

Report No.: 1

Test Time: 31.01.2020 11:00

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 200W 5000K 60gr. staraya linza  
Luminous Length (mm): 220 mm  
Luminous Height (mm): 338 mm  
Current: 0.855 A  
Power Factor: 0.980

Luminous Width (mm): 174 mm  
Voltage: 221.2 V  
Power: 201.43 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 25783 lm

Downward Ratio: 98%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.3, 110.7, 115.8, 116.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 51.5, 50.3, 49.3, 49.3

Luminaire Efficacy Rating (LER): 128.05

Max. Intensity: 24366.26 cd

S/MH(C0/C180): 0.80

Total Rated Lamp Lumens: 25783.0 lm

Efficiency: 100%

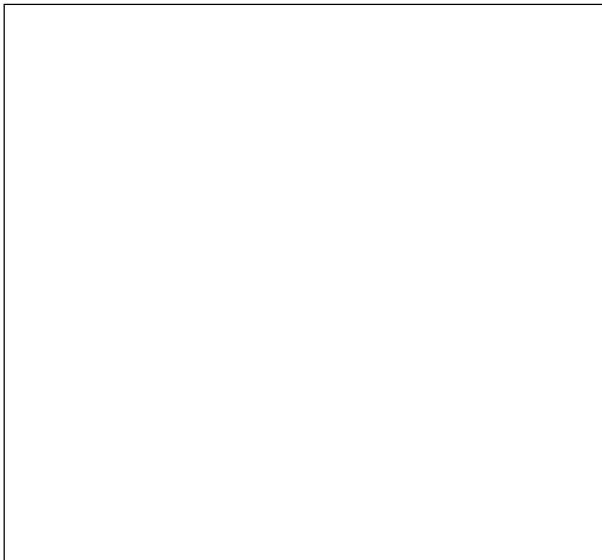
Upward Ratio: 2%

Central Intensity: 24041.54 cd

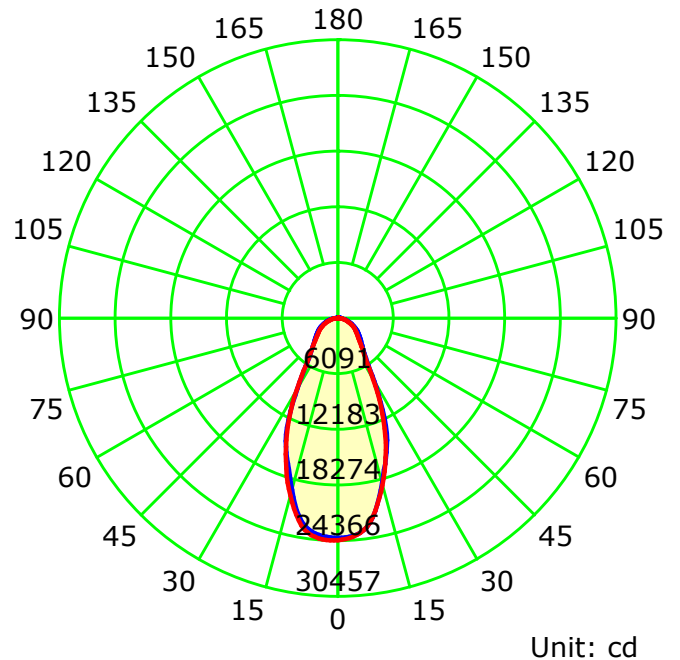
Pos of Max. Intensity: H315 V1

S/MH(C90/C270): 0.78

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

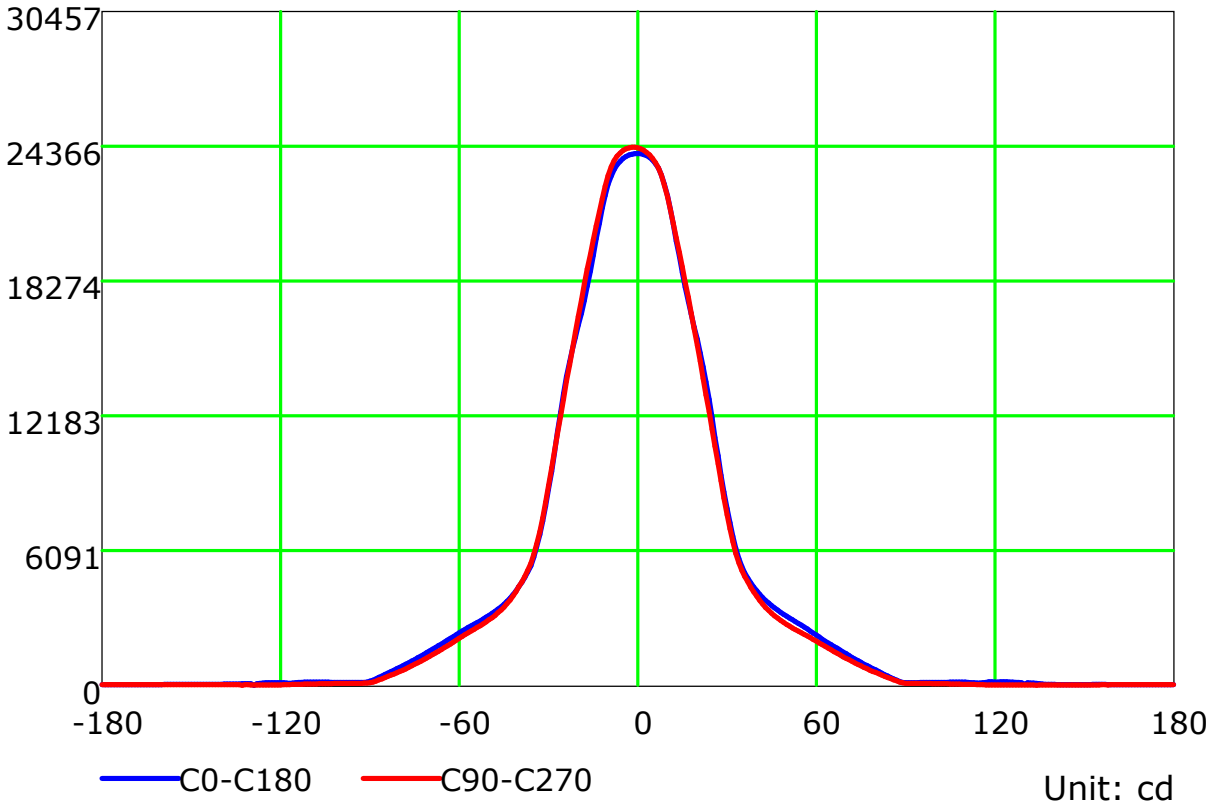
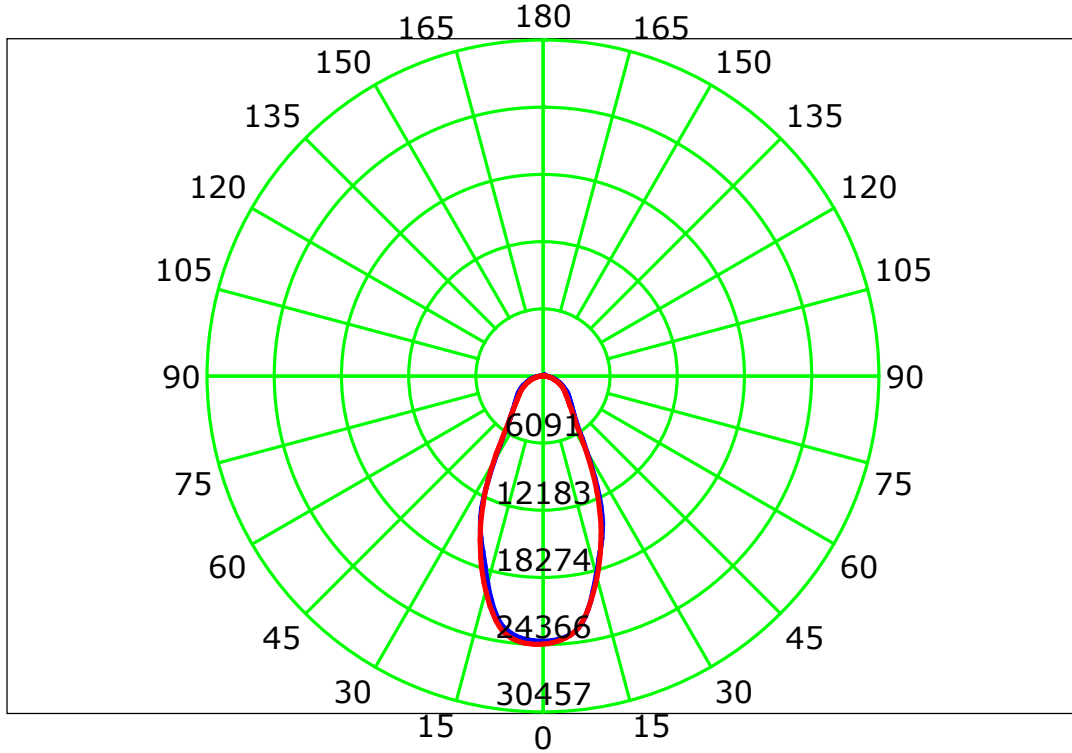
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

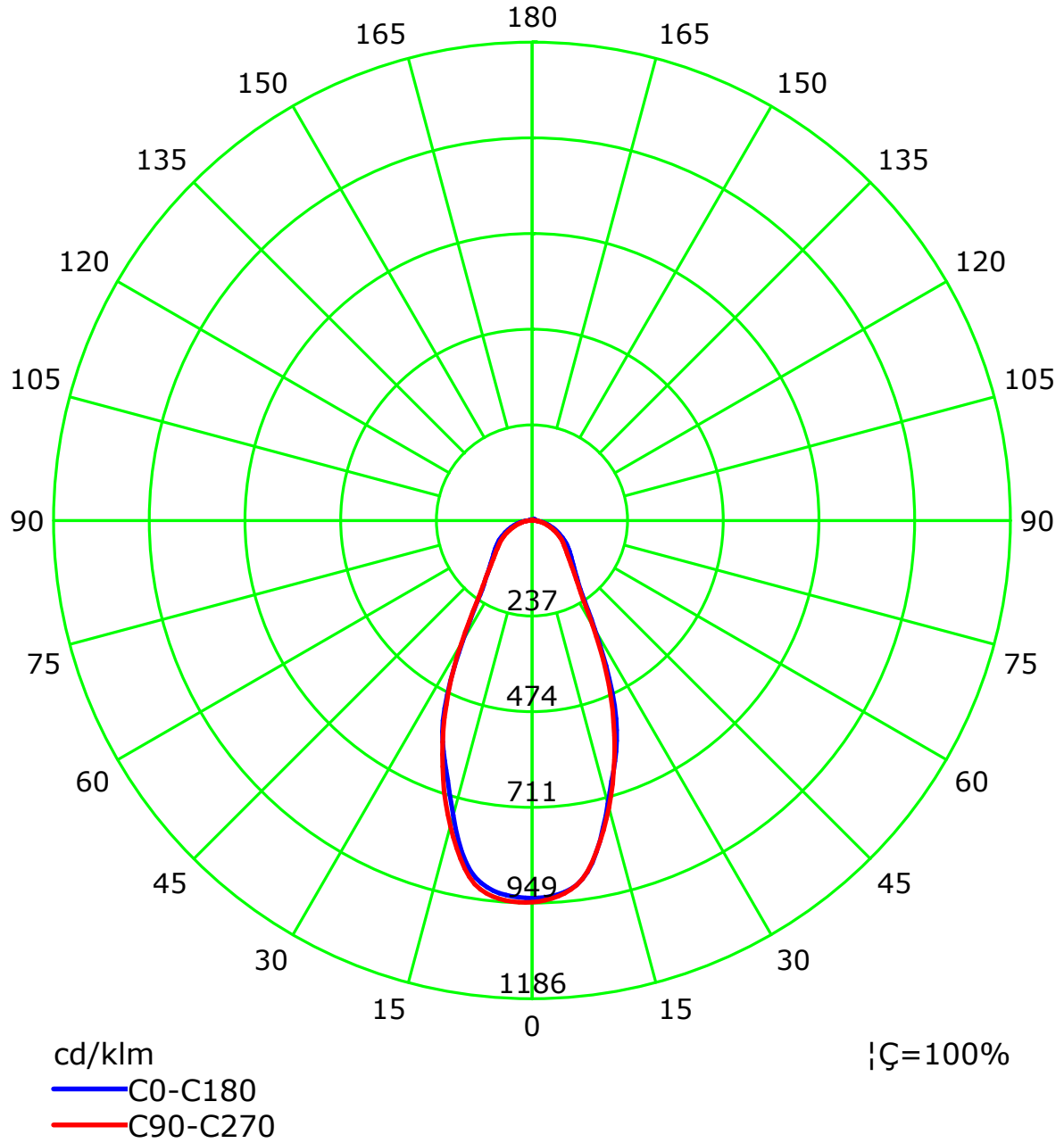
## Luminous Intensity Distribution Curve



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)



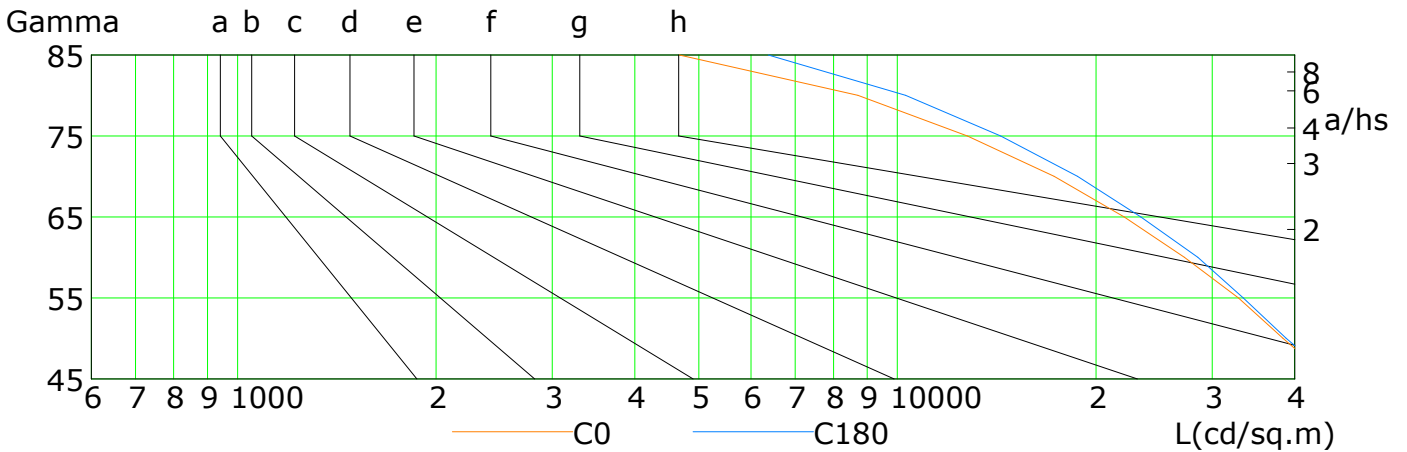
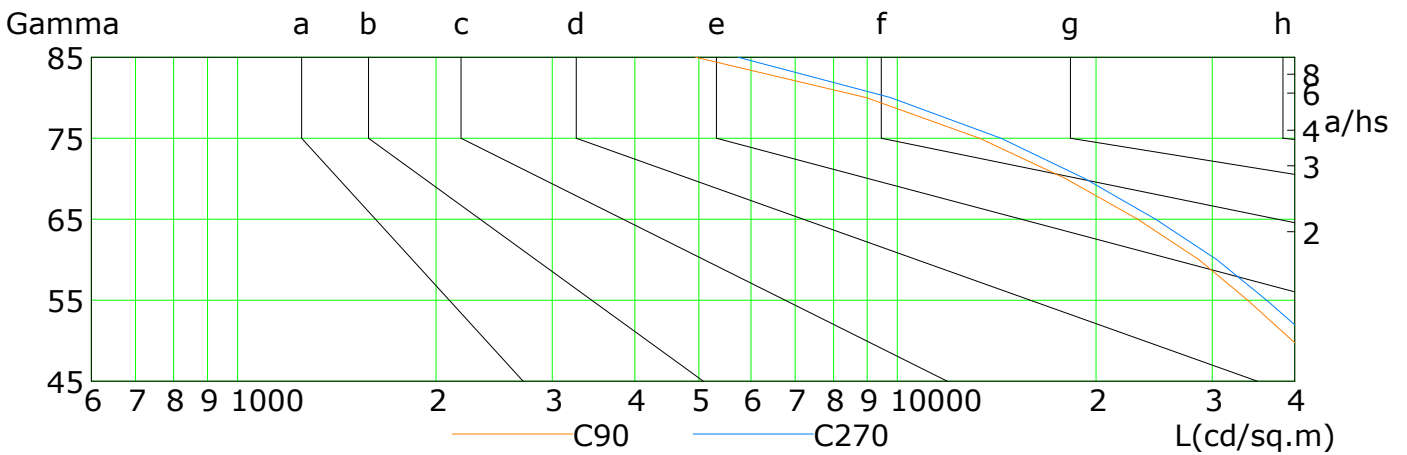
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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)							
		2000	1000	500	<=300				
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	45390	38414	32887	27239	22066	17279	12772	8713	4671
C90	47579	39653	33954	28640	23126	17981	13316	8966	4946
C180	46024	38827	33428	28525	23381	18748	14332	10289	6370
C270	51584	42611	36275	30459	24626	19224	14361	9761	5736

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

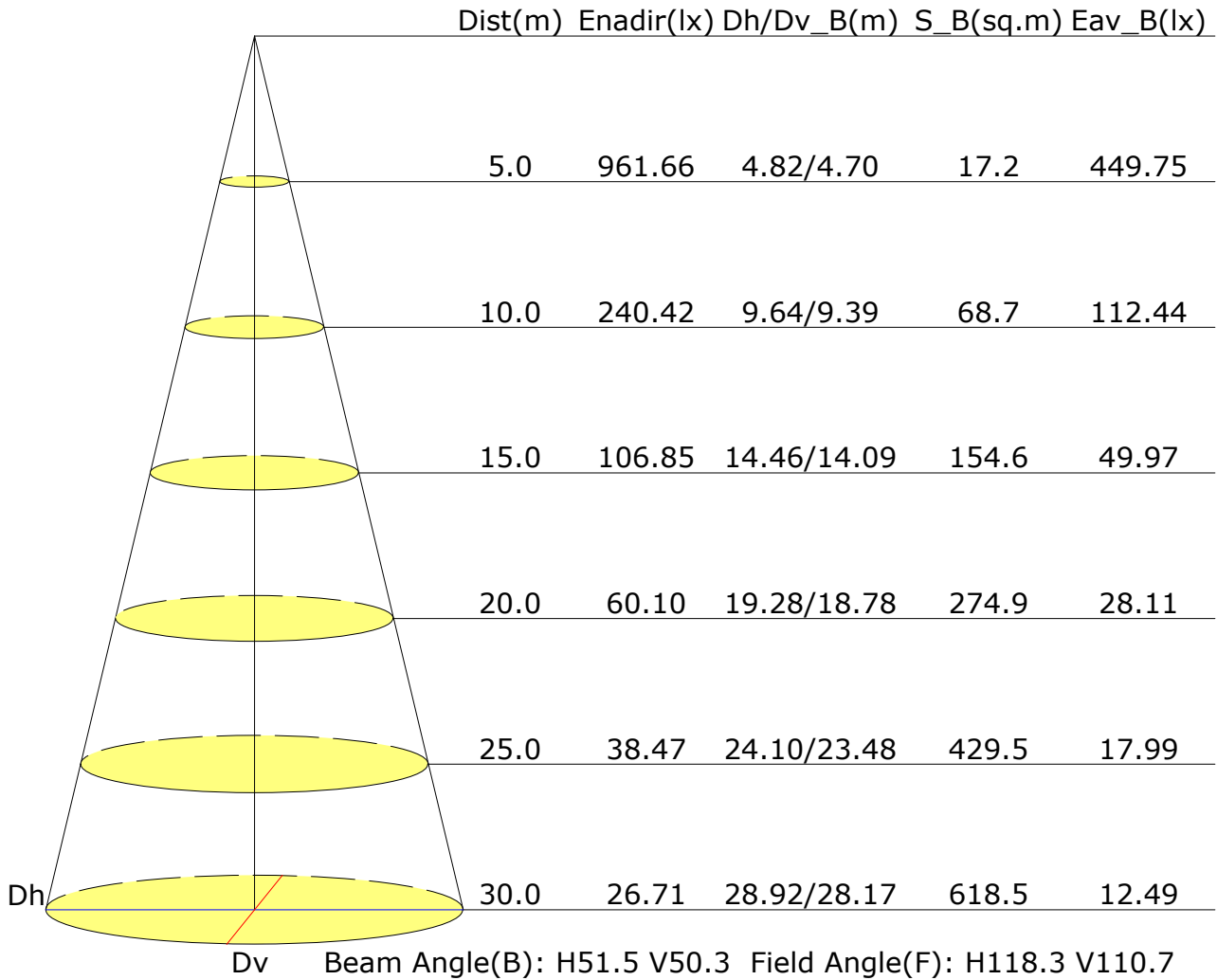
Test Device: LSG-1800B

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	22.7	23.8	23.1	24.1	24.4	22.7	23.8	23.0	24.1	24.3
3H	23.7	24.7	24.0	25.0	25.3	23.6	24.6	24.0	24.9	25.2
4H	24.0	25.0	24.4	25.3	25.6	23.9	24.9	24.3	25.2	25.5
6H	24.3	25.1	24.6	25.5	25.8	24.2	25.0	24.5	25.4	25.7
8H	24.3	25.2	24.7	25.5	25.9	24.2	25.1	24.6	25.4	25.8
12H	24.3	25.2	24.7	25.5	25.9	24.2	25.1	24.6	25.4	25.8
X=4H Y=2H	23.1	24.0	23.4	24.3	24.7	23.1	24.0	23.4	24.3	24.6
3H	24.2	25.0	24.6	25.4	25.7	24.1	24.9	24.5	25.3	25.7
4H	24.6	25.4	25.0	25.7	26.1	24.5	25.3	25.0	25.6	26.0
6H	24.9	25.6	25.4	26.0	26.4	24.8	25.5	25.3	25.9	26.3
8H	25.0	25.6	25.5	26.1	26.5	24.9	25.5	25.4	25.9	26.4
12H	25.1	25.6	25.6	26.1	26.5	25.0	25.5	25.5	26.0	26.4
X=8H Y=4H	24.7	25.3	25.2	25.8	26.2	24.6	25.2	25.1	25.7	26.1
6H	25.1	25.6	25.6	26.1	26.6	25.0	25.5	25.5	26.0	26.5
8H	25.3	25.7	25.8	26.2	26.7	25.2	25.6	25.7	26.1	26.6
12H	25.4	25.7	25.9	26.2	26.8	25.3	25.6	25.8	26.2	26.7
X=12H Y=4H	24.7	25.3	25.2	25.7	26.2	24.6	25.2	25.1	25.6	26.1
6H	25.1	25.6	25.6	26.1	26.6	25.0	25.5	25.5	26.0	26.5
8H	25.3	25.7	25.8	26.2	26.7	25.2	25.6	25.7	26.1	26.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.6/-0.4				
S=1.5H	+0.8/-0.8					+1.3/-1.0				
S=2.0H	+1.5/-1.5					+2.2/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 25783lm ( $8\log(F/F_0) = 11.3$ ).

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 = 0.75									
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	0.68	0.76	0.82	0.87	0.93	0.97	0.99	1.03	1.05	
	0.30		0.62	0.70	0.76	0.81	0.87	0.92	0.95	1.00	1.03	
	0.20		0.57	0.65	0.71	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.67	0.74	0.80	0.84	0.89	0.93	0.96	0.99	1.01	
	0.30		0.61	0.69	0.74	0.79	0.85	0.89	0.92	0.96	0.99	
	0.20		0.56	0.64	0.70	0.75	0.81	0.86	0.89	0.94	0.96	
0.30	0.50	0.20	0.65	0.72	0.77	0.81	0.86	0.90	0.92	0.95	0.97	
	0.30		0.60	0.67	0.73	0.77	0.83	0.86	0.89	0.93	0.95	
	0.20		0.56	0.64	0.69	0.74	0.80	0.84	0.87	0.91	0.93	
0.00	0.00	0.00	0.54	0.61	0.66	0.70	0.76	0.80	0.82	0.86	0.88	
<p>Rating:201W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75									
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	0.82	0.68	0.58	0.50	0.40	0.33	0.29	0.22	0.18	
	0.30		0.68	0.58	0.50	0.45	0.36	0.31	0.27	0.21	0.17	
	0.20		0.59	0.51	0.45	0.40	0.33	0.28	0.25	0.20	0.17	
0.50	0.50	0.20	0.78	0.65	0.55	0.48	0.38	0.35	0.27	0.21	0.17	
	0.30		0.66	0.56	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.58	0.50	0.43	0.39	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.20	0.16	
	0.30		0.65	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.16	
	0.20		0.56	0.48	0.42	0.38	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.45	0.37	0.32	0.28	0.23	0.19	0.16	0.13	0.11	
<p>Rating:201W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												



## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75									
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	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
<p>Rating:201W Photometrically tested without ceiling board.                      Multiply UF values by service correction factors                      Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												