

Report No.:

Test Time: 15.11.2019 21:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 40LED 0,3A 38W 4000K microprisma Hygiene

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.171 A

Power: 36.80 W

Power Factor: 0.971

Photometric Results

CIE Class: Direct

Measurement Flux: 4864.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4864.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.2, 162.0, 152.0, 151.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 78.8, 83.0, 77.2, 76.7

Luminaire Efficacy Rating (LER): 132.24

Central Intensity: 2424.42 cd

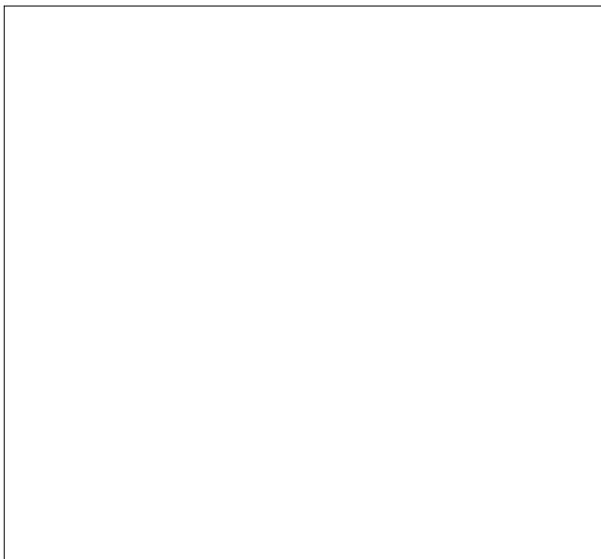
Max. Intensity: 2425.8 cd

Pos of Max. Intensity: H202.5 V1

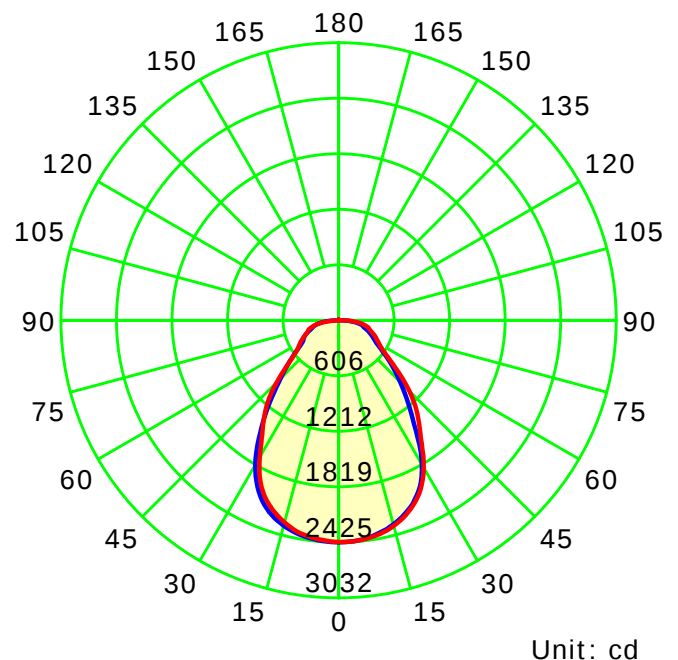
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.13

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

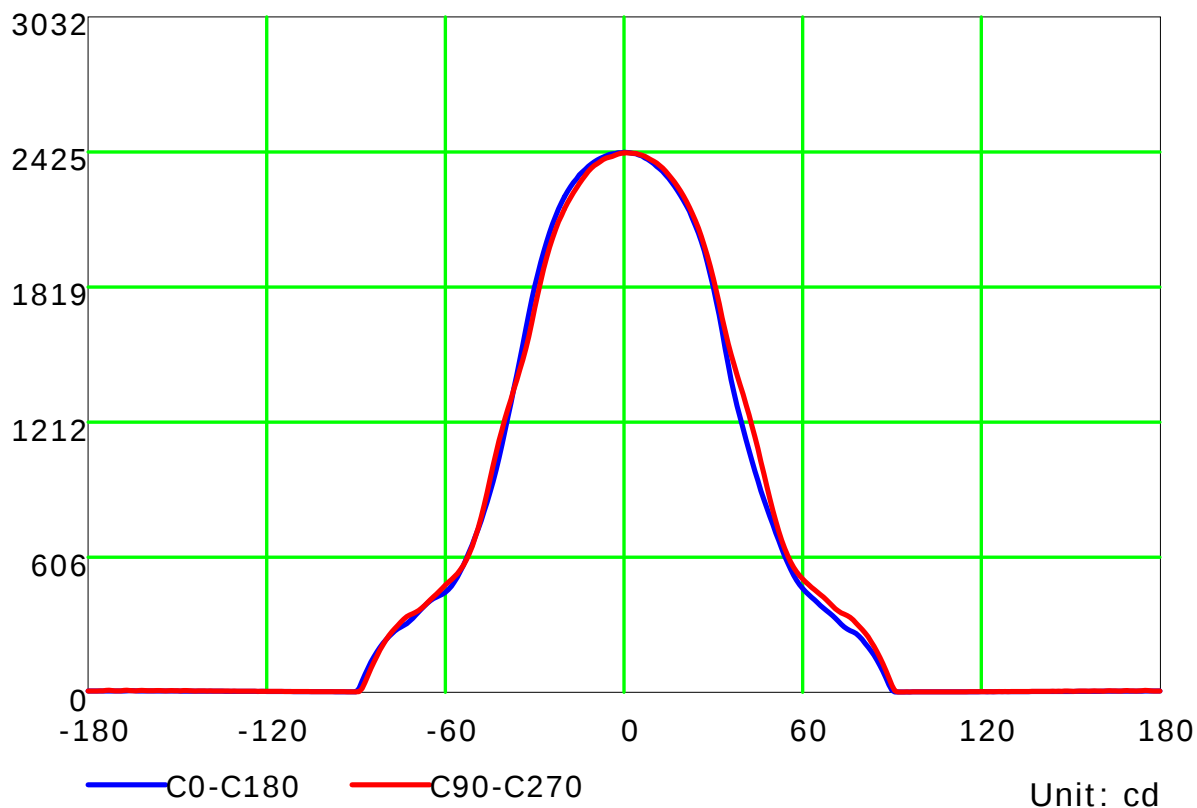
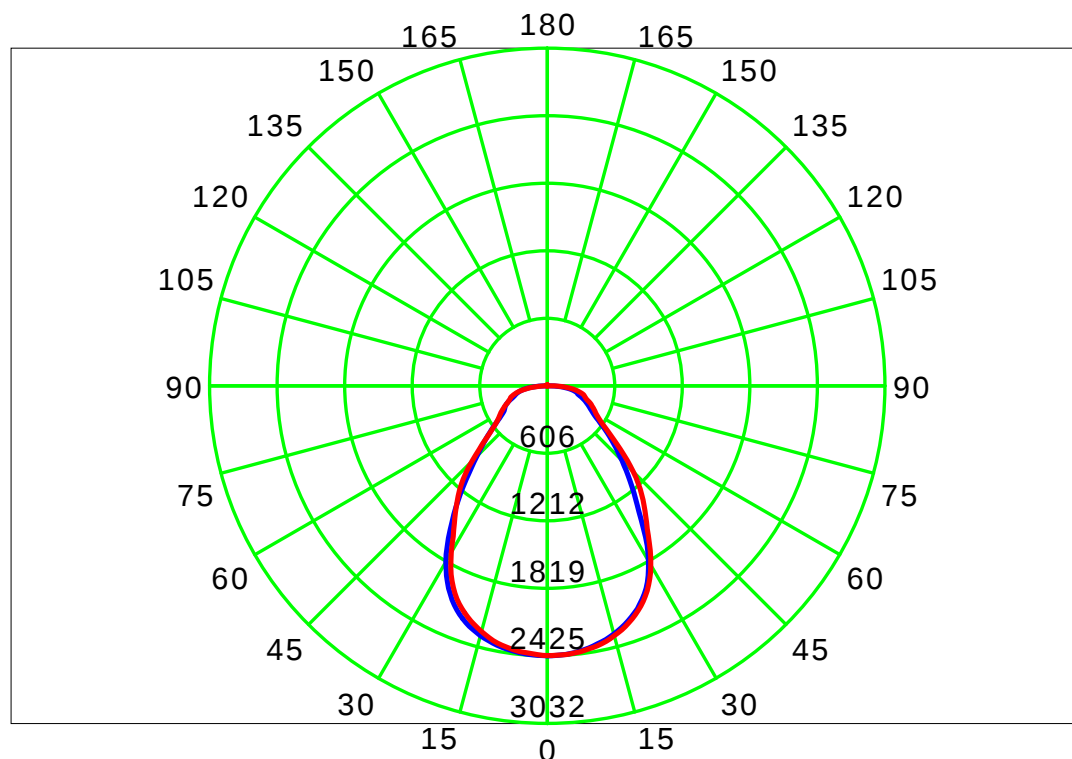
Test Device: LSG-1800B

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

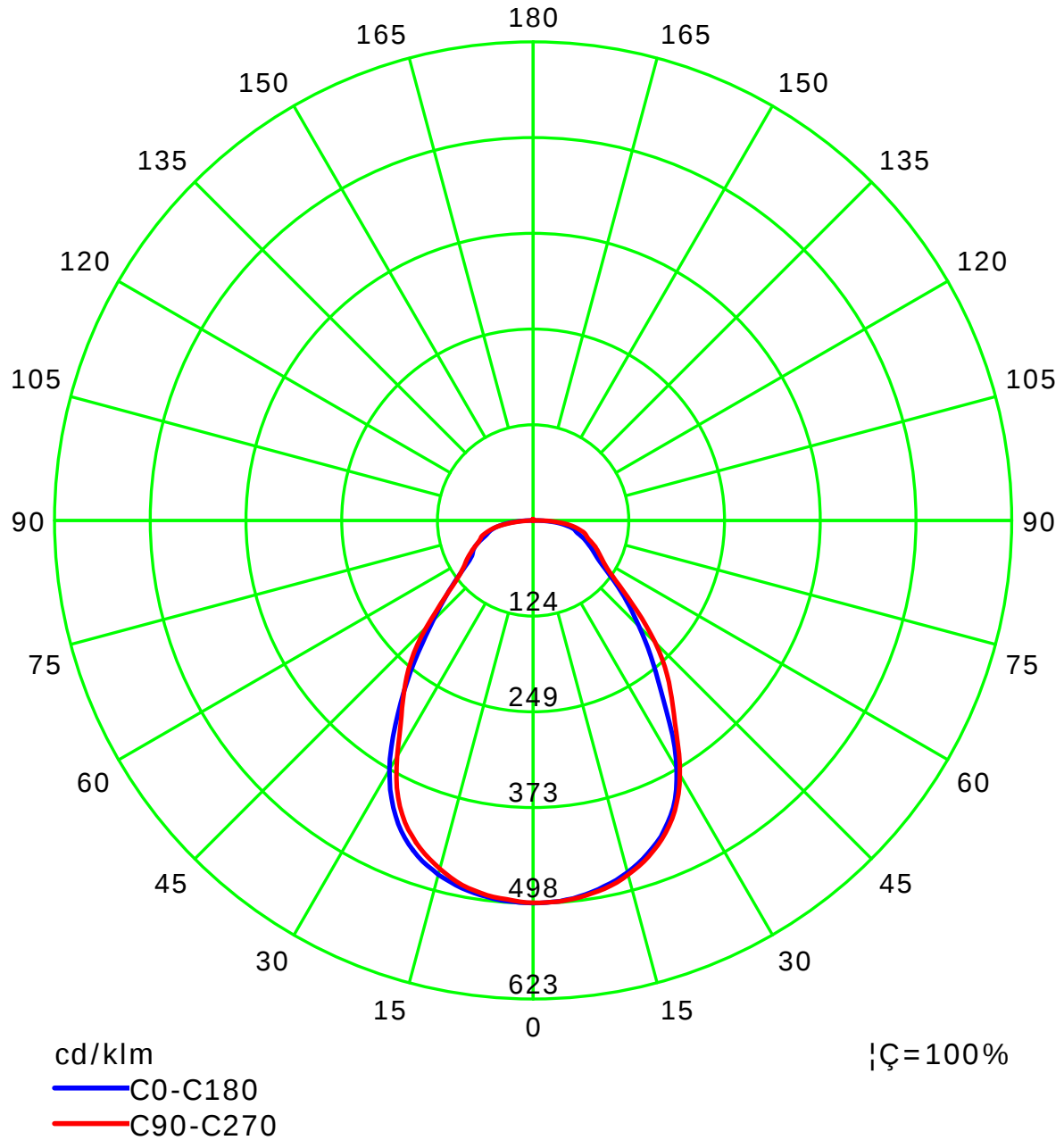
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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

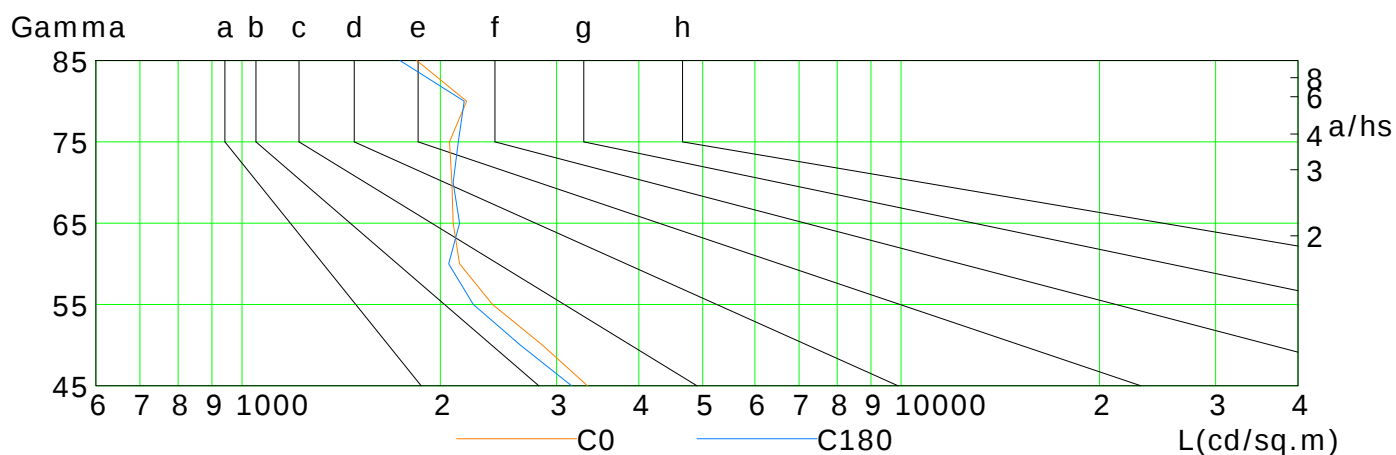
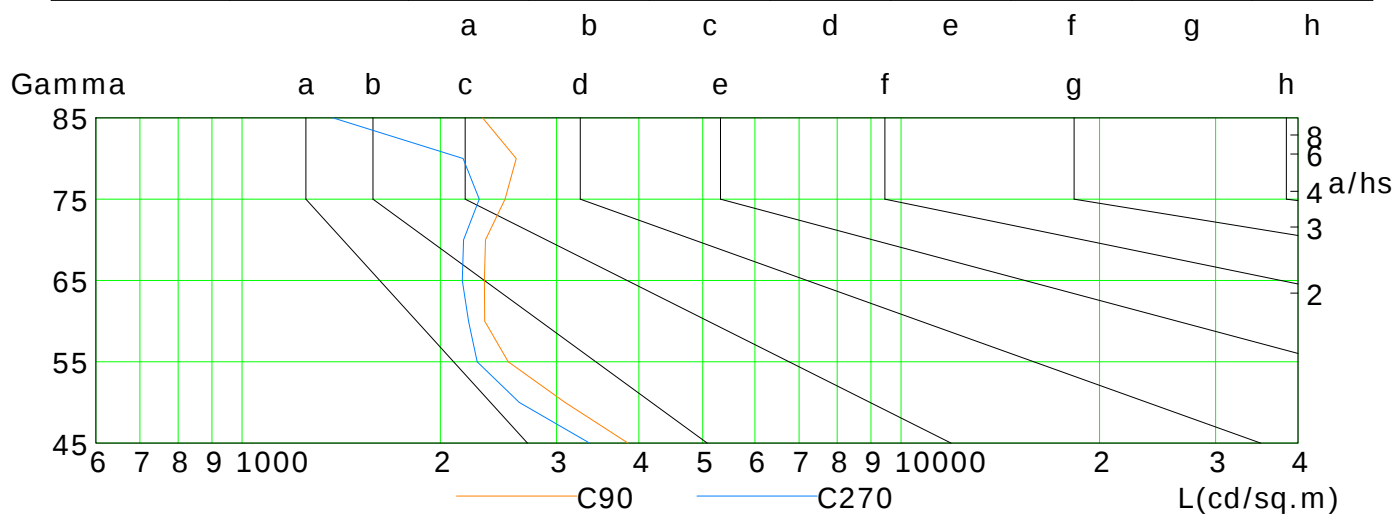
Distance: 12.677 m

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	3344	2856	2399	2138	2091	2081	2064	2191	1842
C90	3850	3092	2535	2334	2332	2341	2506	2606	2318
C180	3163	2645	2243	2059	2138	2091	2129	2173	1736
C270	3368	2634	2274	2206	2159	2168	2291	2165	1374

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

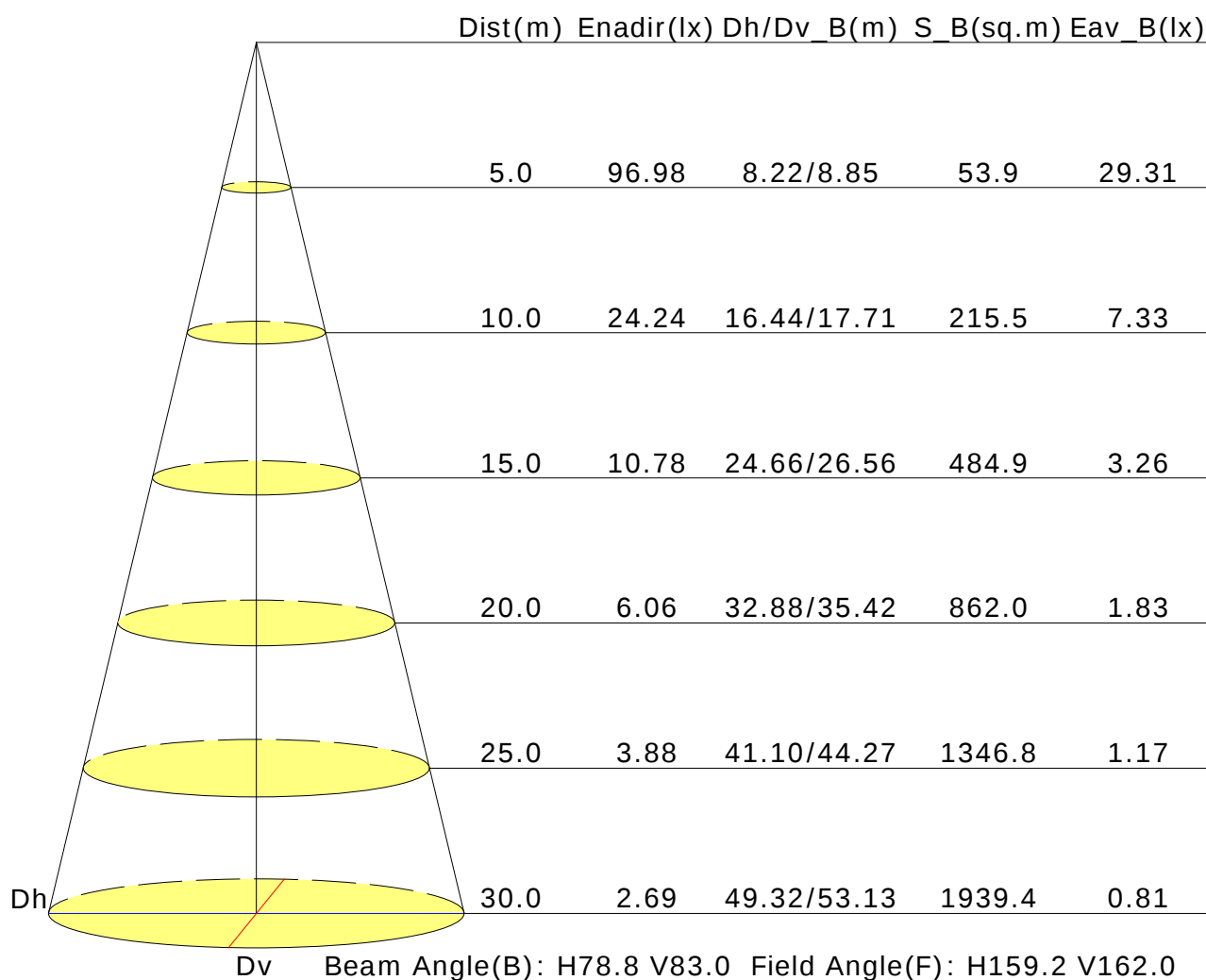
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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:

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	14.7	16.0	15.0	16.2	16.4	14.9	16.1	15.2	16.4	16.6
3H	16.1	17.2	16.4	17.5	17.8	16.3	17.5	16.7	17.8	18.0
4H	16.8	17.9	17.1	18.2	18.5	17.2	18.3	17.5	18.5	18.9
6H	17.5	18.5	17.9	18.9	19.2	18.0	19.0	18.4	19.3	19.7
8H	17.9	18.8	18.2	19.2	19.5	18.3	19.3	18.7	19.6	20.0
12H	18.1	19.0	18.5	19.4	19.7	18.6	19.5	19.0	19.8	20.2
X=4H Y=2H	15.1	16.2	15.5	16.5	16.8	15.3	16.4	15.6	16.7	17.0
3H	16.8	17.7	17.2	18.0	18.4	17.0	17.9	17.4	18.3	18.6
4H	17.6	18.5	18.0	18.8	19.2	18.0	18.9	18.4	19.2	19.6
6H	18.5	19.3	19.0	19.7	20.1	19.0	19.8	19.4	20.2	20.6
8H	18.9	19.6	19.4	20.0	20.5	19.4	20.1	19.9	20.5	21.0
12H	19.3	19.9	19.7	20.3	20.8	19.7	20.4	20.2	20.8	21.2
X=8H Y=4H	17.9	18.6	18.4	19.0	19.5	18.3	19.0	18.7	19.4	19.8
6H	19.0	19.6	19.5	20.0	20.5	19.4	20.0	19.9	20.4	20.9
8H	19.5	20.0	20.0	20.5	21.0	20.0	20.5	20.4	20.9	21.4
12H	19.9	20.3	20.4	20.8	21.3	20.4	20.8	20.9	21.3	21.8
X=12H Y=4H	18.0	18.6	18.4	19.0	19.5	18.3	18.9	18.8	19.4	19.8
6H	19.1	19.6	19.6	20.0	20.5	19.5	20.0	20.0	20.5	21.0
8H	19.6	20.1	20.1	20.5	21.1	20.1	20.5	20.6	21.0	21.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.7					+0.3/-0.6				
S=2.0H	+0.7/-1.0					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4865lm ($8\log(F/F_0) = 5.5$).

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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	0.90	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		0.50	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		0.54	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	0.62	0.66	0.72	0.77	0.80	0.84	0.87	
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 = 1.00									
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	0.55	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: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 = 1.00									
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:37W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												