

Report No.: 1

Test Time: 25.10.2019 10:18

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 24LED 32W prozrachnyi

Luminous Length (mm): 1275

Luminous Height (mm): 75

Current: 0.155 A

Power Factor: 0.974

Luminous Width (mm): 80

Voltage: 220.9 V

Power: 33.43 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4978.9 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 136.2, 159.3, 154.7, 154.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 74.9, 110.0, 122.6, 124.1

Luminaire Efficacy Rating (LER): 148.98

Max. Intensity: 2002.48 cd

S/MH(C0/C180): 1.04

Total Rated Lamp Lumens: 4978.9 lm

Efficiency: 100%

Upward Ratio: 3%

Central Intensity: 1996.75 cd

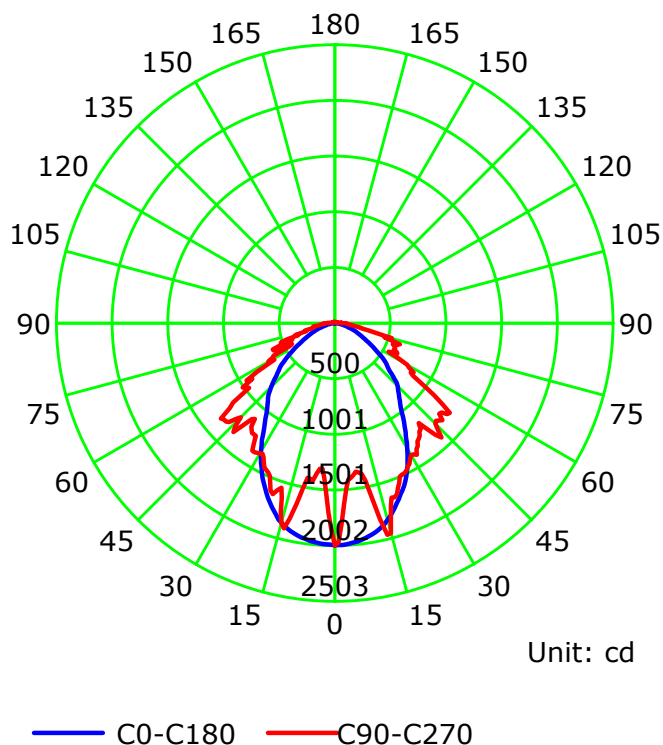
Pos of Max. Intensity: H22.5 V1

S/MH(C90/C270): 1.03

Picture Of Luminaire



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

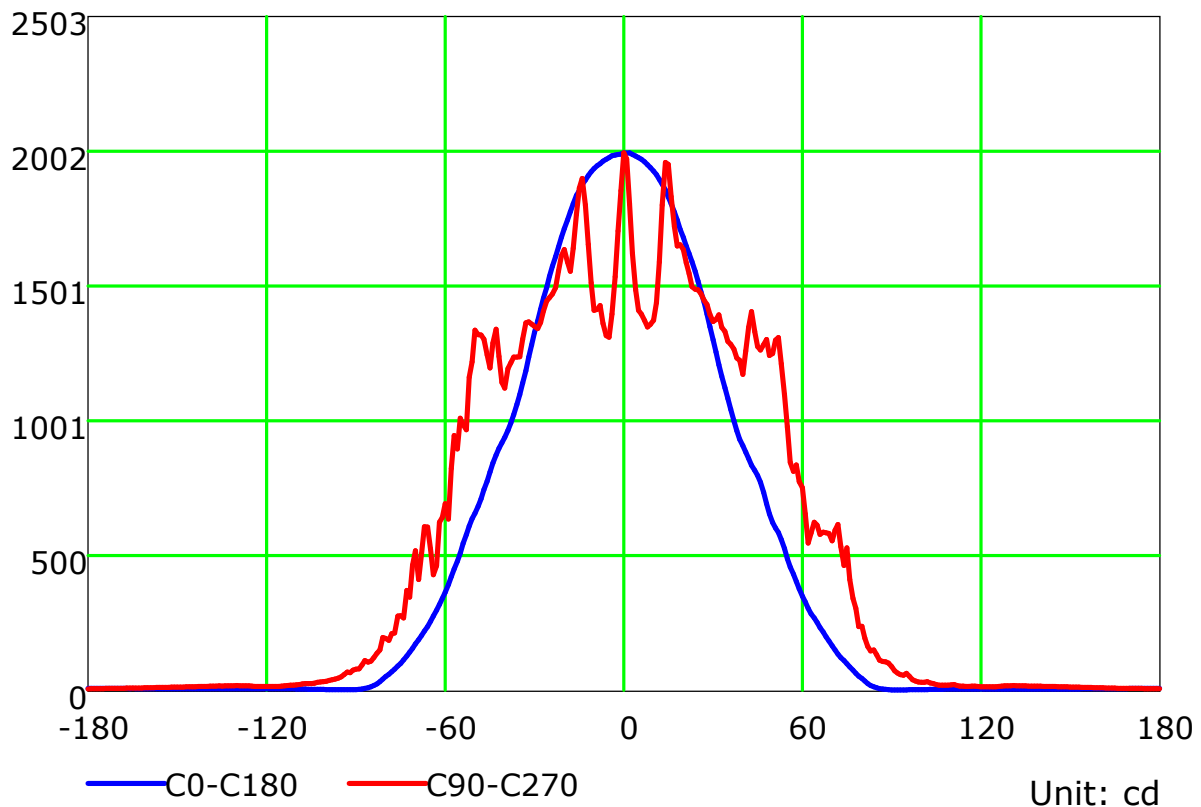
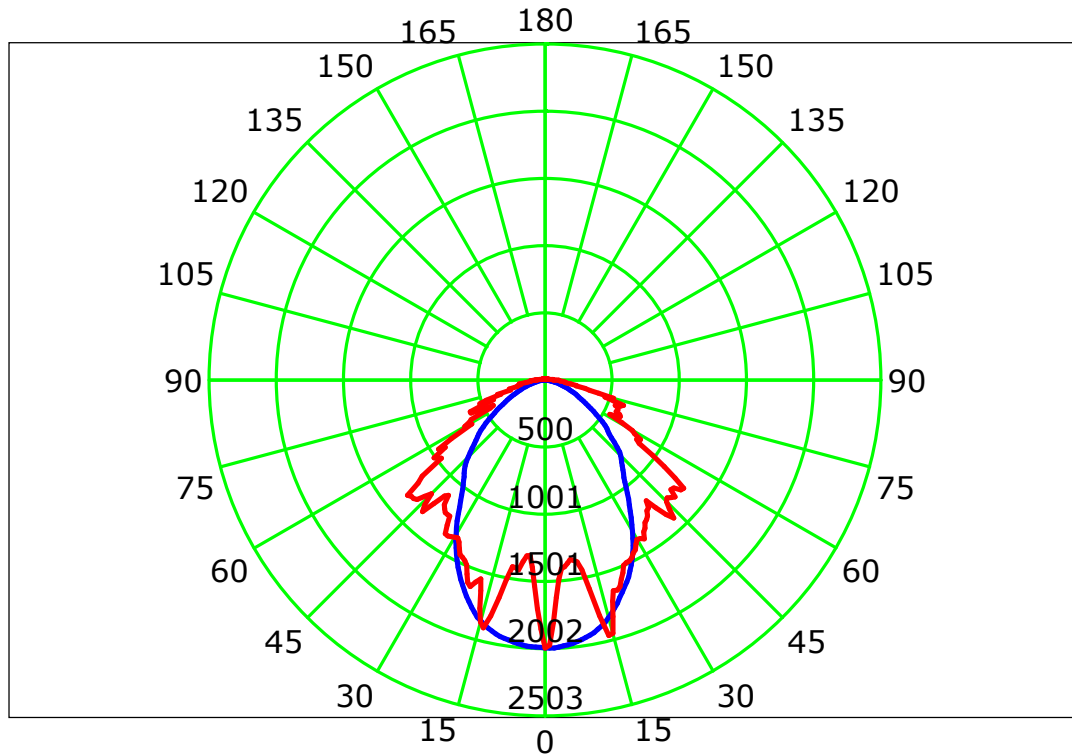
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

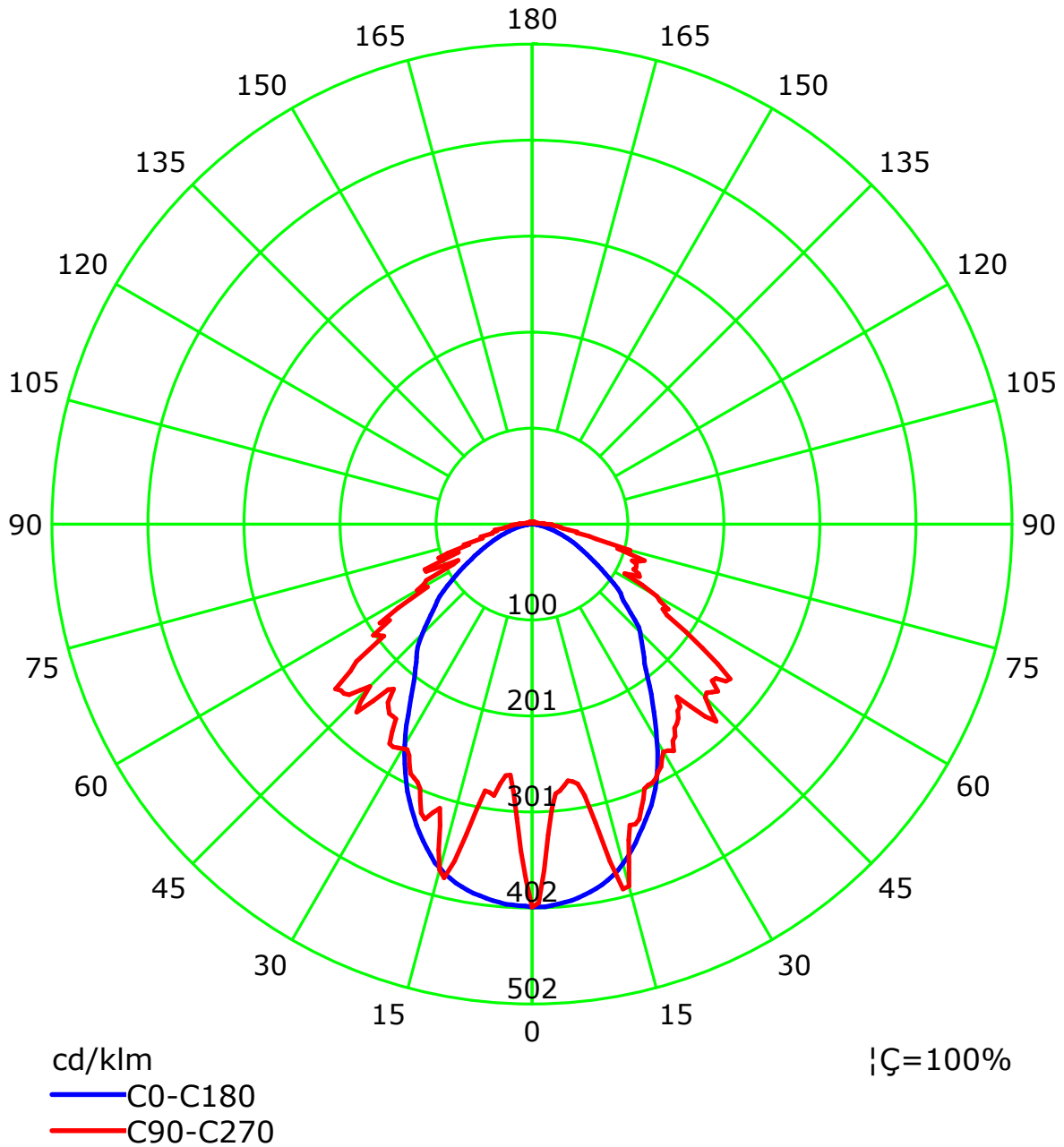
Luminous Intensity Distribution Curve



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:

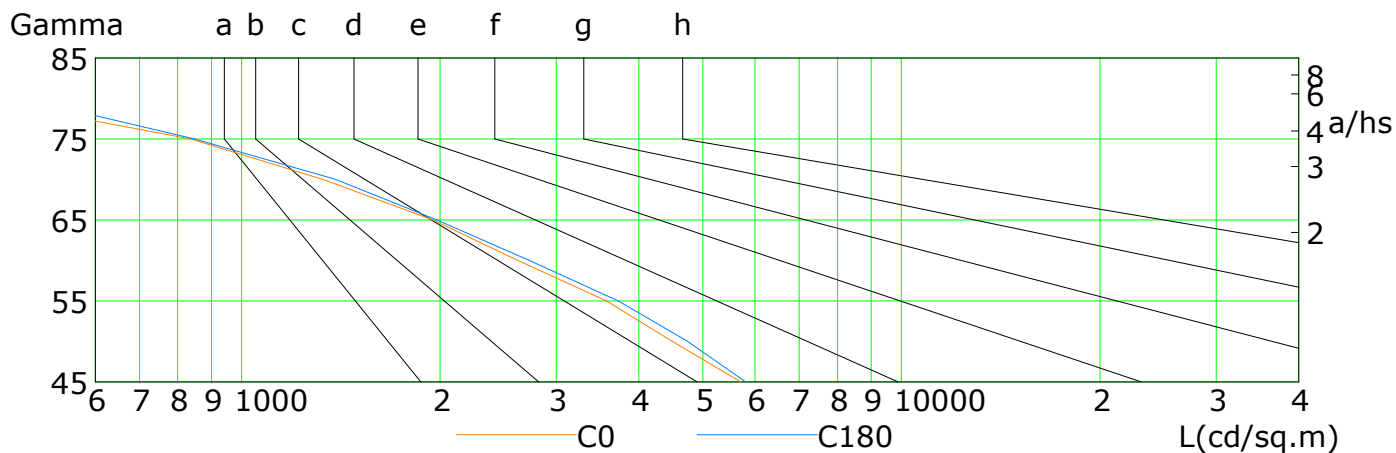
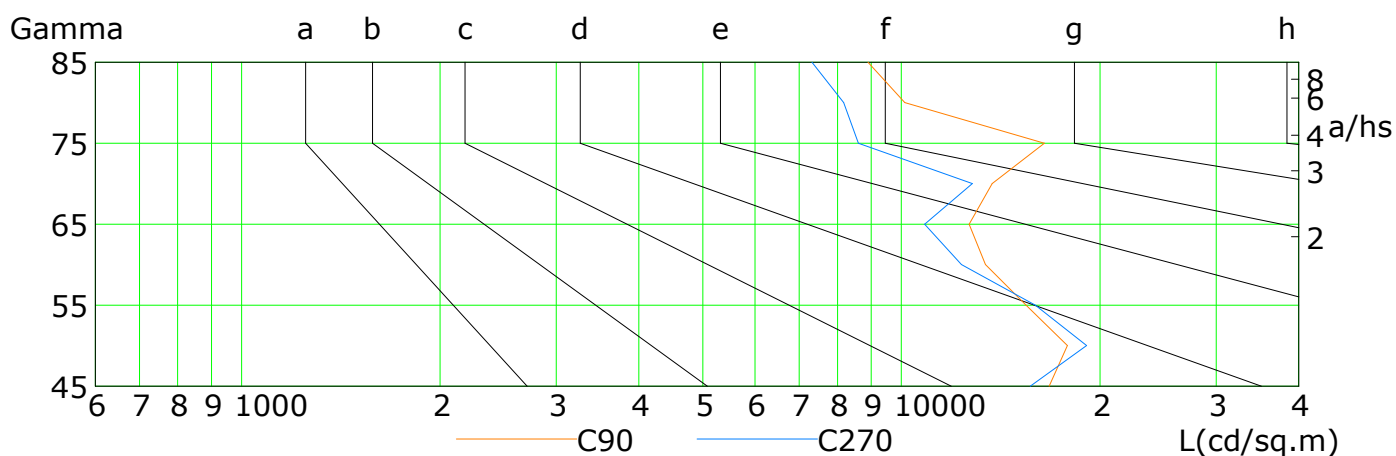
Luminous Intensity Distribution Curve(cd/klm)



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

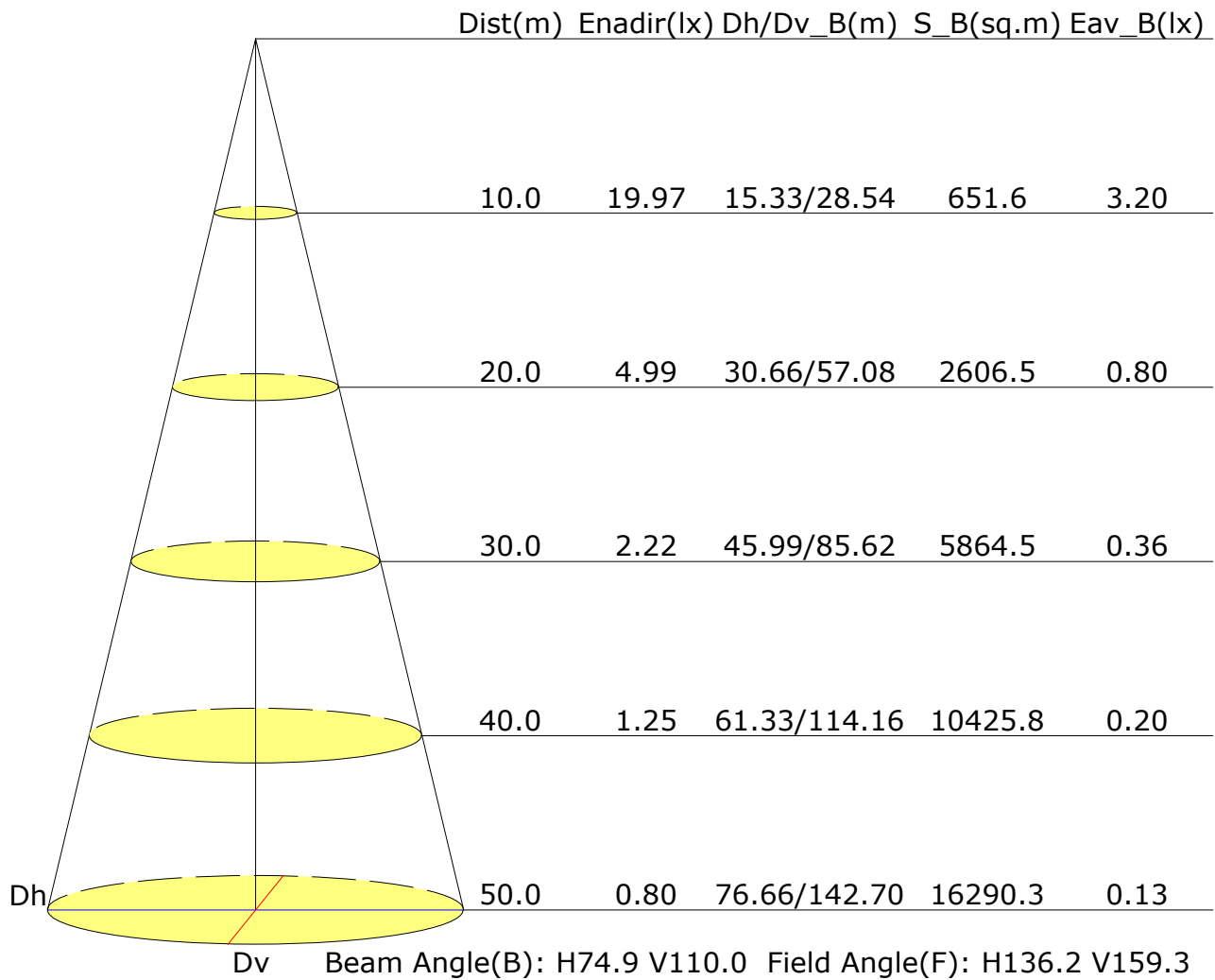


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5711	4493	3573	2621	1950	1327	838	398	93
C90	16739	17844	15447	13409	12662	13724	16471	10115	8902
C180	5807	4741	3726	2726	1978	1387	849	467	130
C270	15681	19075	15954	12338	10840	12802	8608	8175	7323

C Plane (°):0.0-360.0: 22.5
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 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	19.9	18.8	20.1	20.4	21.0	22.4	21.3	22.6	22.9
3H	19.5	20.8	19.9	21.1	21.4	22.4	23.7	22.8	24.0	24.3
4H	19.7	20.8	20.0	21.2	21.5	23.1	24.3	23.5	24.6	25.0
6H	19.6	20.7	20.0	21.1	21.5	23.5	24.6	23.9	25.0	25.3
8H	19.6	20.6	20.0	21.0	21.4	23.6	24.7	24.0	25.0	25.4
12H	19.6	20.6	20.0	20.9	21.3	23.7	24.7	24.2	25.1	25.5
X=4H Y=2H	19.5	20.7	19.9	21.0	21.3	21.3	22.5	21.7	22.8	23.2
3H	20.8	21.8	21.2	22.2	22.6	22.9	23.9	23.3	24.3	24.7
4H	21.1	22.0	21.5	22.4	22.8	23.7	24.6	24.1	25.0	25.4
6H	21.1	21.9	21.6	22.3	22.8	24.1	24.9	24.6	25.4	25.8
8H	21.1	21.8	21.6	22.3	22.7	24.3	25.0	24.8	25.5	26.0
12H	21.1	21.7	21.6	22.2	22.7	24.5	25.1	25.0	25.6	26.1
X=8H Y=4H	21.3	22.0	21.8	22.5	22.9	23.7	24.5	24.2	24.9	25.4
6H	21.4	22.0	21.9	22.5	23.0	24.3	24.8	24.8	25.3	25.8
8H	21.4	21.9	21.9	22.4	22.9	24.5	25.0	25.0	25.5	26.0
12H	21.4	21.8	21.9	22.3	22.9	24.7	25.1	25.2	25.7	26.2
X=12H Y=4H	21.3	21.9	21.8	22.4	22.9	23.7	24.4	24.2	24.8	25.3
6H	21.4	21.9	21.9	22.4	23.0	24.2	24.8	24.8	25.3	25.8
8H	21.4	21.9	22.0	22.4	23.0	24.5	24.9	25.0	25.4	26.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.2/-0.2				
S=1.5H	+1.3/-1.7					+1.0/-1.2				
S=2.0H	+1.7/-3.3					+1.4/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 4979Im ($8\log(F/F_0) = 5.6$).

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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 = 1.25									
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	0.55	0.66	0.73	0.79	0.86	0.91	0.95	0.99	1.02	
	0.30		0.47	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.91	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.87	0.91	0.95	0.98	
	0.30		0.46	0.57	0.64	0.70	0.77	0.83	0.86	0.91	0.95	
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.79	0.84	0.87	0.91	0.93	
	0.30		0.45	0.56	0.63	0.68	0.75	0.80	0.83	0.88	0.91	
	0.20		0.41	0.51	0.58	0.64	0.71	0.76	0.80	0.85	0.89	
0.00	0.00	0.00	0.38	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
Rating:33W 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 = 1.25									
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	1.00	0.83	0.70	0.61	0.49	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.47	0.42	0.33	0.26	0.21	
	0.30		0.82	0.69	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.37	0.31	0.24	0.20	
	0.30		0.80	0.67	0.57	0.50	0.41	0.34	0.30	0.23	0.19	
	0.20		0.70	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.59	0.50	0.43	0.37	0.30	0.25	0.22	0.17	0.14	
Rating:33W 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 = 1.25									
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	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.23	0.23	
	0.30		0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.30	0.50	0.20	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.22	
	0.30		0.11	0.13	0.14	0.15	0.16	0.18	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
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:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												