

Report No.: 1

Test Time: 25.02.2020 22:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 44LED 400W 5000K 60x150 gr.

Luminous Length (mm): 439

Luminous Width (mm): 337

Luminous Height (mm): 320

Voltage: 229.4 V

Current: 1.790 A

Power: 401.85 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 61102.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 61102.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.6, 146.5, 128.6, 127.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 49.3, 133.6, 62.7, 60.2

Luminaire Efficacy Rating (LER): 152.10

Central Intensity: 16712.51 cd

Max. Intensity: 31177.67 cd

Pos of Max. Intensity: H135 V32

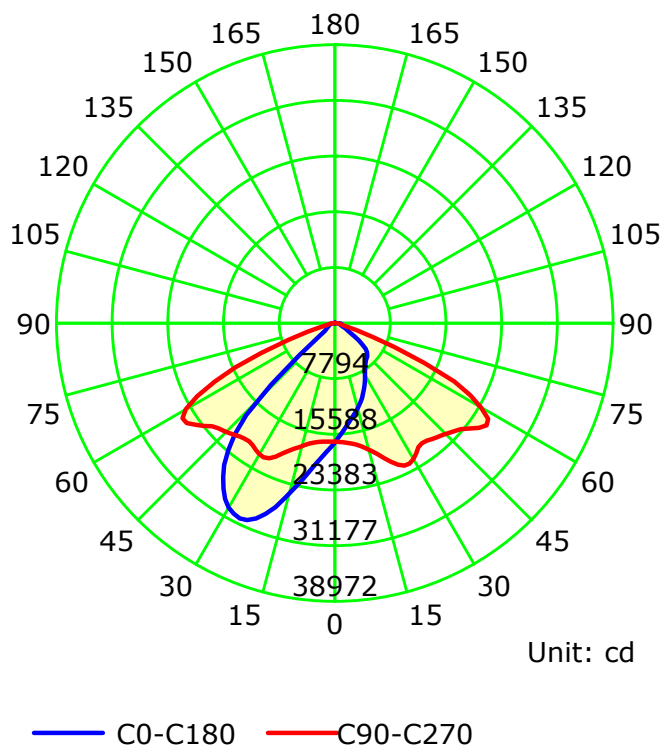
S/MH(C0/C180): 1.51

S/MH(C90/C270): 1.88

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

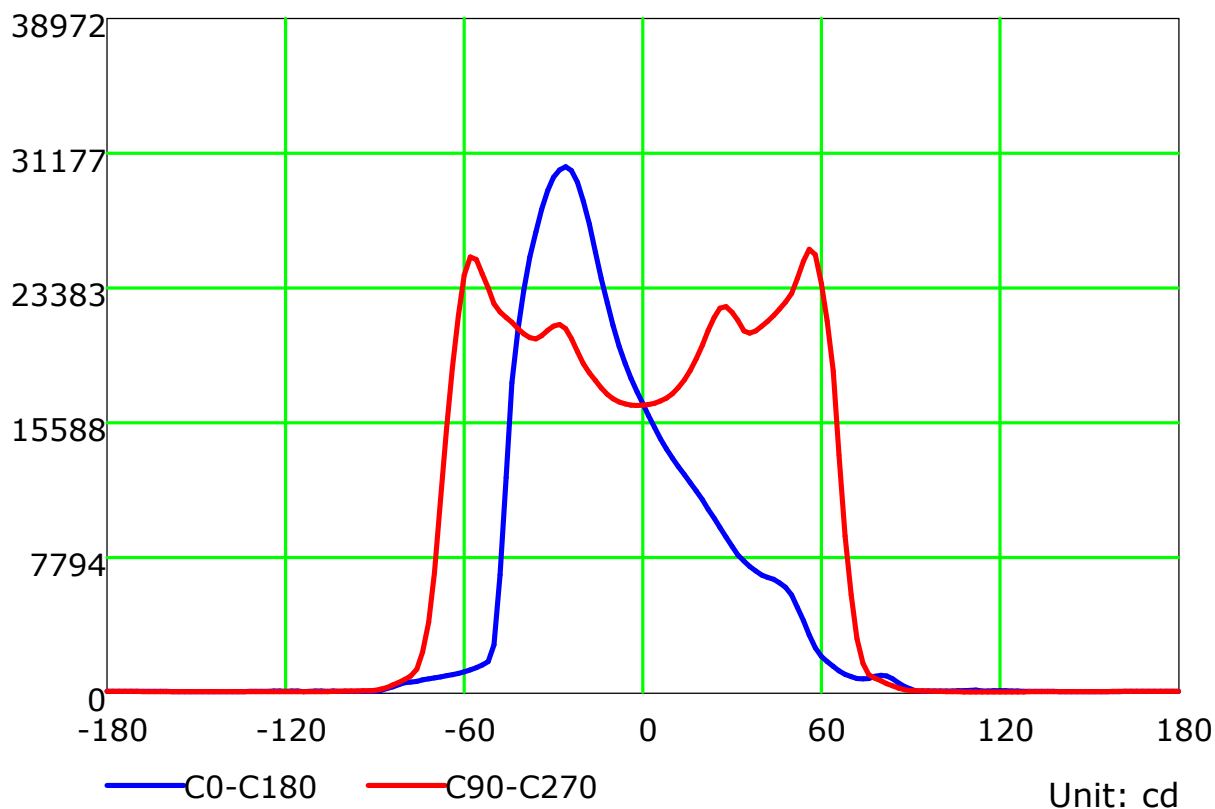
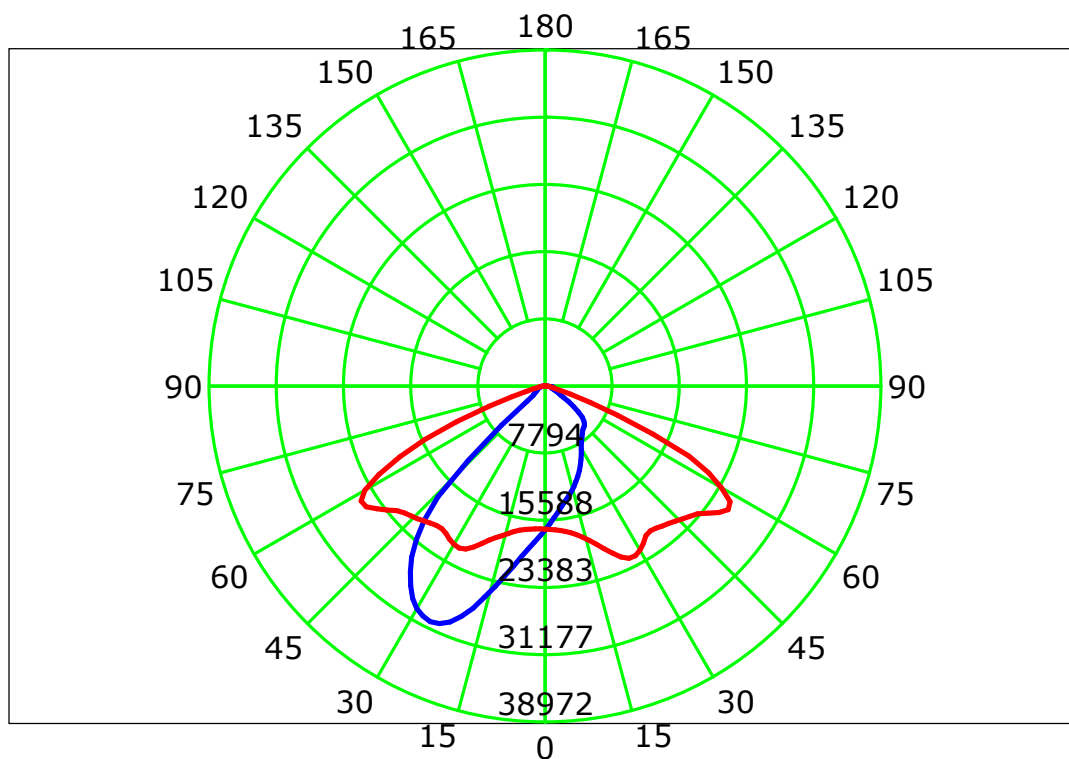
Test Device: LSG-1800B

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:

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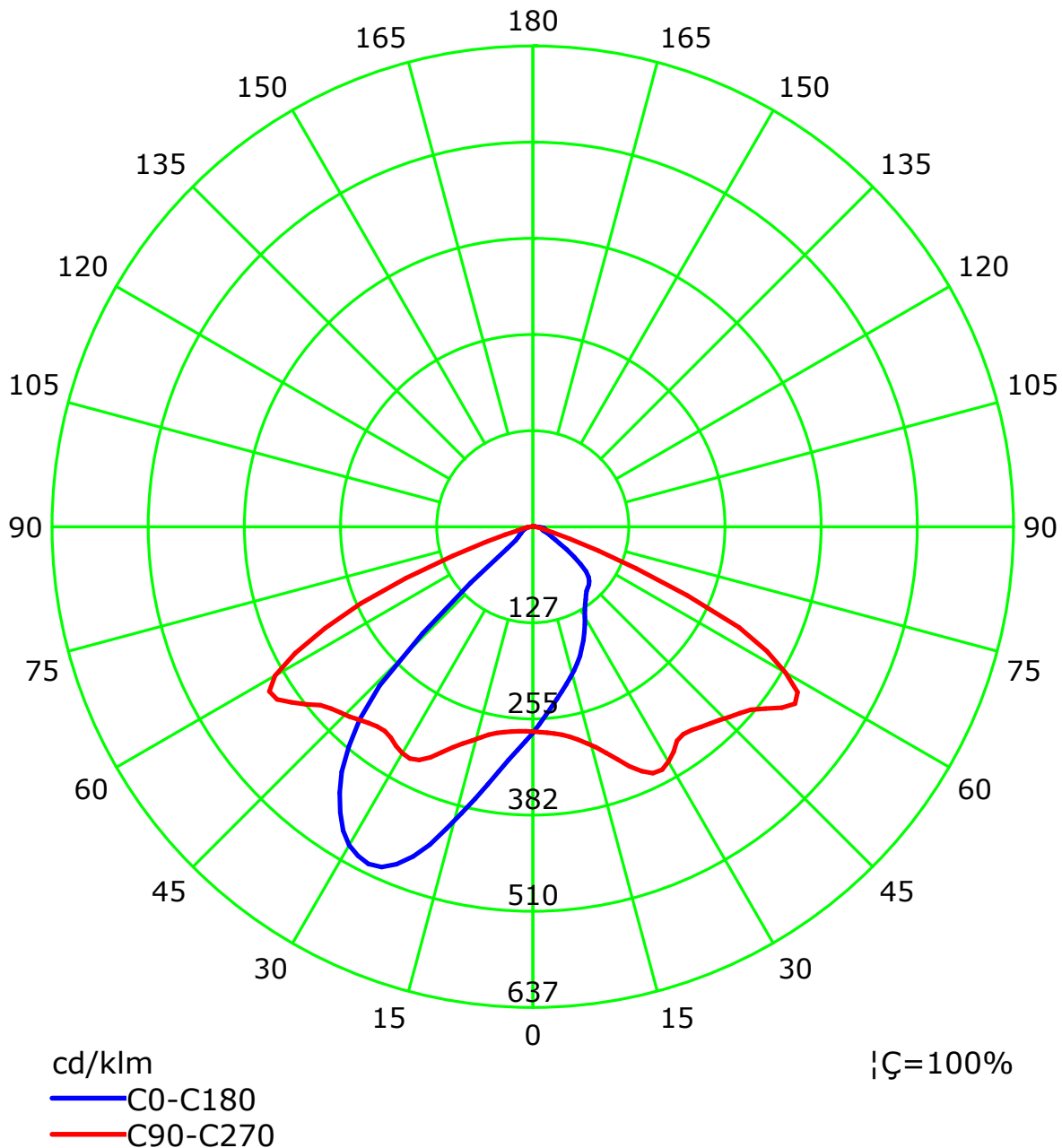
Test Device: LSG-1800B

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:

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Test Device: LSG-1800B

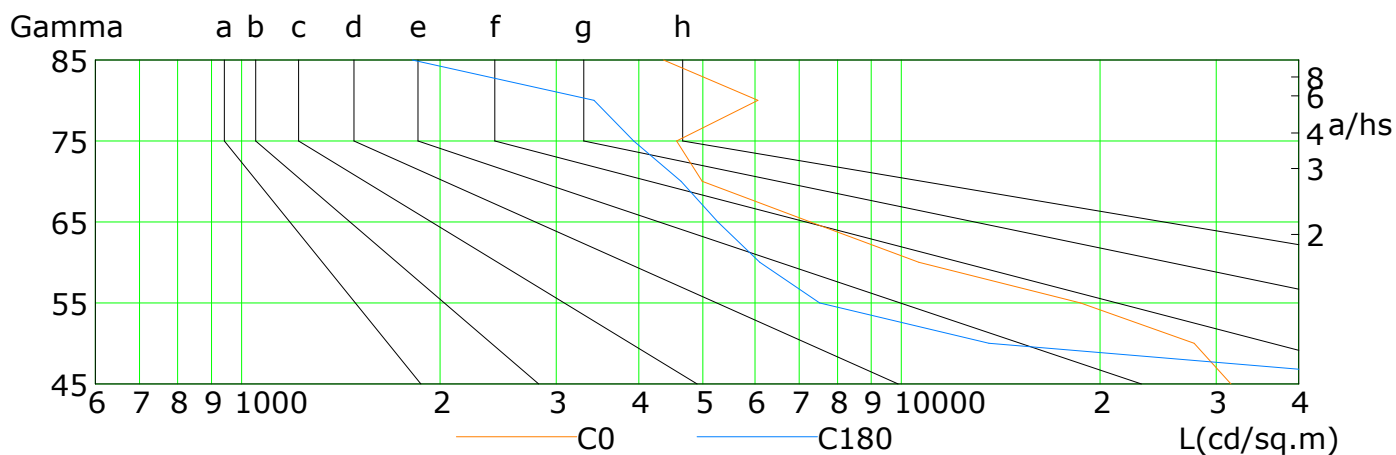
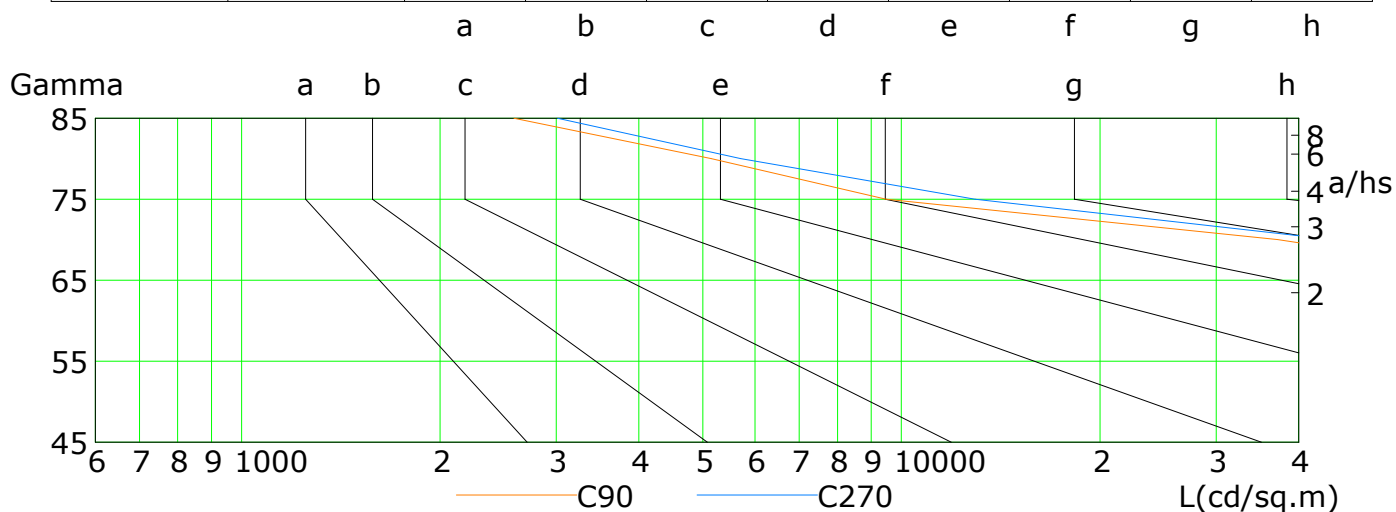
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	31595	27769	18694	10632	7276	4991	4566	6063	4361
C90	121555	129859	146017	141329	100874	37177	9485	5149	2587
C180	74363	13573	7518	6102	5273	4633	3927	3422	1813
C270	119130	126568	142186	144203	106197	45535	12943	5704	3013

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

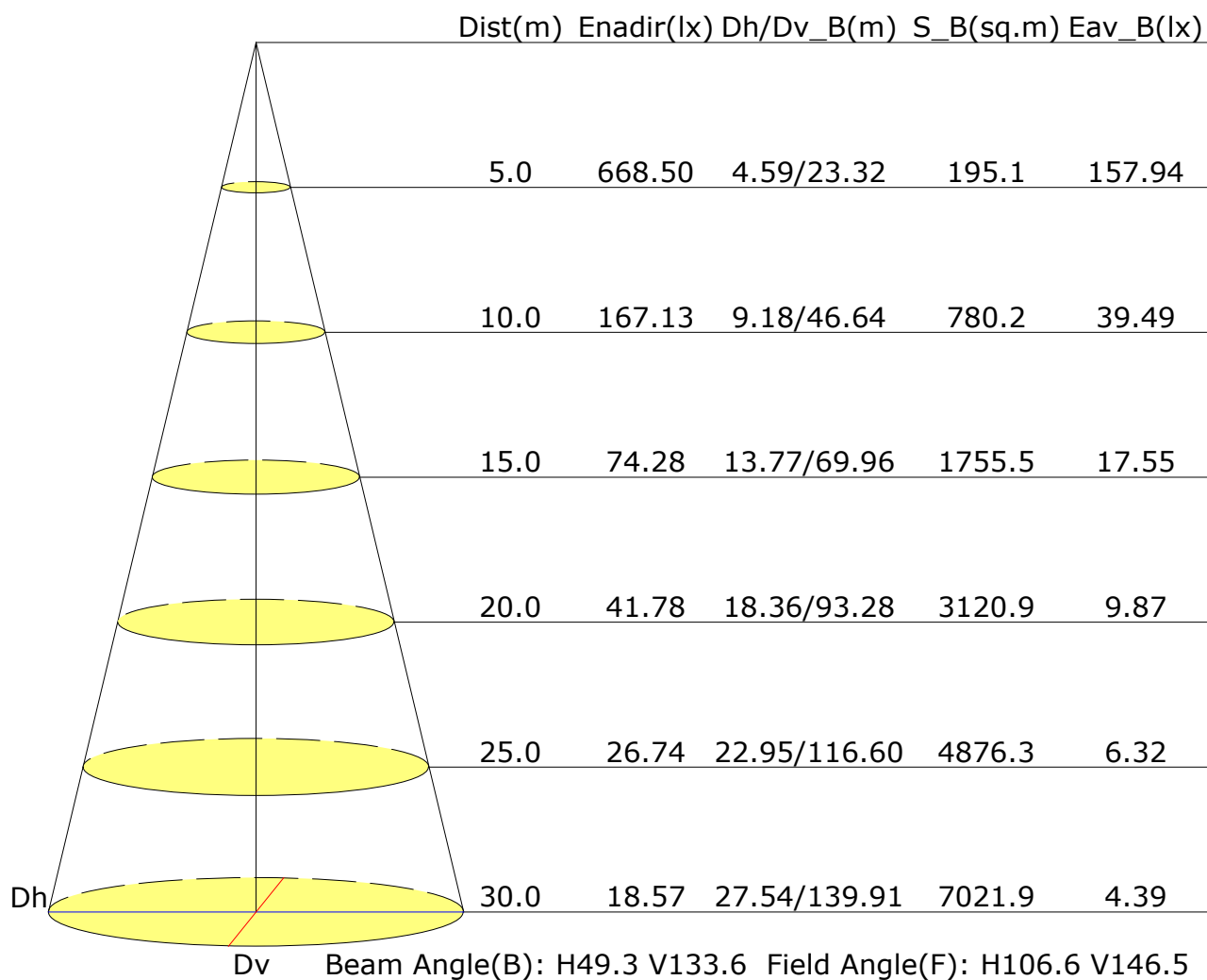
Test Device: LSG-1800B

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	20.4	21.7	20.7	21.9	22.2	29.7	31.0	30.0	31.2	31.5
3H	20.4	21.6	20.8	21.9	22.2	30.5	31.7	30.8	32.0	32.3
4H	20.5	21.6	20.8	21.9	22.2	30.5	31.6	30.8	31.9	32.2
6H	20.6	21.6	21.0	22.0	22.3	30.4	31.4	30.8	31.8	32.1
8H	20.7	21.7	21.1	22.0	22.4	30.4	31.4	30.7	31.7	32.0
12H	20.8	21.7	21.2	22.1	22.4	30.3	31.3	30.7	31.6	32.0
X=4H Y=2H	21.9	23.0	22.2	23.3	23.6	29.5	30.7	29.9	30.9	31.3
3H	21.9	22.9	22.3	23.2	23.6	30.4	31.4	30.8	31.7	32.1
4H	22.0	22.8	22.4	23.2	23.6	30.4	31.2	30.8	31.6	32.0
6H	22.1	22.9	22.5	23.2	23.7	30.3	31.1	30.8	31.5	31.9
8H	22.2	22.9	22.7	23.3	23.7	30.3	31.0	30.8	31.4	31.8
12H	22.3	22.9	22.8	23.3	23.8	30.3	30.9	30.7	31.3	31.8
X=8H Y=4H	22.1	22.7	22.5	23.2	23.6	30.3	31.0	30.7	31.4	31.8
6H	22.2	22.8	22.7	23.2	23.7	30.3	30.8	30.7	31.2	31.7
8H	22.4	22.8	22.9	23.3	23.8	30.2	30.7	30.7	31.2	31.7
12H	22.5	22.9	23.0	23.4	23.9	30.2	30.6	30.7	31.1	31.6
X=12H Y=4H	22.0	22.6	22.5	23.1	23.5	30.3	30.9	30.7	31.3	31.8
6H	22.2	22.7	22.7	23.2	23.7	30.2	30.7	30.7	31.2	31.7
8H	22.4	22.8	22.9	23.3	23.8	30.2	30.6	30.7	31.1	31.6
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.9					+0.5/-0.4				
S=1.5H	+1.3/-3.7					+1.9/-2.4				
S=2.0H	+2.2/-5.6					+3.7/-5.5				

Calculate in accordance with CIE Pub.117. The table is revised with 61103lm ($8\log(F/F_0) = 14.3$).

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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:

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	0.62	0.72	0.79	0.85	0.92	0.96	0.99	1.03	1.06	
	0.30		0.55	0.65	0.73	0.79	0.87	0.92	0.95	1.00	1.03	
	0.20		0.50	0.59	0.68	0.74	0.82	0.88	0.91	0.97	1.00	
0.50	0.50	0.20	0.61	0.70	0.77	0.82	0.89	0.93	0.96	0.99	1.02	
	0.30		0.54	0.63	0.71	0.77	0.84	0.89	0.92	0.96	0.99	
	0.20		0.49	0.59	0.67	0.73	0.80	0.85	0.89	0.94	0.97	
0.30	0.50	0.20	0.59	0.68	0.75	0.80	0.86	0.90	0.92	0.96	0.98	
	0.30		0.53	0.62	0.70	0.75	0.82	0.86	0.89	0.93	0.96	
	0.20		0.49	0.58	0.66	0.72	0.79	0.83	0.87	0.91	0.94	
0.00	0.00	0.00	0.47	0.55	0.63	0.69	0.75	0.80	0.83	0.87	0.89	
Rating:402W 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	0.91	0.76	0.62	0.53	0.42	0.34	0.29	0.22	0.18	
	0.30		0.76	0.65	0.54	0.47	0.38	0.31	0.27	0.21	0.17	
	0.20		0.65	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.88	0.72	0.60	0.51	0.40	0.36	0.27	0.21	0.17	
	0.30		0.74	0.63	0.53	0.46	0.36	0.30	0.26	0.20	0.16	
	0.20		0.65	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.85	0.69	0.57	0.49	0.38	0.31	0.26	0.20	0.16	
	0.30		0.73	0.61	0.51	0.44	0.35	0.29	0.24	0.19	0.15	
	0.20		0.64	0.55	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.53	0.44	0.36	0.31	0.24	0.20	0.17	0.13	0.11	
Rating:402W 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	0.16	0.18	0.18	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	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
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	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	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	0.09	0.10	0.12	0.13	0.14	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:402W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												