

Report No.: 1

Test Time: 12.12.2019 11:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 8x18LED 0,3A 36W 5000K frozen(50)

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.4 V

Current: 0.167 A

Power: 36.27 W

Power Factor: 0.976

Photometric Results

CIE Class: Direct

Measurement Flux: 4679.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4679.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.7, 149.2, 149.2, 150.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 101.6, 99.3, 100.0, 100.4

Luminaire Efficacy Rating (LER): 129.07

Central Intensity: 1876.18 cd

Max. Intensity: 1904.74 cd

Pos of Max. Intensity: H337.5 V7

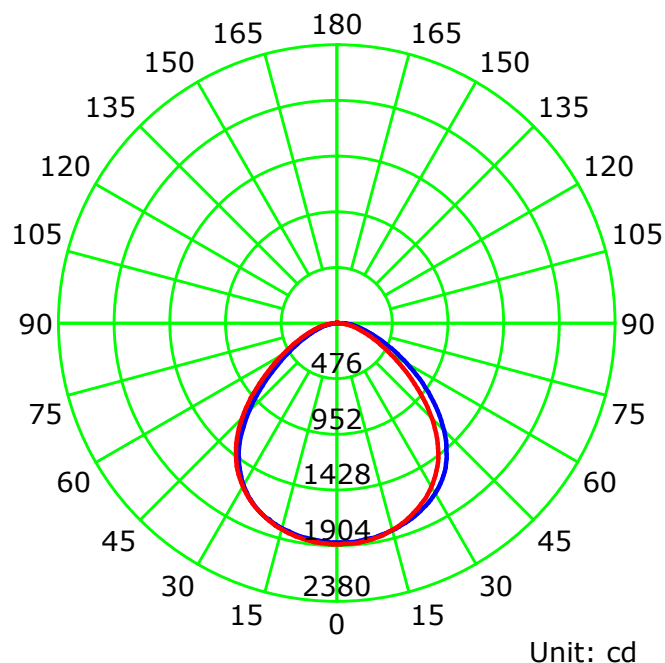
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.26

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

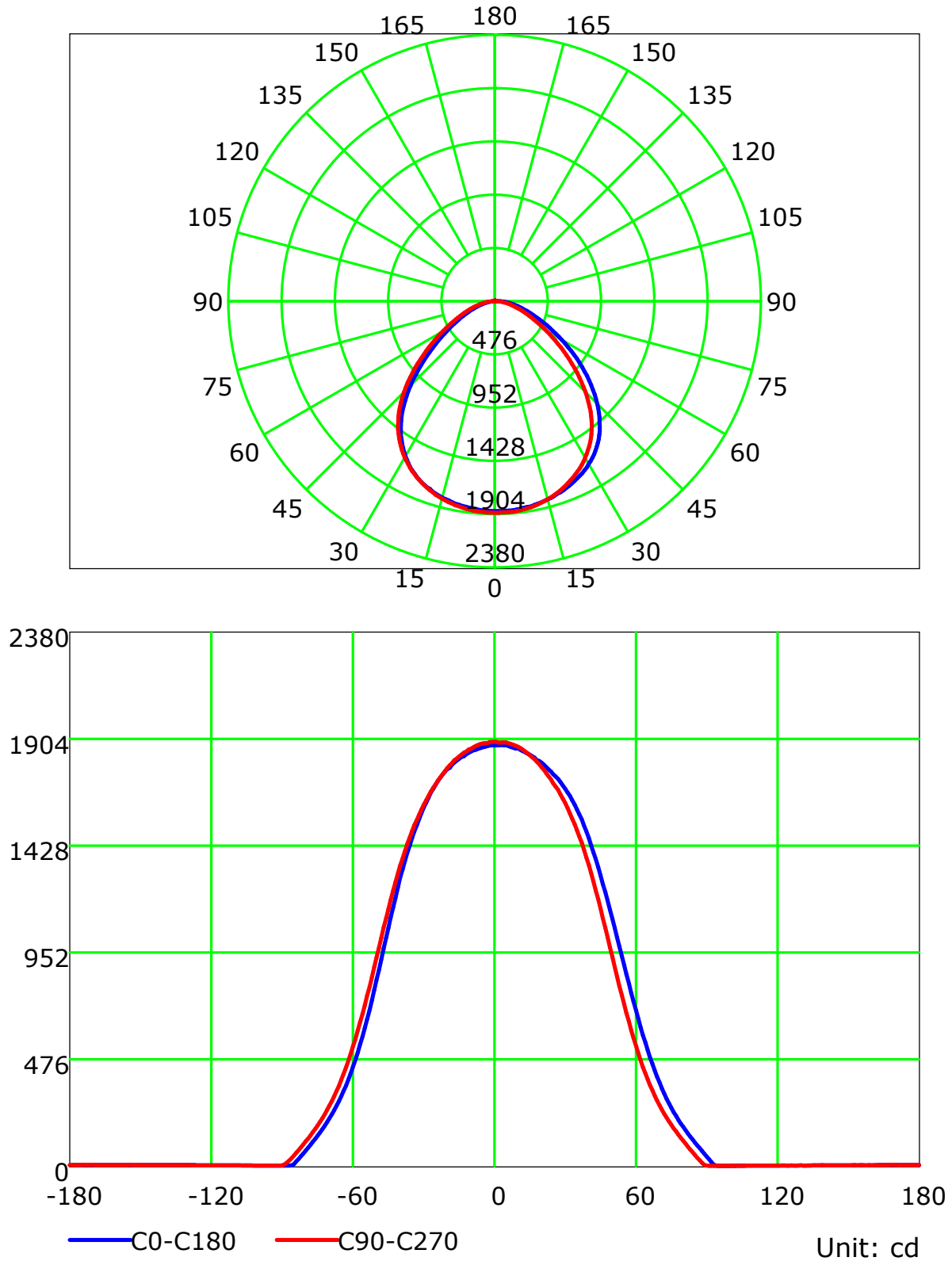
Test Device: LSG-1800B

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

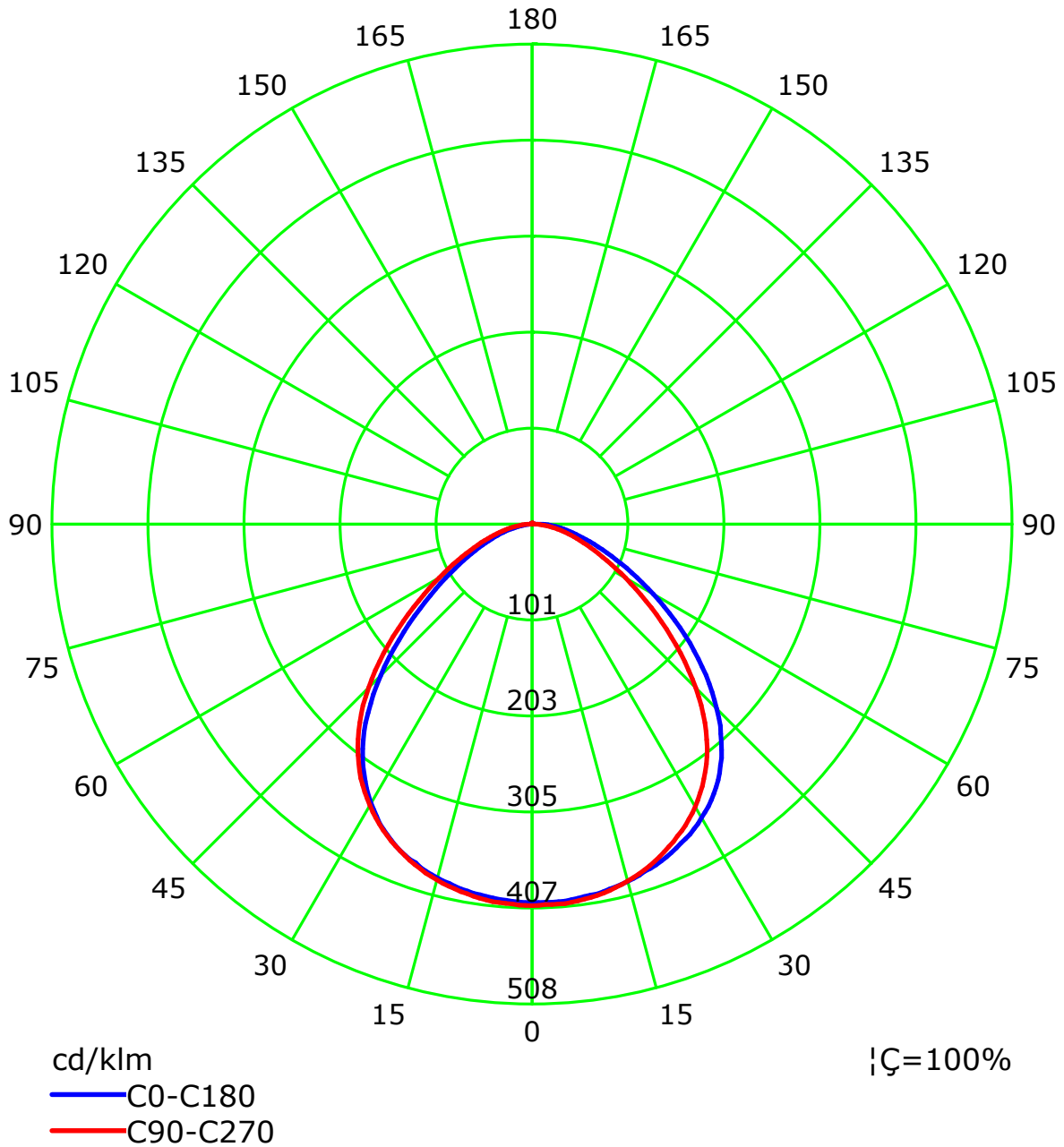
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



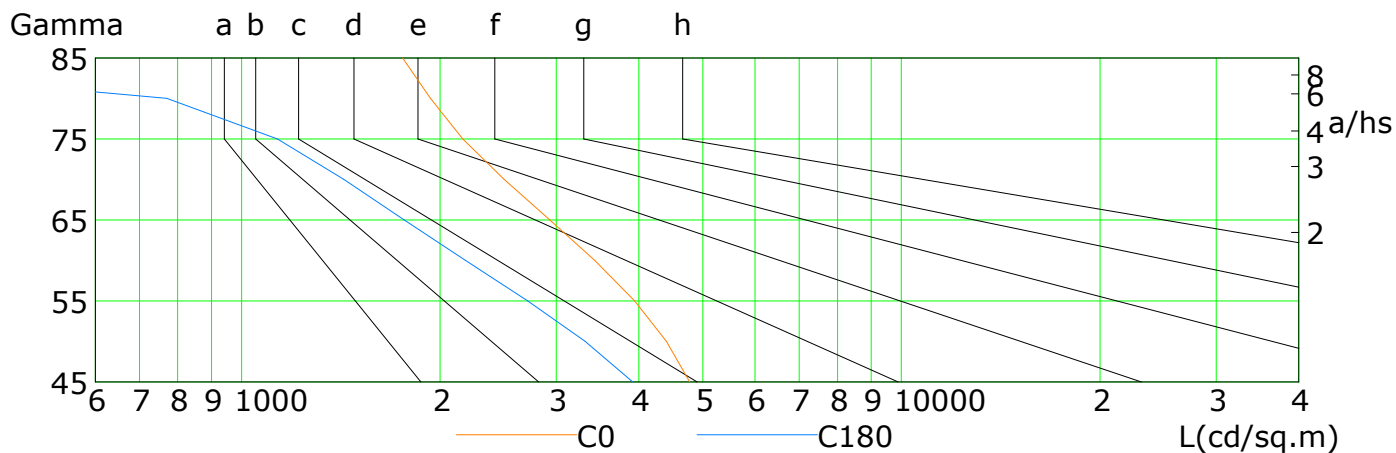
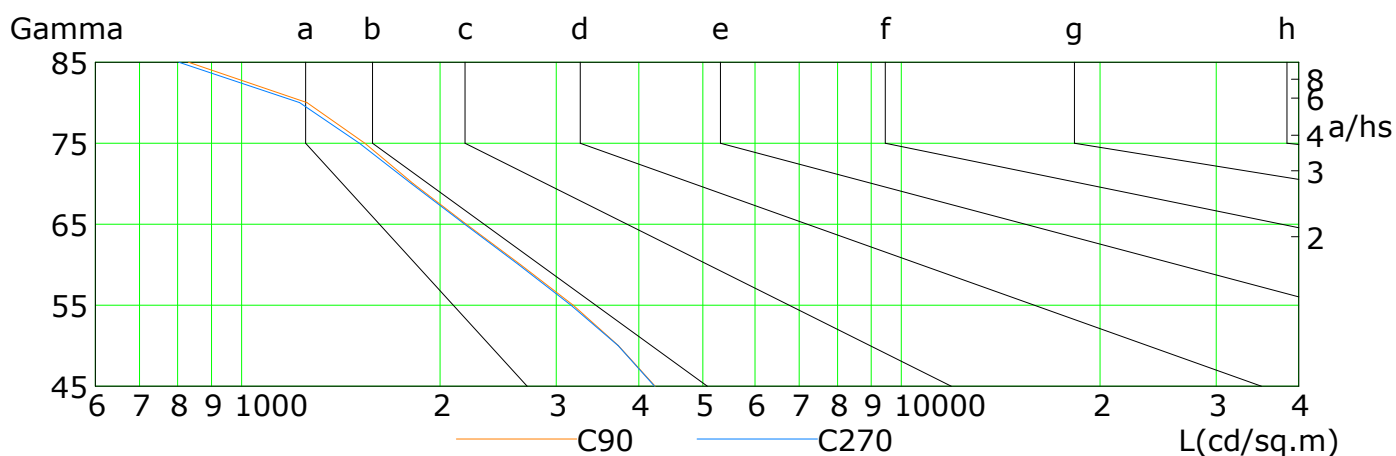
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

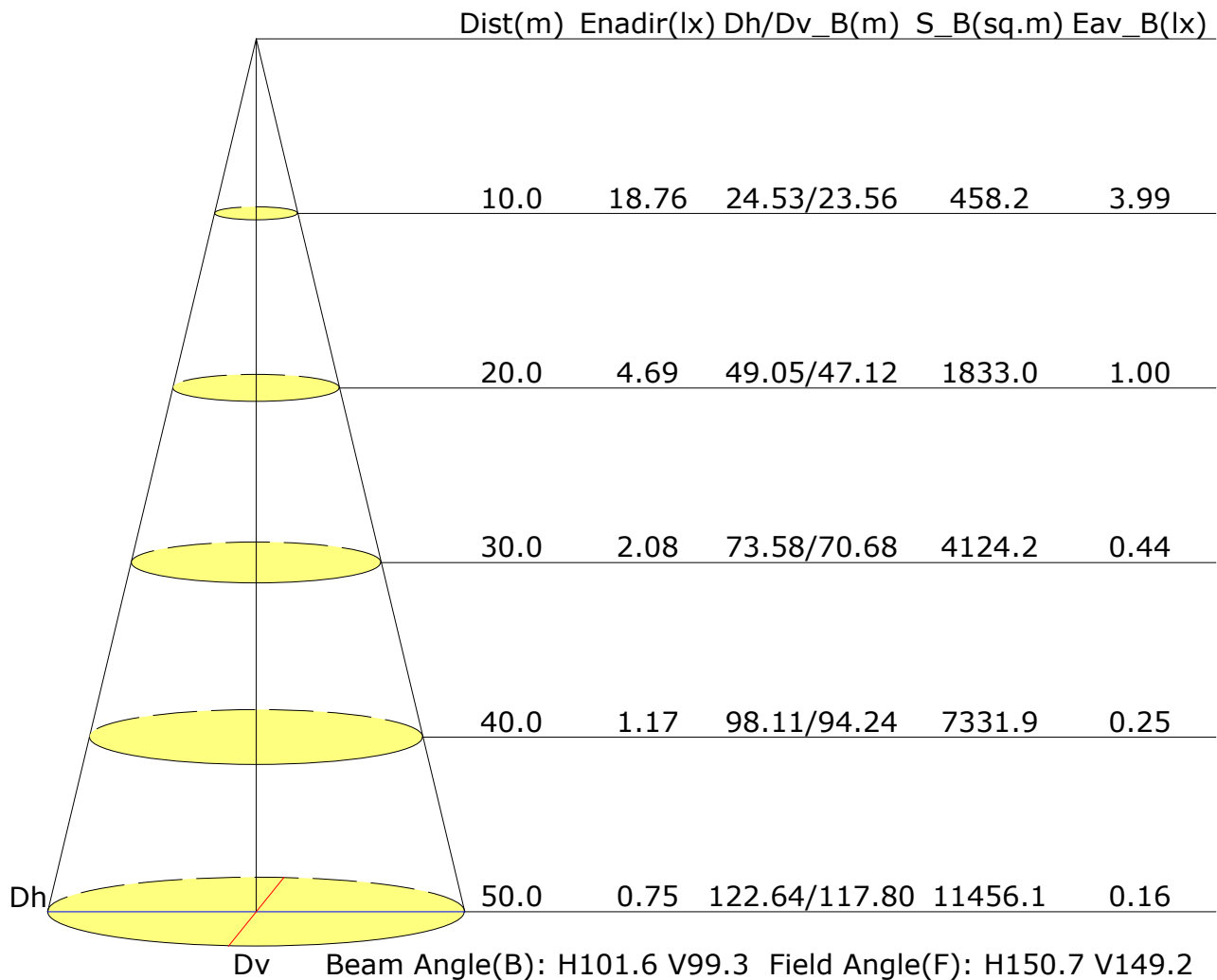


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4778	4401	3944	3428	2933	2498	2163	1933	1755
C90	4236	3726	3181	2647	2192	1821	1537	1255	831
C180	3917	3317	2715	2183	1764	1429	1133	770	166
C270	4224	3718	3156	2629	2179	1807	1509	1224	803

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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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	17.3	18.6	17.6	18.8	19.1	16.5	17.8	16.8	18.0	18.3
3H	18.3	19.4	18.6	19.7	20.0	17.2	18.4	17.6	18.7	19.0
4H	18.7	19.8	19.0	20.1	20.4	17.5	18.6	17.9	18.9	19.2
6H	19.0	20.0	19.3	20.3	20.6	17.7	18.7	18.1	19.0	19.4
8H	19.1	20.1	19.5	20.4	20.8	17.8	18.8	18.1	19.1	19.4
12H	19.2	20.2	19.6	20.5	20.8	17.8	18.7	18.2	19.1	19.4
X=4H Y=2H	17.6	18.7	18.0	19.0	19.3	17.0	18.1	17.3	18.4	18.7
3H	18.8	19.7	19.2	20.1	20.4	17.9	18.8	18.3	19.2	19.5
4H	19.3	20.1	19.7	20.5	20.9	18.3	19.1	18.7	19.5	19.9
6H	19.7	20.5	20.2	20.9	21.3	18.6	19.3	19.0	19.7	20.1
8H	19.9	20.6	20.4	21.0	21.4	18.7	19.4	19.1	19.8	20.2
12H	20.1	20.7	20.6	21.1	21.6	18.7	19.4	19.2	19.8	20.2
X=8H Y=4H	19.4	20.1	19.9	20.5	20.9	18.5	19.2	18.9	19.6	20.0
6H	20.0	20.5	20.5	21.0	21.5	18.9	19.5	19.4	19.9	20.4
8H	20.3	20.7	20.7	21.2	21.7	19.1	19.6	19.6	20.0	20.5
12H	20.5	20.9	21.0	21.4	21.9	19.2	19.6	19.7	20.1	20.6
X=12H Y=4H	19.4	20.0	19.9	20.5	20.9	18.5	19.1	19.0	19.5	20.0
6H	20.0	20.5	20.5	21.0	21.5	19.0	19.5	19.5	19.9	20.4
8H	20.3	20.7	20.8	21.2	21.7	19.2	19.6	19.7	20.1	20.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.4				
S=1.5H	+0.5/-0.8					+0.6/-1.1				
S=2.0H	+1.0/-1.4					+1.1/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 4680lm ($8\log(F/F_0) = 5.4$).

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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 = 1.25									
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	0.62	0.72	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.30		0.54	0.65	0.72	0.78	0.85	0.90	0.94	0.99	1.02	
	0.20		0.49	0.60	0.67	0.73	0.80	0.86	0.90	0.95	0.99	
0.50	0.50	0.20	0.60	0.70	0.76	0.81	0.87	0.92	0.94	0.98	1.01	
	0.30		0.53	0.64	0.71	0.76	0.83	0.87	0.91	0.95	0.98	
	0.20		0.49	0.59	0.66	0.71	0.79	0.84	0.88	0.93	0.96	
0.30	0.50	0.20	0.59	0.68	0.74	0.79	0.85	0.88	0.91	0.95	0.97	
	0.30		0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.20		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.46	0.56	0.63	0.67	0.74	0.78	0.81	0.85	0.88	
Rating:36W 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	0.92	0.75	0.63	0.55	0.43	0.36	0.31	0.24	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.43	0.36	0.30	0.26	0.21	0.17	
0.50	0.50	0.20	0.89	0.72	0.60	0.52	0.41	0.38	0.29	0.22	0.18	
	0.30		0.75	0.62	0.53	0.47	0.38	0.31	0.27	0.21	0.17	
	0.20		0.65	0.55	0.48	0.42	0.35	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.86	0.69	0.58	0.50	0.39	0.32	0.28	0.21	0.17	
	0.30		0.73	0.61	0.52	0.45	0.36	0.30	0.26	0.20	0.17	
	0.20		0.64	0.54	0.47	0.41	0.34	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.53	0.44	0.37	0.32	0.26	0.21	0.18	0.14	0.12	
Rating:36W 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	0.17	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	0.16	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	0.08	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	0.18	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	0.11	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:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												