

Report No.: 1

Test Time: 14.11.2019 20:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 (50) 4x24LED 0,3A 32W 4000K opal

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.4 V

Current: 0.152 A

Power: 33.04 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 3575.3 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3575.3 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.7, 164.4, 164.5, 164.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.1, 110.9, 111.0, 111.1

Luminaire Efficacy Rating (LER): 108.26

Central Intensity: 1243.96 cd

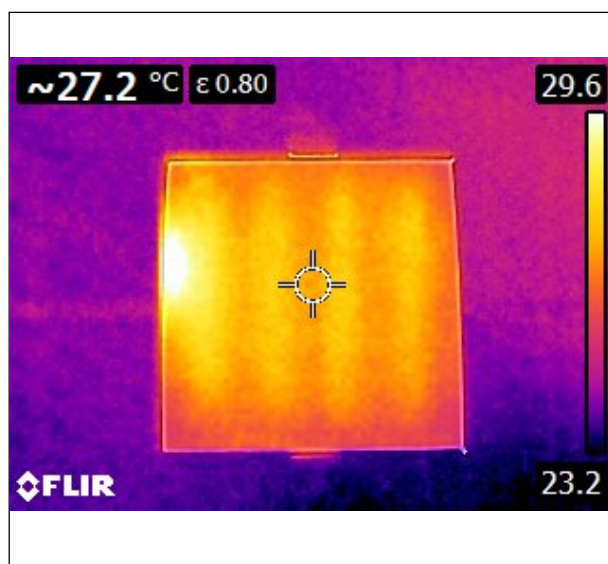
Max. Intensity: 1246.6 cd

Pos of Max. Intensity: H157.5 V1

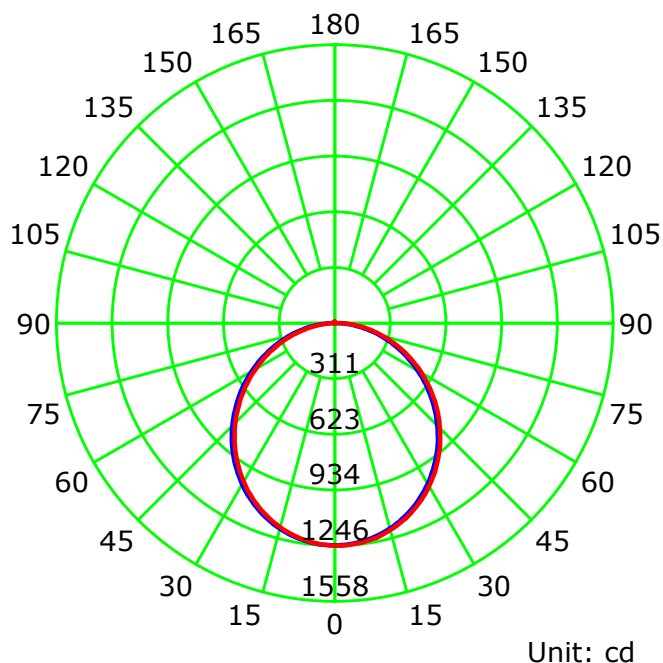
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.24

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

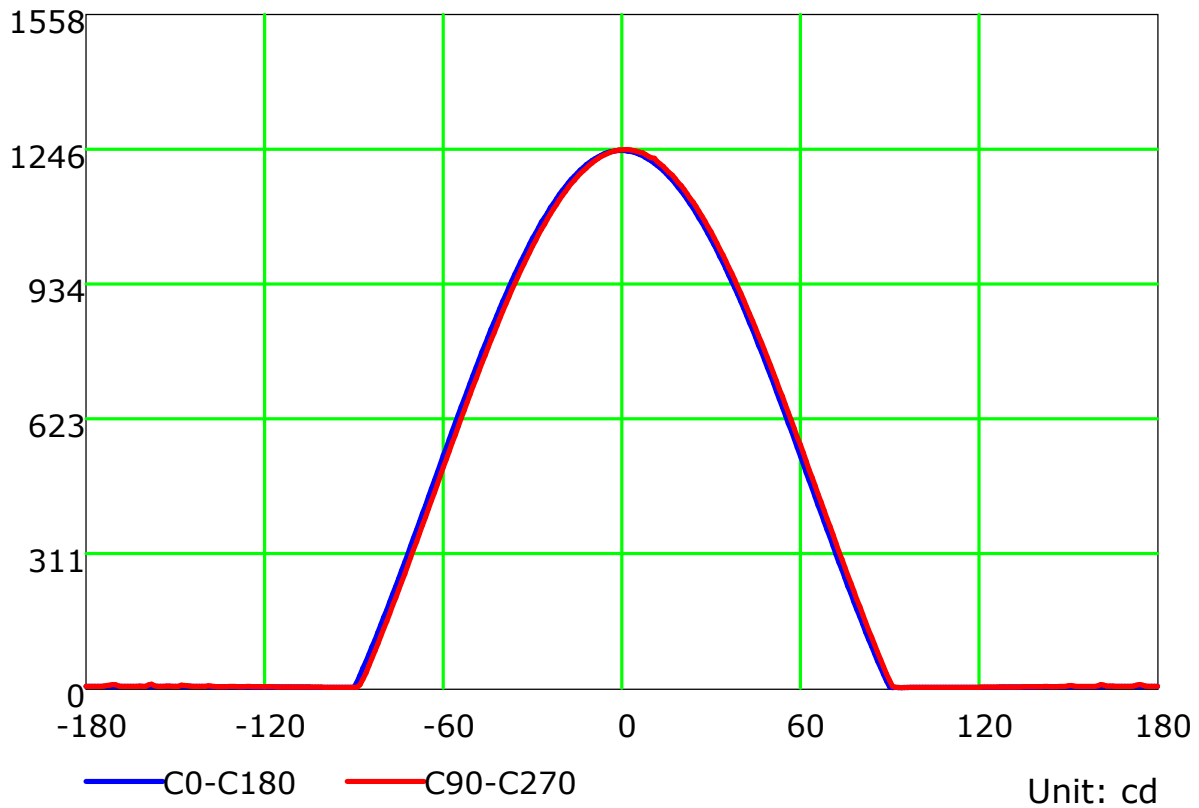
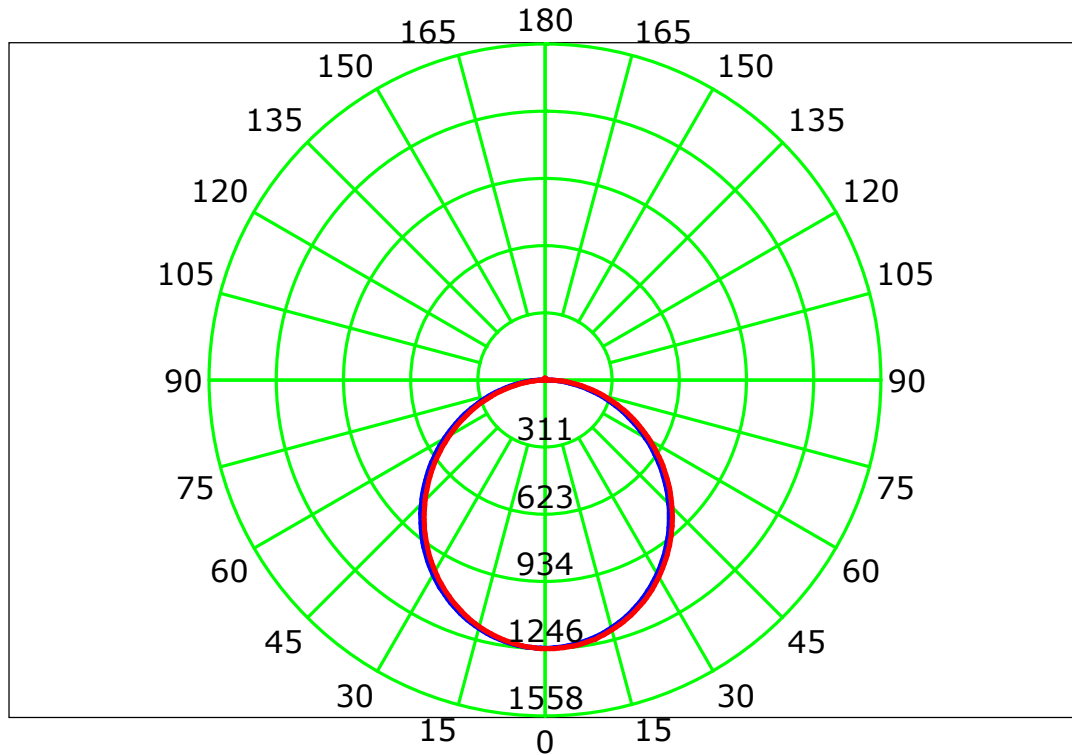
Test Device: LSG-1800B

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

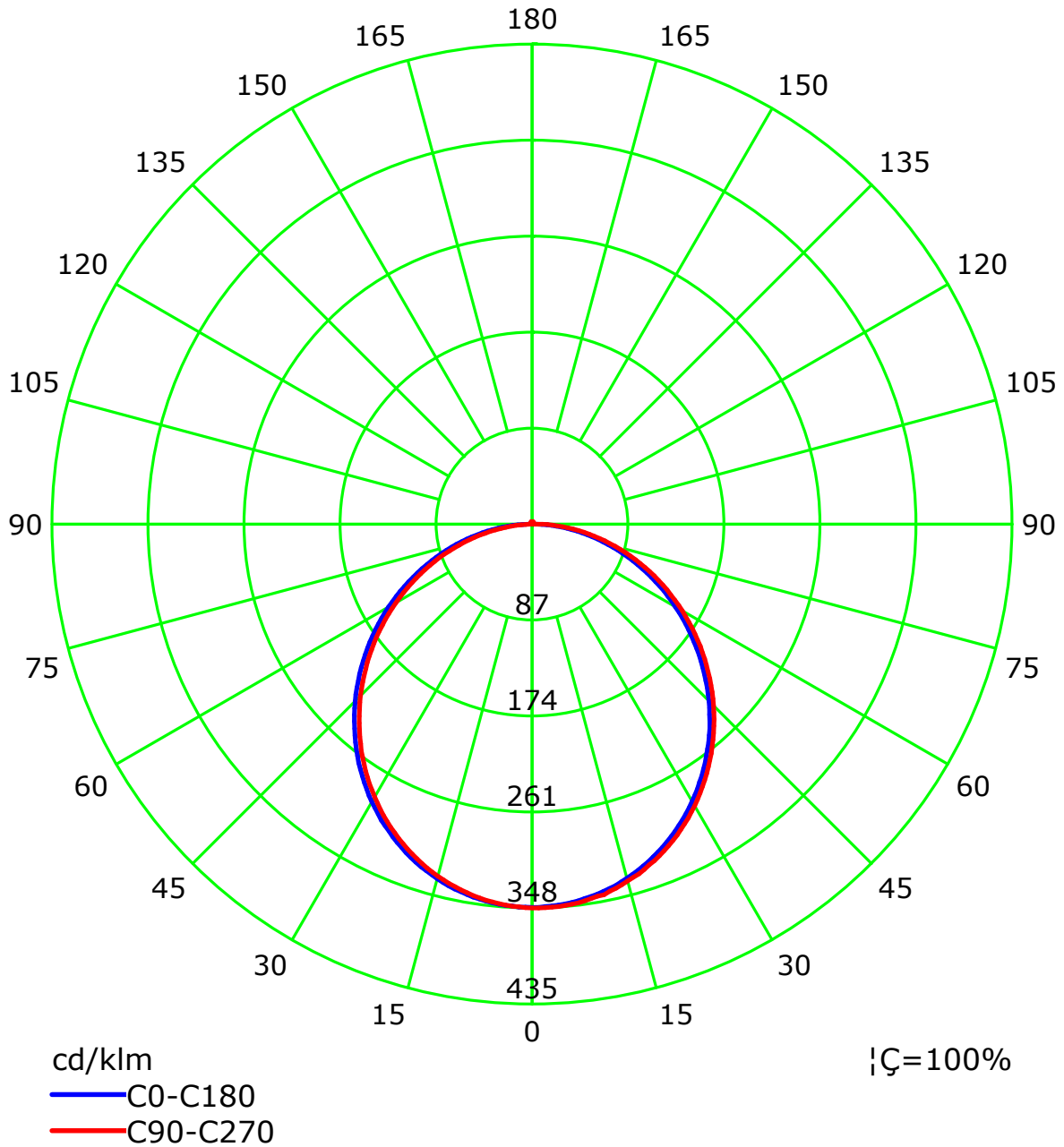
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

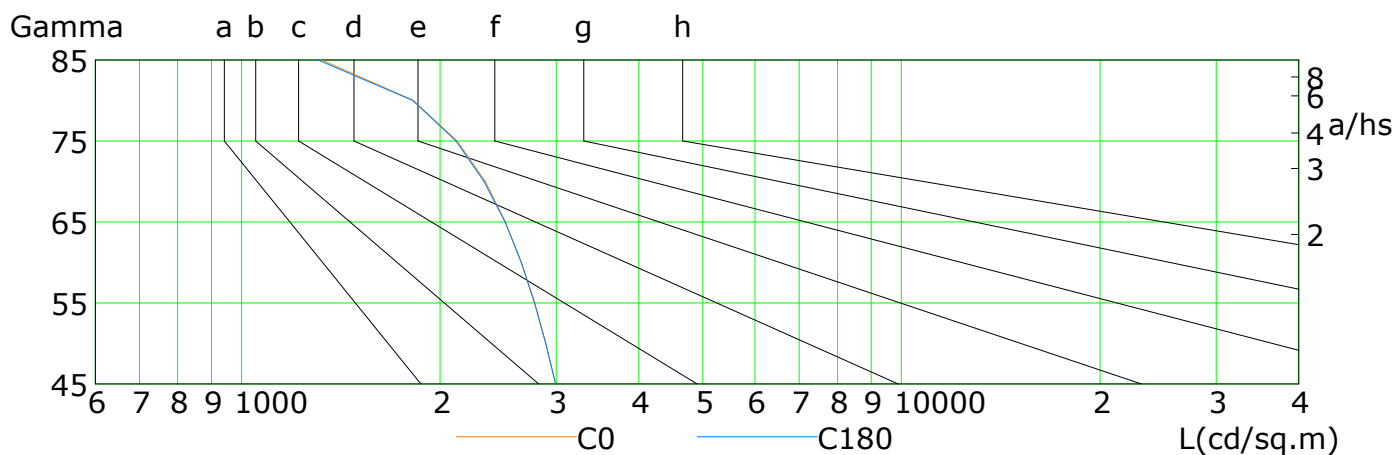
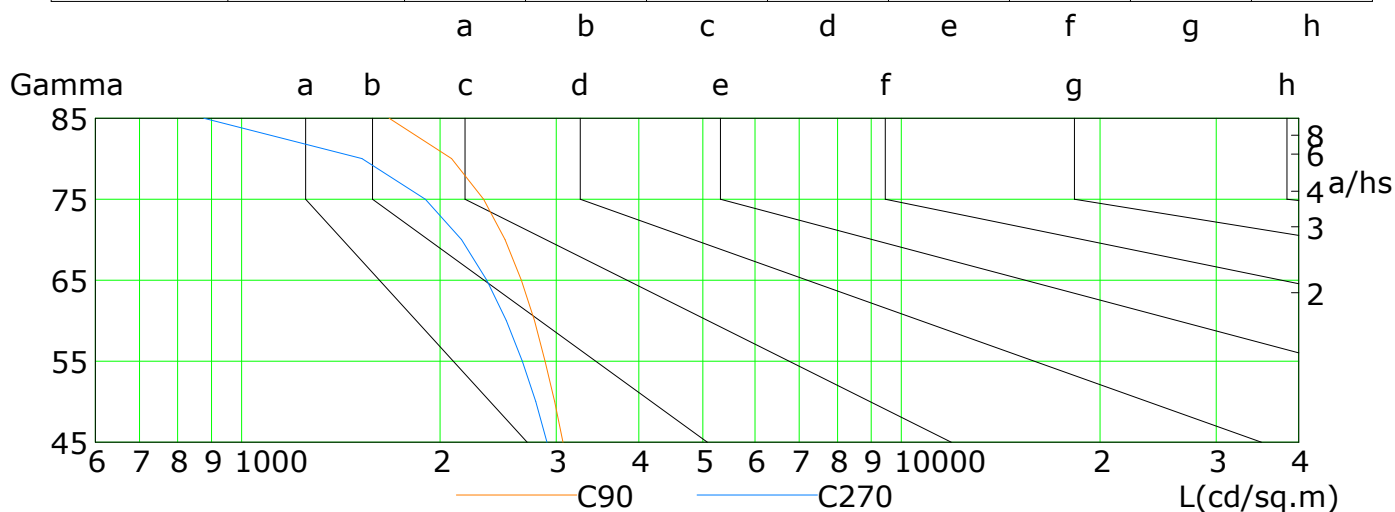
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

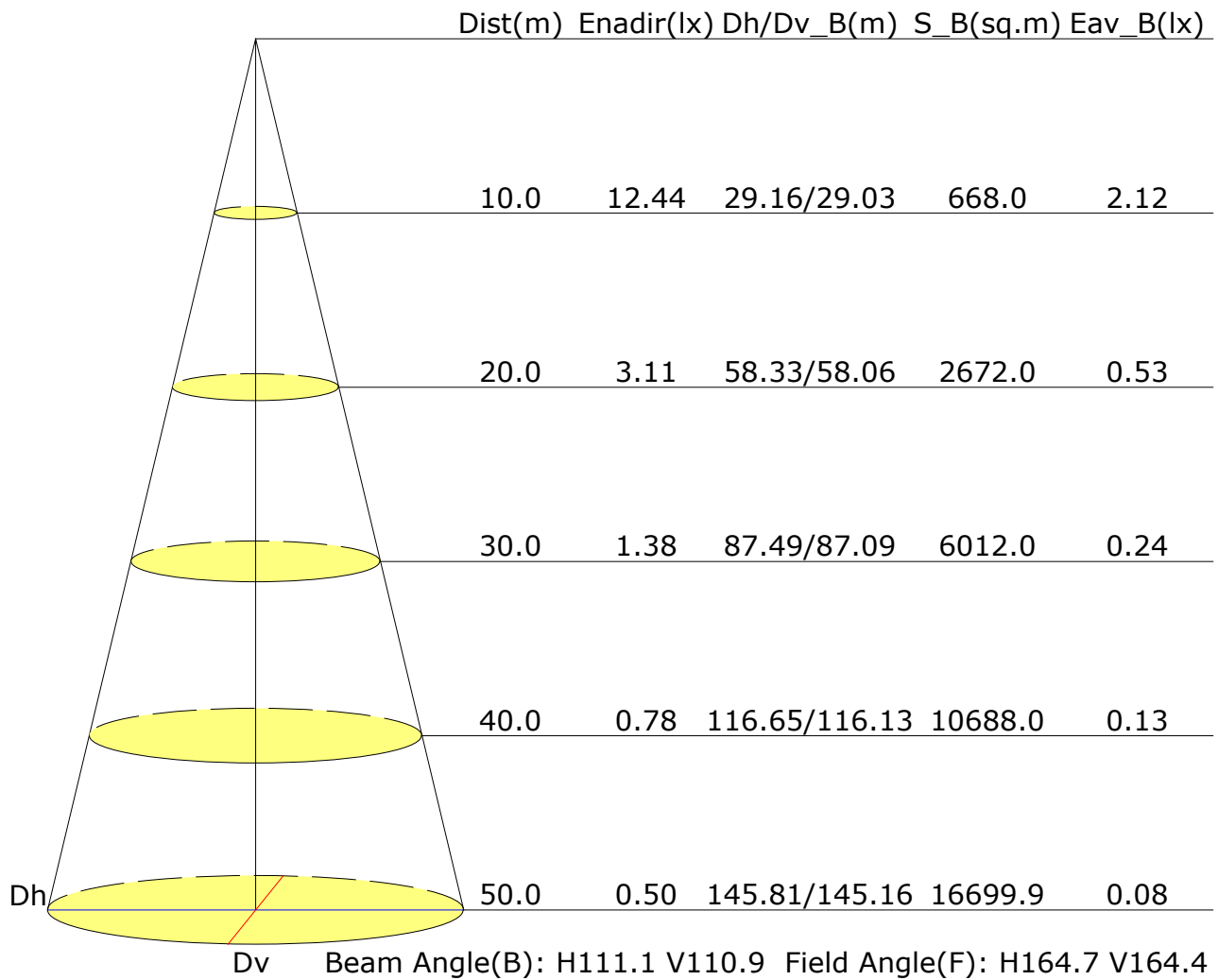


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2993	2890	2781	2653	2511	2340	2122	1821	1323
C90	3070	2983	2885	2778	2654	2509	2326	2081	1674
C180	2993	2891	2780	2655	2508	2330	2115	1817	1306
C270	2904	2791	2665	2519	2352	2153	1898	1522	877

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	16.0	17.4	16.3	17.6	17.9	16.0	17.4	16.3	17.6	17.9
3H	17.5	18.8	17.9	19.1	19.4	17.5	18.8	17.9	19.1	19.4
4H	18.2	19.4	18.5	19.7	20.0	18.1	19.3	18.5	19.7	20.0
6H	18.6	19.7	19.0	20.1	20.4	18.6	19.7	19.0	20.1	20.4
8H	18.8	19.9	19.2	20.2	20.5	18.8	19.9	19.2	20.2	20.5
12H	18.9	19.9	19.3	20.3	20.6	18.9	19.9	19.3	20.3	20.6
X=4H Y=2H	16.6	17.8	17.0	18.1	18.4	16.6	17.8	17.0	18.1	18.4
3H	18.3	19.4	18.7	19.7	20.1	18.3	19.4	18.7	19.7	20.1
4H	19.1	20.0	19.5	20.4	20.8	19.1	20.0	19.5	20.4	20.8
6H	19.7	20.5	20.1	20.9	21.3	19.7	20.5	20.1	20.9	21.3
8H	19.9	20.7	20.3	21.1	21.5	19.9	20.7	20.3	21.1	21.5
12H	20.0	20.7	20.5	21.2	21.6	20.0	20.7	20.5	21.2	21.6
X=8H Y=4H	19.4	20.1	19.8	20.5	21.0	19.4	20.1	19.8	20.5	21.0
6H	20.1	20.7	20.6	21.2	21.7	20.1	20.7	20.6	21.2	21.7
8H	20.4	20.9	20.9	21.4	21.9	20.4	20.9	20.9	21.4	21.9
12H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
X=12H Y=4H	19.4	20.1	19.9	20.5	21.0	19.4	20.1	19.9	20.5	21.0
6H	20.2	20.7	20.7	21.2	21.7	20.2	20.7	20.7	21.2	21.7
8H	20.5	21.0	21.0	21.4	22.0	20.5	21.0	21.0	21.5	22.0
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/-0.5				
S=2.0H	+0.5/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3575lm ($8\log(F/F_0) = 4.4$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
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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	0.66	0.74	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.88	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.42	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:33W 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	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.82	0.70	0.60	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:33W 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	0.21	0.21	0.22	0.22	0.23	
	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	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	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	0.20	0.20	0.20	0.21	
	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	0.15	0.16	
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:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												