

Report No.: 1

Test Time: 29.10.2019 22:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x18LED 0,3A 36W 3000K bez stekla

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.169 A

Power: 36.59 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 4839 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4839.0 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.5, 157.2, 155.6, 156.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.8, 117.2, 117.2, 117.0

Luminaire Efficacy Rating (LER): 132.30

Central Intensity: 1648.73 cd

Max. Intensity: 1649.37 cd

Pos of Max. Intensity: H0 V2

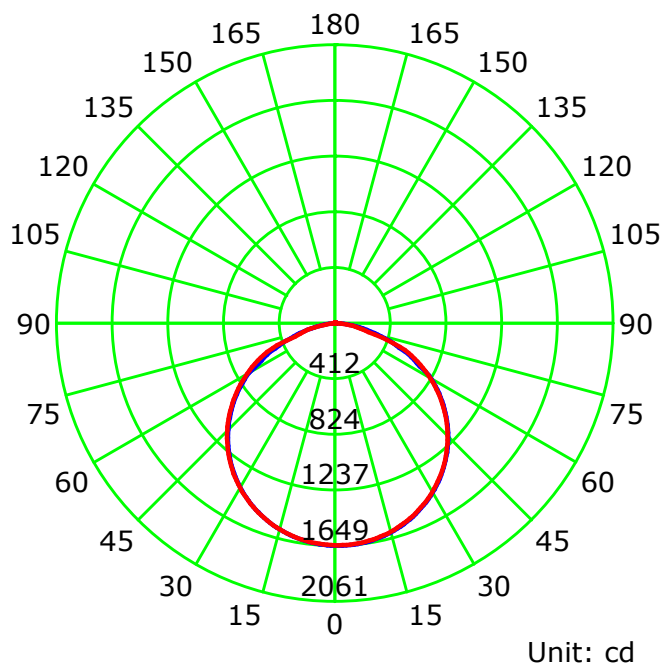
S/MH(C0/C180): 1.29

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

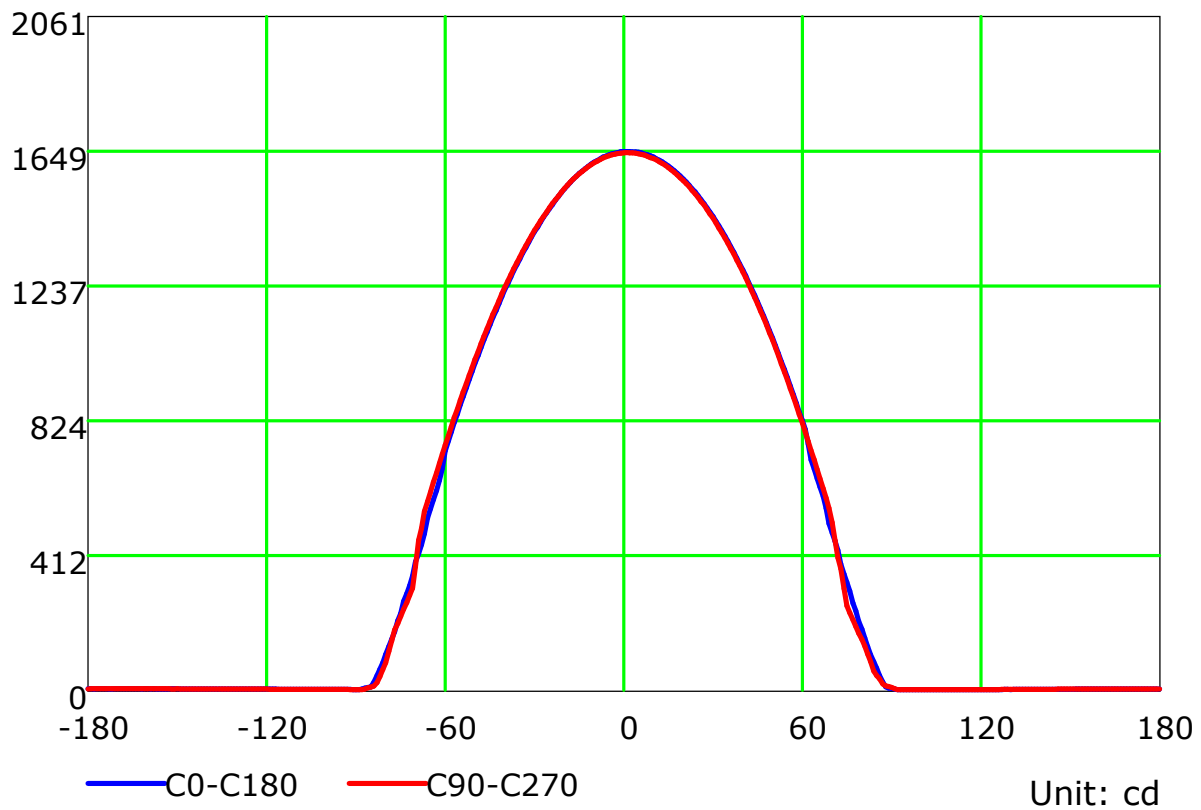
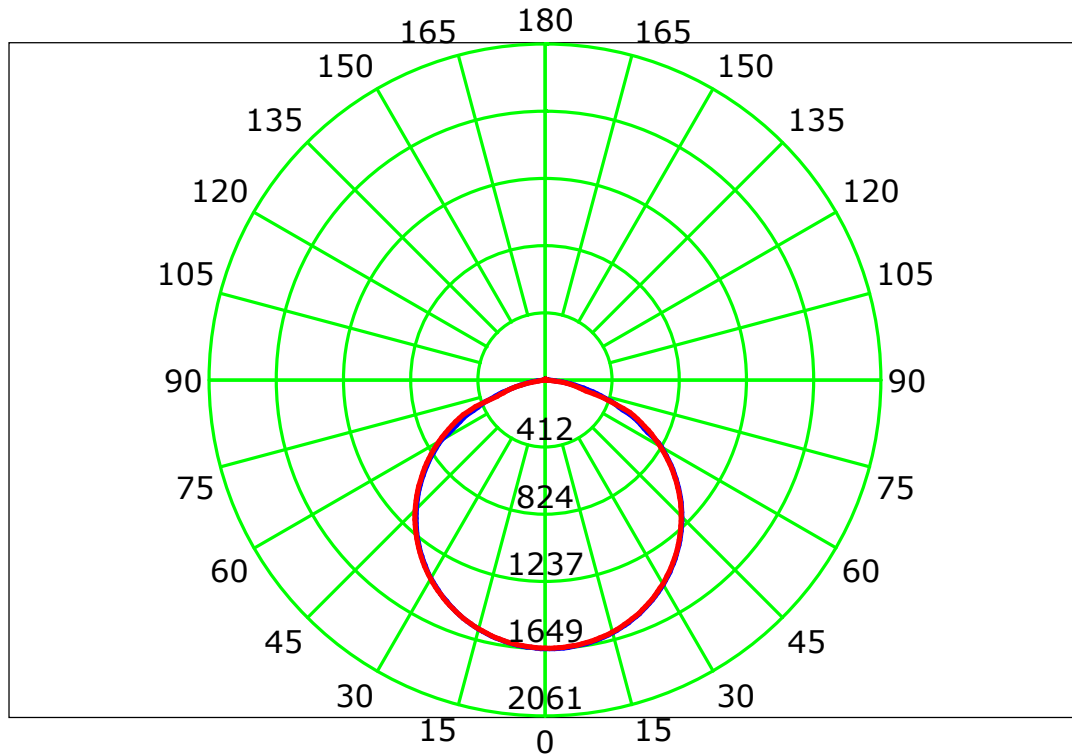
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

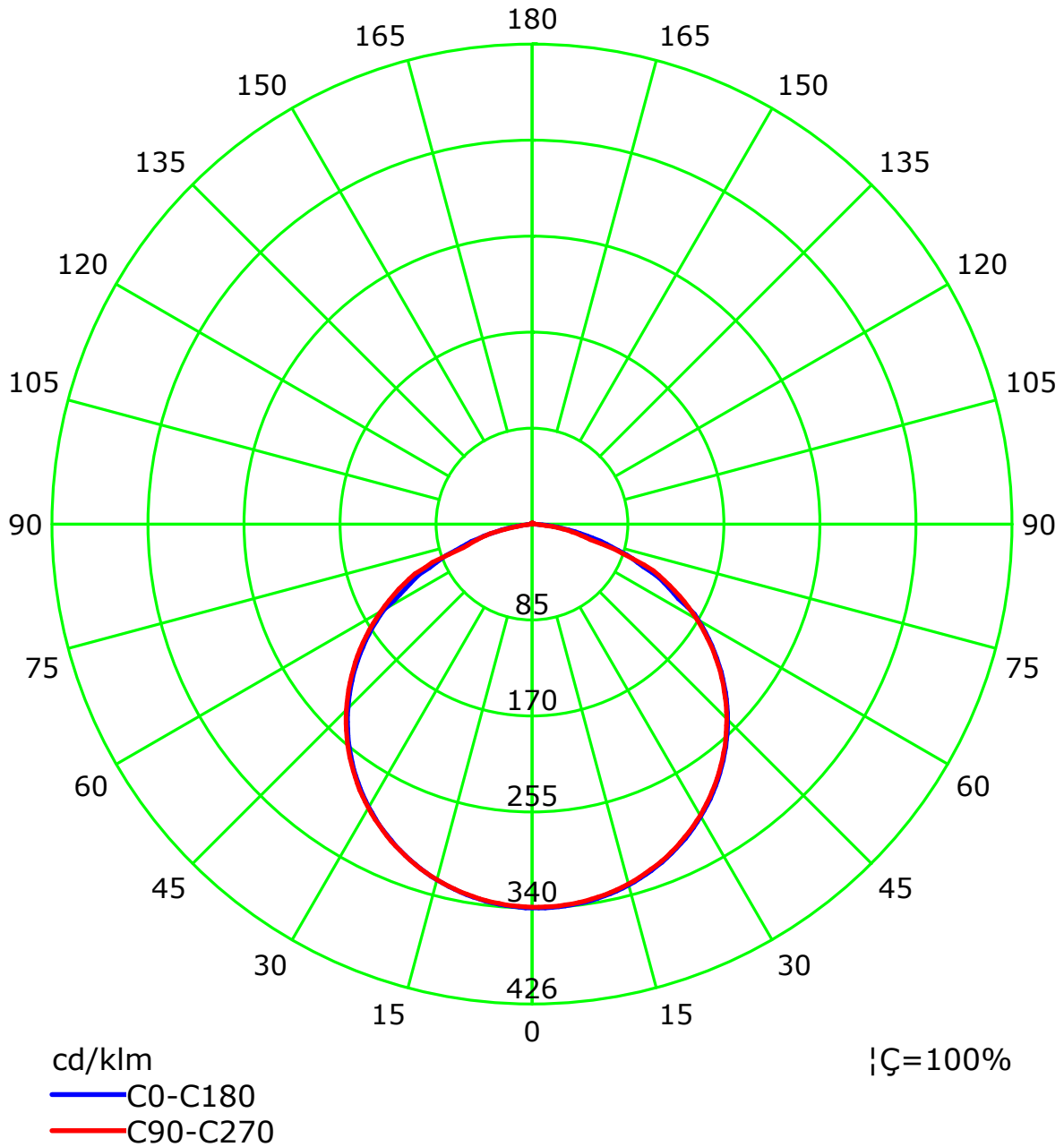
Luminous Intensity Distribution Curve



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:

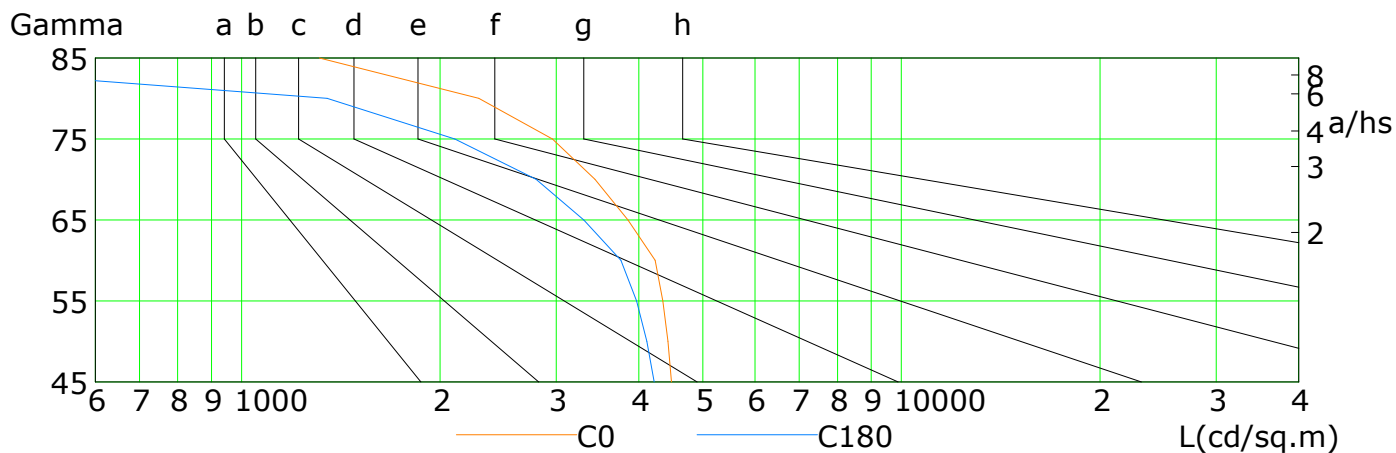
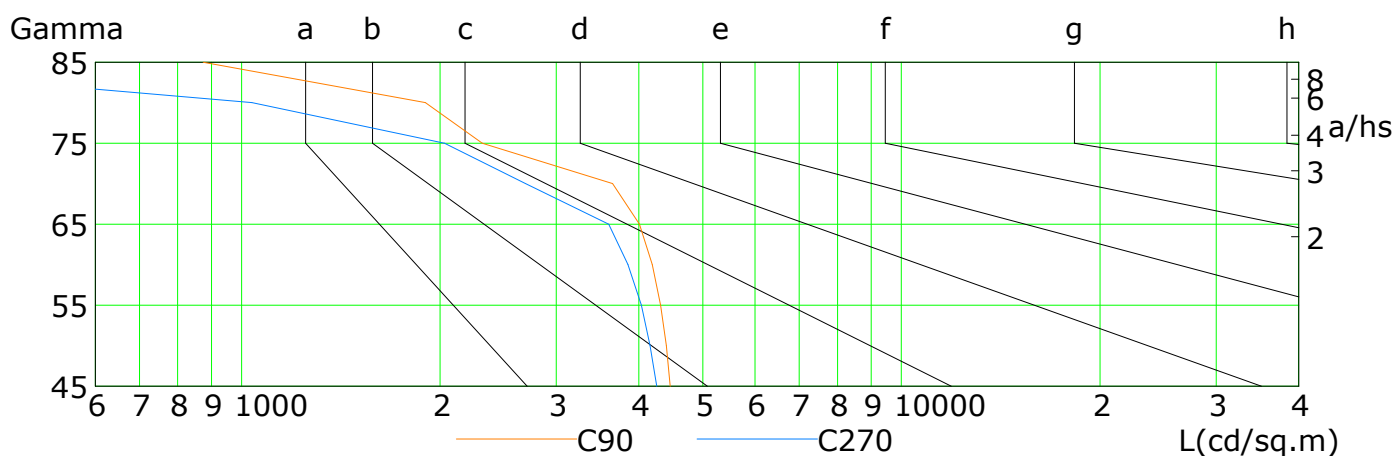
Luminous Intensity Distribution Curve(cd/klm)



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

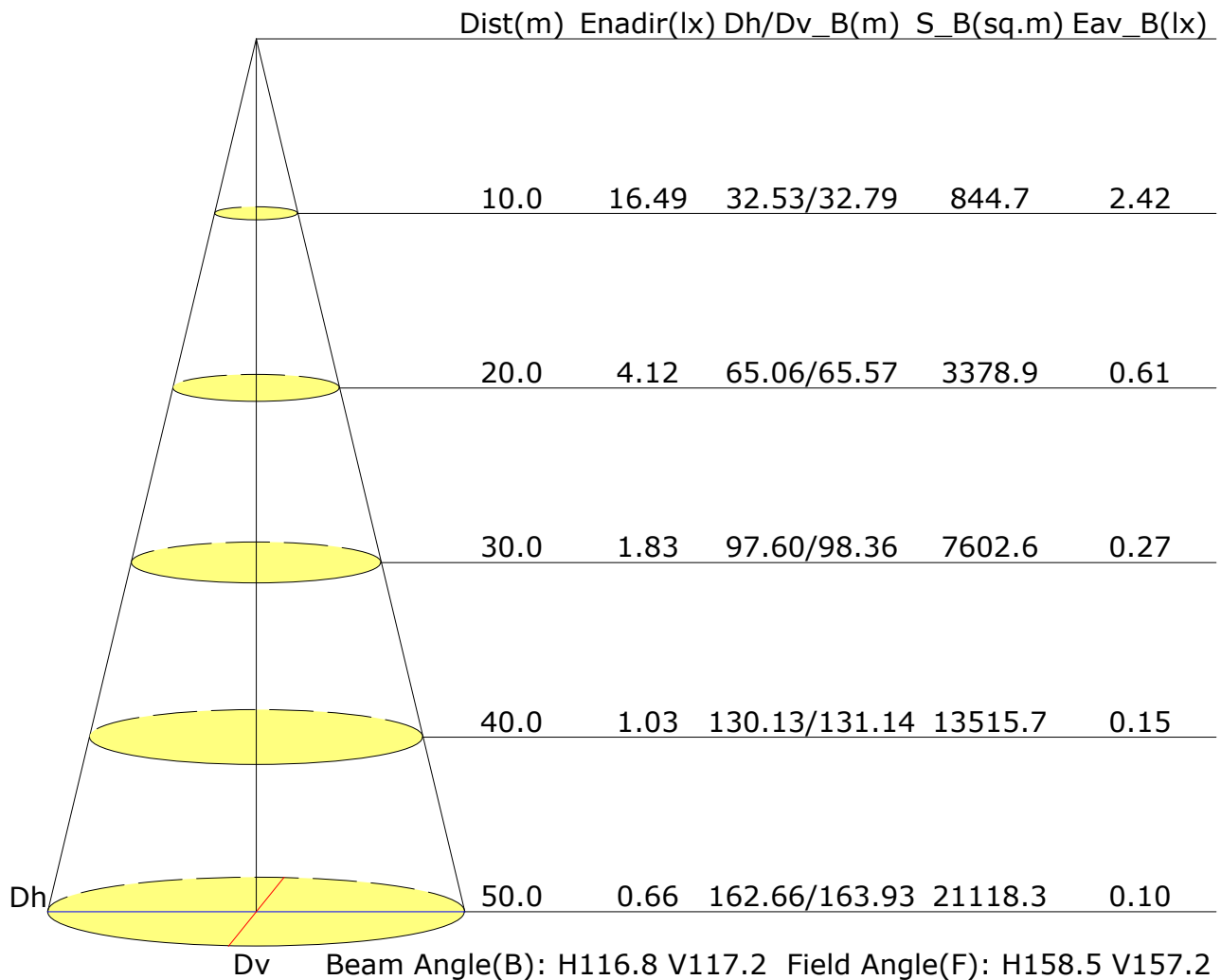


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4484	4427	4348	4234	3852	3431	2958	2289	1312
C90	4461	4401	4316	4194	4011	3649	2316	1900	875
C180	4220	4112	3970	3759	3300	2795	2105	1347	212
C270	4259	4161	4034	3850	3602	2693	2031	1037	204

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	17.9	19.3	18.2	19.5	19.8	17.7	19.1	18.0	19.4	19.6
3H	19.3	20.6	19.7	20.9	21.1	19.2	20.5	19.5	20.7	21.0
4H	19.8	21.0	20.2	21.3	21.6	19.6	20.7	19.9	21.0	21.3
6H	20.2	21.3	20.5	21.6	21.9	19.7	20.8	20.1	21.1	21.5
8H	20.2	21.3	20.6	21.6	22.0	19.7	20.8	20.1	21.1	21.5
12H	20.3	21.3	20.6	21.6	22.0	19.7	20.7	20.1	21.1	21.4
X=4H Y=2H	18.5	19.7	18.9	20.0	20.3	18.4	19.6	18.8	19.9	20.2
3H	20.1	21.2	20.5	21.5	21.9	20.1	21.1	20.5	21.4	21.8
4H	20.8	21.7	21.2	22.0	22.4	20.5	21.4	20.9	21.8	22.2
6H	21.2	22.0	21.6	22.4	22.8	20.7	21.5	21.2	21.9	22.3
8H	21.3	22.0	21.7	22.4	22.9	20.8	21.5	21.2	21.9	22.3
12H	21.3	22.0	21.8	22.4	22.9	20.8	21.4	21.2	21.9	22.3
X=8H Y=4H	21.0	21.7	21.4	22.1	22.6	20.7	21.5	21.2	21.9	22.3
6H	21.5	22.1	22.0	22.5	23.0	21.0	21.6	21.5	22.1	22.5
8H	21.7	22.2	22.1	22.6	23.1	21.1	21.6	21.6	22.1	22.6
12H	21.7	22.2	22.2	22.7	23.2	21.1	21.6	21.6	22.1	22.6
X=12H Y=4H	21.0	21.6	21.4	22.1	22.5	20.7	21.4	21.2	21.8	22.3
6H	21.5	22.0	22.0	22.5	23.0	21.1	21.6	21.5	22.0	22.5
8H	21.7	22.1	22.2	22.6	23.1	21.1	21.6	21.6	22.1	22.6
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					+0.4/-0.6				
S=2.0H	+0.6/-0.8					+0.4/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4839lm ($8\log(F/F_0) = 5.5$).

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	0.67	0.74	0.80	0.87	0.92	0.96	1.01	1.03	
	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	0.74	0.80	0.85	0.90	0.94	
0.30	0.50	0.20	0.53	0.63	0.69	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	0.59	0.65	0.73	0.78	0.82	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: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	1.00	0.82	0.70	0.61	0.48	0.40	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	0.61	0.54	0.48	0.40	0.34	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	0.25	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	0.39	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	0.31	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	0.32	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: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	0.19	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	0.09	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	0.20	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	0.18	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:37W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												