

Report No.: 1

Test Time: 21.11.2019 12:46

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 (1500) 4x30LED 0.55A 70W Ê Â prozrachnyi

Luminous Length (mm): 1550

Luminous Width (mm): 60

Luminous Height (mm): 83

Voltage: 221.3 V

Current: 0.324 A

Power: 71.27 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Measurement Flux: 8280.6 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 8280.6 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.0, 116.7, 131.8, 133.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.3, 110.0, 114.1, 114.5

Luminaire Efficacy Rating (LER): 116.24

Central Intensity: 3202.4 cd

Max. Intensity: 3211.78 cd

Pos of Max. Intensity: H157.5 V0

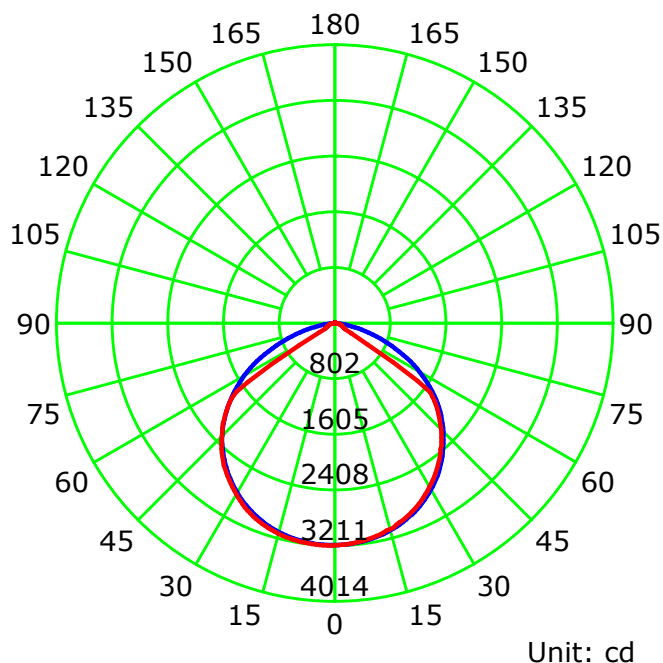
S/MH(C0/C180): 1.30

S/MH(C90/C270): 1.29

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 (°):0.0-180.0:1.0

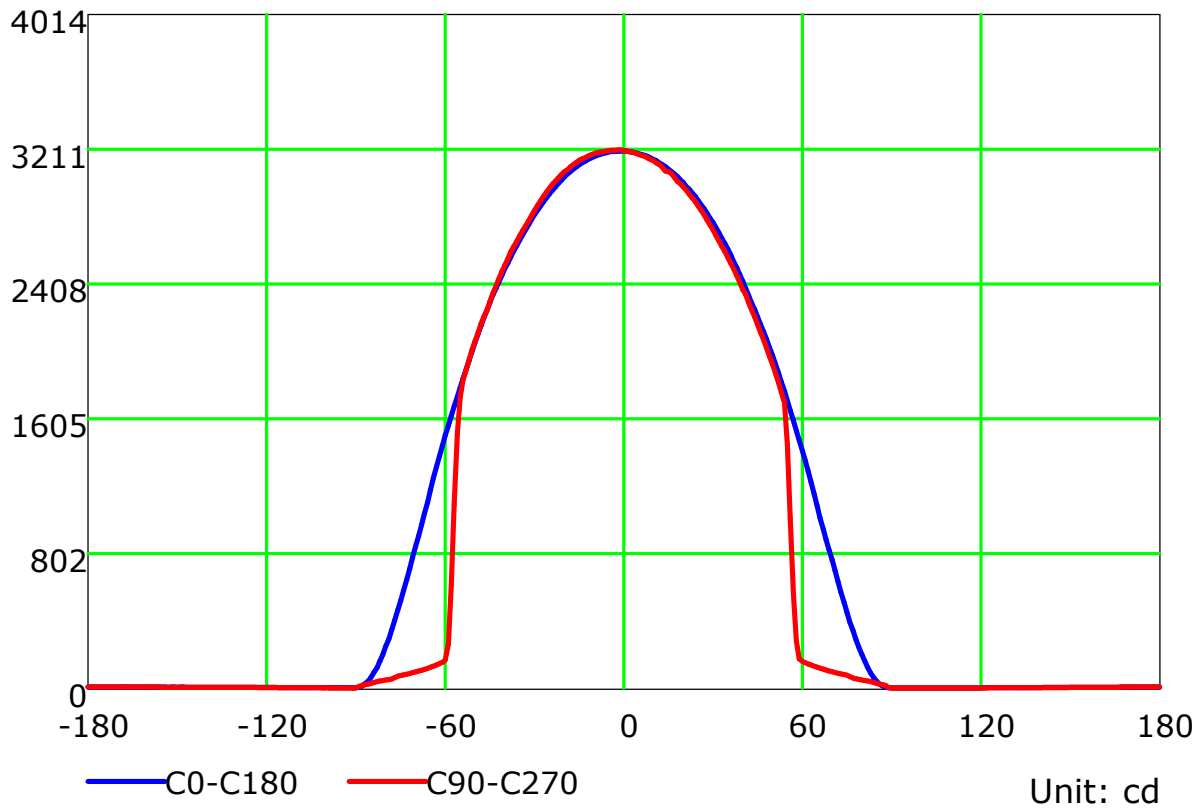
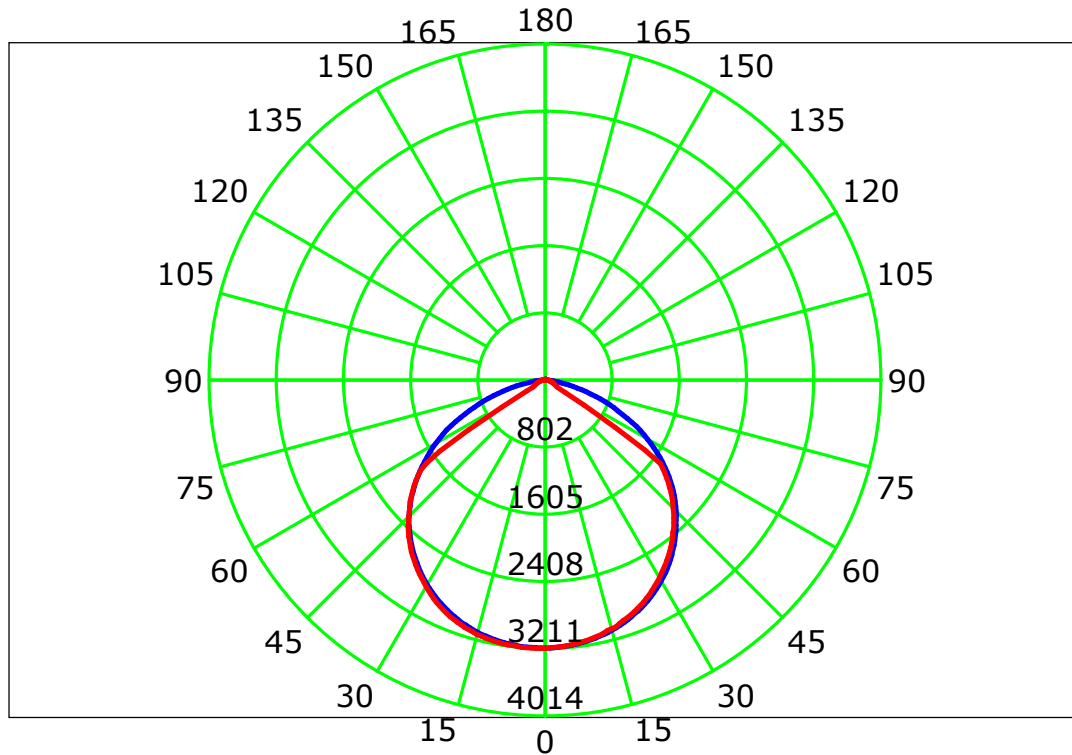
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

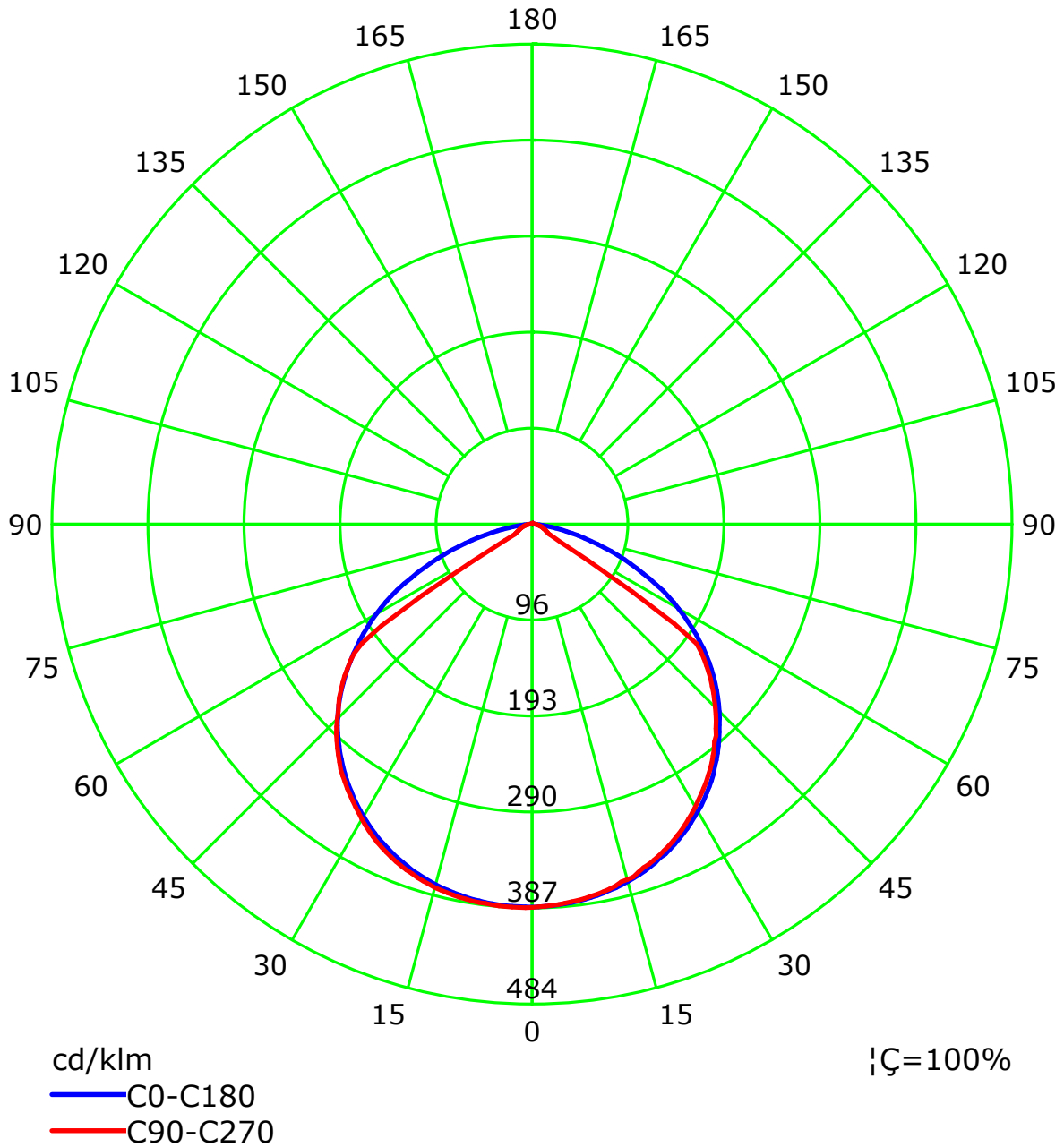
Luminous Intensity Distribution Curve



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

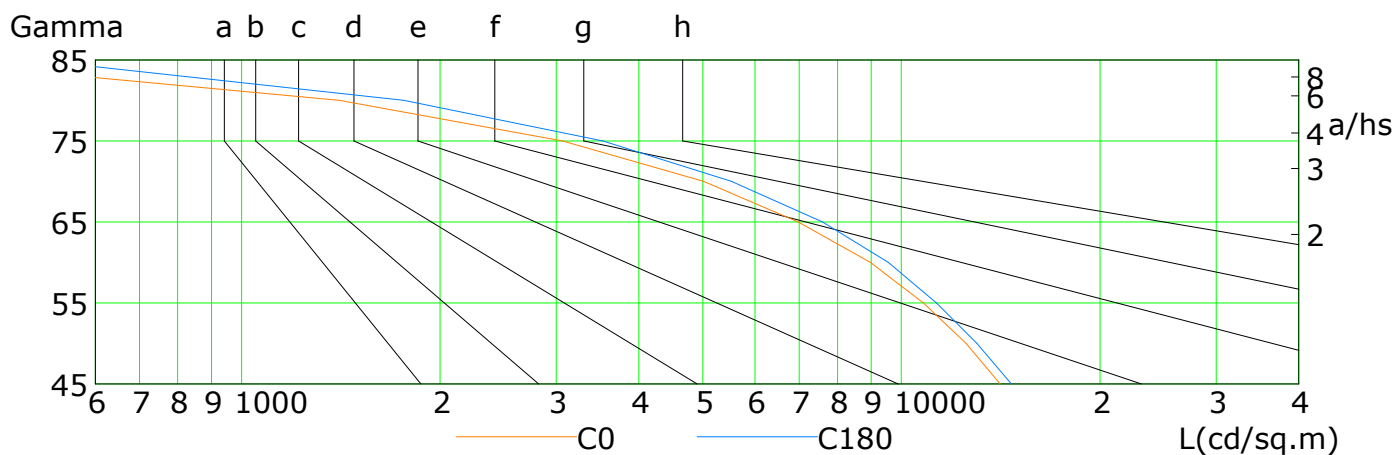
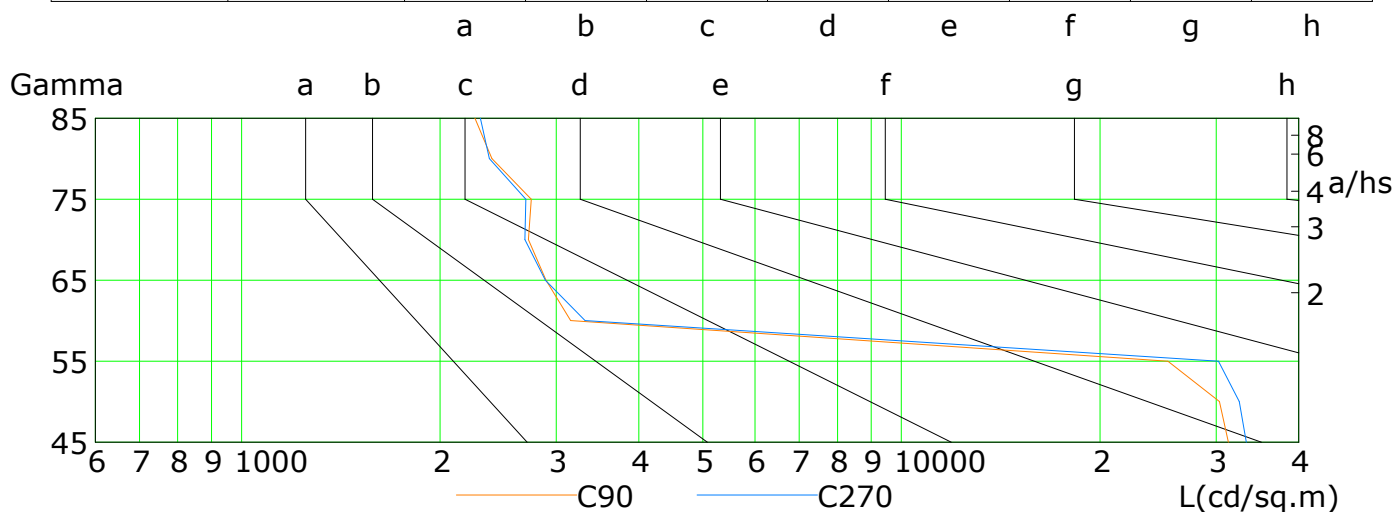
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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

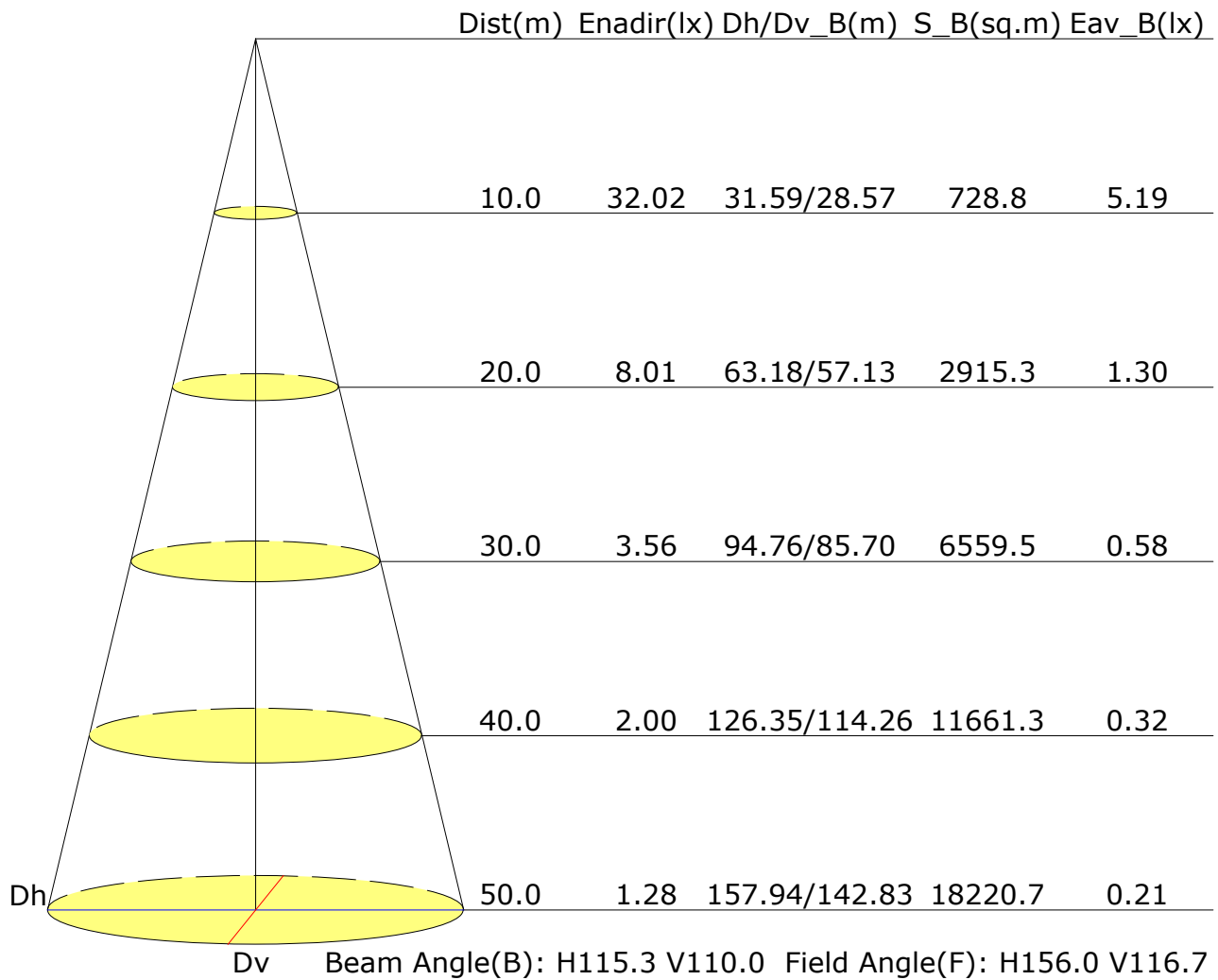


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	14124	12521	10802	8973	6977	5015	3067	1406	313
C90	31286	30341	25334	3154	2893	2721	2748	2396	2258
C180	14682	13018	11298	9550	7594	5524	3529	1761	485
C270	33307	32522	30238	3317	2888	2689	2695	2374	2302

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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	21.3	22.6	21.6	22.9	23.1	21.7	23.0	22.0	23.2	23.5
3H	22.1	23.3	22.5	23.6	23.8	21.6	22.7	21.9	23.0	23.3
4H	22.3	23.4	22.6	23.7	24.0	21.5	22.6	21.9	22.9	23.2
6H	22.3	23.3	22.7	23.6	23.9	21.5	22.5	21.8	22.8	23.1
8H	22.3	23.2	22.6	23.6	23.9	21.4	22.4	21.8	22.7	23.0
12H	22.2	23.2	22.6	23.5	23.8	21.4	22.3	21.8	22.7	23.0
X=4H Y=2H	21.6	22.7	22.0	23.0	23.3	21.9	23.0	22.2	23.3	23.5
3H	22.5	23.4	22.9	23.7	24.1	21.8	22.7	22.1	23.0	23.4
4H	22.7	23.5	23.1	23.9	24.2	21.7	22.5	22.1	22.9	23.3
6H	22.7	23.4	23.1	23.8	24.2	21.7	22.4	22.1	22.8	23.2
8H	22.7	23.3	23.1	23.7	24.2	21.7	22.3	22.1	22.7	23.1
12H	22.6	23.2	23.1	23.6	24.1	21.6	22.2	22.1	22.7	23.1
X=8H Y=4H	22.6	23.2	23.0	23.6	24.1	21.7	22.3	22.1	22.7	23.1
6H	22.6	23.1	23.1	23.6	24.0	21.6	22.2	22.1	22.6	23.1
8H	22.6	23.0	23.1	23.5	24.0	21.6	22.1	22.1	22.5	23.0
12H	22.6	22.9	23.1	23.4	23.9	21.6	22.0	22.1	22.5	23.0
X=12H Y=4H	22.5	23.1	23.0	23.6	24.0	21.6	22.2	22.1	22.6	23.1
6H	22.6	23.0	23.0	23.5	24.0	21.6	22.1	22.1	22.5	23.0
8H	22.5	22.9	23.0	23.4	23.9	21.6	22.0	22.1	22.5	23.0
Variations with the observer position at spacings:										
S=1.0H	+0.1/-0.3					+0.8/-1.3				
S=1.5H	+0.7/-1.5					+2.9/-9.8				
S=2.0H	+1.2/-2.4					+4.4/-11.6				

Calculate in accordance with CIE Pub.117. The table is revised with 8281lm ($8\log(F/F_0) = 7.3$).

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 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	0.61	0.72	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.53	0.65	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.98	1.01	
0.50	0.50	0.20	0.59	0.70	0.78	0.83	0.89	0.94	0.96	1.00	1.03	
	0.30		0.53	0.64	0.72	0.77	0.85	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.97	0.99	
	0.30		0.52	0.63	0.70	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.47	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.45	0.56	0.63	0.69	0.76	0.80	0.83	0.88	0.90	
Rating:71W 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	0.96	0.77	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.80	0.66	0.56	0.49	0.39	0.32	0.28	0.22	0.18	
	0.20		0.68	0.57	0.49	0.44	0.36	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.92	0.73	0.61	0.52	0.41	0.37	0.28	0.22	0.18	
	0.30		0.78	0.64	0.54	0.47	0.37	0.31	0.27	0.21	0.17	
	0.20		0.68	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.89	0.70	0.59	0.50	0.39	0.32	0.27	0.20	0.17	
	0.30		0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.20	0.16	
	0.20		0.67	0.55	0.47	0.42	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.56	0.45	0.38	0.32	0.25	0.21	0.18	0.14	0.11	
Rating:71W 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	0.16	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	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	0.08	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		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:71W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												