

Report No.: 1

Test Time: 05.02.2020 18:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 120 150W 5000K 106-106gr.

Luminous Length (mm): 348

Luminous Width (mm): 250

Luminous Height (mm): 132

Voltage: 222.0 V

Current: 0.694 A

Power: 151.30 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 21811.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 21811.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.5, 154.6, 154.0, 154.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.8, 111.7, 114.4, 114.3

Luminaire Efficacy Rating (LER): 144.21

Central Intensity: 7628.75 cd

Max. Intensity: 7630.23 cd

Pos of Max. Intensity: H0 V1

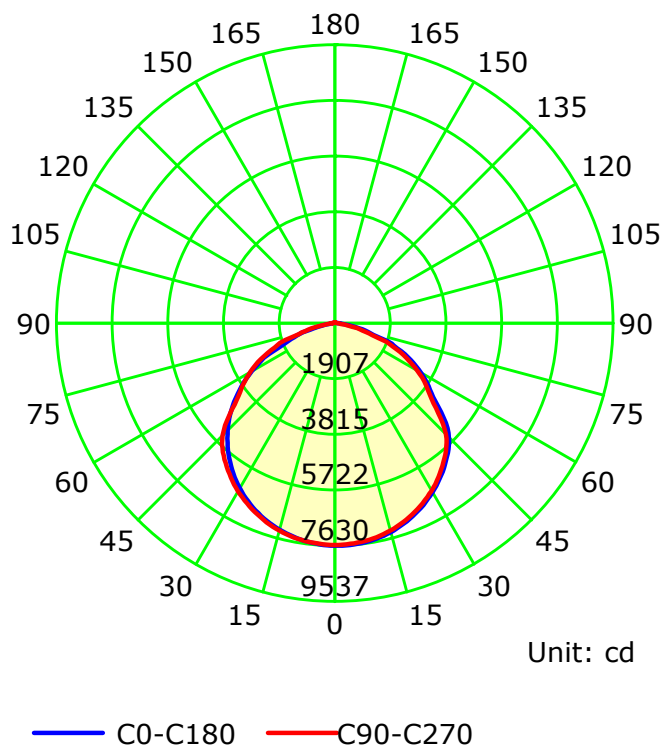
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.30

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

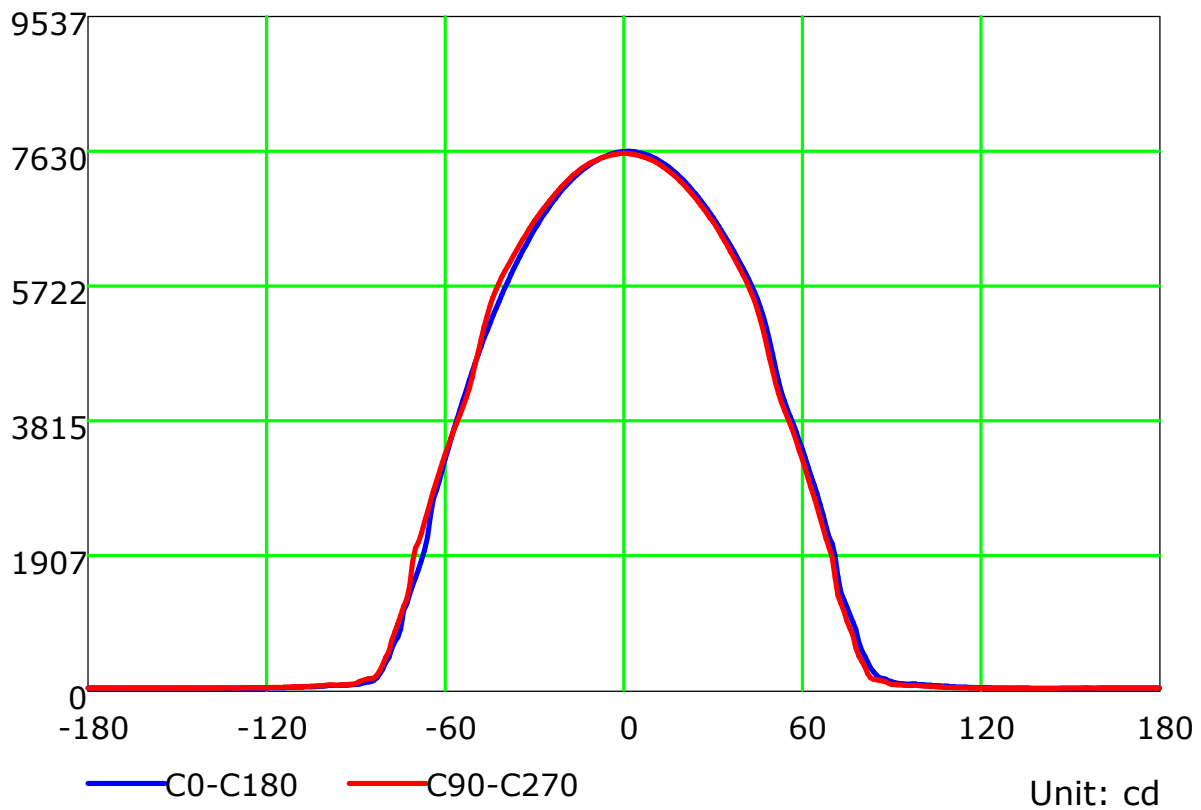
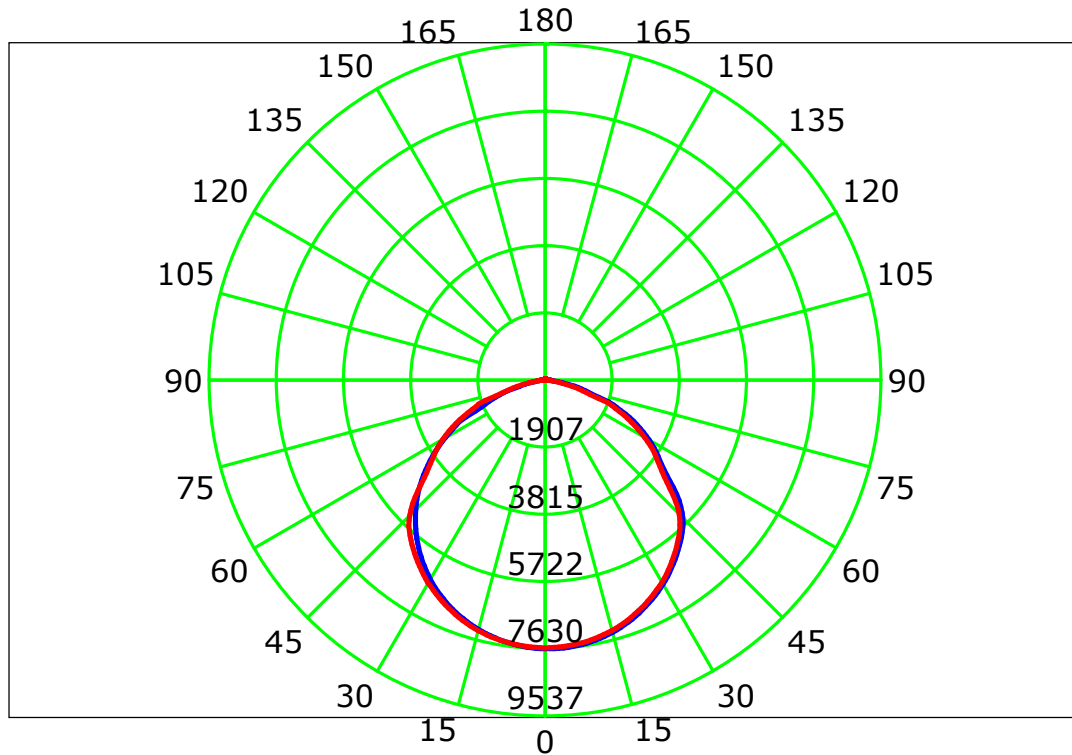
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

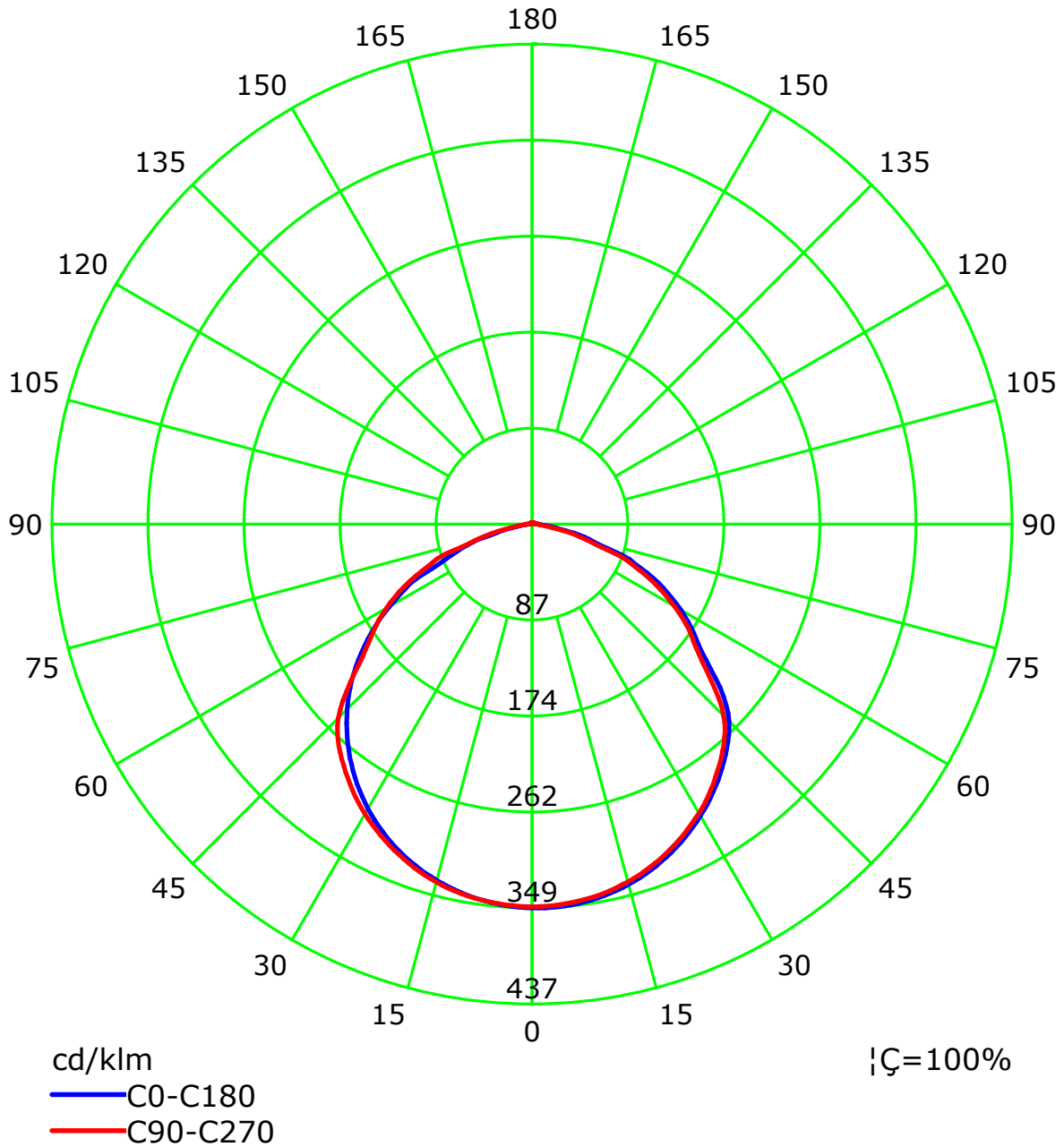
Luminous Intensity Distribution Curve



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:

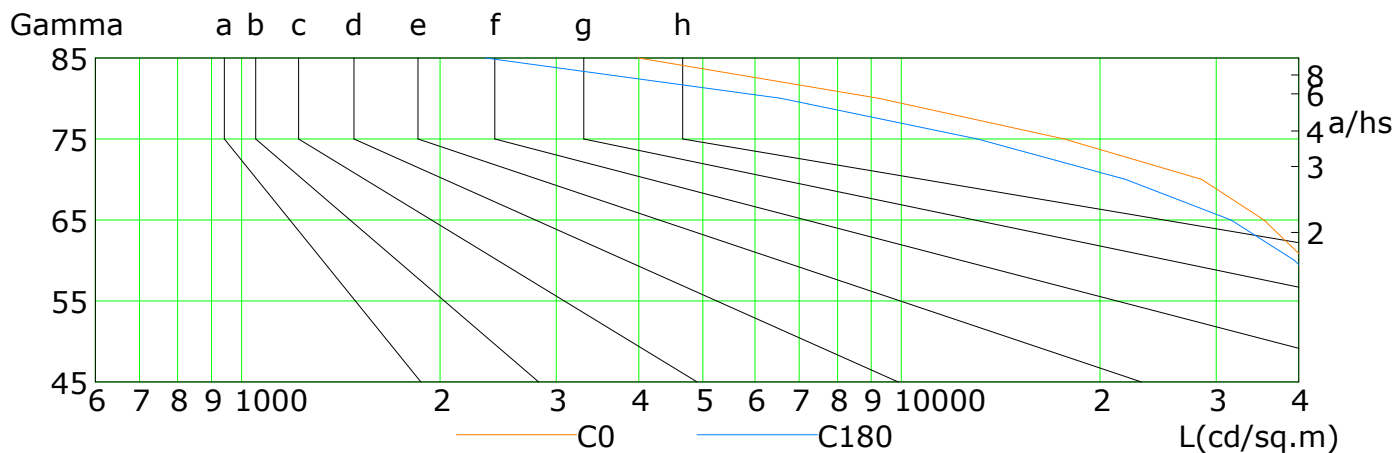
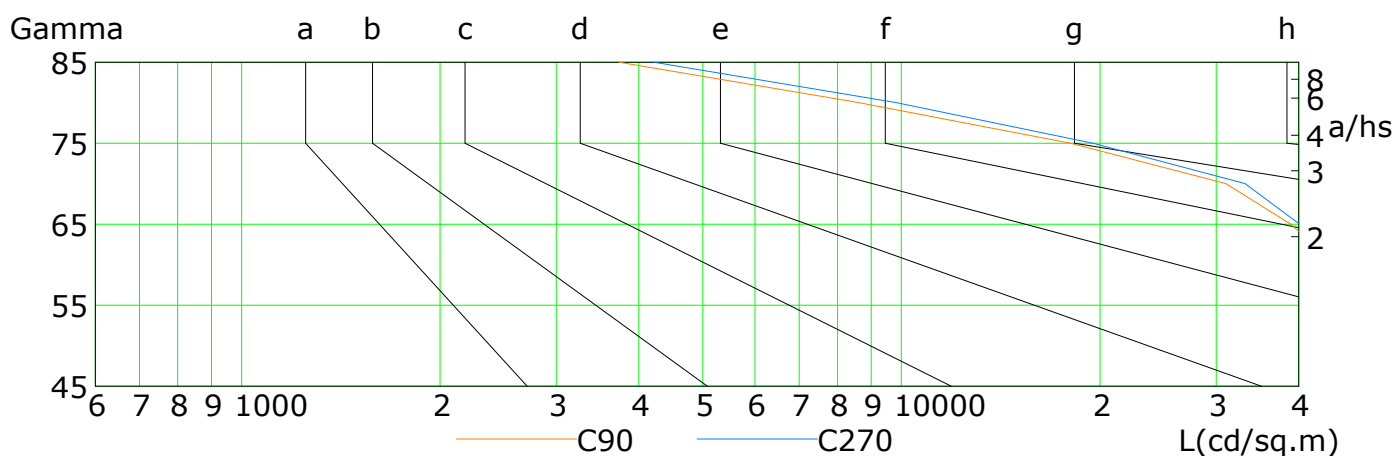
Luminous Intensity Distribution Curve(cd/klm)



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

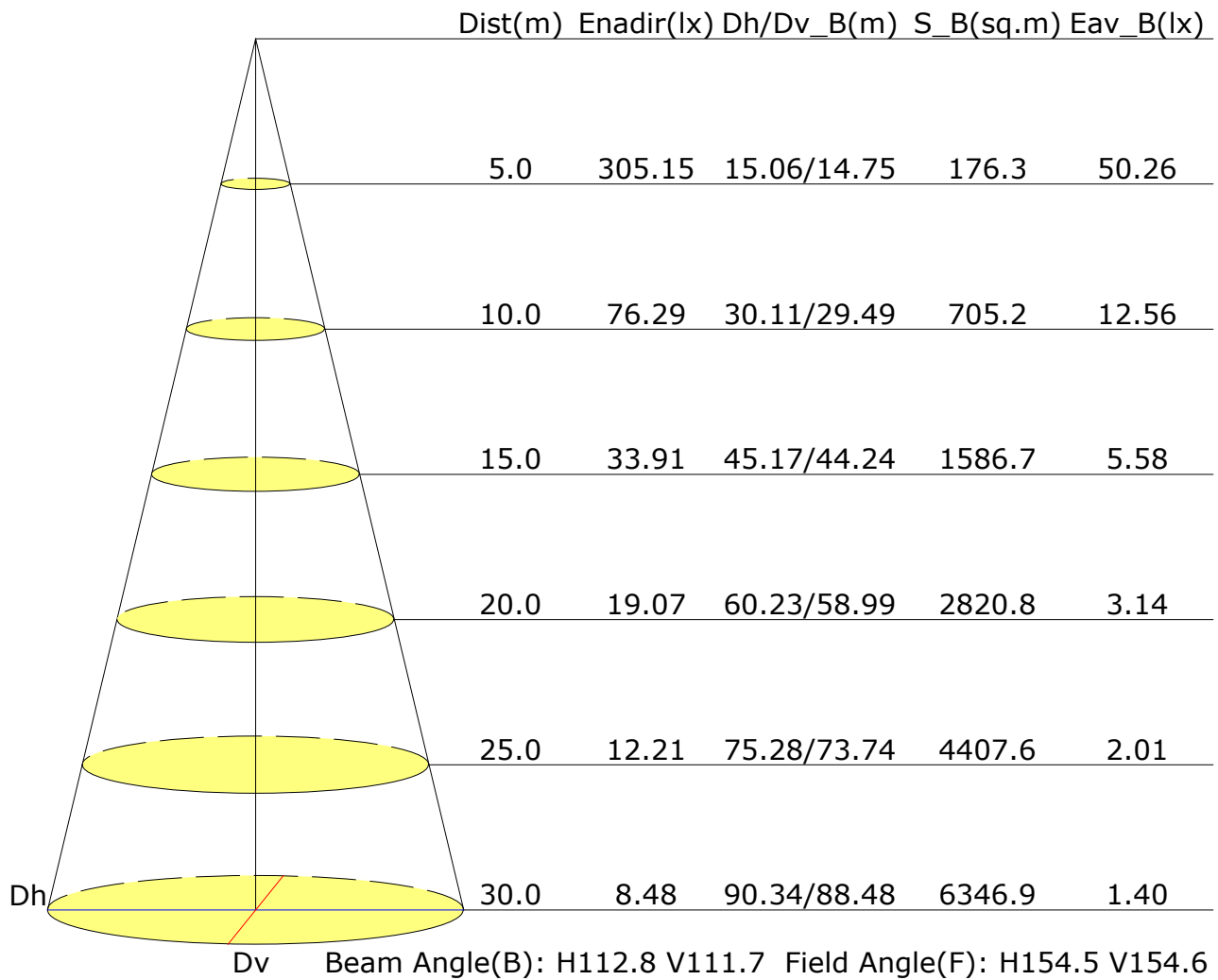


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	58858	52208	45427	40998	35437	28499	17641	9247	3995
C90	63434	55762	50274	45350	38905	31022	18057	8619	3738
C180	55273	50807	45508	39384	31583	21845	13036	6570	2343
C270	64167	56757	50841	46425	40174	33171	19515	9820	4219

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	25.8	27.2	26.2	27.4	27.7	26.0	27.3	26.3	27.6	27.8
3H	26.9	28.2	27.3	28.5	28.8	27.1	28.3	27.4	28.6	28.9
4H	27.2	28.3	27.6	28.6	29.0	27.3	28.4	27.7	28.8	29.1
6H	27.3	28.4	27.7	28.7	29.0	27.4	28.4	27.7	28.7	29.1
8H	27.3	28.3	27.7	28.6	29.0	27.3	28.4	27.7	28.7	29.1
12H	27.3	28.2	27.7	28.6	29.0	27.3	28.3	27.7	28.6	29.0
X=4H Y=2H	26.2	27.4	26.6	27.7	28.0	26.4	27.5	26.7	27.8	28.1
3H	27.5	28.5	27.9	28.8	29.2	27.6	28.6	28.0	28.9	29.3
4H	27.8	28.7	28.2	29.1	29.5	27.9	28.8	28.3	29.1	29.5
6H	27.9	28.7	28.4	29.1	29.6	28.0	28.8	28.4	29.2	29.6
8H	28.0	28.7	28.4	29.1	29.5	28.0	28.7	28.4	29.1	29.6
12H	27.9	28.6	28.4	29.0	29.5	28.0	28.6	28.4	29.0	29.5
X=8H Y=4H	27.9	28.6	28.3	29.0	29.5	27.9	28.7	28.4	29.1	29.5
6H	28.1	28.6	28.6	29.1	29.6	28.1	28.7	28.6	29.1	29.6
8H	28.1	28.6	28.6	29.1	29.6	28.1	28.6	28.6	29.1	29.6
12H	28.1	28.5	28.6	29.0	29.6	28.1	28.5	28.6	29.0	29.6
X=12H Y=4H	27.9	28.5	28.3	28.9	29.4	27.9	28.6	28.4	29.0	29.5
6H	28.1	28.6	28.6	29.0	29.5	28.1	28.6	28.6	29.1	29.6
8H	28.1	28.5	28.6	29.0	29.6	28.1	28.5	28.6	29.0	29.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.2/-0.3				
S=1.5H	+0.6/-0.8					+0.5/-0.8				
S=2.0H	+0.9/-1.2					+0.9/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 21812lm ($8\log(F/F_0) = 10.7$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 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 = 1.50									
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	0.61	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.54	0.62	0.70	0.76	0.84	0.89	0.93	0.98	1.01	
	0.20		0.48	0.57	0.65	0.71	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.59	0.67	0.75	0.79	0.86	0.90	0.93	0.97	1.00	
	0.30		0.53	0.61	0.69	0.74	0.81	0.86	0.90	0.94	0.97	
	0.20		0.48	0.56	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.58	0.65	0.72	0.77	0.83	0.87	0.90	0.93	0.96	
	0.30		0.52	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.94	
	0.20		0.48	0.55	0.63	0.68	0.76	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.45	0.53	0.60	0.65	0.72	0.77	0.80	0.84	0.87	
Rating:151W 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 = 1.50									
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	0.92	0.78	0.65	0.56	0.45	0.37	0.31	0.24	0.20	
	0.30		0.77	0.67	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.66	0.58	0.50	0.45	0.37	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.89	0.74	0.62	0.54	0.42	0.38	0.30	0.23	0.18	
	0.30		0.75	0.65	0.55	0.48	0.39	0.32	0.28	0.22	0.18	
	0.20		0.65	0.57	0.49	0.44	0.36	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	0.86	0.71	0.60	0.51	0.40	0.33	0.28	0.22	0.17	
	0.30		0.73	0.63	0.53	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		0.64	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.53	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
Rating:151W 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 = 1.50									
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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	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		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	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:151W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												