

Report No.:

Test Time: 29.10.2020 12:22

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 88/200 80LED 0,3A 14W 5000K opal (источник ИТС30-300CM)

Luminous Length (mm): 211

Luminous Width (mm): 72

Luminous Height (mm): 87

Voltage: 221.5 V

Current: 0.070 A

Power: 14.71 W

Power Factor: 0.937

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1229.6 lm

Measurement Flux: 1229.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.8, 151.2, 154.8, 155.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.9, 97.4, 100.3, 100.3

Luminaire Efficacy Rating (LER): 83.64

Central Intensity: 491.53 cd

Max. Intensity: 491.61 cd

Pos of Max. Intensity: H90 V0

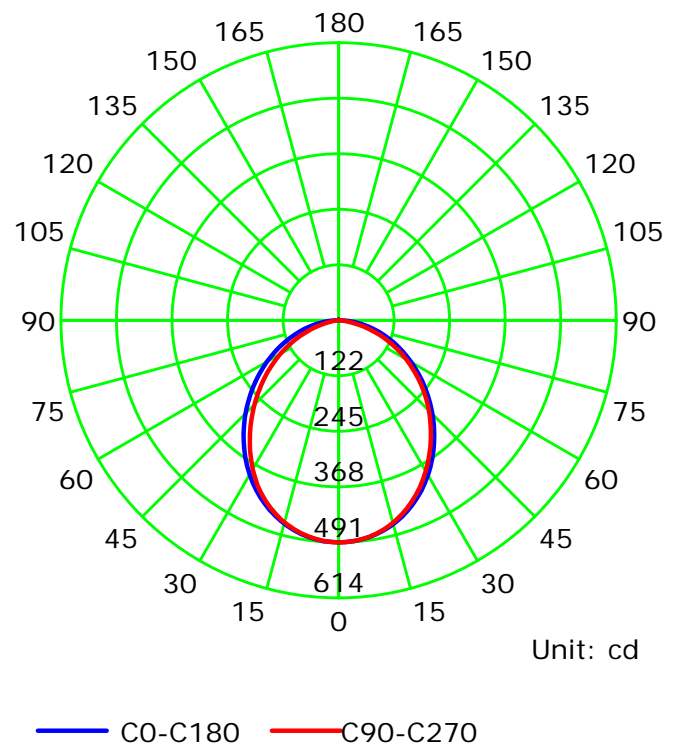
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.17

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.682 m

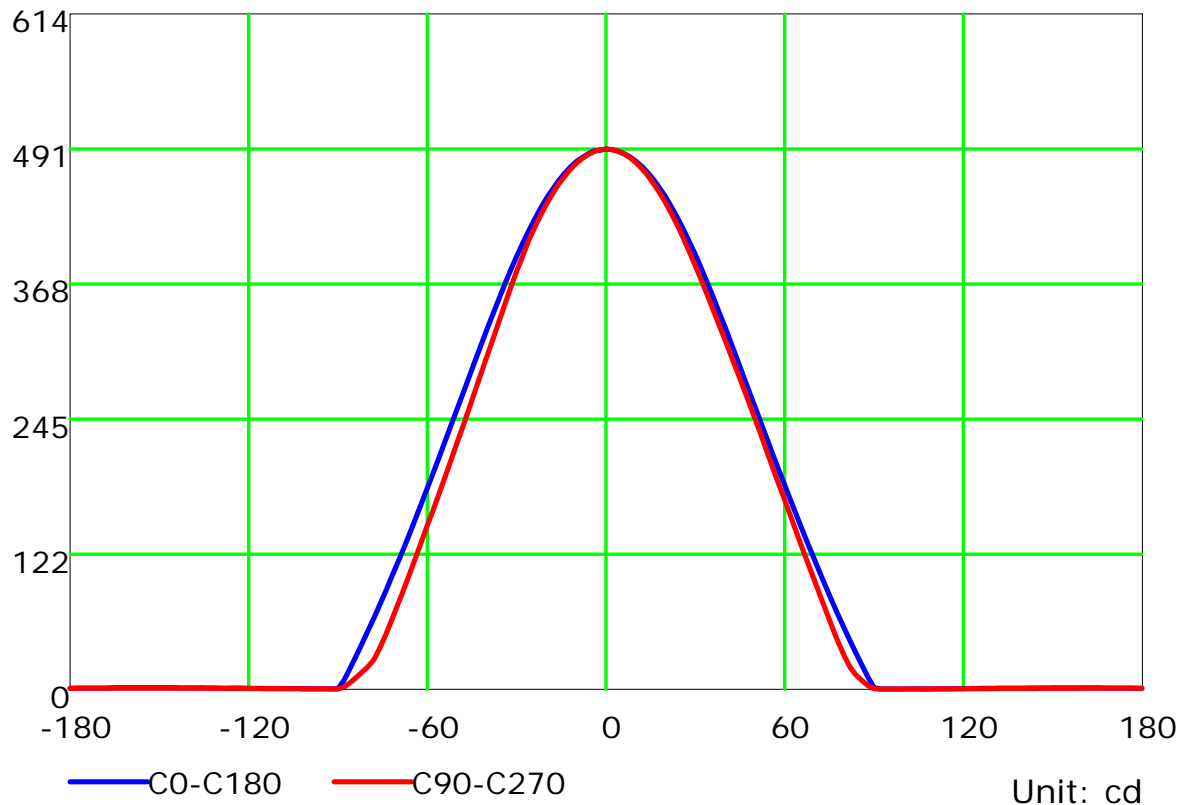
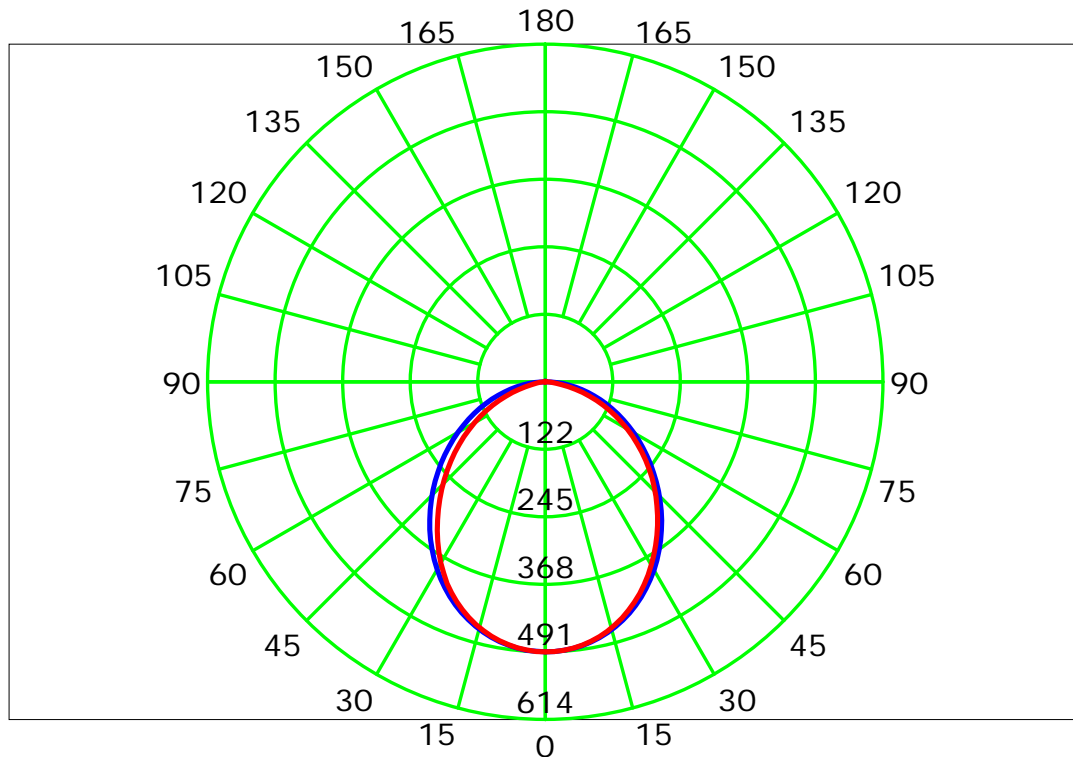
Temperature:

Humidity:

Operator:

Inspector:

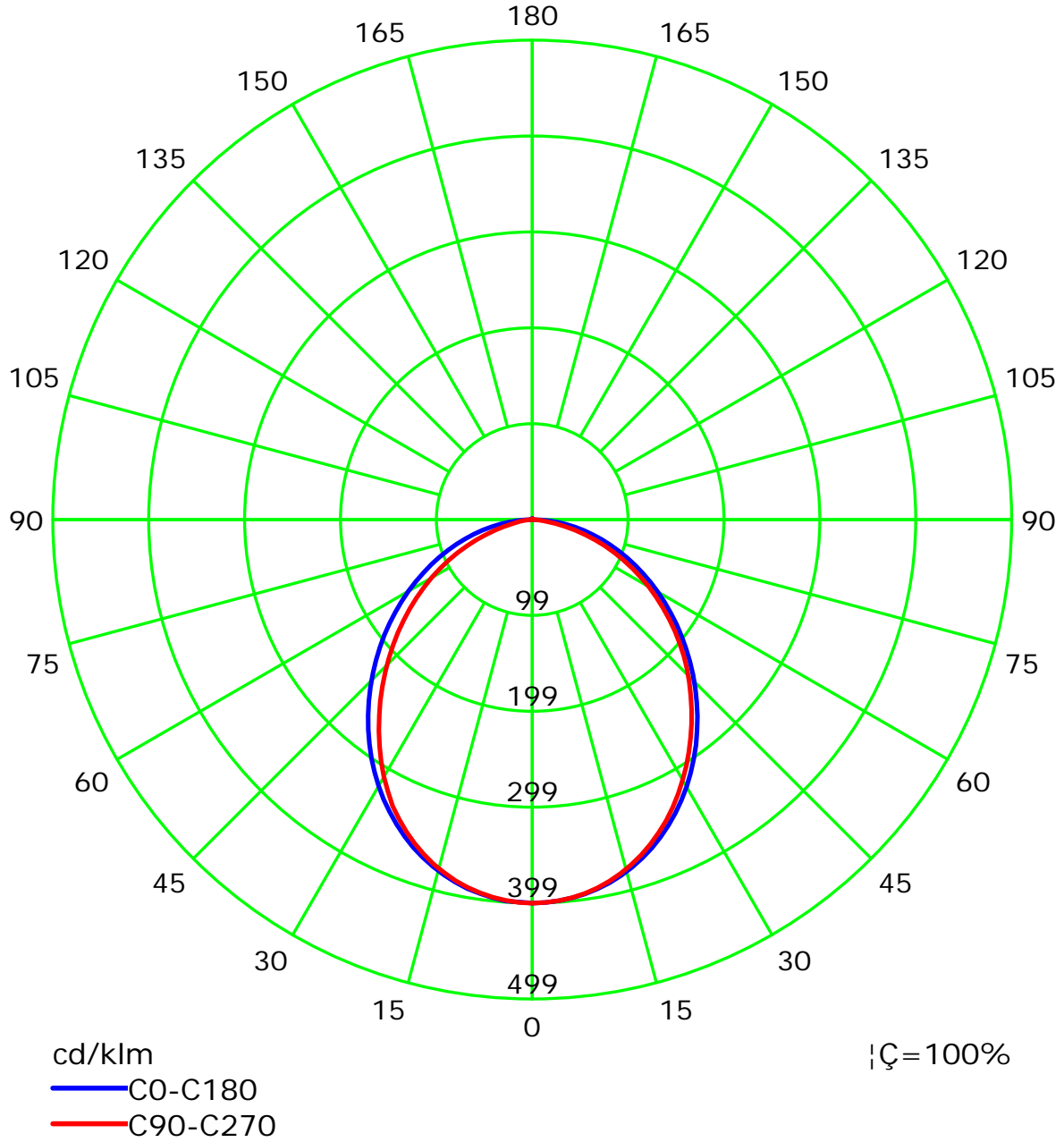
## Luminous Intensity Distribution Curve



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

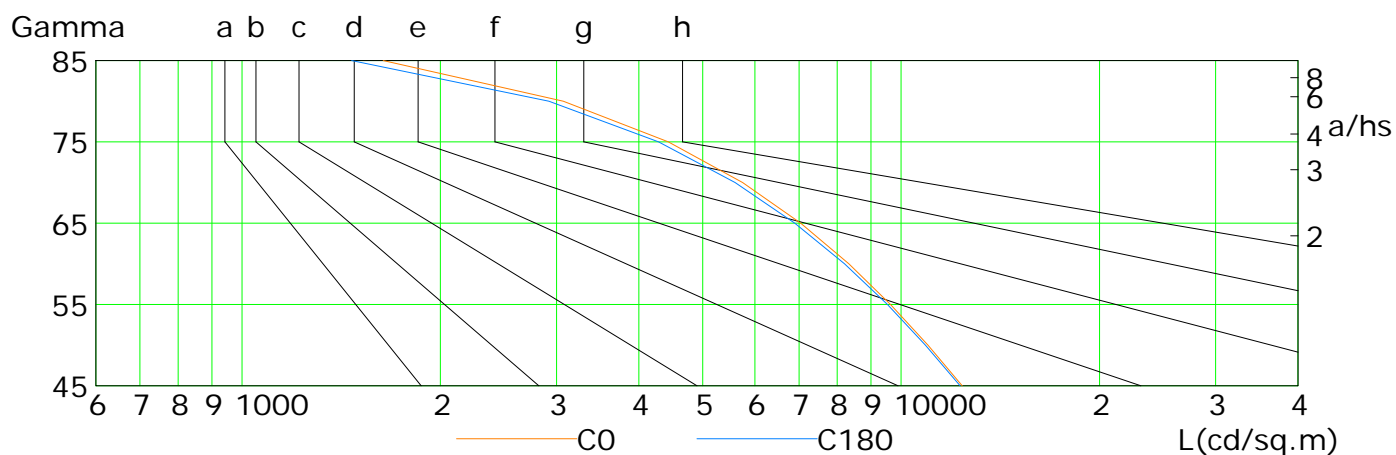
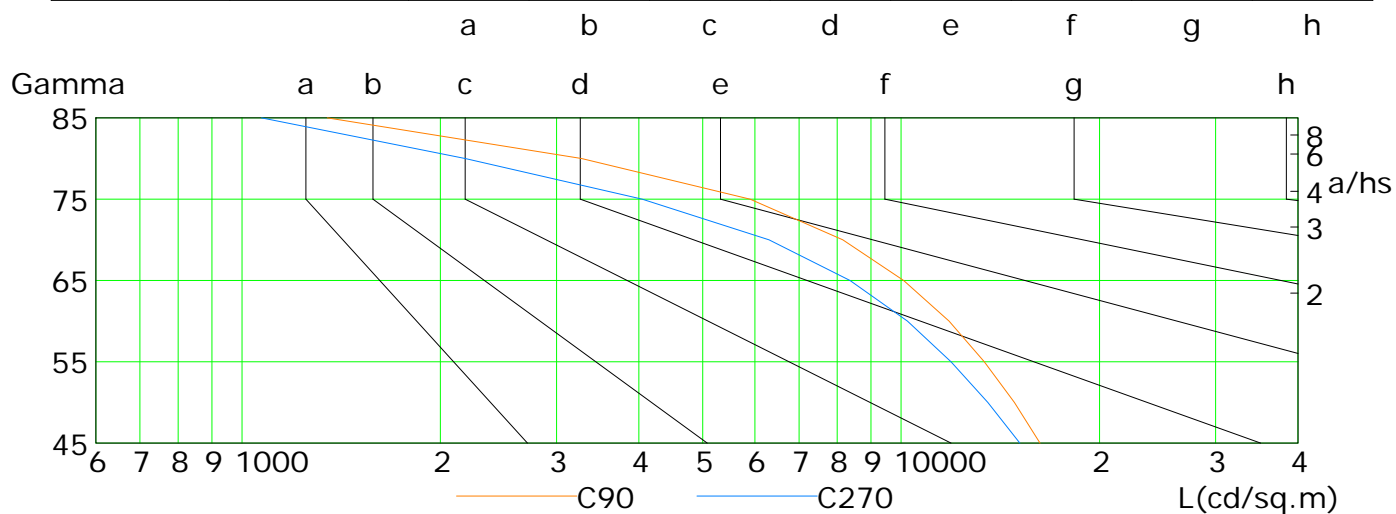
Gamma Plane (°): 0.0-180.0: 2.0  
 Test Device: LSG-1800B  
 Distance: 12.682 m  
 Humidity:  
 Inspector:

## 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	12381	10981	9635	8329	7041	5748	4435	3071	1638
C90	16240	14853	13368	11823	10084	8155	5900	3274	1347
C180	12290	10883	9531	8206	6897	5596	4285	2921	1467
C270	15138	13535	11904	10223	8362	6303	4048	2180	1071

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

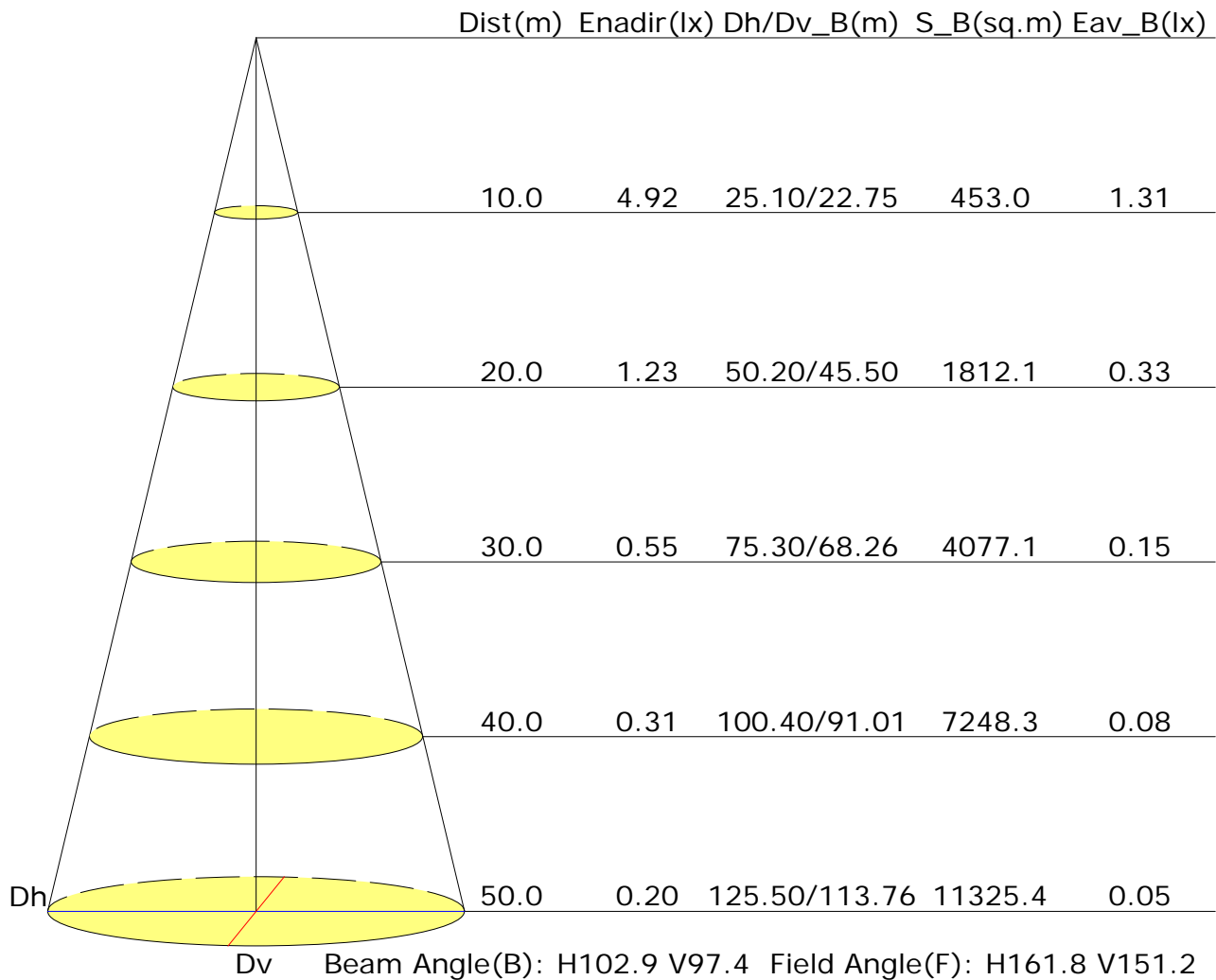
Test Device: LSG-1800B

Distance: 12.682 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	20.3	21.7	20.6	21.9	22.2	20.5	21.9	20.8	22.1	22.3
3H	21.5	22.7	21.8	23.0	23.2	21.5	22.7	21.8	23.0	23.3
4H	21.9	23.0	22.2	23.3	23.6	21.8	22.9	22.1	23.2	23.5
6H	22.1	23.2	22.5	23.5	23.8	21.9	23.0	22.3	23.3	23.6
8H	22.2	23.2	22.6	23.5	23.9	21.9	22.9	22.3	23.2	23.6
12H	22.2	23.2	22.6	23.5	23.9	21.9	22.9	22.3	23.2	23.5
X=4H Y=2H	20.8	21.9	21.1	22.2	22.5	20.9	22.1	21.3	22.4	22.7
3H	22.1	23.1	22.5	23.4	23.7	22.1	23.0	22.4	23.4	23.7
4H	22.6	23.5	23.0	23.8	24.2	22.4	23.3	22.8	23.7	24.0
6H	22.9	23.7	23.3	24.1	24.5	22.6	23.3	23.0	23.7	24.1
8H	23.0	23.7	23.5	24.1	24.6	22.6	23.3	23.0	23.7	24.1
12H	23.1	23.7	23.5	24.1	24.6	22.6	23.2	23.0	23.6	24.1
X=8H Y=4H	22.7	23.4	23.1	23.8	24.2	22.5	23.2	23.0	23.6	24.1
6H	23.1	23.7	23.6	24.1	24.6	22.7	23.3	23.2	23.7	24.2
8H	23.2	23.8	23.7	24.2	24.7	22.8	23.3	23.3	23.7	24.2
12H	23.3	23.8	23.8	24.3	24.8	22.8	23.2	23.3	23.7	24.2
X=12H Y=4H	22.7	23.3	23.1	23.7	24.2	22.5	23.2	23.0	23.6	24.0
6H	23.1	23.6	23.6	24.1	24.6	22.7	23.2	23.2	23.7	24.2
8H	23.2	23.7	23.7	24.2	24.7	22.8	23.2	23.3	23.7	24.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.8				
S=2.0H	+0.8/-1.2					+1.0/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 1230lm ( $8\log(F/F_0) = 0.7$ ).

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.682 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	0.59	0.69	0.77	0.82	0.89	0.94	0.97	1.01	1.04	
	0.30		0.52	0.62	0.69	0.75	0.83	0.88	0.92	0.97	1.01	
	0.20		0.46	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.58	0.67	0.74	0.79	0.86	0.90	0.93	0.97	1.00	
	0.30		0.51	0.61	0.68	0.73	0.81	0.86	0.89	0.94	0.97	
	0.20		0.46	0.56	0.63	0.69	0.76	0.82	0.86	0.91	0.95	
0.30	0.50	0.20	0.56	0.65	0.72	0.76	0.83	0.87	0.90	0.94	0.96	
	0.30		0.50	0.60	0.67	0.72	0.78	0.83	0.86	0.91	0.94	
	0.20		0.45	0.55	0.62	0.67	0.75	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.43	0.53	0.59	0.64	0.71	0.76	0.80	0.84	0.87	
<p>Rating: 15W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

## 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	0.96	0.79	0.67	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.80	0.68	0.58	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.40	0.31	0.24	0.20	
	0.30		0.78	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.90	0.73	0.62	0.53	0.42	0.35	0.30	0.23	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.36	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.57	0.47	0.40	0.35	0.28	0.24	0.20	0.16	0.13	
<p>Rating: 15W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												



## 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	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	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	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	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	0.15	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	0.16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<p>Rating: 15W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												