

Report No.: 1

Test Time: 01.11.2019 21:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x24LED 0,48A 26,5W 3000K bez stekla

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.5 V

Current: 0.117 A

Power: 25.70 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 3381.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3381.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.4, 144.8, 150.5, 151.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.2, 114.2, 117.0, 117.1

Luminaire Efficacy Rating (LER): 131.63

Central Intensity: 1199.98 cd

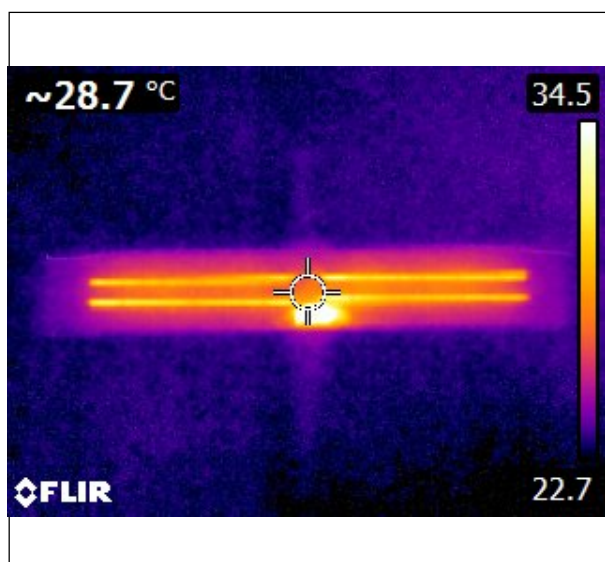
Max. Intensity: 1202.18 cd

Pos of Max. Intensity: H112.5 V1

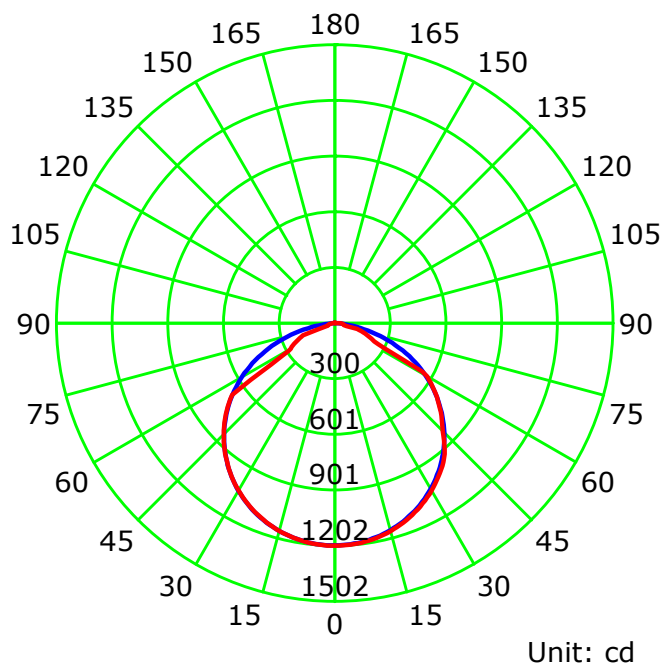
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.29

Termogamma



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

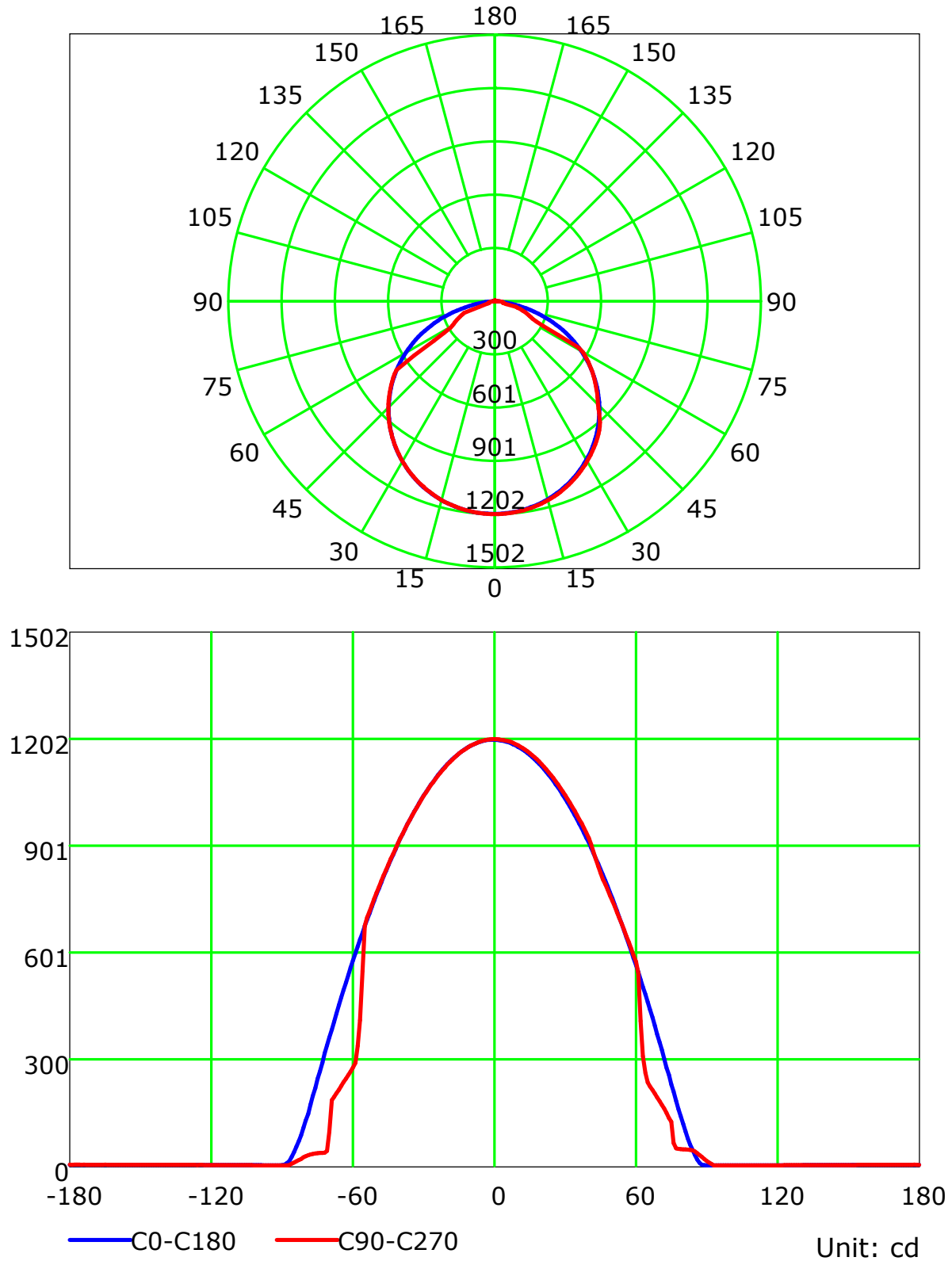
Test Device: LSG-1800B

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

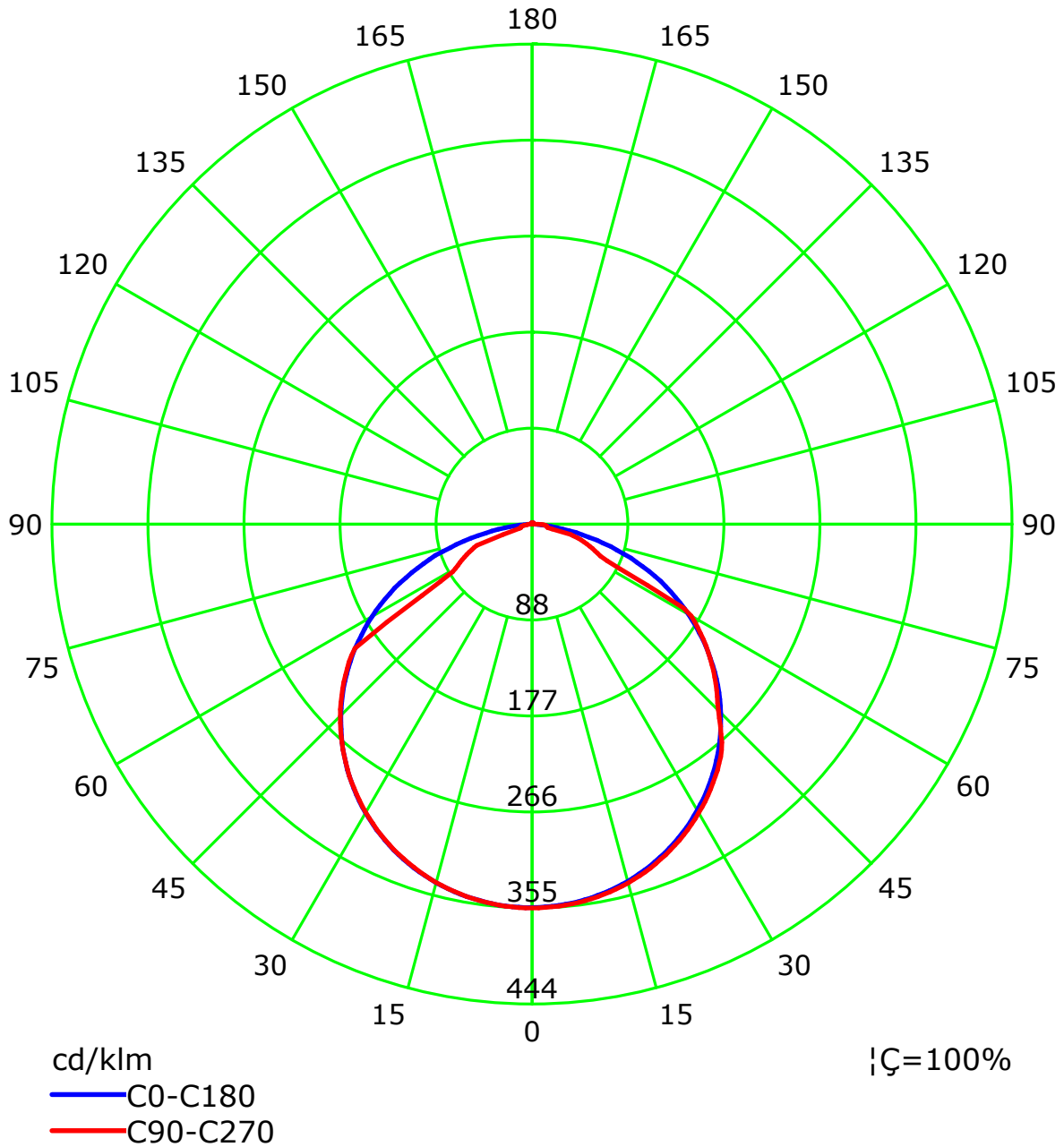
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

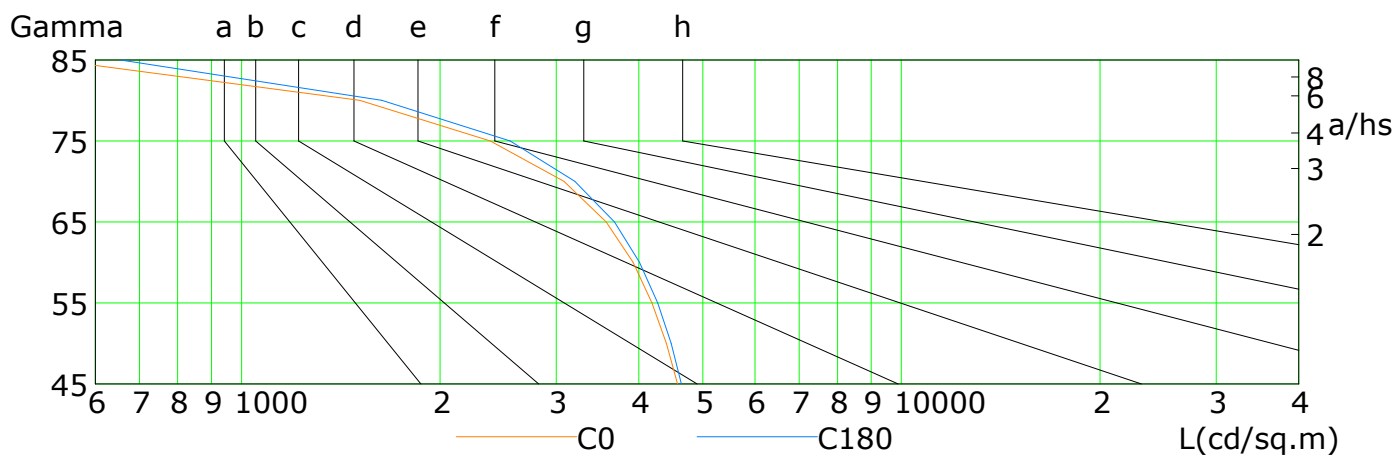
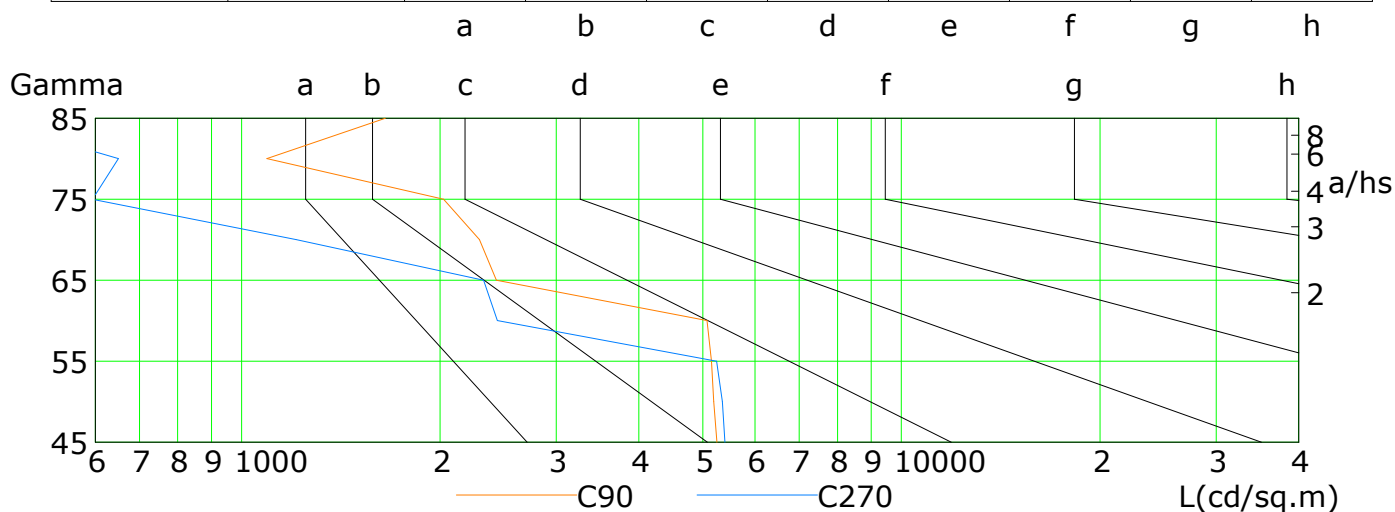


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

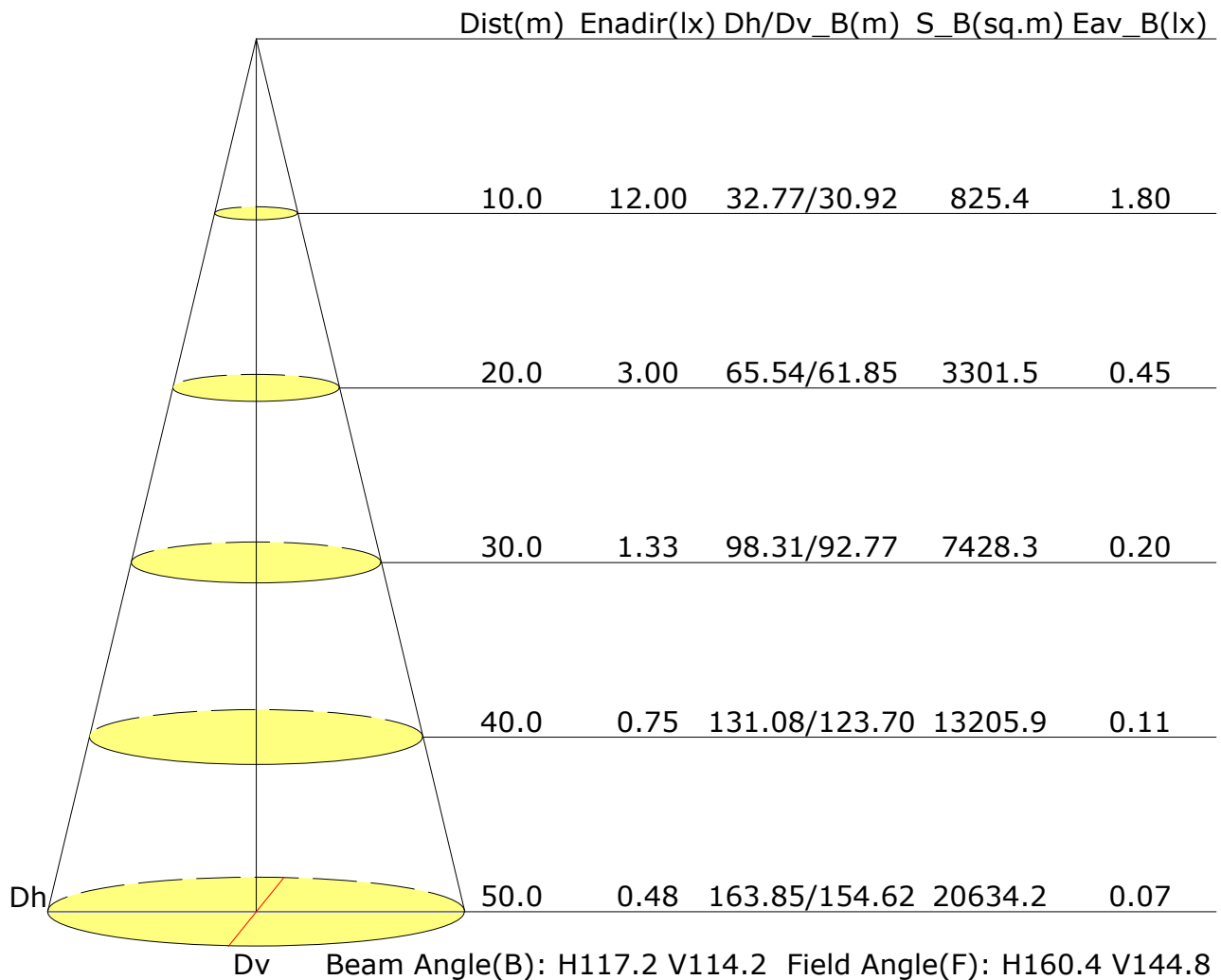


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4580	4405	4187	3918	3571	3079	2383	1510	522
C90	5251	5196	5152	5074	2434	2295	2023	1092	1651
C180	4642	4476	4272	4008	3675	3198	2553	1632	656
C270	5402	5356	5249	2442	2328	1209	594	651	408

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	19.2	18.2	19.5	19.7	17.6	18.9	17.9	19.2	19.4
3H	19.3	20.5	19.6	20.8	21.0	18.0	19.2	18.3	19.5	19.8
4H	19.7	20.9	20.1	21.2	21.5	18.1	19.2	18.4	19.5	19.8
6H	19.9	21.0	20.3	21.3	21.6	18.1	19.1	18.4	19.4	19.8
8H	19.9	20.9	20.3	21.3	21.6	18.1	19.1	18.4	19.4	19.8
12H	19.9	20.9	20.3	21.2	21.6	18.1	19.0	18.5	19.4	19.7
X=4H Y=2H	18.4	19.5	18.8	19.8	20.2	18.1	19.3	18.5	19.6	19.9
3H	19.9	20.9	20.3	21.2	21.6	18.6	19.6	19.0	19.9	20.3
4H	20.5	21.3	20.9	21.7	22.1	18.7	19.6	19.2	20.0	20.4
6H	20.7	21.4	21.1	21.8	22.2	18.7	19.5	19.2	19.9	20.3
8H	20.7	21.4	21.1	21.8	22.2	18.8	19.5	19.2	19.9	20.3
12H	20.7	21.3	21.1	21.7	22.2	18.8	19.4	19.2	19.9	20.3
X=8H Y=4H	20.4	21.2	20.9	21.6	22.0	18.8	19.5	19.3	19.9	20.4
6H	20.7	21.2	21.2	21.7	22.2	18.9	19.4	19.3	19.9	20.4
8H	20.7	21.2	21.2	21.7	22.2	18.9	19.4	19.4	19.9	20.4
12H	20.7	21.2	21.2	21.6	22.2	19.0	19.4	19.5	19.9	20.4
X=12H Y=4H	20.4	21.1	20.9	21.5	21.9	18.8	19.4	19.3	19.9	20.3
6H	20.7	21.2	21.1	21.6	22.1	18.9	19.3	19.3	19.8	20.3
8H	20.7	21.1	21.2	21.6	22.1	18.9	19.3	19.4	19.8	20.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.4/-0.6				
S=1.5H	+0.4/-0.6					+1.4/-2.2				
S=2.0H	+0.9/-1.3					+2.4/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3382lm ($8\log(F/F_0) = 4.2$).

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	0.58	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	0.94	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	0.83	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	0.71	0.76	0.80	0.84	0.87	
Rating:26W 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	0.32	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		0.80	0.67	0.57	0.50	0.40	0.34	0.29	0.22	0.18	
	0.20		0.70	0.59	0.51	0.45	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	0.21	0.18	
	0.20		0.69	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.59	0.48	0.41	0.36	0.28	0.23	0.20	0.15	0.13	
Rating:26W 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	0.12	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	0.15	0.16	0.18	
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	0.10	0.12	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	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:26W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												