

Report No.: 1

Test Time: 25.11.2019 17:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 300 40LED 0,3A 30W 5000K microprisma (40) Griliyato

Luminous Length (mm): 286

Luminous Width (mm): 286

Luminous Height (mm): 40

Voltage: 221.3 V

Current: 0.142 A

Power: 30.61 W

Power Factor: 0.967

Photometric Results

CIE Class: Direct

Measurement Flux: 3718.5 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3718.5 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.9, 160.4, 151.1, 150.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.5, 81.7, 75.9, 76.1

Luminaire Efficacy Rating (LER): 121.53

Central Intensity: 1889.52 cd

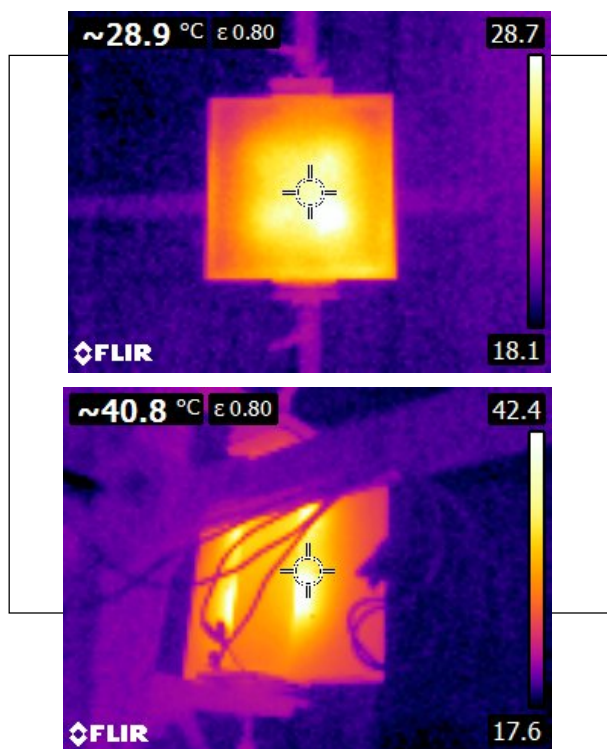
Max. Intensity: 1893.73 cd

Pos of Max. Intensity: H135 V2

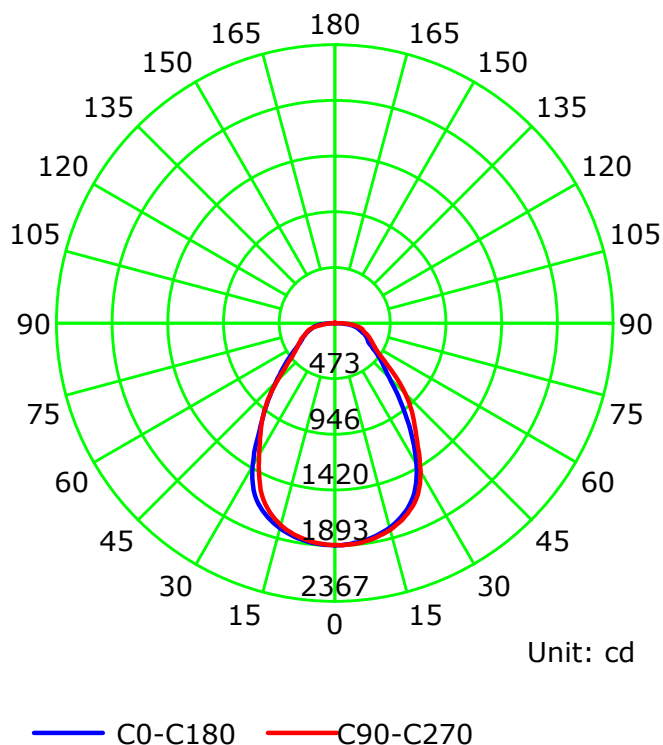
S/MH(C0/C180): 1.12

S/MH(C90/C270): 1.11

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

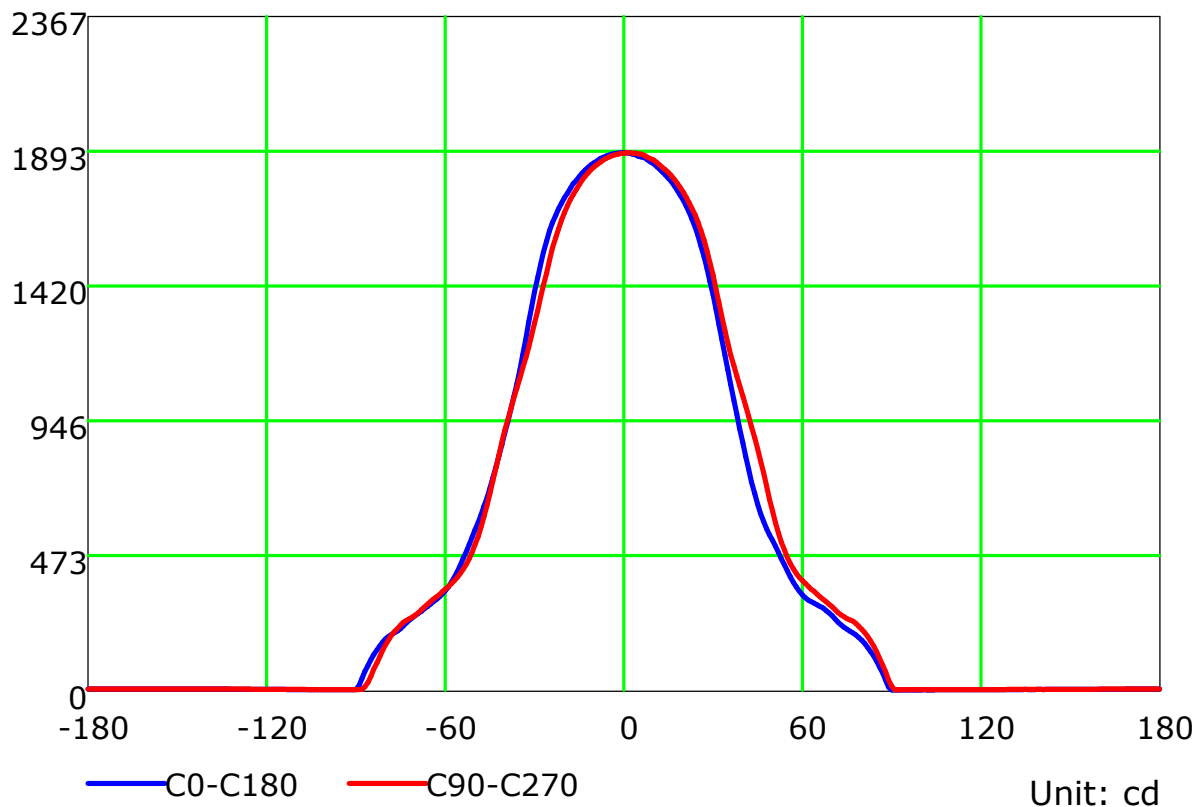
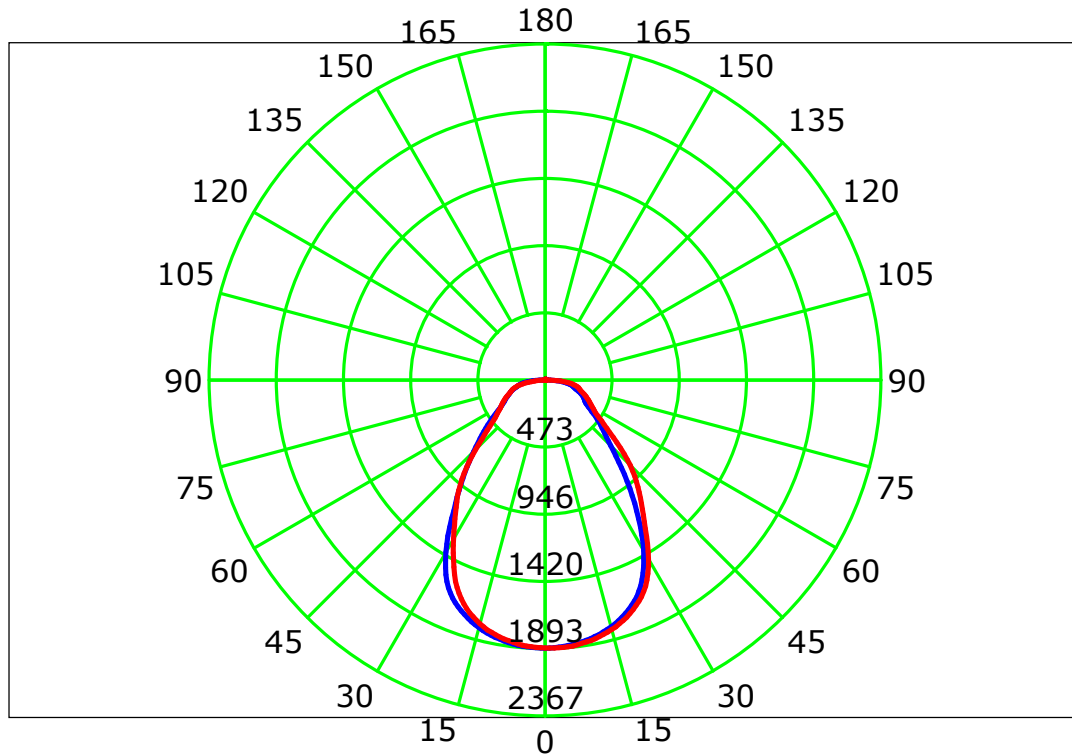
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

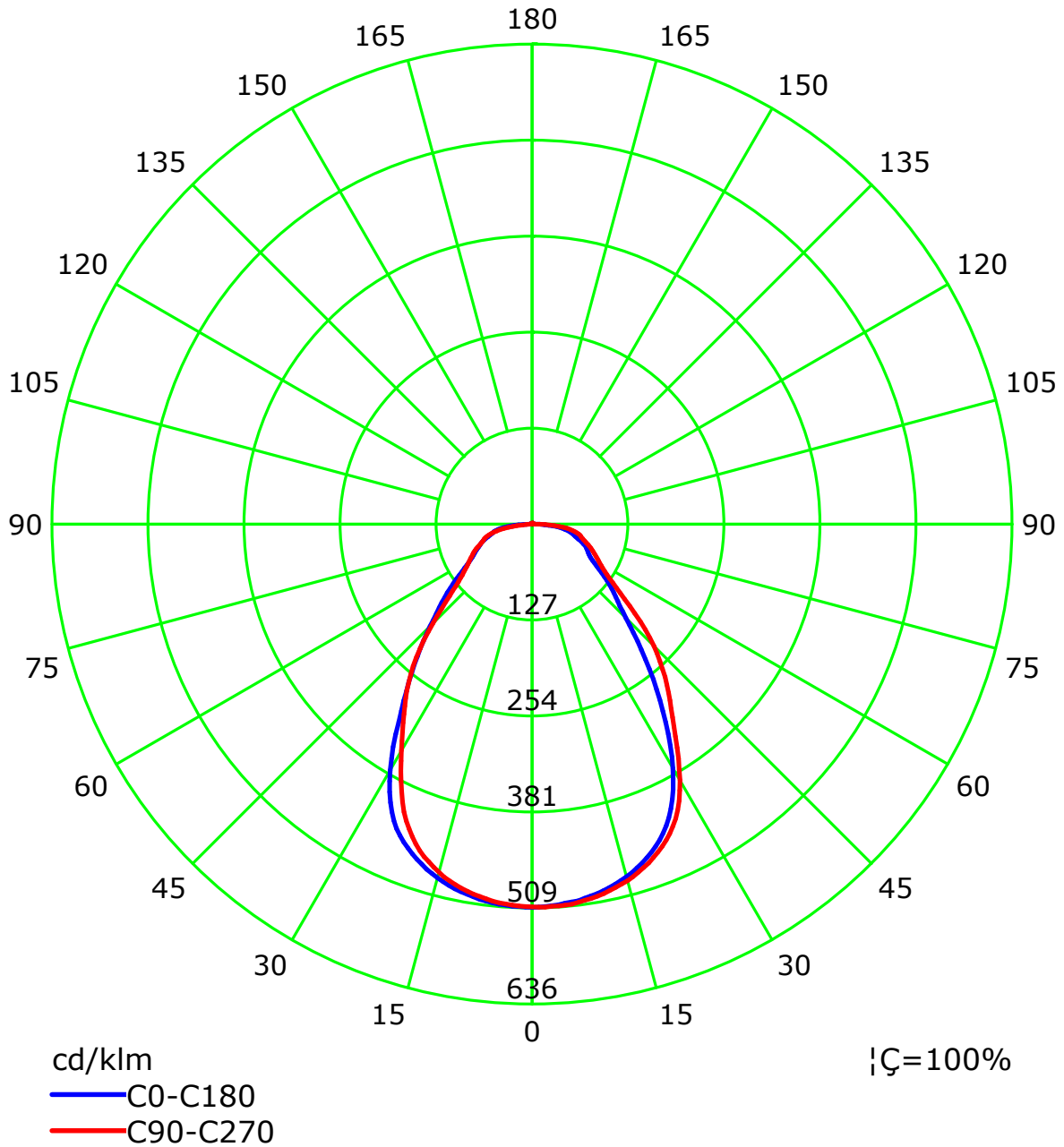
Luminous Intensity Distribution Curve



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)



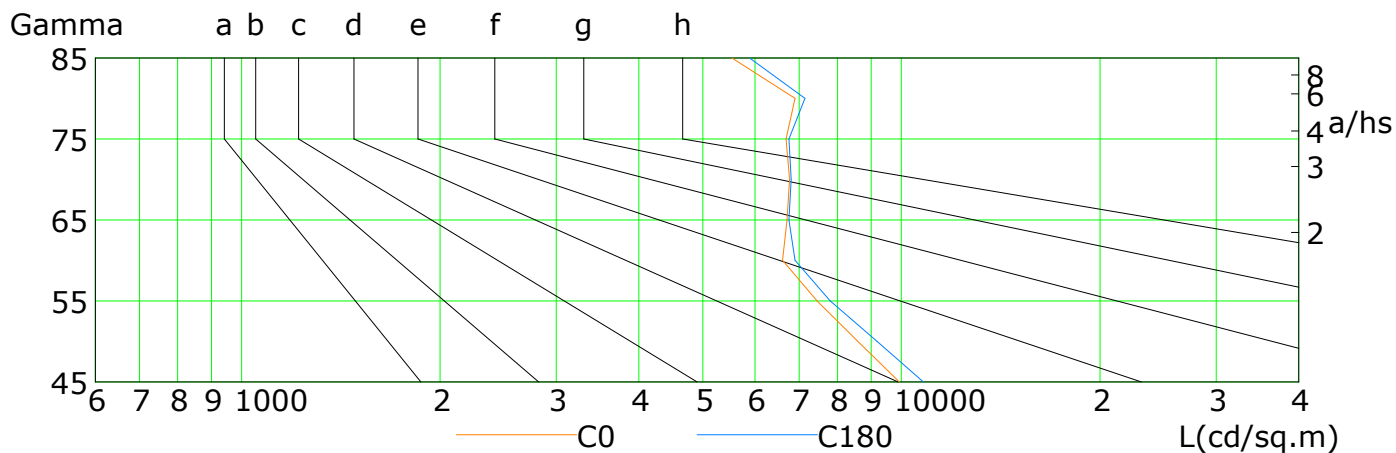
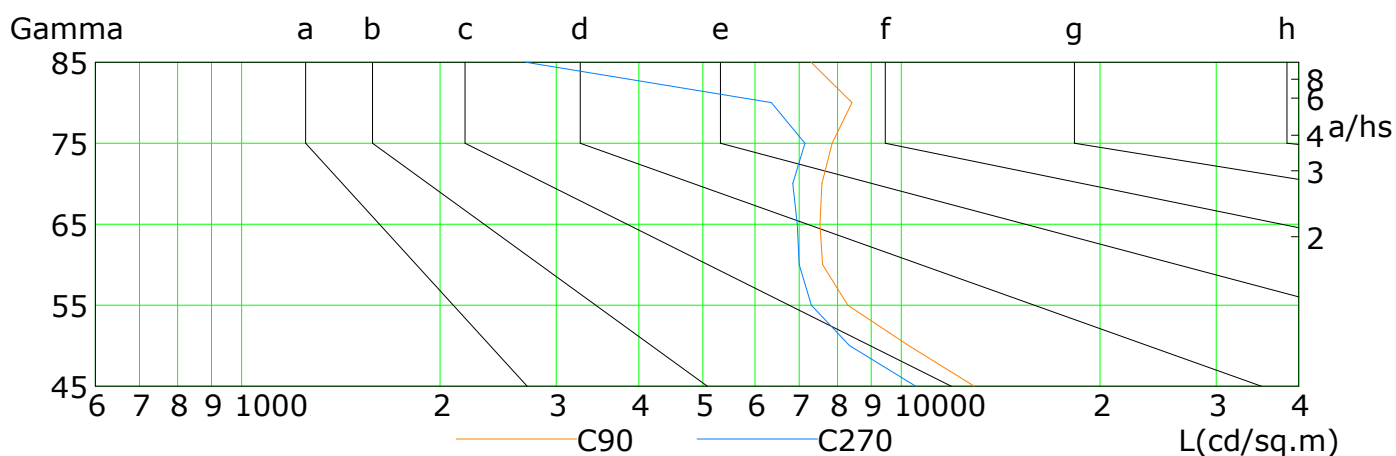
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

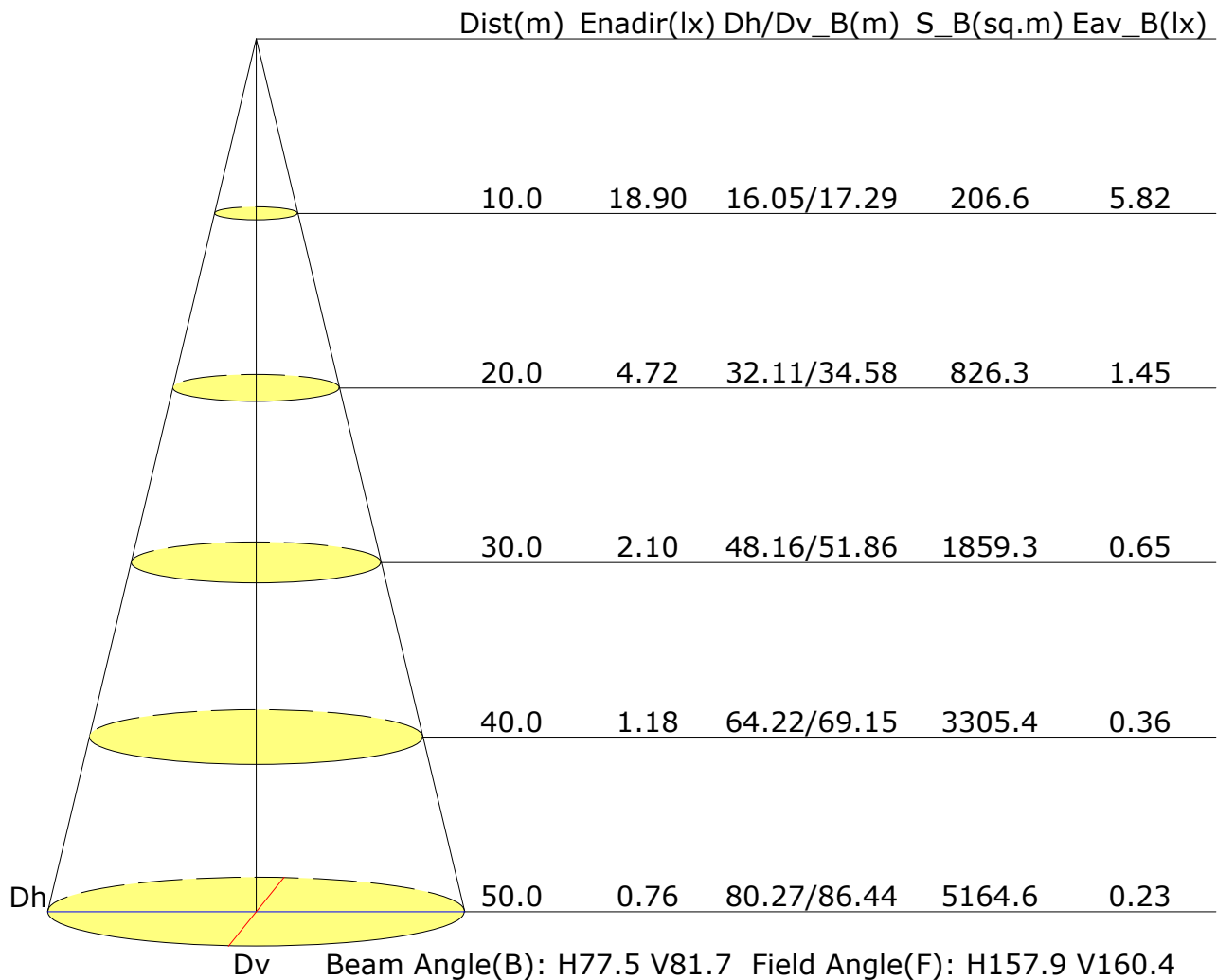


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9931	8588	7456	6607	6707	6770	6683	6901	5538
C90	12890	10260	8294	7597	7528	7580	7853	8420	7292
C180	10795	9187	7805	6896	6756	6806	6754	7145	5886
C270	10511	8344	7304	6997	6950	6847	7145	6349	2695

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	18.6	19.9	18.9	20.1	20.3	18.9	20.2	19.2	20.4	20.7
3H	20.0	21.2	20.4	21.4	21.7	20.4	21.5	20.7	21.8	22.1
4H	20.8	21.8	21.1	22.1	22.4	21.2	22.3	21.5	22.5	22.9
6H	21.5	22.5	21.9	22.8	23.1	22.0	23.0	22.3	23.3	23.6
8H	21.8	22.8	22.2	23.1	23.5	22.3	23.2	22.6	23.6	23.9
12H	22.0	23.0	22.4	23.3	23.7	22.5	23.4	22.9	23.7	24.1
X=4H Y=2H	19.1	20.2	19.4	20.5	20.8	19.4	20.4	19.7	20.7	21.0
3H	20.7	21.7	21.1	22.0	22.4	21.0	22.0	21.4	22.3	22.7
4H	21.6	22.5	22.0	22.8	23.2	22.0	22.8	22.4	23.2	23.6
6H	22.5	23.3	23.0	23.7	24.1	23.0	23.7	23.4	24.1	24.5
8H	22.9	23.6	23.4	24.0	24.4	23.3	24.0	23.8	24.4	24.9
12H	23.2	23.8	23.7	24.3	24.7	23.6	24.2	24.1	24.6	25.1
X=8H Y=4H	21.9	22.6	22.4	23.0	23.4	22.3	22.9	22.7	23.3	23.8
6H	23.0	23.5	23.4	24.0	24.4	23.4	23.9	23.8	24.4	24.8
8H	23.5	23.9	23.9	24.4	24.9	23.8	24.3	24.3	24.8	25.3
12H	23.8	24.3	24.3	24.8	25.3	24.2	24.6	24.7	25.1	25.6
X=12H Y=4H	22.0	22.6	22.4	23.0	23.5	22.3	22.9	22.7	23.3	23.8
6H	23.0	23.5	23.5	24.0	24.5	23.4	23.9	23.9	24.4	24.9
8H	23.6	24.0	24.1	24.5	25.0	23.9	24.4	24.4	24.8	25.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.6				
S=2.0H	+0.7/-0.9					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3719lm ($8\log(F/F_0) = 4.6$).

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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 = 1.00									
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	0.63	0.72	0.79	0.83	0.90	0.94	0.97	1.02	1.04	
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.51	0.60	0.67	0.72	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.87	0.91	0.94	0.97	1.00	
	0.30		0.55	0.64	0.70	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.95	
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.84	0.87	0.90	0.94	0.96	
	0.30		0.54	0.63	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	0.59	0.65	0.69	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.48	0.56	0.62	0.66	0.73	0.77	0.80	0.84	0.87	
Rating:31W 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 = 1.00									
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	0.90	0.75	0.64	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.64	0.56	0.50	0.41	0.34	0.30	0.24	0.20	
	0.20		0.65	0.56	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.87	0.72	0.61	0.53	0.43	0.39	0.31	0.24	0.20	
	0.30		0.74	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.64	0.55	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.84	0.69	0.59	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.72	0.60	0.52	0.46	0.38	0.32	0.27	0.22	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.52	0.44	0.38	0.33	0.27	0.23	0.20	0.16	0.13	
Rating:31W 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 = 1.00									
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	0.16	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	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	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	0.08	0.10	0.11	0.13	0.14	0.15	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:31W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												