

Report No.:

Test Time: 05.03.2020 11:56

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 200W 5000K 20gr. DALI

Luminous Length (mm): 174

Luminous Width (mm): 220

Luminous Height (mm): 338

Voltage: 228.8 V

Current: 0.889 A

Power: 198.25 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 29182.4 lm

Measurement Flux: 29182.4 lm

Efficiency: 100%

Downward Ratio: 96%

Upward Ratio: 4%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 47.6, 44.7, 49.9, 48.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 22.8, 22.8, 23.3, 22.4

Luminaire Efficacy Rating (LER): 147.25

Central Intensity: 97738.18 cd

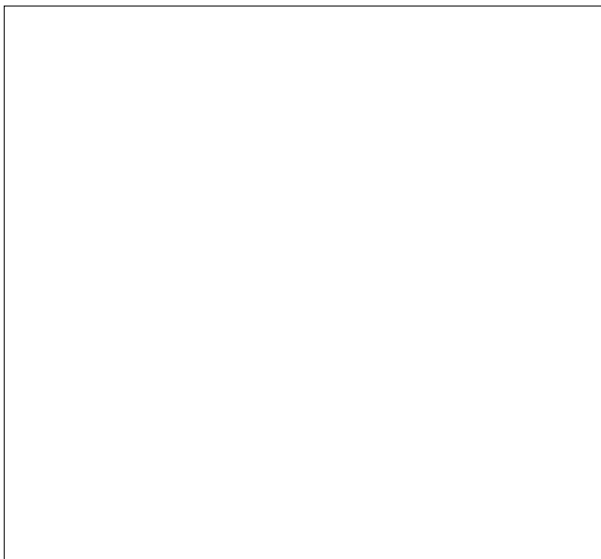
Max. Intensity: 99648.04 cd

Pos of Max. Intensity: H135 V0

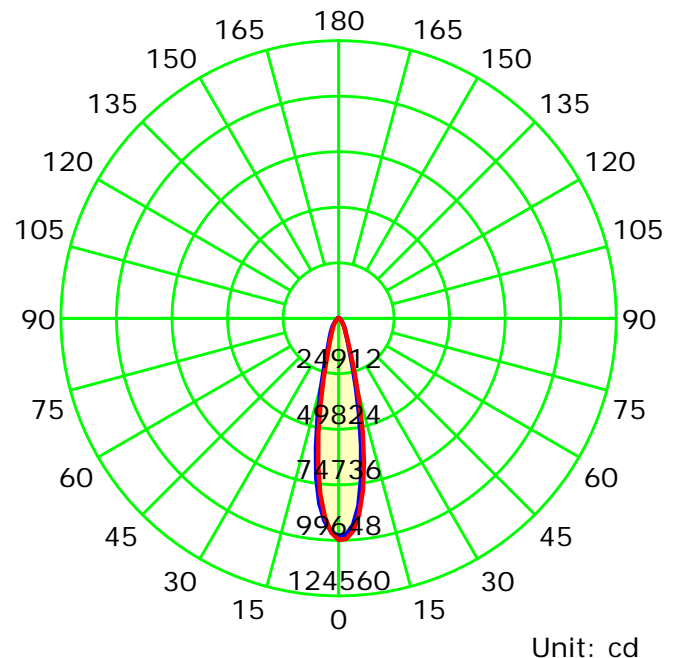
S/MH(C0/C180): 0.39

S/MH(C90/C270): 0.39

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

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: 12.677 m

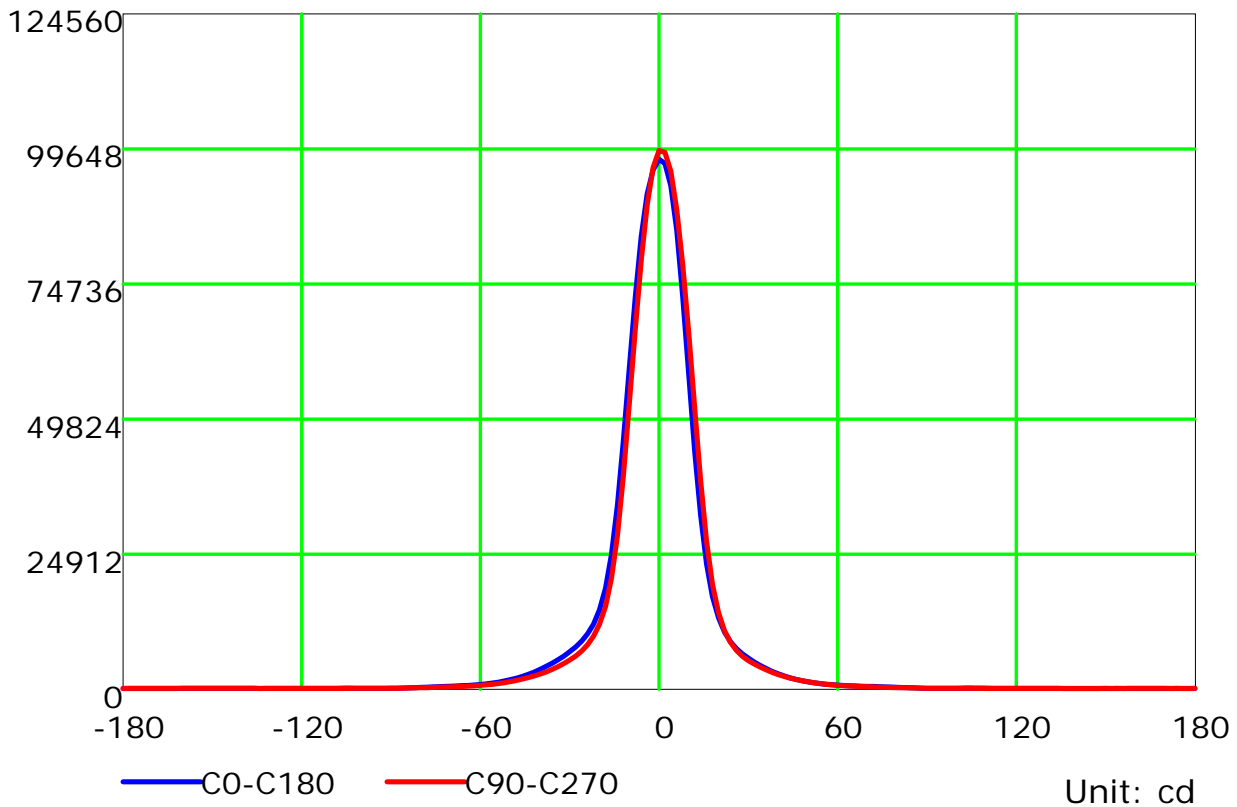
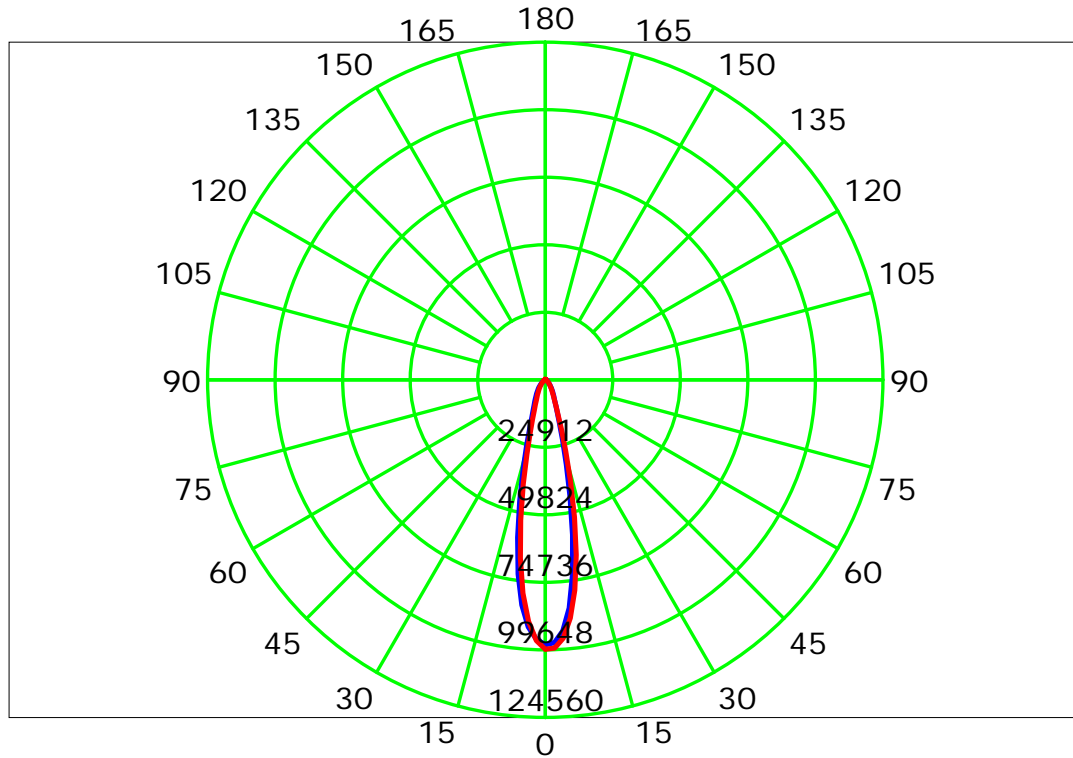
Temperature:

Humidity:

Operator:

Inspector:

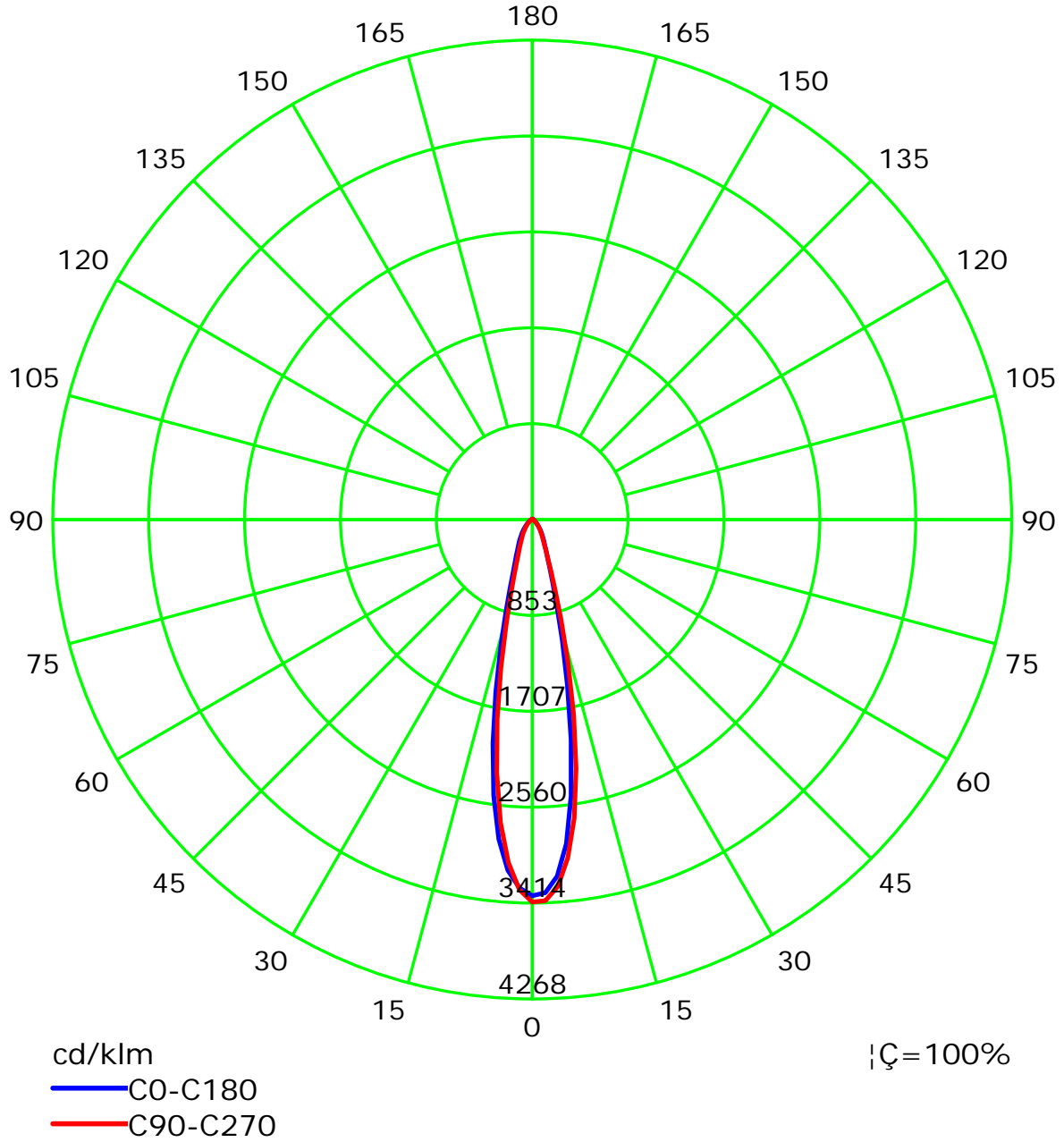
Luminous Intensity Distribution Curve



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

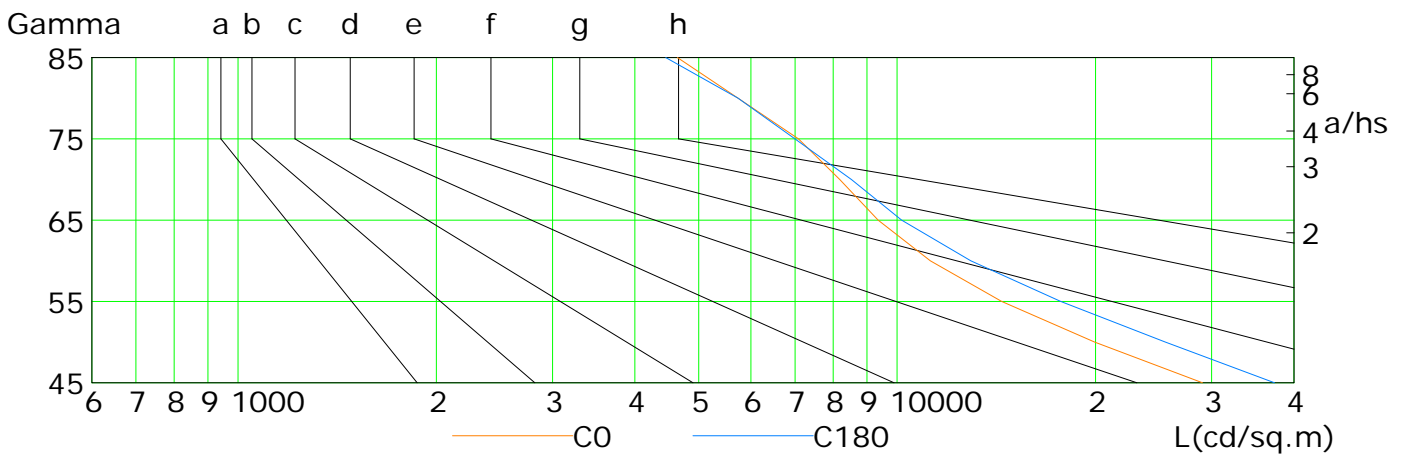
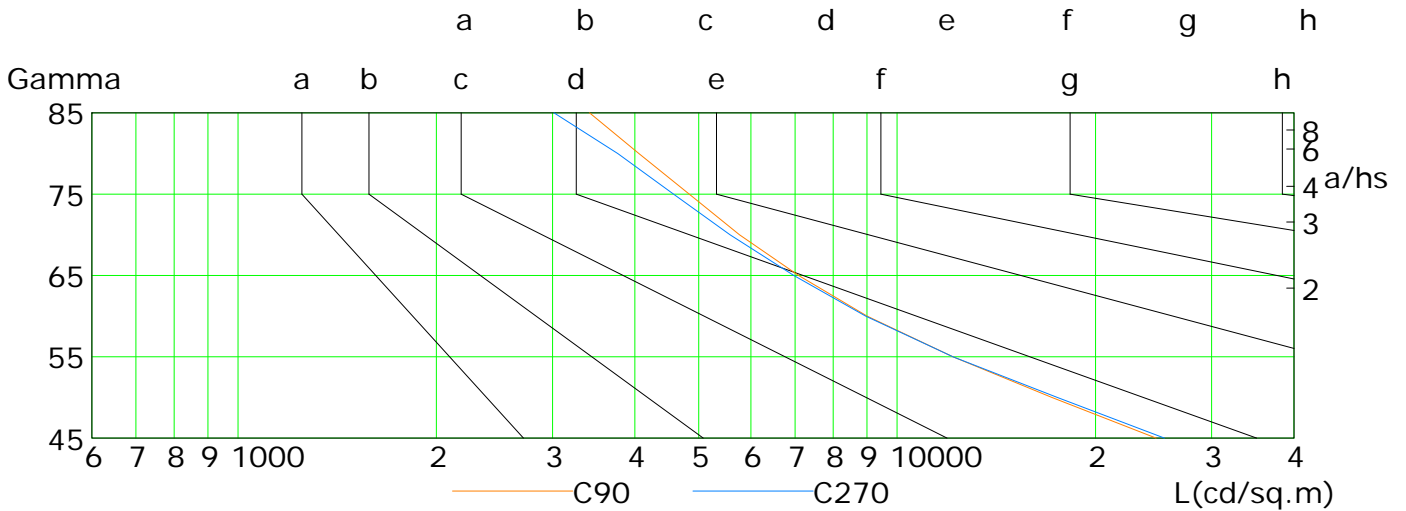
Gamma Plane (°):0.0-180.0:2.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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	29055	19940	14414	11232	9357	8184	7084	5737	4642
C90	24705	17170	12152	9006	7087	5766	4839	4057	3414
C180	37372	25534	17715	12939	10162	8523	6998	5737	4455
C270	25432	17501	12152	8960	6971	5580	4579	3768	3015

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

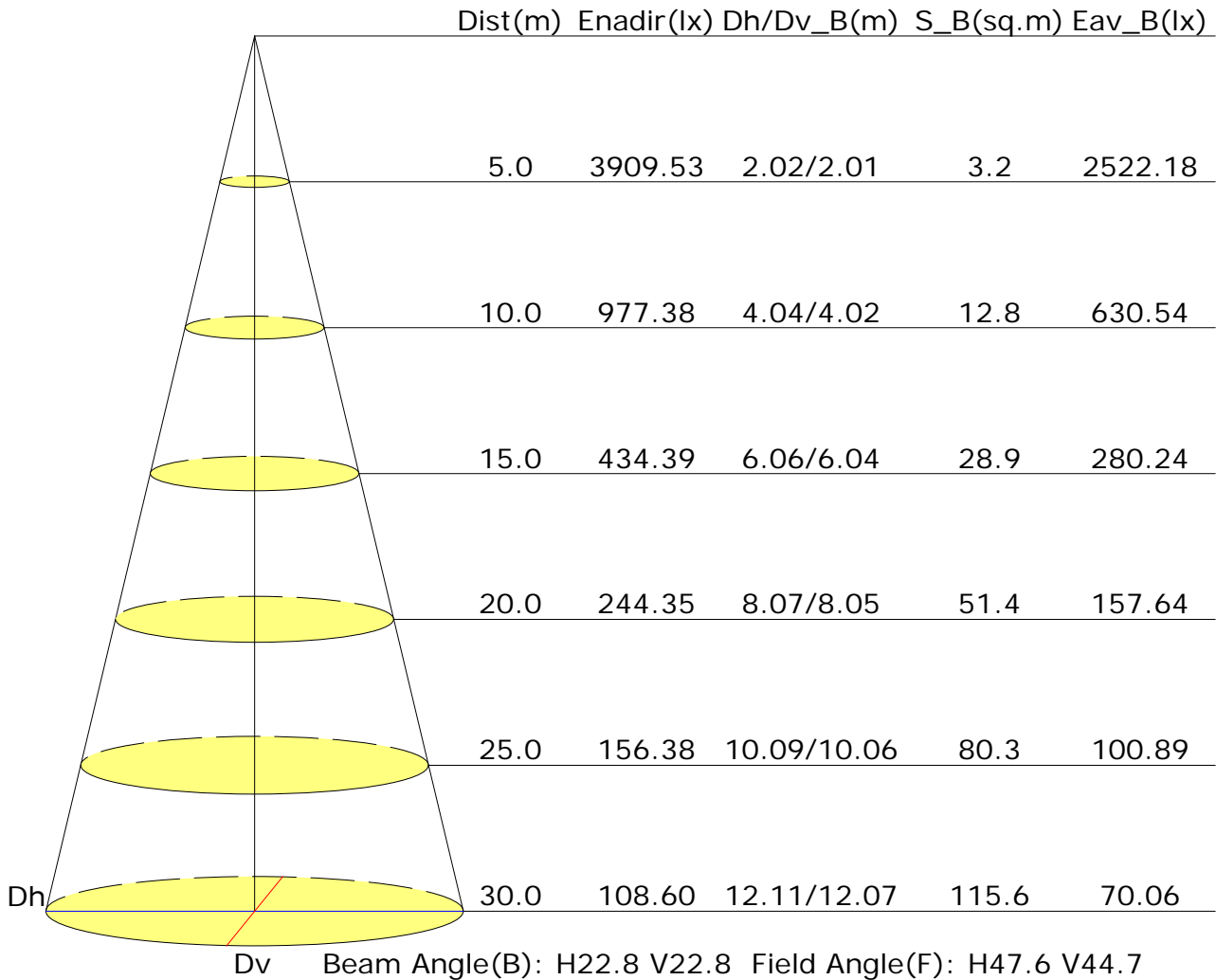
Test Device: LSG-1800B

Distance: 12.677 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	18.5	19.4	18.9	19.6	19.9	18.5	19.3	18.8	19.6	19.9
3H	19.0	19.7	19.4	20.0	20.4	18.8	19.6	19.2	19.9	20.2
4H	19.3	20.0	19.6	20.3	20.6	19.0	19.7	19.3	20.0	20.3
6H	19.5	20.1	19.9	20.5	20.9	19.1	19.8	19.5	20.1	20.5
8H	19.6	20.2	20.0	20.6	21.0	19.2	19.8	19.6	20.2	20.5
12H	19.7	20.3	20.1	20.7	21.1	19.2	19.8	19.6	20.2	20.6
X=4H Y=2H	18.7	19.4	19.1	19.7	20.1	18.7	19.4	19.1	19.7	20.1
3H	19.3	19.9	19.7	20.3	20.7	19.1	19.7	19.5	20.1	20.5
4H	19.6	20.2	20.1	20.6	21.0	19.4	19.9	19.8	20.3	20.7
6H	20.0	20.5	20.5	20.9	21.4	19.6	20.1	20.1	20.5	21.0
8H	20.1	20.6	20.6	21.0	21.5	19.7	20.1	20.2	20.6	21.1
12H	20.3	20.7	20.8	21.2	21.7	19.8	20.2	20.3	20.7	21.2
X=8H Y=4H	19.7	20.1	20.2	20.6	21.1	19.4	19.9	19.9	20.3	20.8
6H	20.1	20.5	20.7	21.0	21.5	19.8	20.1	20.3	20.6	21.2
8H	20.4	20.7	20.9	21.2	21.7	19.9	20.3	20.5	20.8	21.3
12H	20.6	20.9	21.1	21.4	22.0	20.1	20.4	20.7	20.9	21.5
X=12H Y=4H	19.7	20.1	20.2	20.6	21.1	19.4	19.8	19.9	20.3	20.8
6H	20.1	20.5	20.7	21.0	21.5	19.8	20.1	20.3	20.6	21.2
8H	20.4	20.7	21.0	21.2	21.8	20.0	20.3	20.5	20.8	21.4
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.2					+1.1/-1.4				
S=1.5H	+2.2/-1.9					+2.0/-2.4				
S=2.0H	+3.6/-2.6					+3.4/-3.1				

Calculate in accordance with CIE Pub.117. The table is revised with 29182lm ($8\log(F/F_0) = 11.7$).

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.50									
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	0.81	0.87	0.92	0.95	1.00	1.03	1.05	1.08	1.10	
	0.30		0.76	0.82	0.87	0.91	0.96	0.99	1.02	1.05	1.07	
	0.20		0.72	0.79	0.84	0.87	0.93	0.96	0.99	1.03	1.05	
0.50	0.50	0.20	0.79	0.85	0.89	0.92	0.96	0.99	1.01	1.03	1.05	
	0.30		0.75	0.81	0.85	0.89	0.93	0.96	0.98	1.01	1.03	
	0.20		0.71	0.78	0.82	0.86	0.90	0.94	0.96	0.99	1.01	
0.30	0.50	0.20	0.78	0.83	0.87	0.90	0.93	0.95	0.97	0.99	1.00	
	0.30		0.74	0.80	0.84	0.87	0.91	0.93	0.95	0.97	0.99	
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.93	0.96	0.98	
0.00	0.00	0.00	0.69	0.74	0.78	0.81	0.84	0.87	0.88	0.91	0.92	
<p>Rating: 198W 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 = 0.50								
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	0.65	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14
	0.30		0.54	0.46	0.39	0.35	0.28	0.24	0.21	0.16	0.14
	0.20		0.46	0.40	0.35	0.31	0.26	0.22	0.19	0.15	0.13
0.50	0.50	0.20	0.61	0.50	0.42	0.36	0.29	0.28	0.20	0.16	0.13
	0.30		0.52	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.12
	0.20		0.45	0.38	0.33	0.30	0.24	0.21	0.18	0.14	0.12
0.30	0.50	0.20	0.58	0.47	0.39	0.34	0.27	0.22	0.19	0.15	0.12
	0.30		0.50	0.41	0.35	0.31	0.25	0.21	0.18	0.14	0.11
	0.20		0.43	0.37	0.32	0.28	0.23	0.19	0.17	0.13	0.11
0.00	0.00	0.00	0.30	0.24	0.20	0.18	0.14	0.12	0.10	0.08	0.06
<p>Rating: 198W 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 = 0.50								
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	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.25
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.23	0.23
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.21	0.22
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.24
	0.30		0.13	0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.21
0.30	0.50	0.20	0.16	0.18	0.19	0.19	0.21	0.21	0.22	0.23	0.23
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.20
0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
<p>Rating: 198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											