

Report No.: 1

Test Time: 30.10.2019 12:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 250 4x40LED 0,3A 30W 5000K microprisma IP54

Luminous Length (mm): 250

Luminous Width (mm): 250

Luminous Height (mm): 48

Voltage: 221.2 V

Current: 0.129 A

Power: 27.93 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 3844.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3844.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.0, 156.0, 149.7, 150.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 82.6, 79.0, 76.5, 76.4

Luminaire Efficacy Rating (LER): 137.69

Central Intensity: 1933.18 cd

Max. Intensity: 1936.18 cd

Pos of Max. Intensity: H45 V2

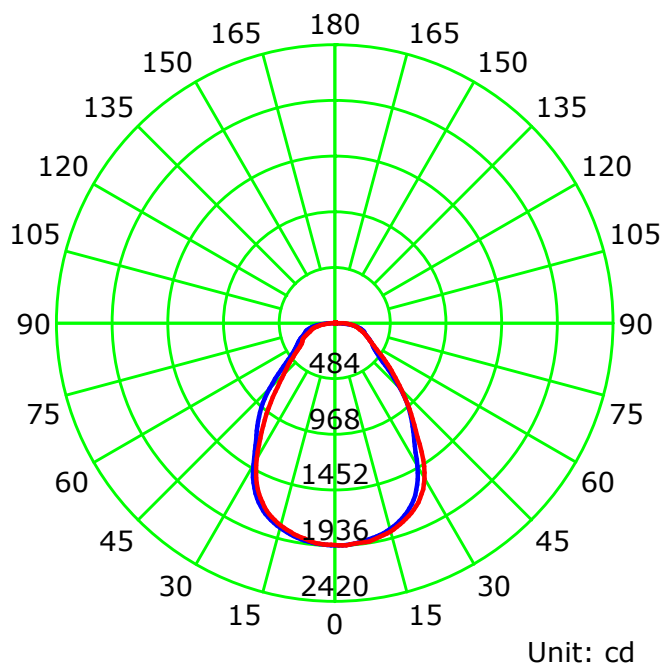
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.14

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

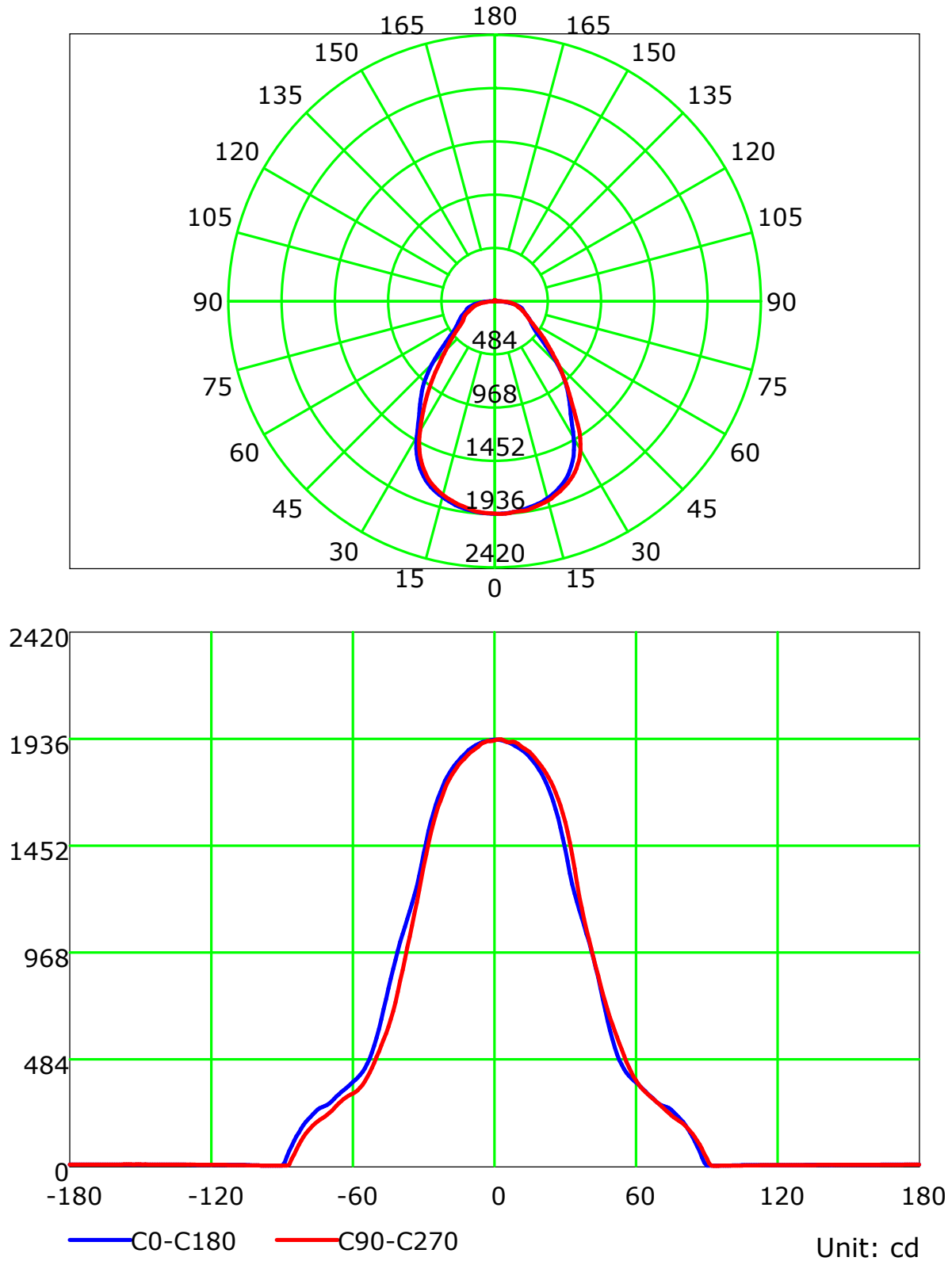
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

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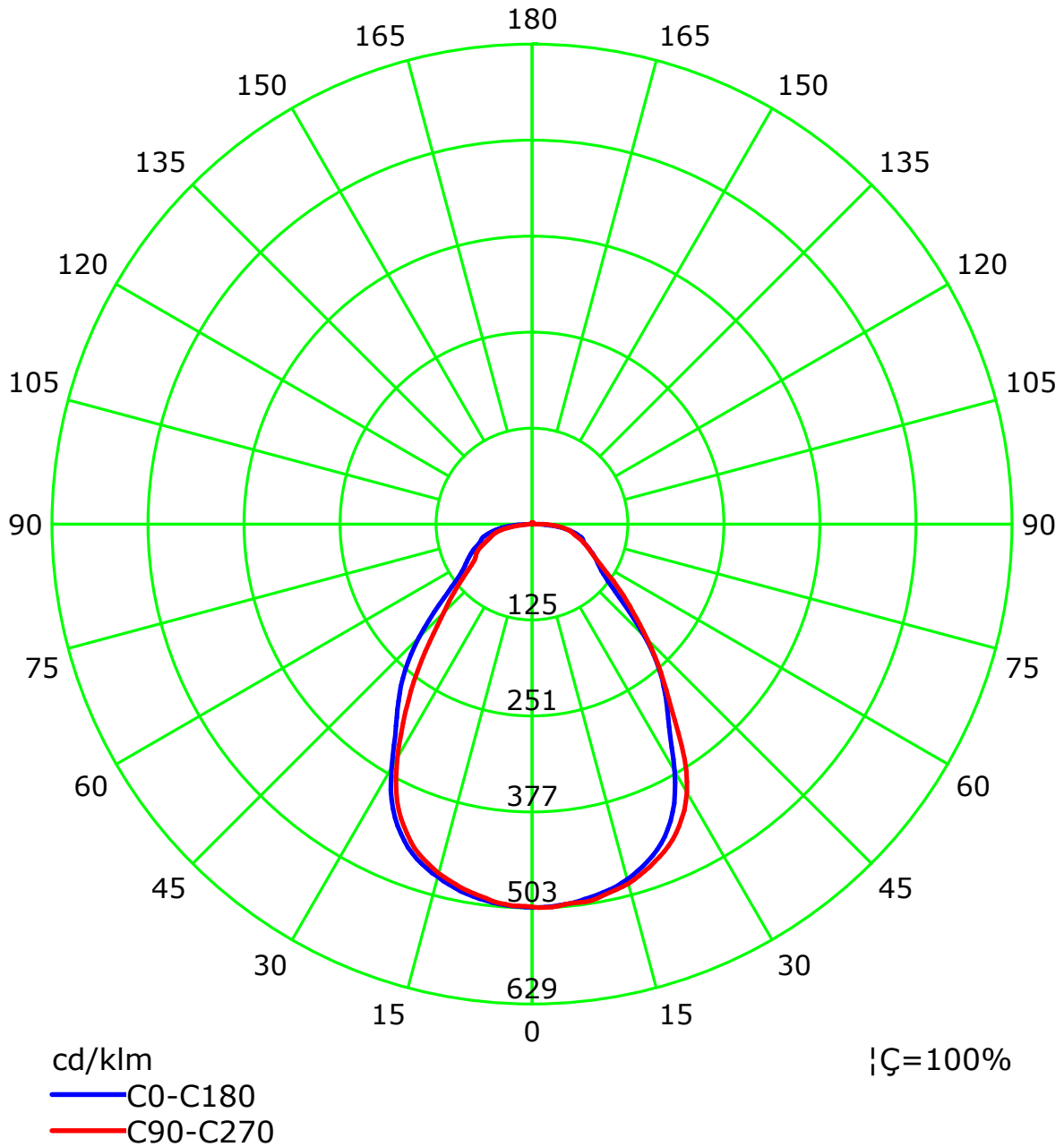
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



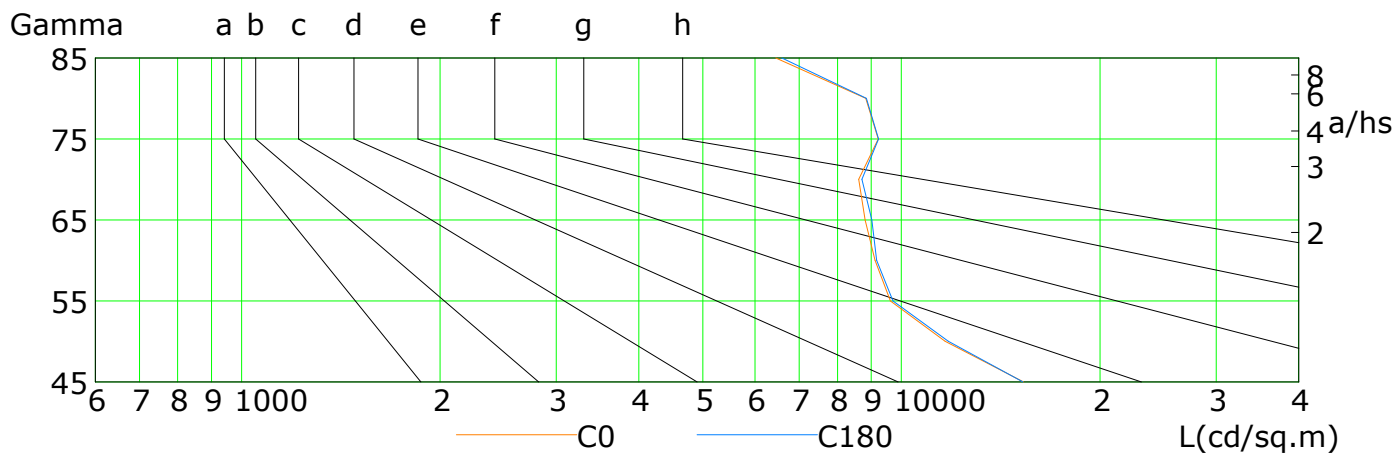
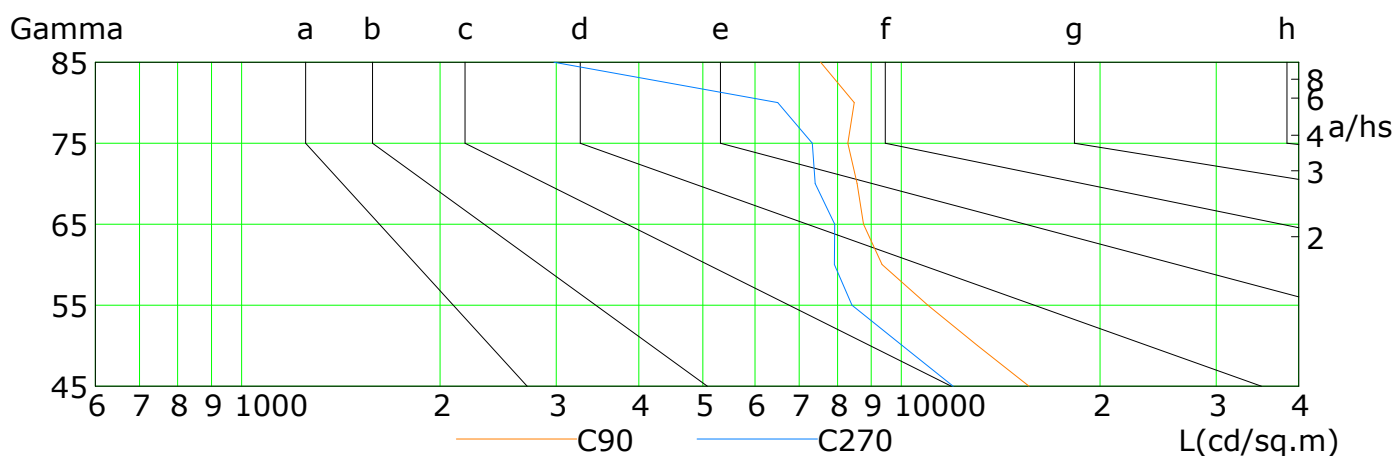
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
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

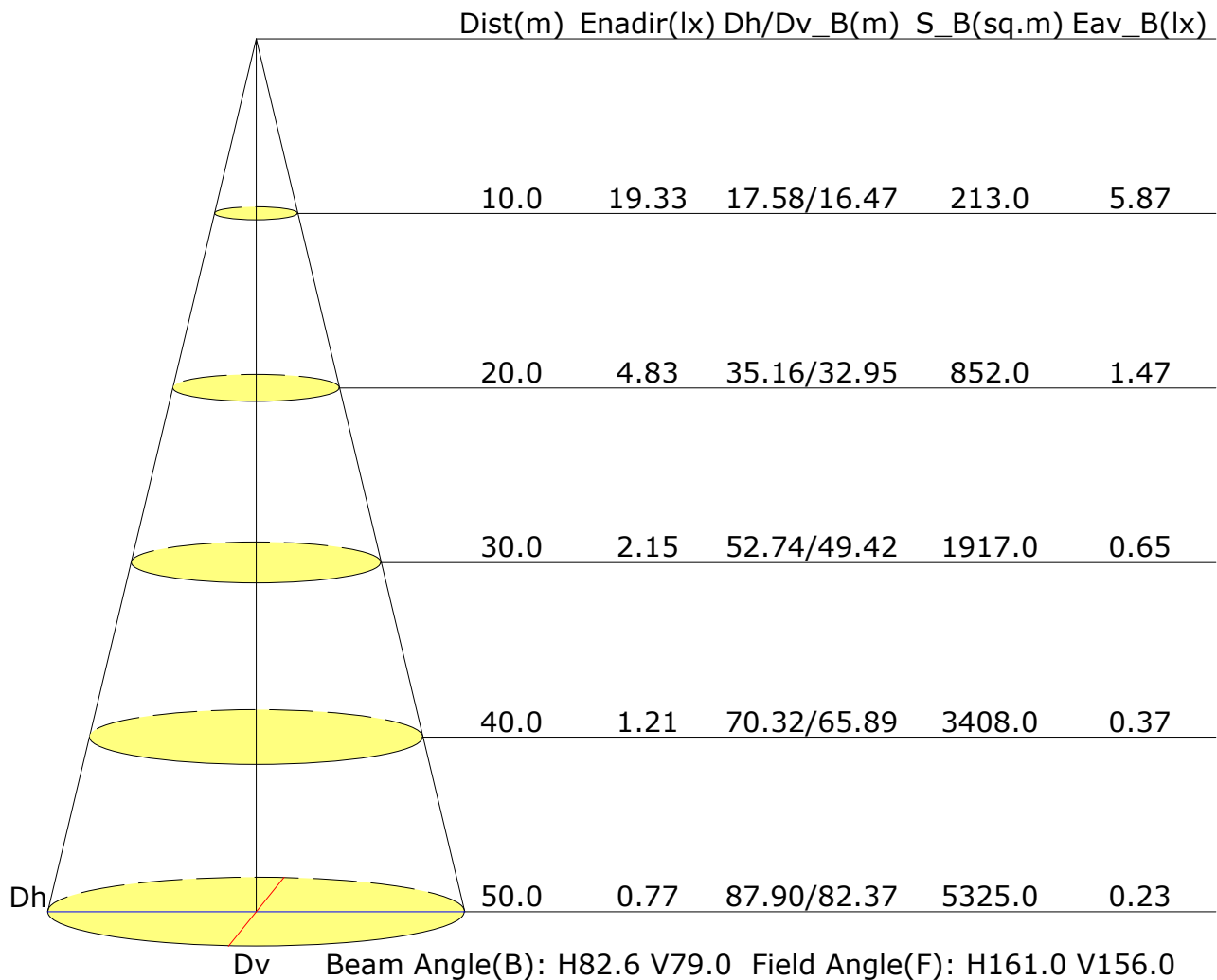


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	15316	11650	9619	9123	8812	8616	9222	8832	6451
C90	15605	13035	10968	9346	8763	8566	8292	8486	7544
C180	15289	11780	9715	9168	9017	8713	9239	8853	6593
C270	11984	10026	8421	7913	7923	7403	7327	6496	2977

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	19.7	20.9	20.0	21.2	21.4	19.5	20.8	19.8	21.0	21.3
3H	21.0	22.2	21.4	22.4	22.7	20.8	21.9	21.1	22.2	22.5
4H	21.8	22.9	22.2	23.2	23.5	21.5	22.5	21.8	22.8	23.1
6H	22.6	23.6	23.0	23.9	24.3	22.1	23.1	22.5	23.4	23.7
8H	22.9	23.9	23.3	24.2	24.5	22.3	23.3	22.7	23.6	24.0
12H	23.1	24.0	23.5	24.4	24.7	22.5	23.5	22.9	23.8	24.2
X=4H Y=2H	20.0	21.1	20.4	21.4	21.7	19.9	21.0	20.3	21.3	21.6
3H	21.6	22.6	22.0	22.9	23.3	21.4	22.4	21.8	22.7	23.1
4H	22.6	23.4	23.0	23.8	24.2	22.2	23.1	22.7	23.4	23.8
6H	23.6	24.3	24.0	24.7	25.1	23.0	23.8	23.5	24.2	24.6
8H	23.9	24.6	24.4	25.0	25.5	23.4	24.0	23.8	24.5	24.9
12H	24.2	24.8	24.7	25.3	25.7	23.6	24.2	24.1	24.7	25.1
X=8H Y=4H	22.9	23.5	23.3	23.9	24.4	22.5	23.2	23.0	23.6	24.0
6H	23.9	24.5	24.4	25.0	25.4	23.4	24.0	23.9	24.4	24.9
8H	24.4	24.9	24.9	25.4	25.9	23.9	24.4	24.4	24.8	25.3
12H	24.8	25.2	25.3	25.7	26.2	24.2	24.6	24.7	25.1	25.6
X=12H Y=4H	22.9	23.5	23.3	23.9	24.4	22.5	23.2	23.0	23.6	24.1
6H	24.0	24.5	24.5	25.0	25.5	23.5	24.0	24.0	24.5	25.0
8H	24.5	24.9	25.0	25.4	25.9	24.0	24.4	24.5	24.9	25.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.4				
S=1.5H	+0.5/-0.6					+0.3/-0.7				
S=2.0H	+0.9/-1.0					+0.7/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3844lm ($8\log(F/F_0) = 4.7$).

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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	1.01	1.04	
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.50	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	0.70	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	0.91	
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:28W 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	0.49	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	0.30	0.24	0.19	
	0.30		0.74	0.62	0.54	0.48	0.39	0.33	0.28	0.22	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	0.68	0.58	0.51	0.41	0.34	0.29	0.22	0.19	
	0.30		0.72	0.60	0.52	0.46	0.37	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	0.43	0.38	0.33	0.27	0.23	0.20	0.16	0.13	
Rating:28W 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	0.19	0.19	0.20	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	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	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	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:28W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												