



Report No.: 1

Test Time: 14.11.2019 22:15

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 24LED 0,35A 37W 4000K microprisma Hygiene

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.168 A

Power: 36.39 W

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Measurement Flux: 4416.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4416.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.3, 161.9, 152.4, 151.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.2, 83.1, 77.4, 76.9

Luminaire Efficacy Rating (LER): 121.42

Central Intensity: 2192.94 cd

Max. Intensity: 2195.06 cd

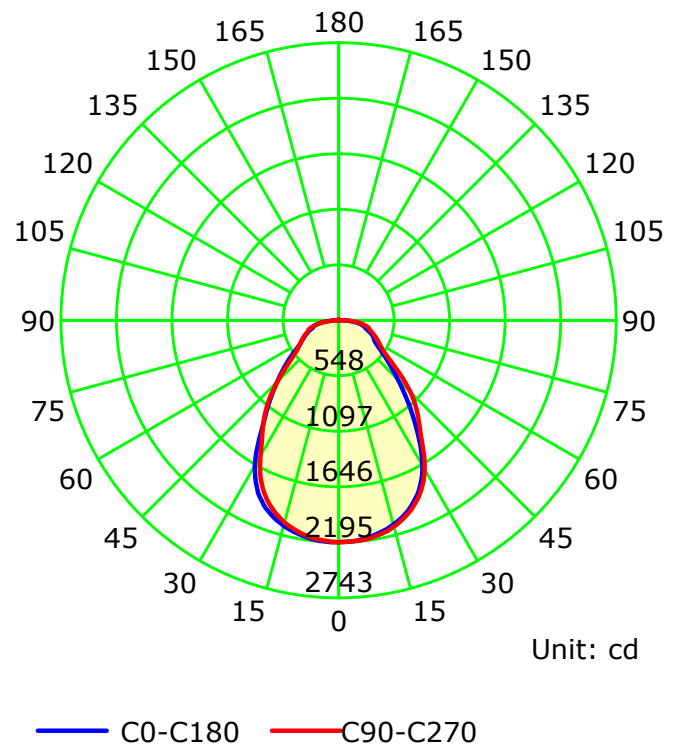
Pos of Max. Intensity: H67.5 V0

S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.12

Termogramma

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

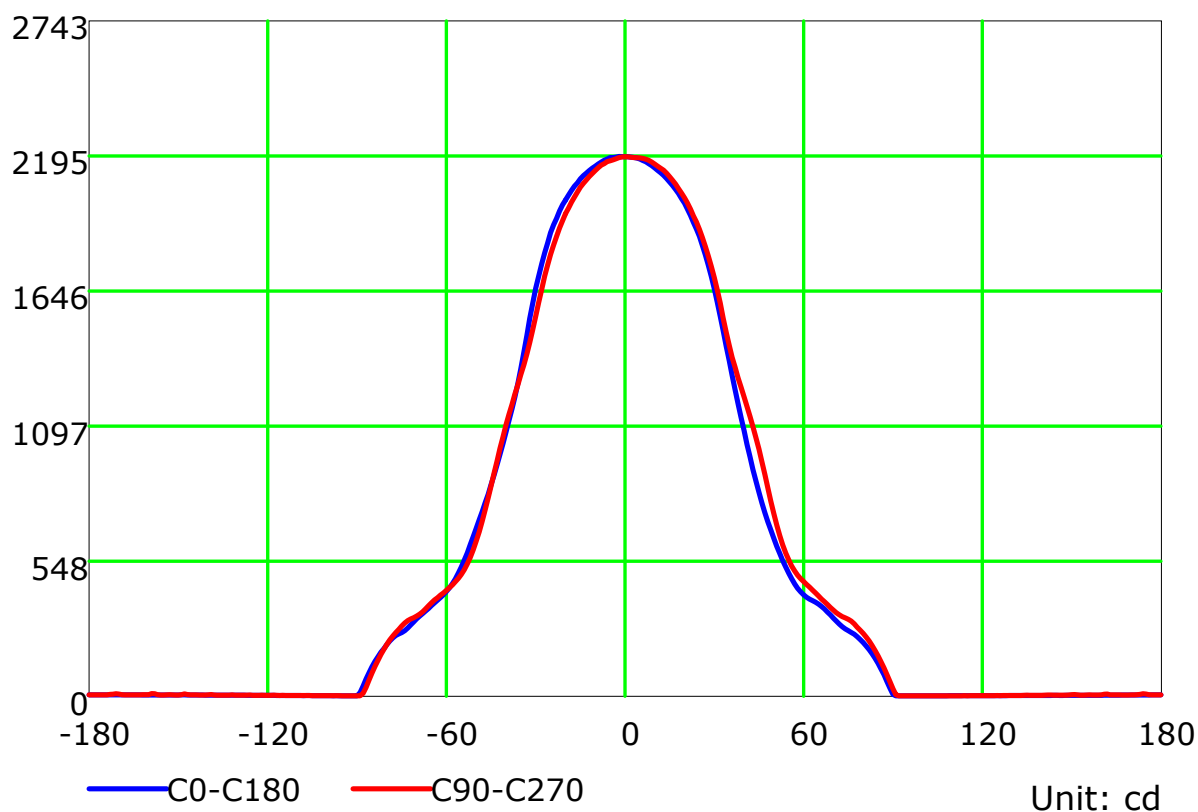
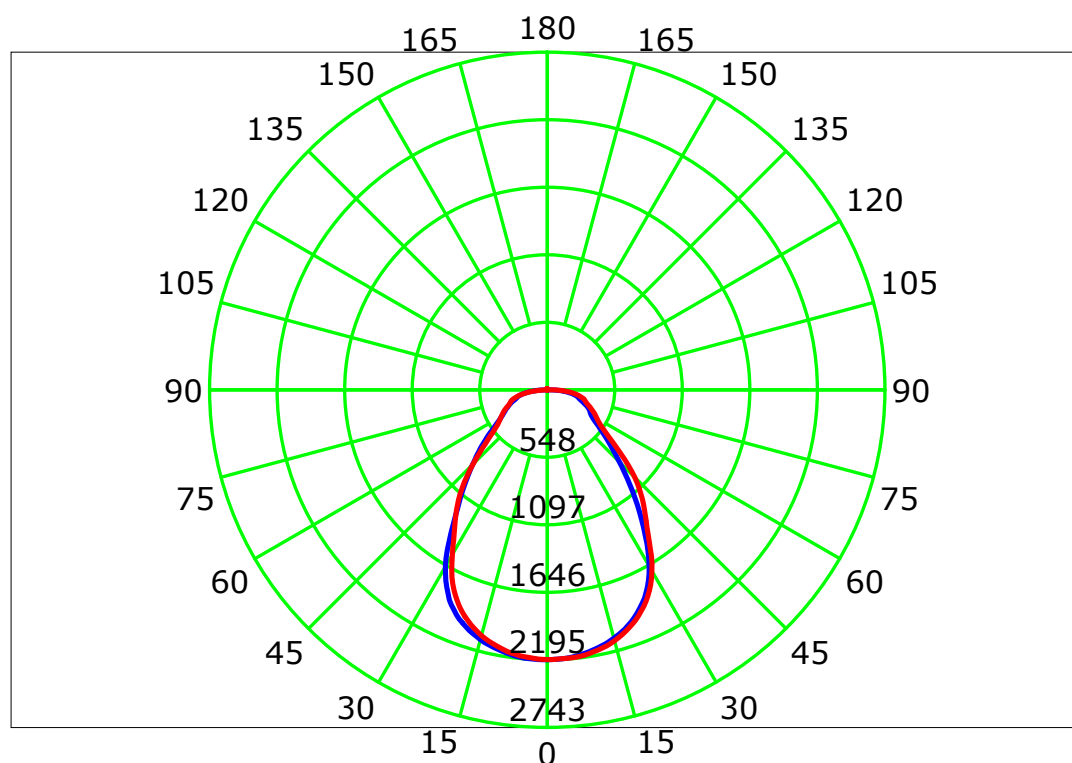
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

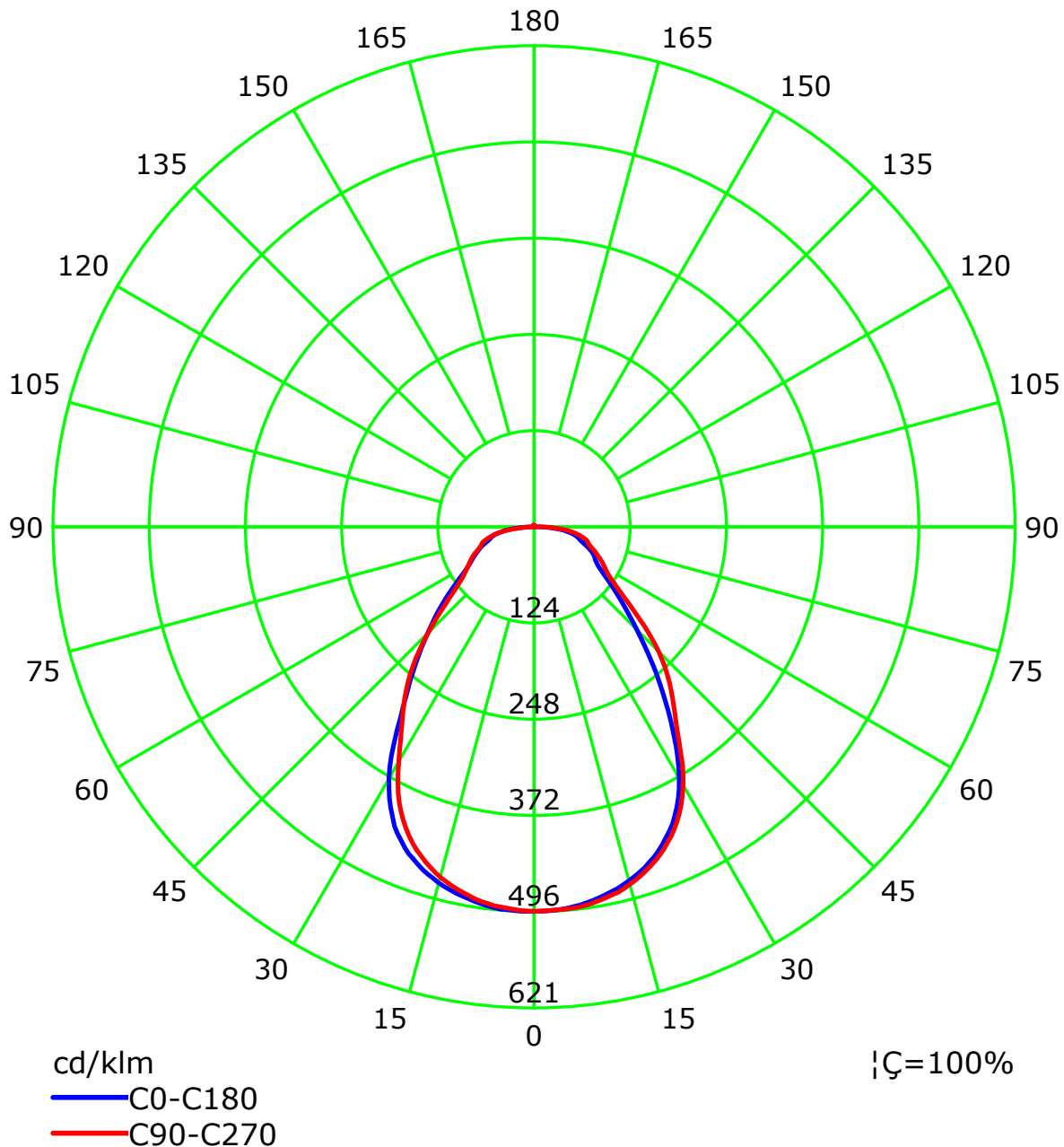
Luminous Intensity Distribution Curve



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)

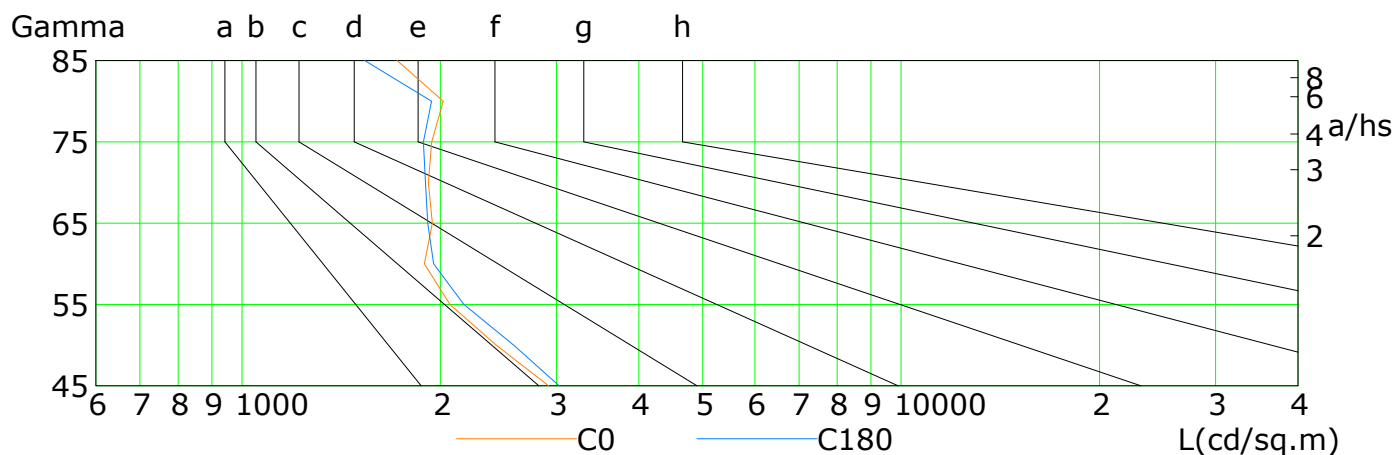
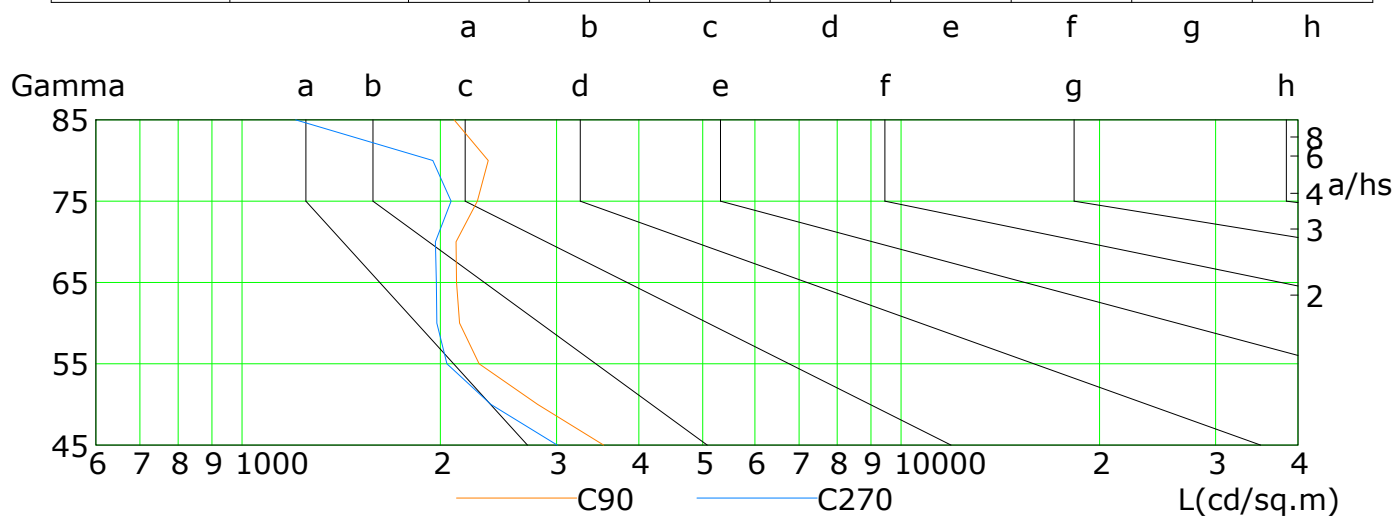


C Plane (°):0.0-360.0: 22.5
 Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

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	2917	2431	2067	1891	1945	1917	1940	2020	1719
C90	3536	2809	2289	2138	2116	2112	2275	2364	2097
C180	3028	2583	2170	1953	1914	1898	1884	1939	1536
C270	3007	2386	2046	1975	1972	1965	2075	1947	1206

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

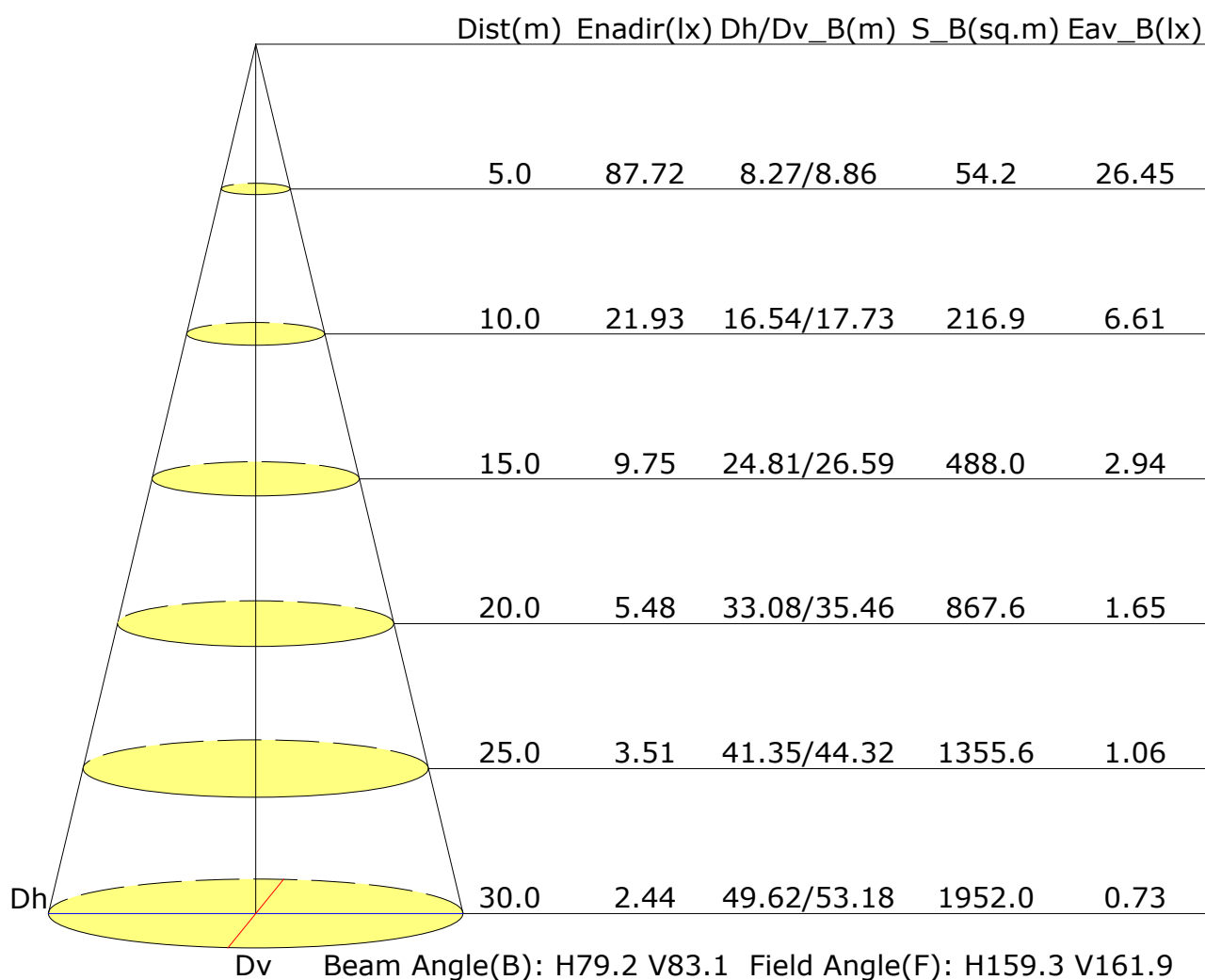
Test Device: LSG-1800B

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	14.2	15.5	14.5	15.7	16.0	14.5	15.8	14.8	16.0	16.3
3H	15.7	16.8	16.0	17.1	17.4	16.0	17.2	16.3	17.4	17.7
4H	16.4	17.5	16.8	17.8	18.1	16.8	17.9	17.2	18.2	18.5
6H	17.2	18.2	17.6	18.5	18.9	17.7	18.7	18.0	19.0	19.3
8H	17.6	18.5	17.9	18.9	19.2	18.0	19.0	18.4	19.3	19.6
12H	17.8	18.8	18.2	19.1	19.4	18.2	19.2	18.6	19.5	19.9
X=4H Y=2H	14.7	15.8	15.1	16.1	16.4	15.0	16.1	15.3	16.3	16.7
3H	16.4	17.3	16.8	17.7	18.0	16.7	17.6	17.1	18.0	18.3
4H	17.3	18.1	17.7	18.5	18.9	17.7	18.5	18.1	18.9	19.3
6H	18.2	19.0	18.7	19.4	19.8	18.7	19.4	19.1	19.8	20.2
8H	18.7	19.3	19.1	19.8	20.2	19.1	19.8	19.5	20.2	20.6
12H	19.0	19.6	19.4	20.0	20.5	19.4	20.0	19.8	20.4	20.9
X=8H Y=4H	17.6	18.3	18.0	18.7	19.1	17.9	18.6	18.4	19.0	19.5
6H	18.7	19.2	19.2	19.7	20.2	19.1	19.6	19.6	20.1	20.6
8H	19.2	19.7	19.7	20.2	20.7	19.6	20.1	20.1	20.5	21.0
12H	19.6	20.1	20.1	20.5	21.1	20.0	20.4	20.5	20.9	21.4
X=12H Y=4H	17.6	18.3	18.1	18.7	19.1	18.0	18.6	18.4	19.0	19.5
6H	18.8	19.3	19.3	19.7	20.2	19.1	19.6	19.6	20.1	20.6
8H	19.3	19.8	19.8	20.2	20.7	19.7	20.1	20.2	20.6	21.1
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.3/-0.7					+0.3/-0.6				
S=2.0H	+0.6/-0.9					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4417lm ($8\log(F/F_0) = 5.2$).

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 = 1.00									
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	0.62	0.72	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.30		0.55	0.65	0.71	0.76	0.84	0.89	0.92	0.97	1.01	
	0.20		0.50	0.59	0.66	0.71	0.79	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.93	0.97	1.00	
	0.30		0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.94	0.97	
	0.20		0.49	0.59	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.59	0.68	0.73	0.78	0.83	0.87	0.90	0.93	0.96	
	0.30		0.53	0.62	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.49	0.58	0.64	0.69	0.76	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.56	0.61	0.66	0.72	0.77	0.80	0.84	0.87	
Rating:36W 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 = 1.00									
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	0.91	0.76	0.65	0.57	0.45	0.38	0.33	0.26	0.21	
	0.30		0.76	0.65	0.56	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.65	0.56	0.50	0.45	0.37	0.32	0.28	0.23	0.19	
0.50	0.50	0.20	0.88	0.72	0.62	0.54	0.43	0.40	0.31	0.24	0.20	
	0.30		0.74	0.63	0.55	0.48	0.40	0.33	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.85	0.69	0.59	0.52	0.41	0.34	0.29	0.23	0.19	
	0.30		0.73	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.35	0.30	0.26	0.21	0.18	
0.00	0.00	0.00	0.53	0.44	0.38	0.34	0.28	0.23	0.20	0.16	0.13	
Rating:36W 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 = 1.00									
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	0.16	0.18	0.18	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	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	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	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	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	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.10	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:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												