

Report No.: 1

Test Time: 26.02.2020 20:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 1000W 5000K 30gr.

Number of Lamps: 1

Luminous Width (mm): 565

Voltage: 228.8 V

Power: 1002.30 W

Luminous Length (mm): 345

Luminous Height (mm): 695

Current: 4.466 A

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 144812.2 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 59.4, 58.9, 62.4, 62.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 31.0, 29.3, 31.6, 31.4

Luminaire Efficacy Rating (LER): 144.53

Max. Intensity: 324324.32 cd

S/MH(C0/C180): 0.52

Total Rated Lamp Lumens: 144812.2 lm

Efficiency: 100%

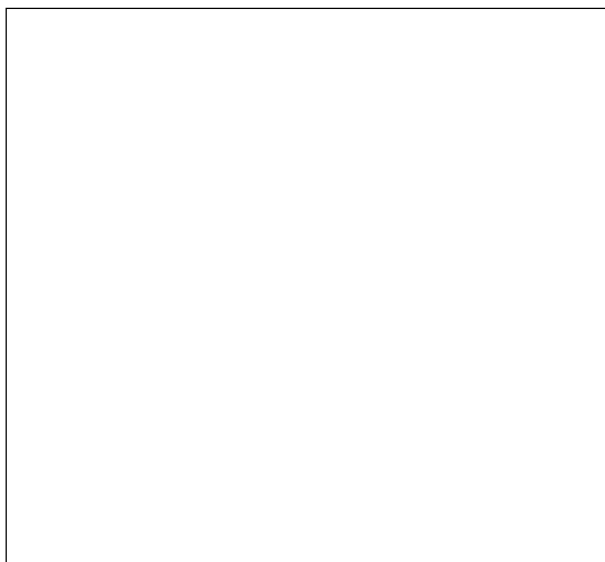
Upward Ratio: 3%

Central Intensity: 316252.84 cd

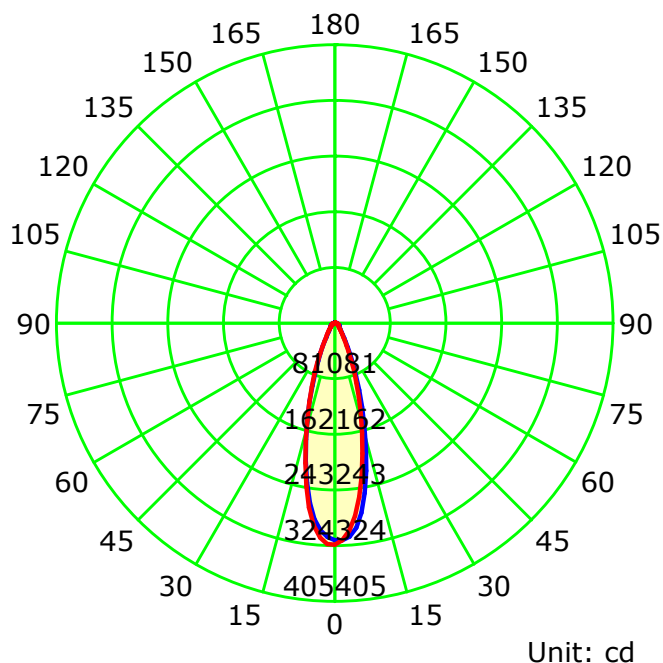
Pos of Max. Intensity: H315 V2

S/MH(C90/C270): 0.49

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 (°):0.0-180.0:2.0

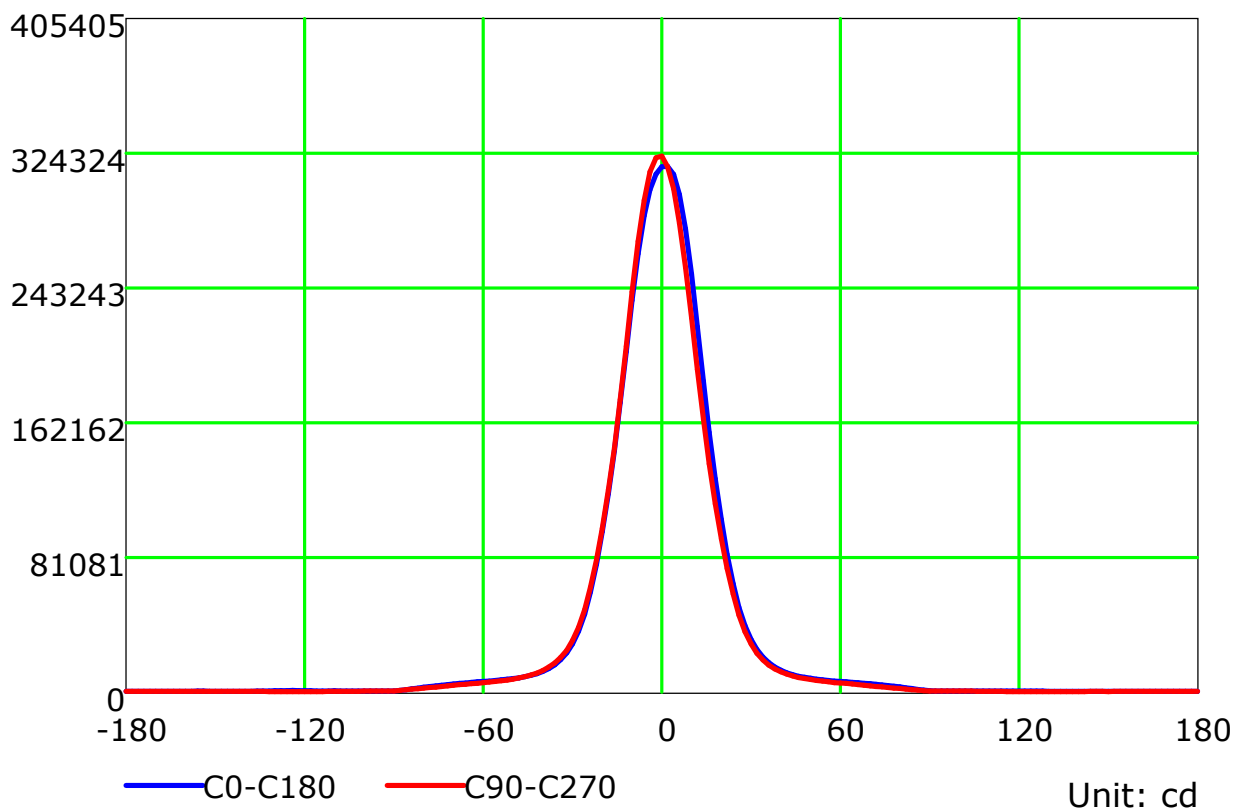
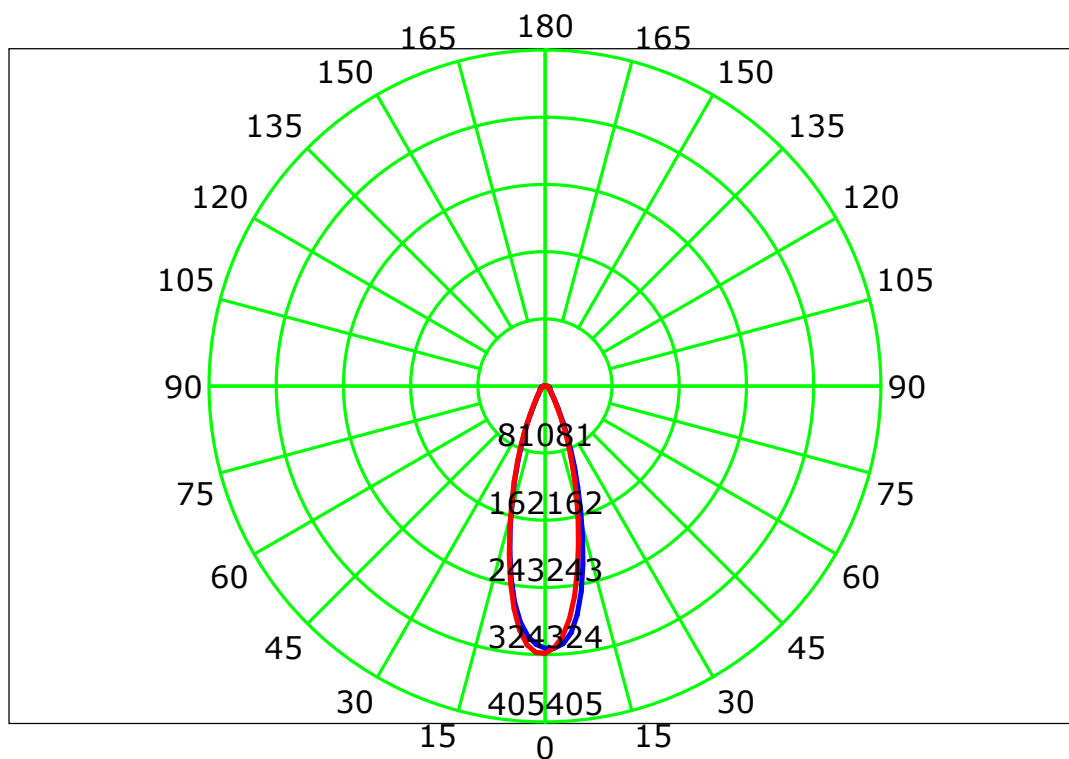
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

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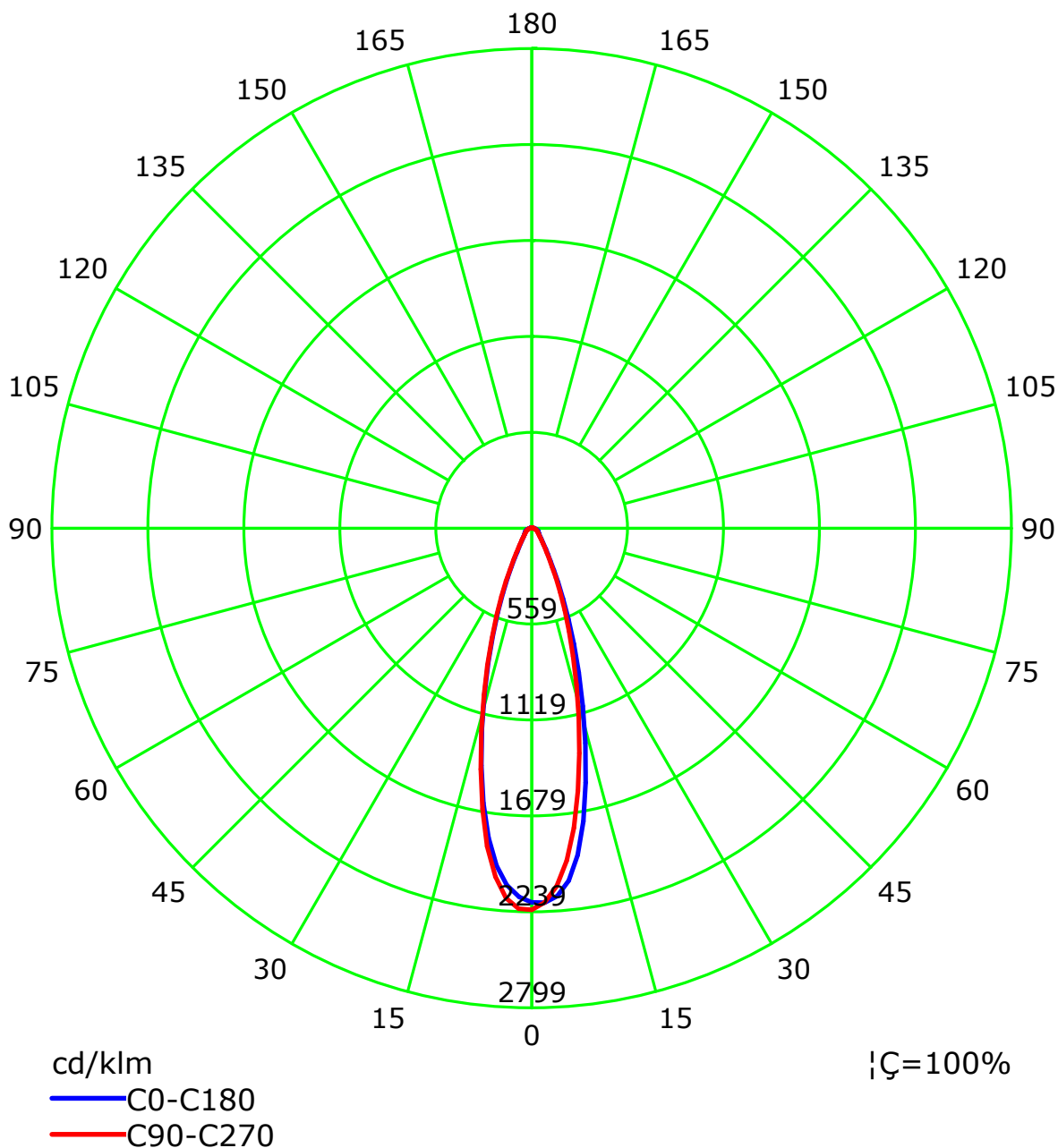
Test Device: LSG-1800B

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:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.677 m

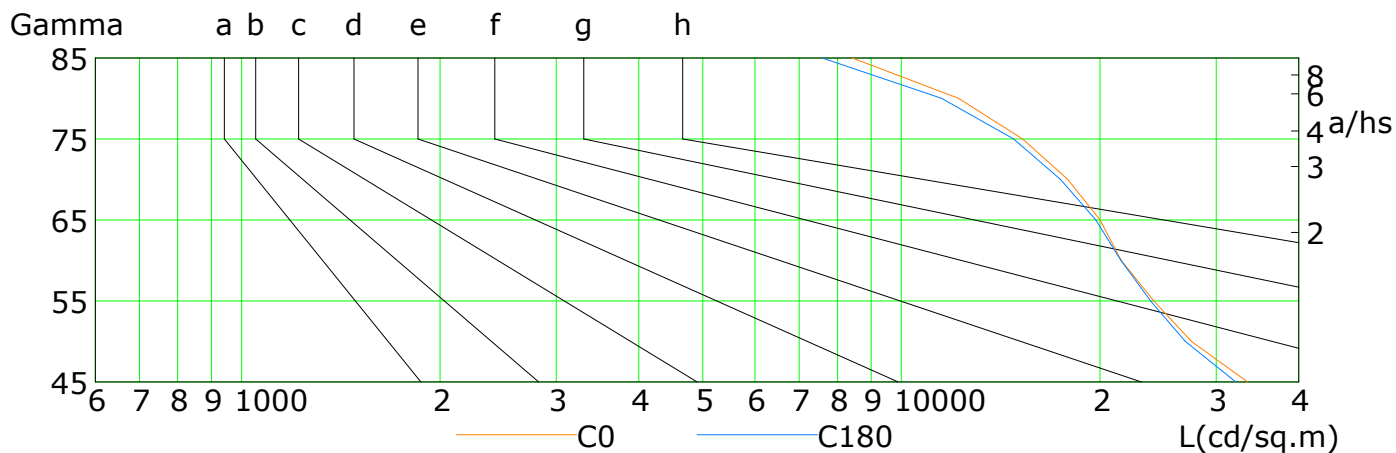
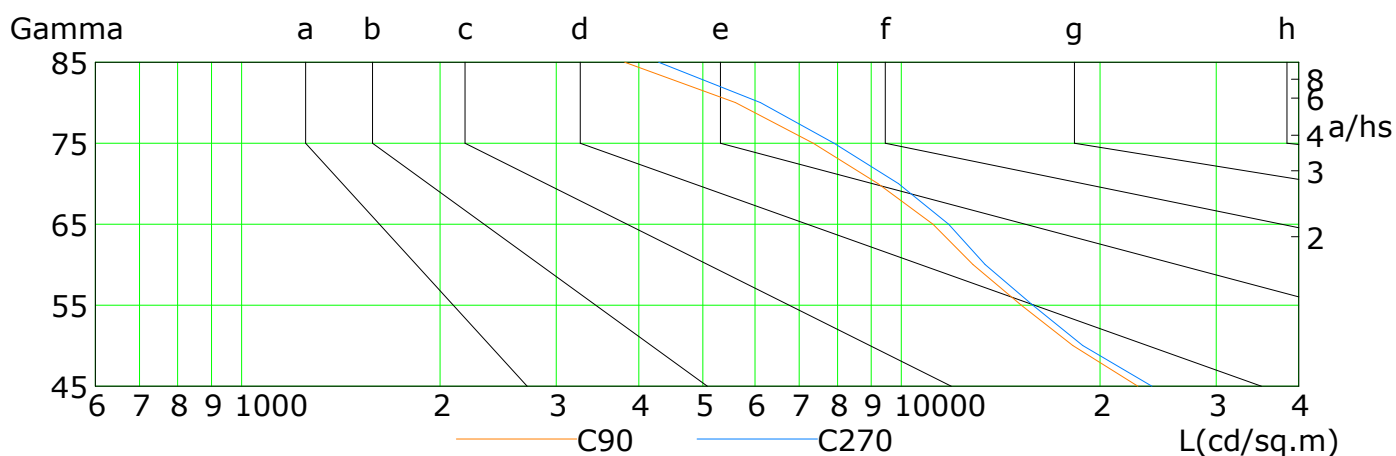
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	33482	27511	24121	21538	20001	17858	15258	12214	8422
C90	22821	18188	15202	12843	11164	9209	7355	5605	3806
C180	32107	26933	23851	21499	19723	17410	14794	11509	7584
C270	23968	18831	15820	13387	11789	9892	7909	6114	4287

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

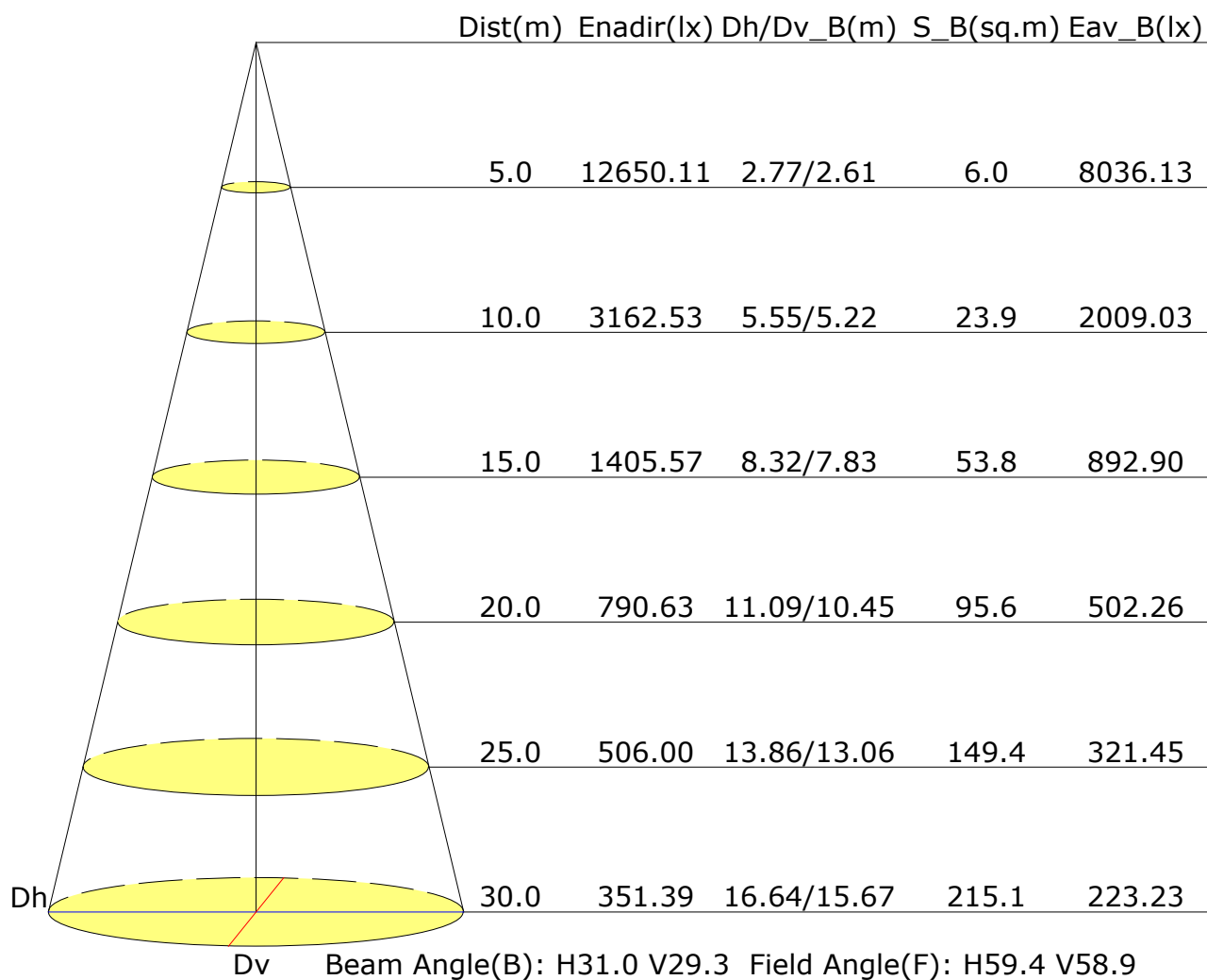
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	19.4	20.2	19.7	20.5	20.8	18.4	19.2	18.7	19.5	19.8
3H	20.8	21.6	21.1	21.9	22.2	19.4	20.2	19.7	20.5	20.8
4H	21.4	22.2	21.8	22.5	22.8	19.8	20.6	20.2	20.9	21.3
6H	22.0	22.7	22.4	23.0	23.4	20.2	20.9	20.6	21.3	21.6
8H	22.2	22.9	22.6	23.2	23.6	20.3	21.0	20.7	21.4	21.7
12H	22.3	23.0	22.8	23.4	23.8	20.4	21.1	20.8	21.4	21.8
X=4H Y=2H	19.7	20.4	20.1	20.8	21.1	18.9	19.6	19.2	19.9	20.3
3H	21.3	22.0	21.7	22.3	22.7	20.1	20.8	20.5	21.1	21.5
4H	22.1	22.7	22.5	23.1	23.5	20.7	21.3	21.1	21.7	22.1
6H	22.8	23.3	23.2	23.7	24.2	21.2	21.7	21.6	22.1	22.6
8H	23.0	23.5	23.5	24.0	24.5	21.3	21.8	21.8	22.3	22.8
12H	23.2	23.7	23.7	24.2	24.7	21.5	21.9	22.0	22.4	22.9
X=8H Y=4H	22.2	22.7	22.7	23.2	23.7	21.0	21.5	21.5	21.9	22.4
6H	23.1	23.5	23.6	23.9	24.5	21.6	22.0	22.1	22.5	23.0
8H	23.4	23.8	23.9	24.3	24.8	21.9	22.2	22.4	22.7	23.3
12H	23.7	24.0	24.3	24.5	25.1	22.1	22.4	22.6	22.9	23.5
X=12H Y=4H	22.2	22.7	22.7	23.1	23.6	21.0	21.4	21.5	21.9	22.4
6H	23.1	23.4	23.6	23.9	24.5	21.7	22.0	22.2	22.6	23.1
8H	23.5	23.8	24.0	24.3	24.9	22.0	22.3	22.6	22.8	23.4
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.3					+0.6/-0.4				
S=1.5H	+1.2/-0.6					+1.4/-0.8				
S=2.0H	+2.0/-1.0					+2.3/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 144812lm ($8\log(F/F_0) = 17.3$).

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 Test Lab:
 Test Type: TYPE C
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 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	0.82	0.88	0.92	0.95	0.99	1.02	1.04	1.07	1.09	
	0.30		0.77	0.83	0.87	0.90	0.95	0.98	1.01	1.04	1.06	
	0.20		0.73	0.79	0.83	0.87	0.92	0.95	0.98	1.02	1.04	
0.50	0.50	0.20	0.80	0.85	0.89	0.92	0.96	0.98	1.00	1.02	1.04	
	0.30		0.76	0.81	0.85	0.88	0.92	0.95	0.97	1.00	1.02	
	0.20		0.73	0.78	0.82	0.85	0.90	0.93	0.95	0.98	1.00	
0.30	0.50	0.20	0.79	0.84	0.87	0.89	0.93	0.95	0.96	0.98	1.00	
	0.30		0.75	0.80	0.84	0.86	0.90	0.92	0.94	0.97	0.98	
	0.20		0.72	0.77	0.81	0.84	0.88	0.90	0.92	0.95	0.97	
0.00	0.00	0.00	0.70	0.75	0.78	0.80	0.84	0.86	0.88	0.90	0.91	
Rating:1002W 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 = 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	0.62	0.52	0.45	0.39	0.31	0.26	0.23	0.18	0.15	
	0.30		0.52	0.44	0.39	0.35	0.28	0.24	0.21	0.17	0.14	
	0.20		0.45	0.39	0.34	0.31	0.26	0.22	0.20	0.16	0.13	
0.50	0.50	0.20	0.59	0.49	0.42	0.36	0.29	0.28	0.21	0.16	0.13	
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.15	0.13	
	0.20		0.43	0.37	0.33	0.30	0.25	0.21	0.18	0.15	0.12	
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.14	0.12	
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.11	
0.00	0.00	0.00	0.28	0.24	0.20	0.18	0.14	0.12	0.11	0.08	0.07	
Rating:1002W 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 = 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	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.17	0.18	0.20	0.20	0.22	0.23	
	0.20		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20	0.21	
0.50	0.50	0.20	0.16	0.17	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	0.12	0.14	0.15	0.17	0.18	0.19	0.20	
0.30	0.50	0.20	0.15	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.20	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:1002W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												