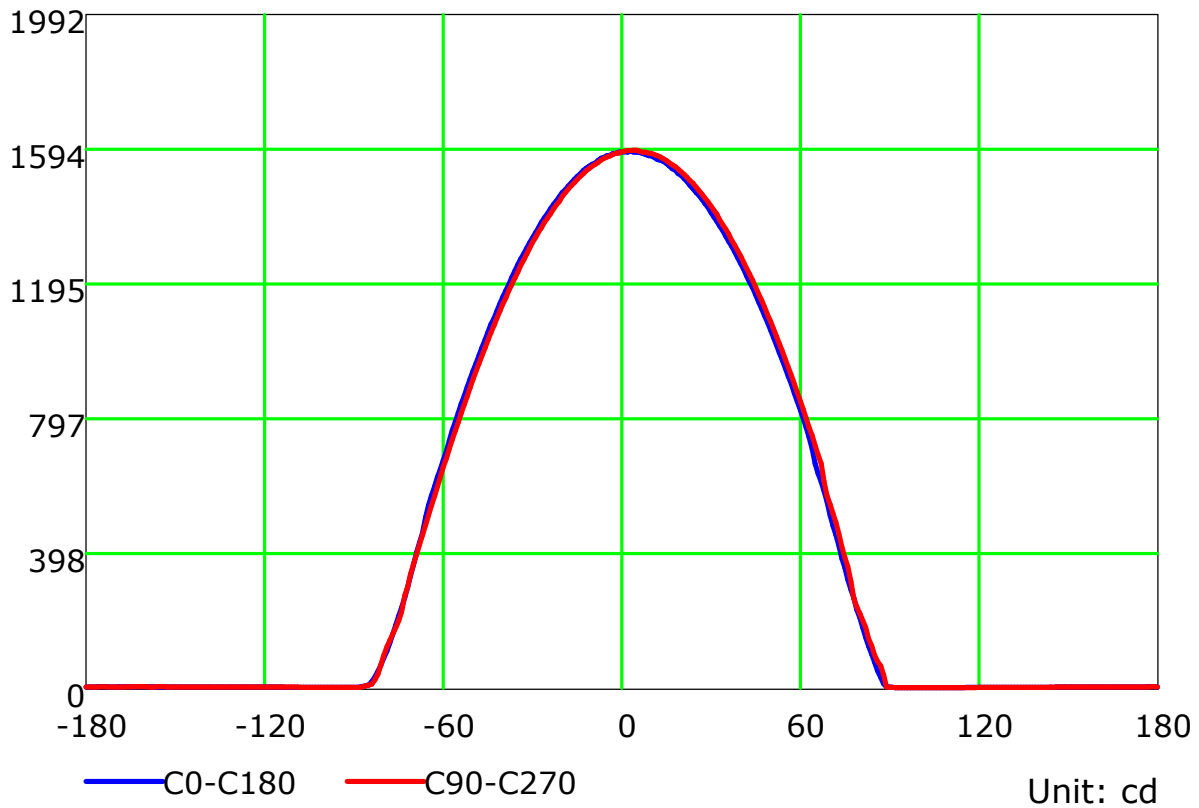
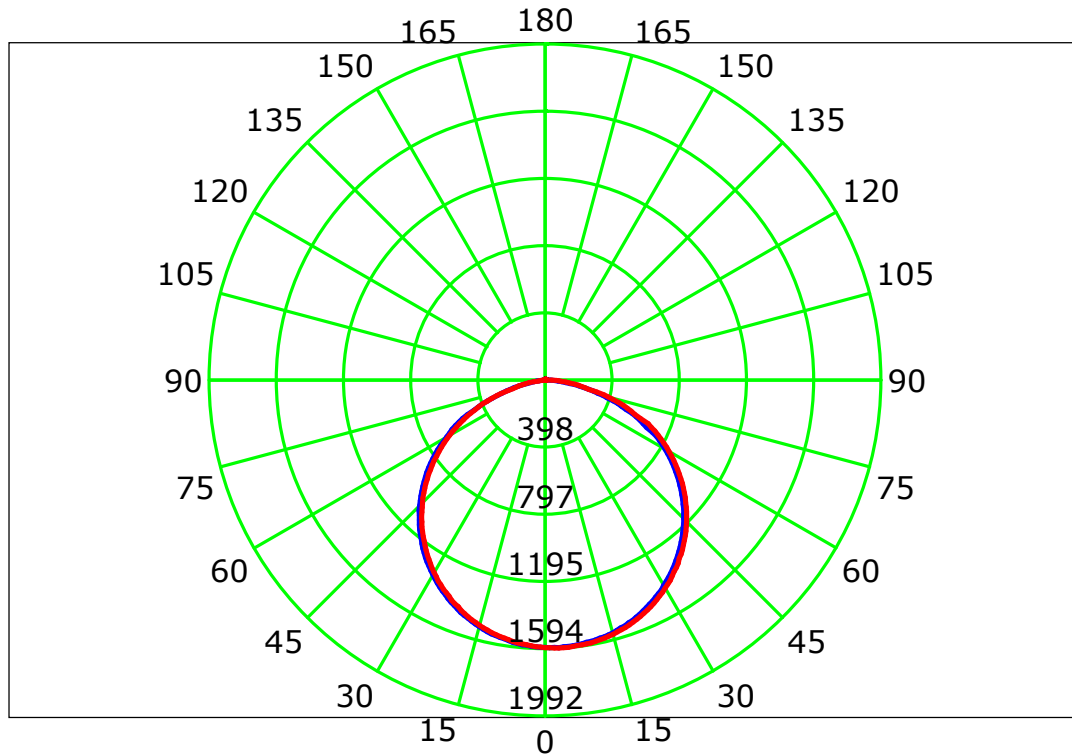
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

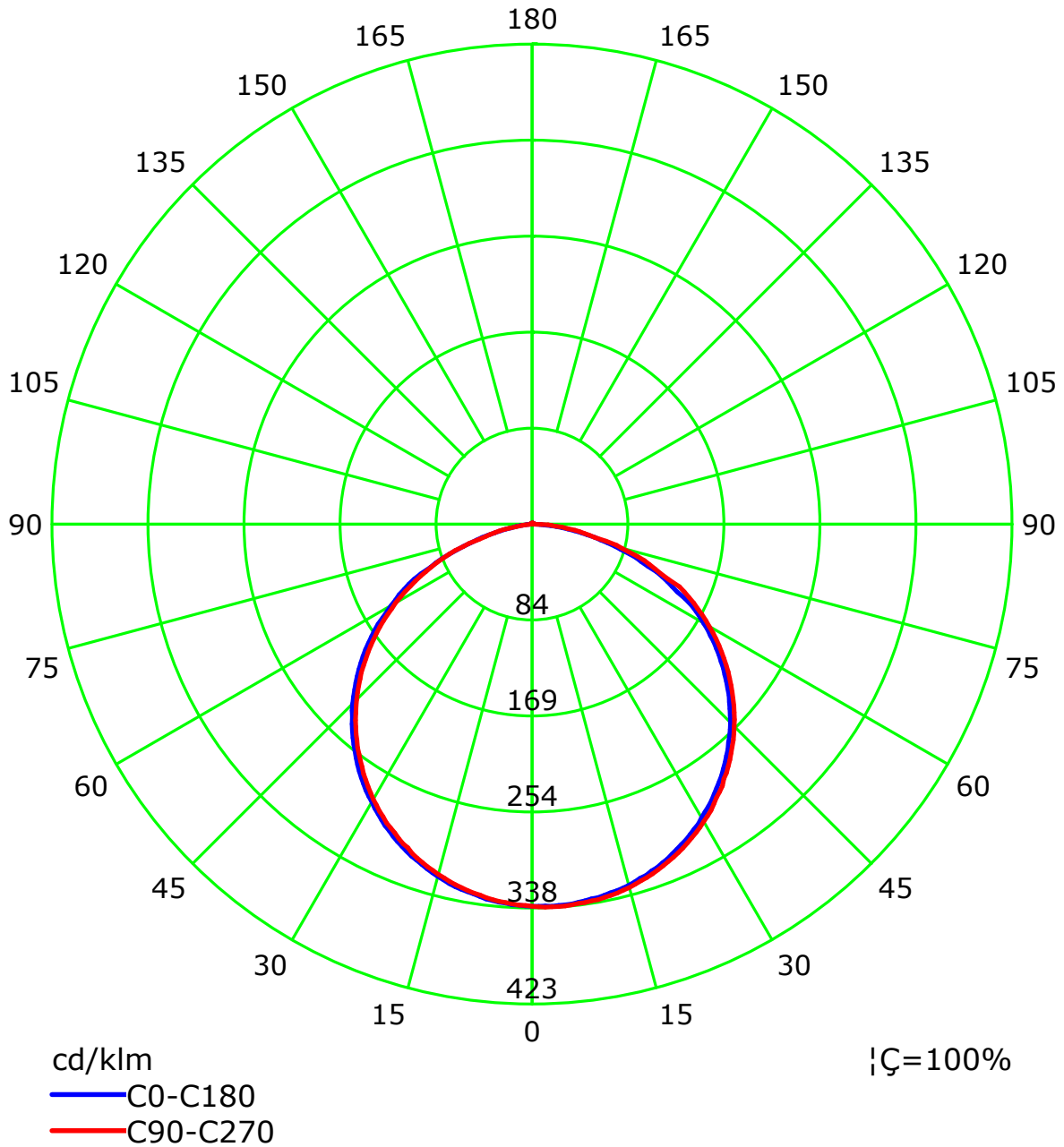
Luminous Intensity Distribution Curve



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)

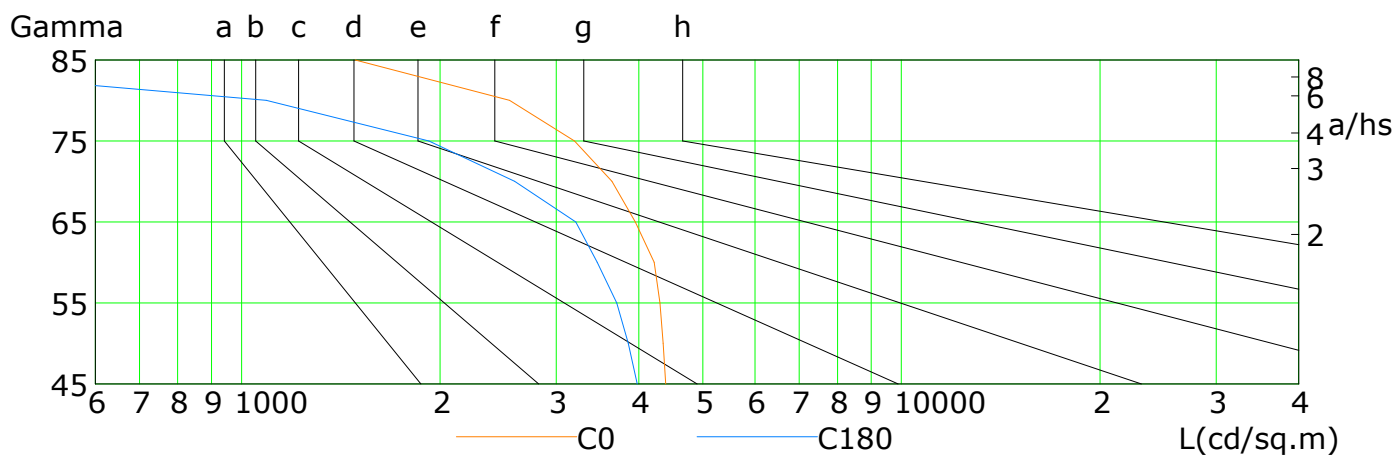
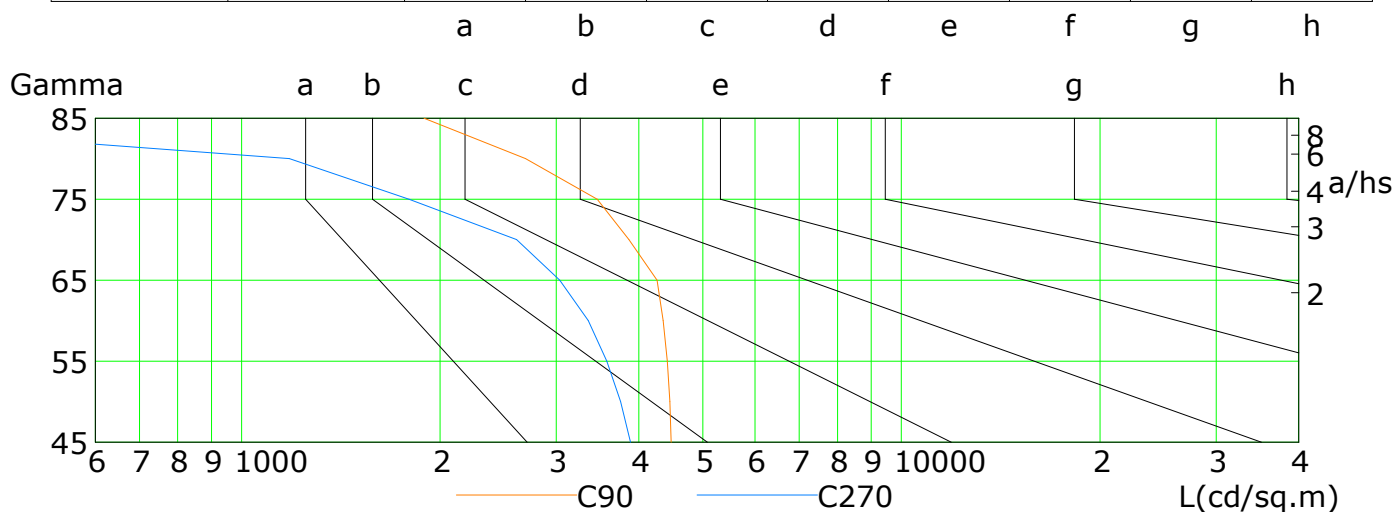


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

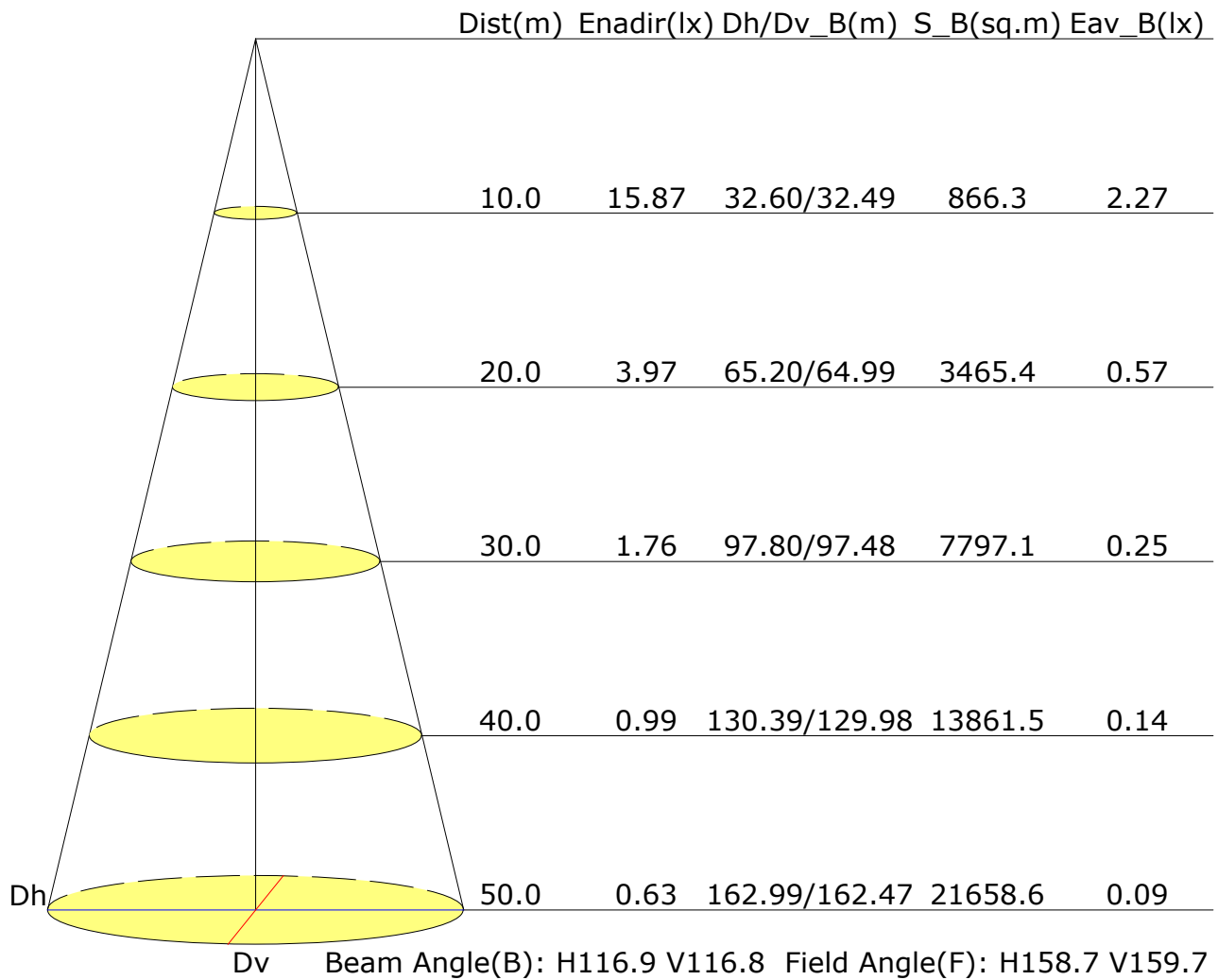


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4394	4353	4304	4219	3950	3641	3194	2547	1487
C90	4479	4457	4418	4356	4264	3866	3460	2693	1890
C180	3977	3853	3701	3461	3211	2592	1922	1090	218
C270	3886	3752	3578	3354	3035	2611	1793	1182	184

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	17.9	19.3	18.2	19.6	19.8	17.6	19.0	17.9	19.3	19.5
3H	19.5	20.8	19.9	21.1	21.3	19.2	20.4	19.5	20.7	21.0
4H	20.1	21.3	20.5	21.6	21.9	19.7	20.9	20.1	21.2	21.5
6H	20.5	21.6	20.9	21.9	22.2	20.0	21.1	20.4	21.4	21.8
8H	20.6	21.6	21.0	22.0	22.3	20.1	21.2	20.5	21.5	21.8
12H	20.6	21.6	21.0	22.0	22.3	20.1	21.1	20.5	21.5	21.8
X=4H Y=2H	18.6	19.8	19.0	20.1	20.4	18.4	19.6	18.7	19.9	20.2
3H	20.4	21.4	20.8	21.7	22.1	20.1	21.1	20.5	21.5	21.8
4H	21.1	22.0	21.5	22.3	22.7	20.7	21.7	21.2	22.0	22.4
6H	21.5	22.4	22.0	22.7	23.2	21.1	21.9	21.6	22.3	22.8
8H	21.7	22.4	22.1	22.8	23.3	21.2	22.0	21.7	22.4	22.8
12H	21.7	22.4	22.2	22.8	23.3	21.3	22.0	21.8	22.4	22.9
X=8H Y=4H	21.3	22.1	21.8	22.5	22.9	21.0	21.8	21.5	22.2	22.6
6H	21.9	22.5	22.4	23.0	23.4	21.5	22.1	22.0	22.6	23.1
8H	22.1	22.6	22.6	23.1	23.6	21.7	22.2	22.2	22.7	23.2
12H	22.2	22.7	22.7	23.2	23.7	21.8	22.3	22.3	22.8	23.3
X=12H Y=4H	21.3	22.0	21.8	22.4	22.9	21.0	21.7	21.5	22.1	22.6
6H	21.9	22.5	22.4	22.9	23.4	21.6	22.1	22.1	22.6	23.1
8H	22.2	22.6	22.7	23.1	23.6	21.8	22.2	22.3	22.7	23.2
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/-0.7				
S=2.0H	+0.5/-0.8					+0.7/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 4703lm ($8\log(F/F_0) = 5.4$).

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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	0.56	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	0.76	0.82	0.86	0.93	0.97	
0.50	0.50	0.20	0.54	0.64	0.71	0.77	0.84	0.89	0.92	0.96	0.99	
	0.30		0.47	0.57	0.65	0.71	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	0.52	0.59	0.65	0.72	0.78	0.82	0.87	0.91	
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:37W 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	0.21	
	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	0.44	0.38	0.31	0.26	0.22	0.17	0.14	
Rating:37W 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	0.11	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	0.12	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:37W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												