

Report No.: 1

Test Time: 16.12.2019 19:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x24LED 0.48A 26.5W 5000K bez stekla

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.2 V

Current: 0.114 A

Power: 24.85 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 3634.9 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3634.9 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.3, 142.5, 152.1, 151.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 119.2, 111.7, 118.5, 118.6

Luminaire Efficacy Rating (LER): 146.32

Central Intensity: 1271.42 cd

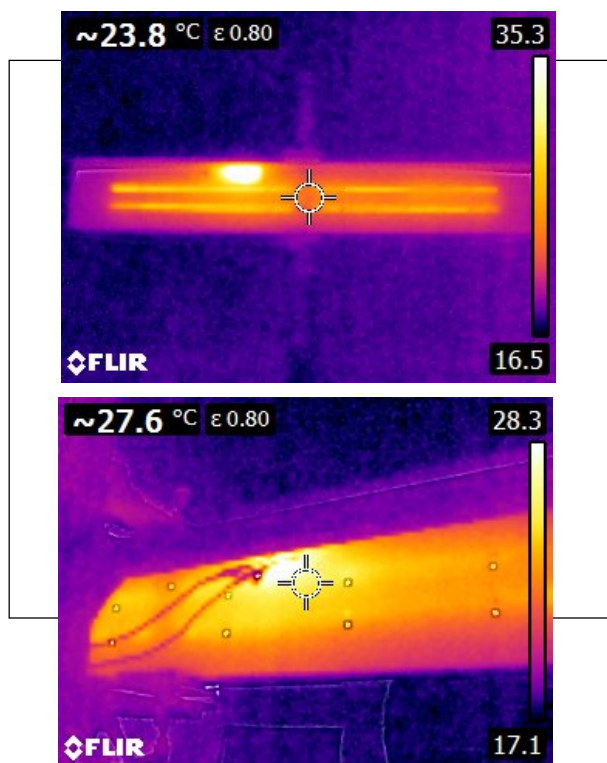
Max. Intensity: 1273.32 cd

Pos of Max. Intensity: H157.5 V1

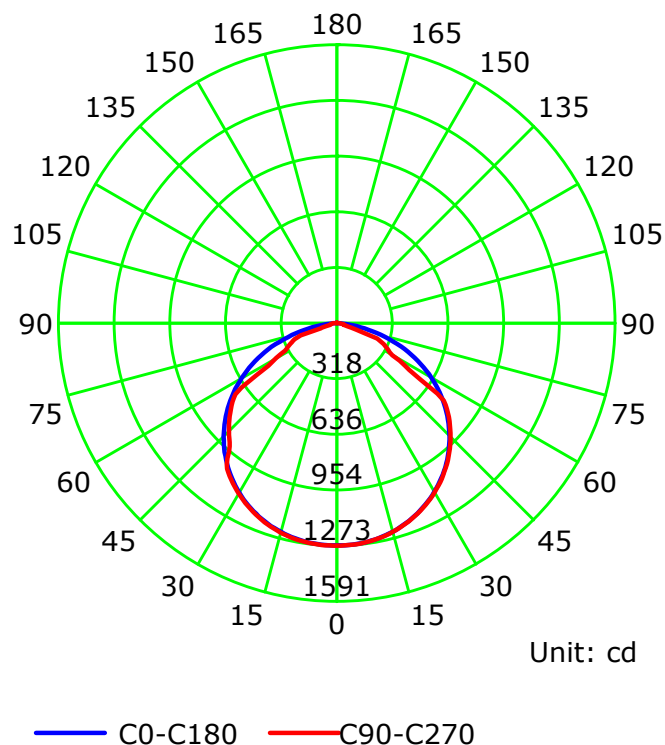
S/MH(C0/C180): 1.30

S/MH(C90/C270): 1.31

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

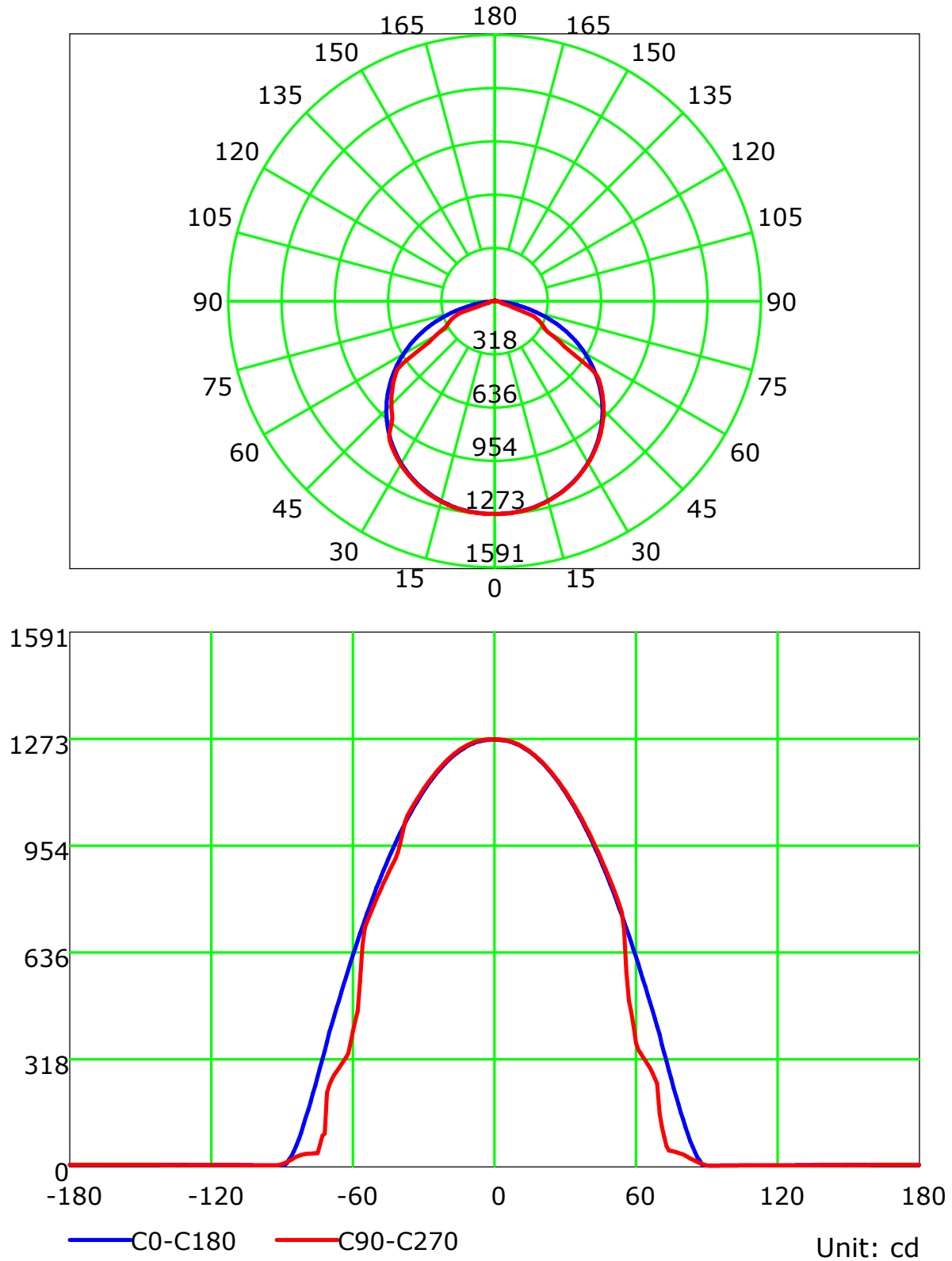
Test Device: LSG-1800B

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

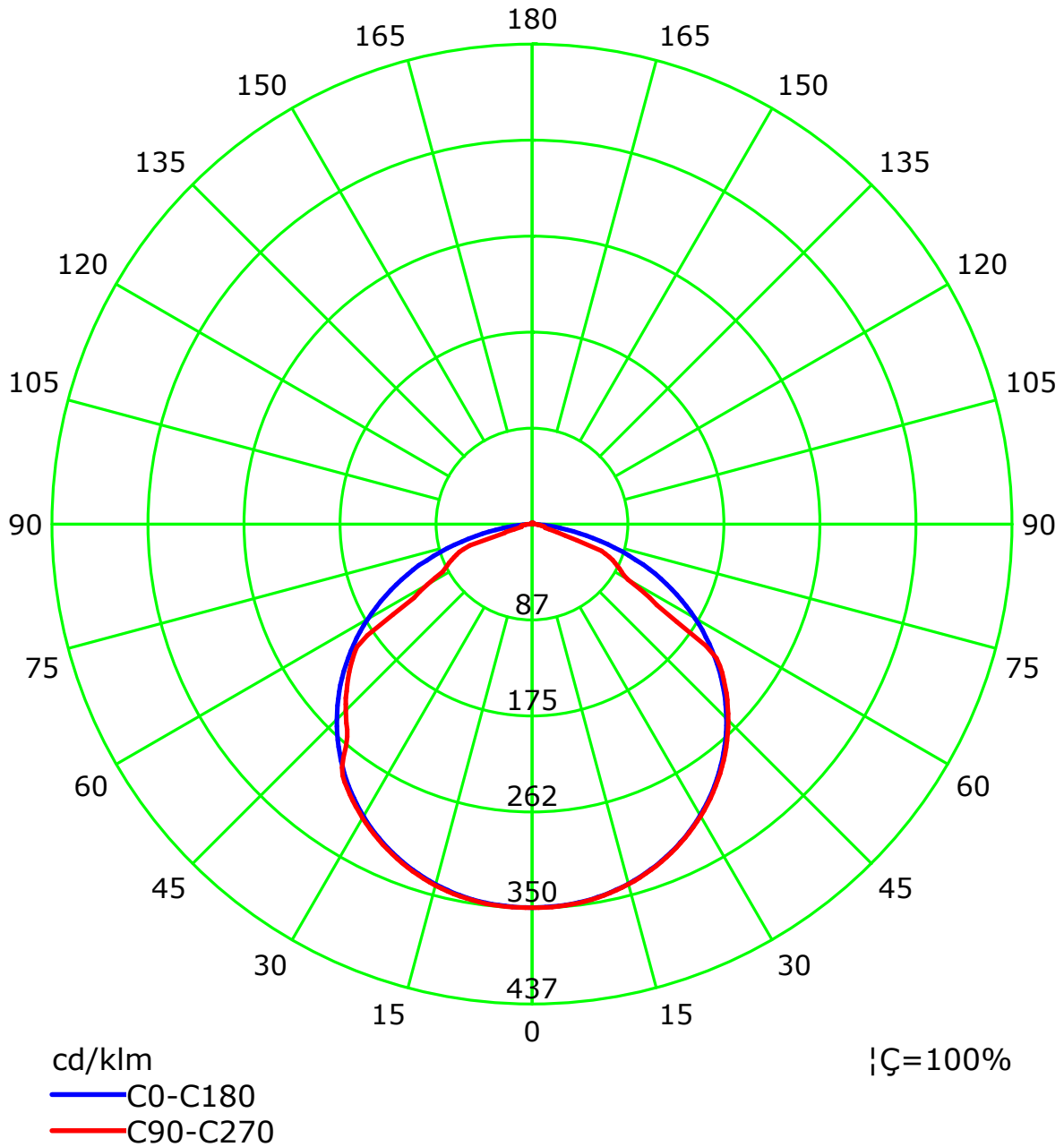
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



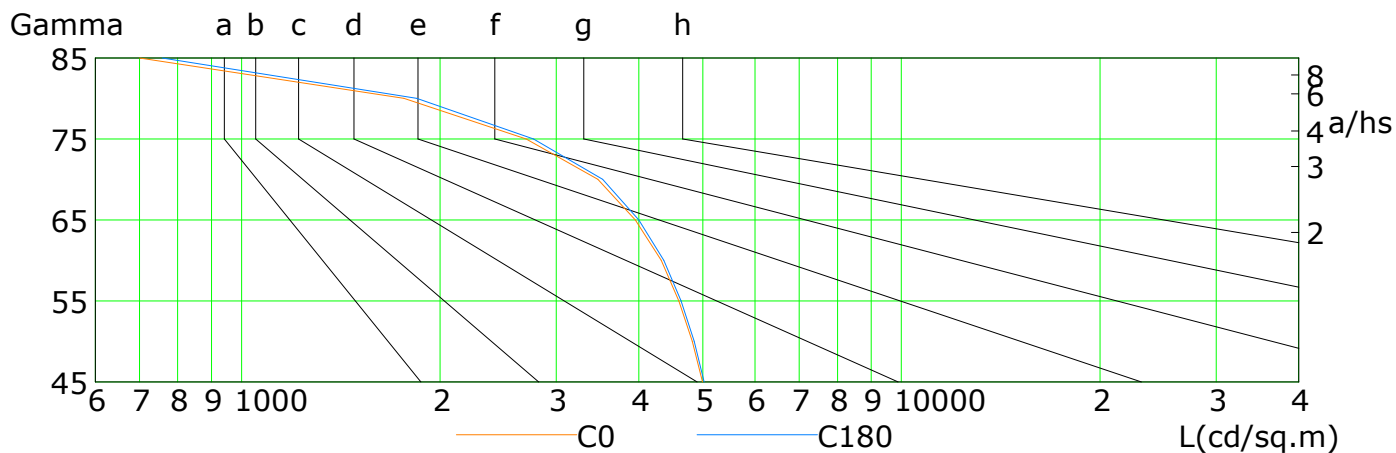
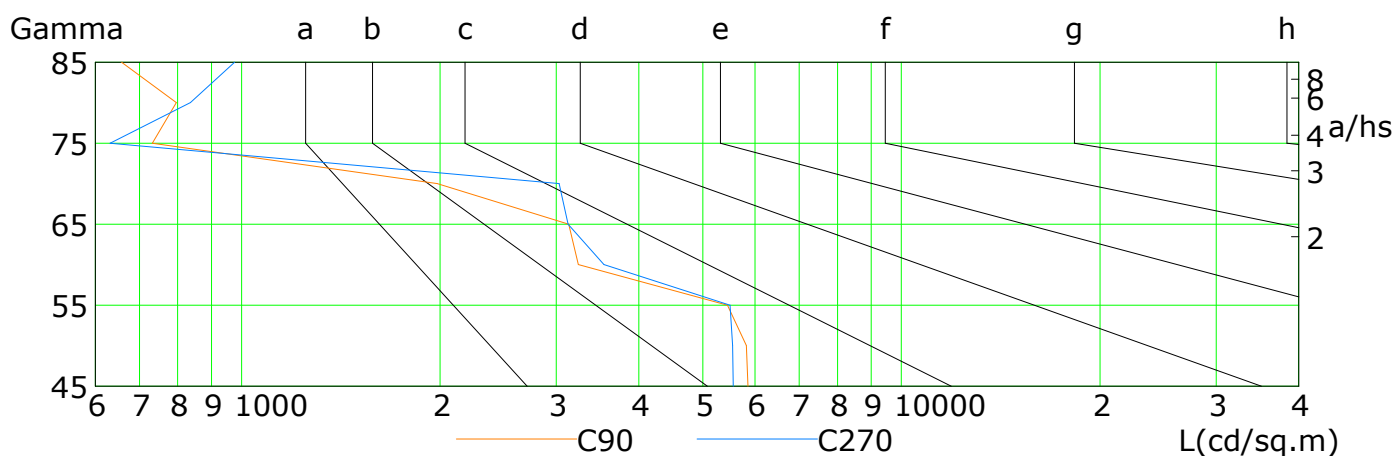
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h

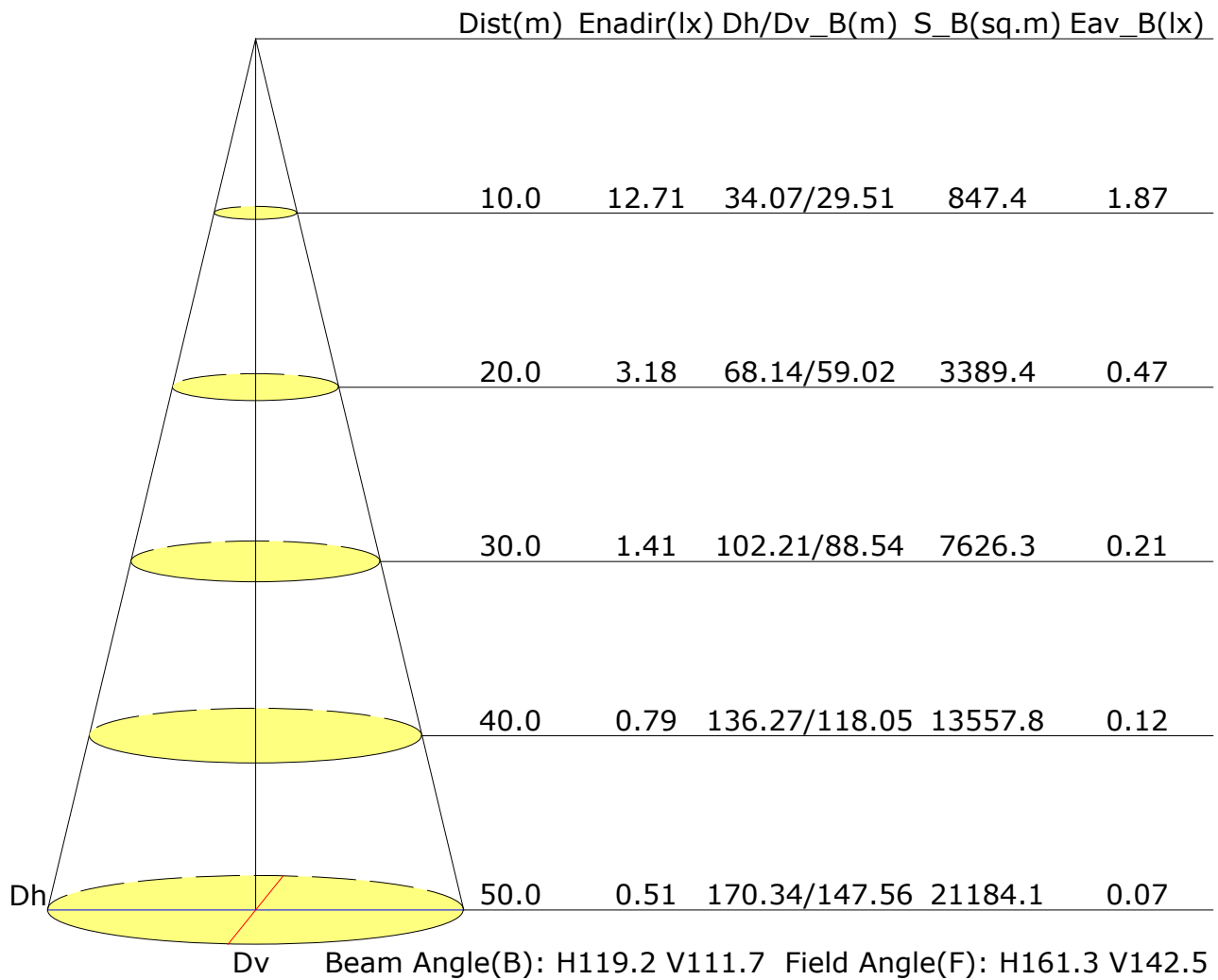


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4995	4822	4602	4323	3951	3469	2699	1762	700
C90	5855	5819	5450	3239	3133	1979	732	796	658
C180	5023	4855	4635	4362	4001	3525	2770	1842	758
C270	5563	5550	5500	3541	3126	3030	632	837	976

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	18.3	19.6	18.6	19.9	20.1	17.6	19.0	17.9	19.2	19.5
3H	19.7	20.9	20.0	21.2	21.5	18.4	19.6	18.7	19.9	20.1
4H	20.1	21.3	20.5	21.6	21.9	18.3	19.5	18.7	19.8	20.1
6H	20.3	21.4	20.7	21.7	22.0	18.3	19.4	18.7	19.7	20.0
8H	20.4	21.4	20.7	21.7	22.1	18.3	19.3	18.7	19.6	20.0
12H	20.3	21.3	20.7	21.7	22.0	18.3	19.2	18.7	19.6	19.9
X=4H Y=2H	18.8	19.9	19.1	20.2	20.5	18.2	19.3	18.5	19.6	19.9
3H	20.3	21.3	20.7	21.6	22.0	19.0	20.0	19.4	20.3	20.7
4H	20.8	21.7	21.3	22.1	22.5	19.0	19.9	19.4	20.3	20.6
6H	21.1	21.8	21.5	22.2	22.7	19.0	19.8	19.4	20.2	20.6
8H	21.1	21.8	21.6	22.2	22.7	19.0	19.7	19.4	20.1	20.5
12H	21.1	21.8	21.6	22.2	22.6	19.0	19.6	19.5	20.1	20.5
X=8H Y=4H	20.8	21.6	21.3	22.0	22.4	19.1	19.8	19.6	20.2	20.7
6H	21.1	21.7	21.6	22.1	22.6	19.1	19.7	19.6	20.1	20.6
8H	21.2	21.7	21.7	22.1	22.6	19.1	19.6	19.6	20.1	20.6
12H	21.2	21.6	21.7	22.1	22.6	19.2	19.6	19.7	20.1	20.6
X=12H Y=4H	20.8	21.4	21.3	21.9	22.3	19.1	19.7	19.6	20.2	20.6
6H	21.1	21.6	21.6	22.0	22.5	19.1	19.6	19.6	20.1	20.6
8H	21.2	21.6	21.7	22.1	22.6	19.1	19.6	19.6	20.0	20.6
Variations with the observer position at spacings:										
S=1.0H	+0.1/-0.2					+0.4/-0.2				
S=1.5H	+0.4/-0.7					+1.1/-2.1				
S=2.0H	+0.8/-1.1					+1.7/-1.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3635lm ($8\log(F/F_0) = 4.5$).

C Plane (°):0.0-360.0: 22.5
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 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	0.58	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	0.95	0.98	
0.50	0.50	0.20	0.56	0.66	0.74	0.79	0.86	0.91	0.94	0.98	1.00	
	0.30		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.95	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	0.54	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	0.84	0.87	0.91	0.94	
	0.20		0.43	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	0.72	0.77	0.80	0.85	0.87	
Rating:25W 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	0.81	0.68	0.59	0.46	0.38	0.32	0.25	0.20	
	0.30		0.83	0.69	0.59	0.52	0.42	0.35	0.30	0.23	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		0.81	0.67	0.57	0.50	0.40	0.34	0.29	0.22	0.18	
	0.20		0.70	0.59	0.51	0.46	0.37	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.93	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	0.51	0.45	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:25W 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	0.15	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:25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												