

Report No.: 1

Test Time: 29.10.2019 23:19

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x18LED 0,3A 36W 3000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.1 V

Current: 0.169 A

Power: 36.41 W

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Measurement Flux: 4122.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4122.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.2, 159.5, 151.8, 153.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.3, 79.8, 77.5, 77.7

Luminaire Efficacy Rating (LER): 113.28

Central Intensity: 2034.91 cd

Max. Intensity: 2034.92 cd

Pos of Max. Intensity: H0 V0

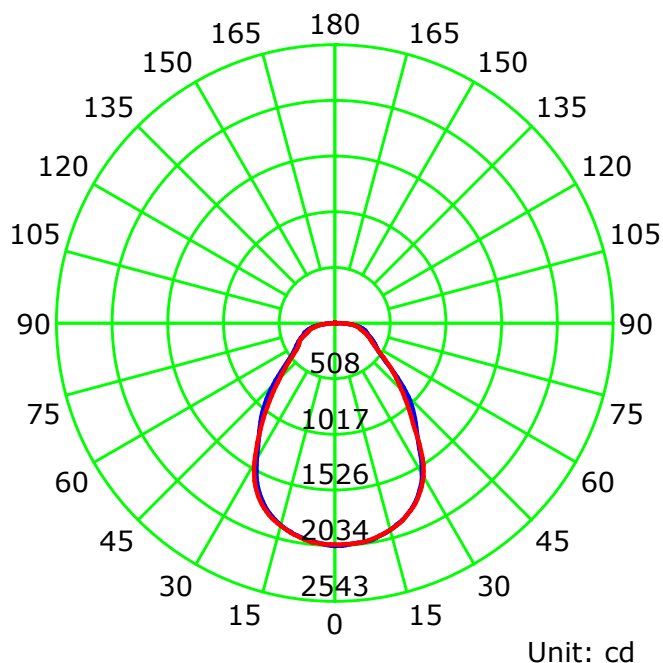
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.15

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

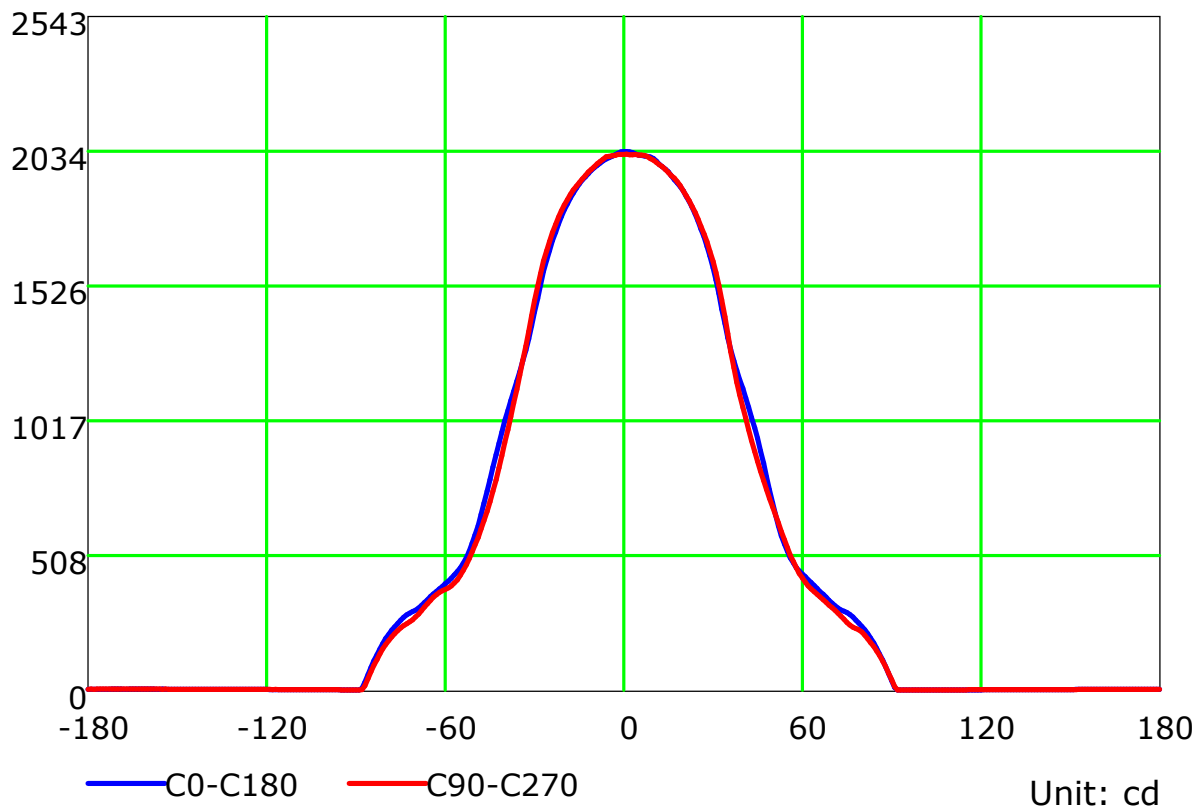
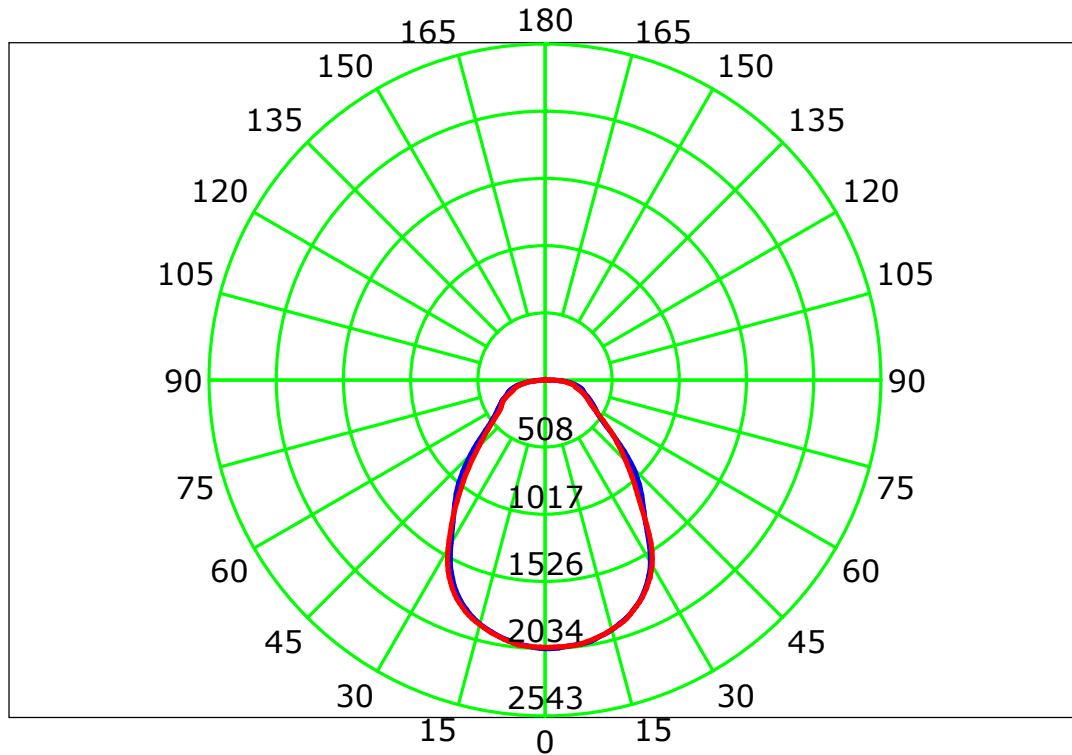
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

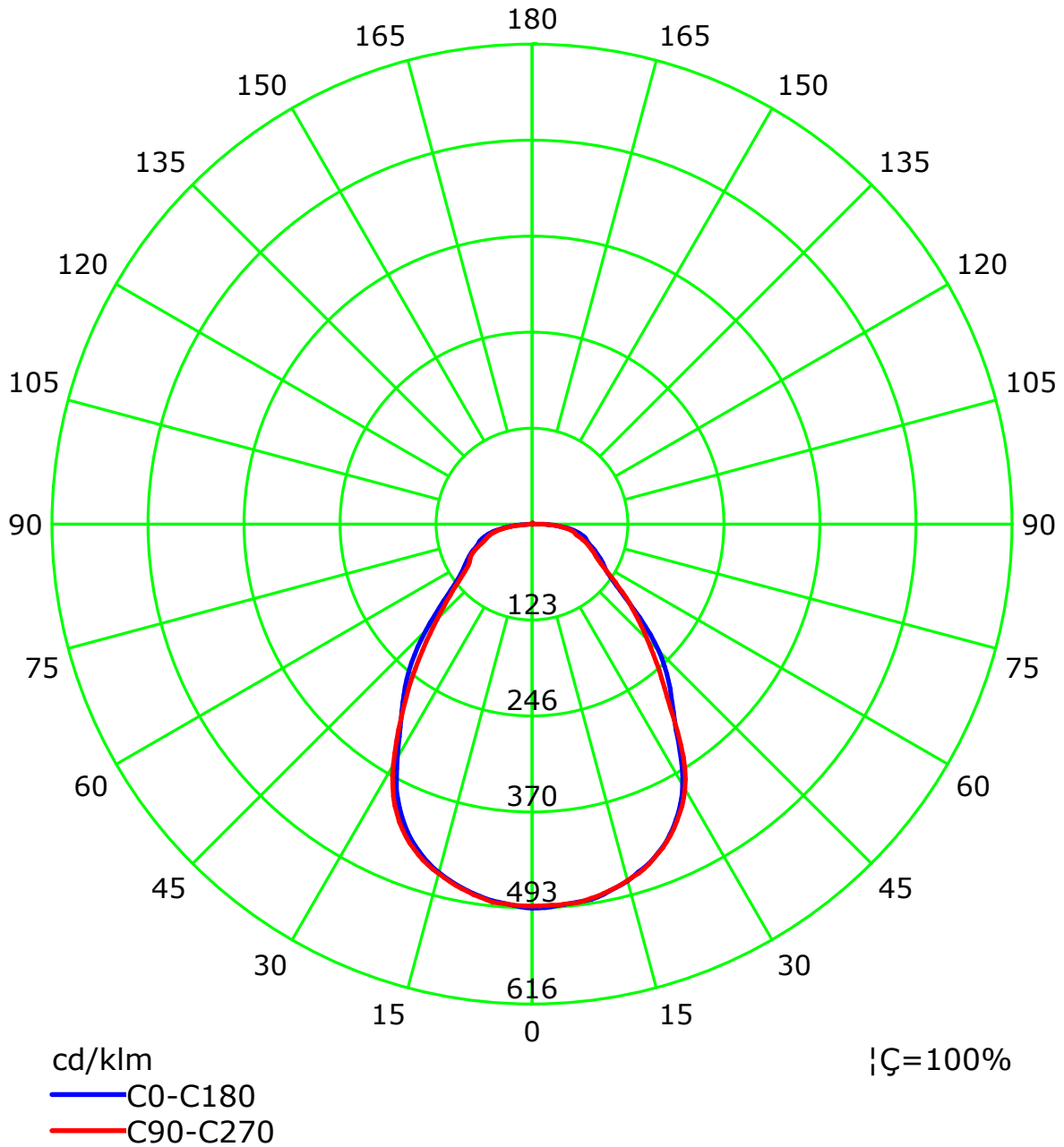
Luminous Intensity Distribution Curve



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

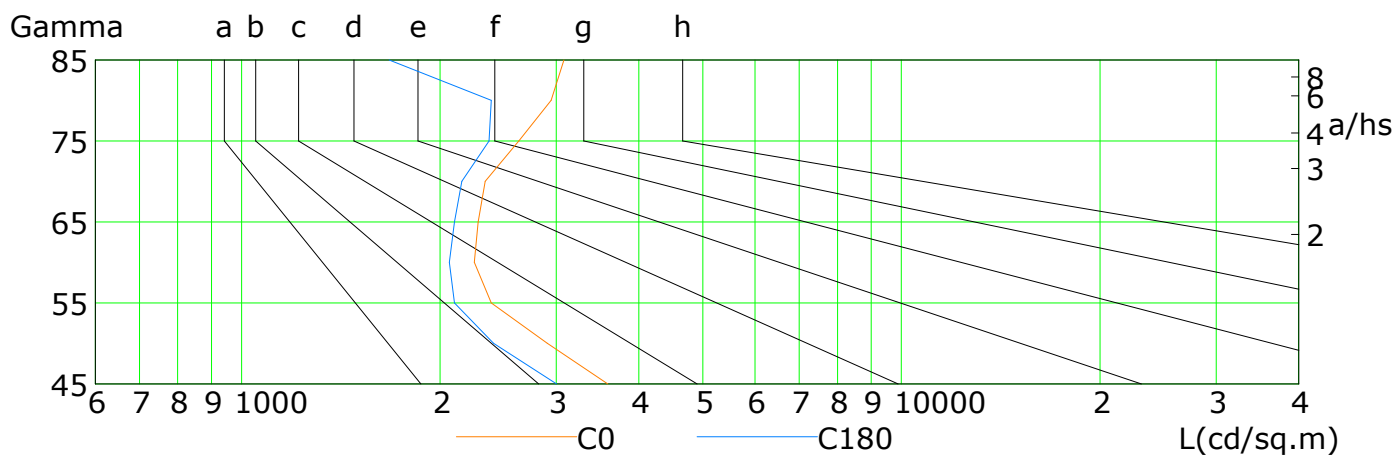
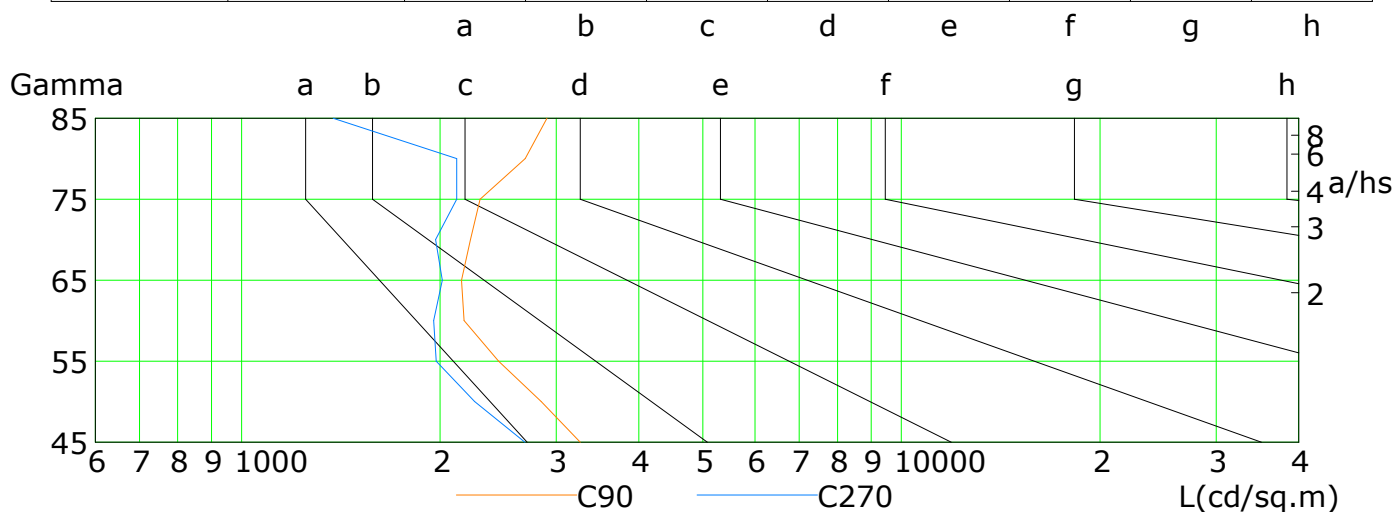
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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

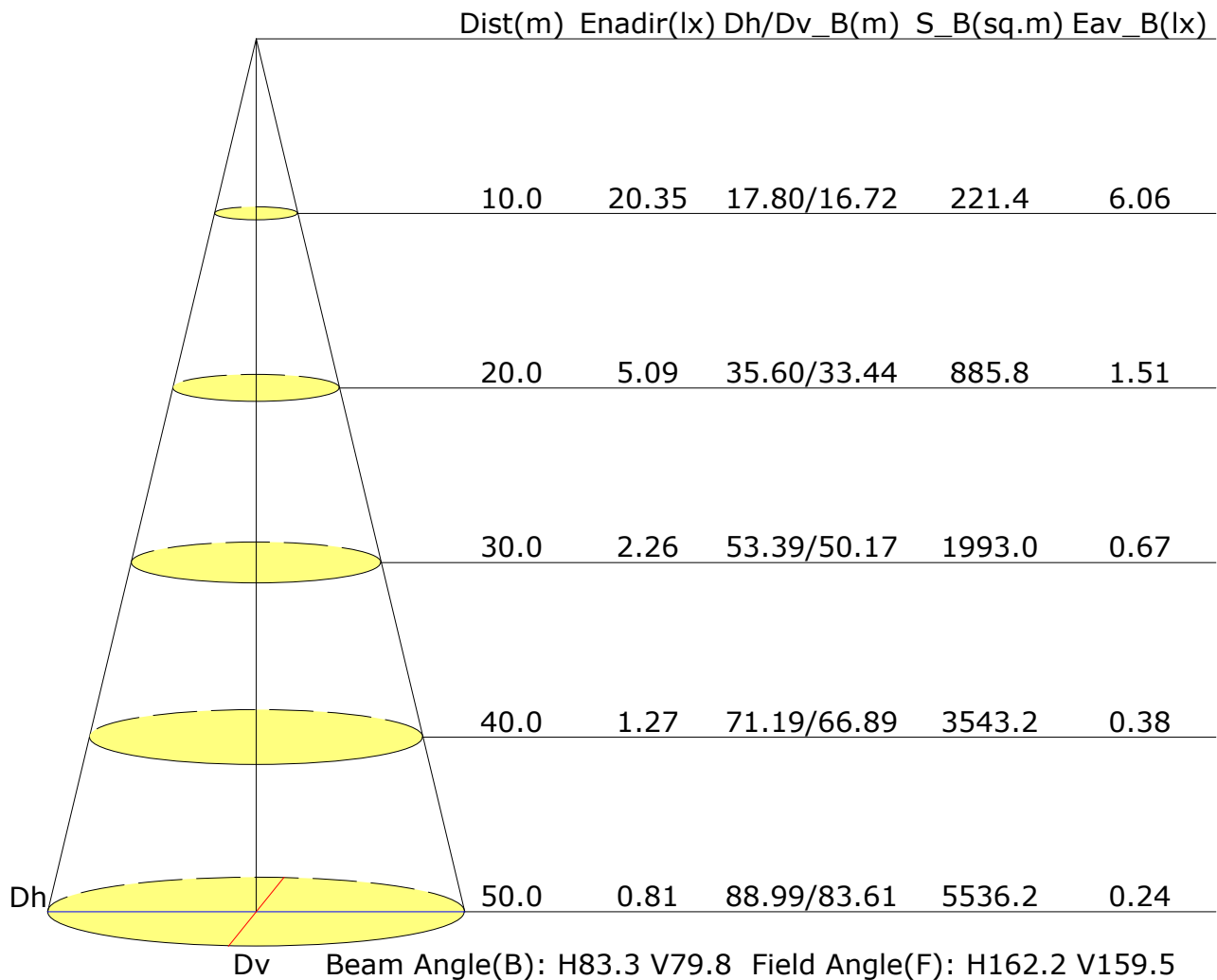


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3588	2905	2389	2252	2284	2340	2631	2945	3081
C90	3260	2845	2453	2175	2153	2223	2298	2690	2903
C180	3003	2409	2102	2064	2102	2156	2371	2390	1673
C270	2687	2255	1973	1954	2016	1968	2119	2117	1376

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 Temperature:
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Gamma Plane (°):0.0-180.0:1.0
 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	15.1	16.3	15.4	16.6	16.8	14.7	15.9	15.0	16.2	16.4
3H	16.6	17.8	16.9	18.0	18.3	16.1	17.3	16.5	17.6	17.8
4H	17.5	18.6	17.8	18.9	19.2	16.9	18.0	17.3	18.3	18.6
6H	18.5	19.5	18.8	19.8	20.1	17.7	18.7	18.1	19.0	19.4
8H	18.9	19.9	19.3	20.2	20.6	18.1	19.0	18.4	19.4	19.7
12H	19.3	20.2	19.7	20.6	20.9	18.3	19.3	18.7	19.6	20.0
X=4H Y=2H	15.5	16.6	15.9	16.9	17.2	15.2	16.3	15.5	16.6	16.9
3H	17.3	18.3	17.7	18.6	18.9	16.9	17.9	17.3	18.2	18.6
4H	18.4	19.2	18.8	19.6	20.0	17.9	18.7	18.3	19.1	19.5
6H	19.6	20.3	20.0	20.7	21.1	18.8	19.6	19.2	20.0	20.4
8H	20.1	20.8	20.5	21.2	21.6	19.3	20.0	19.7	20.4	20.8
12H	20.6	21.2	21.0	21.6	22.1	19.6	20.2	20.1	20.7	21.1
X=8H Y=4H	18.7	19.4	19.1	19.8	20.2	18.2	18.9	18.7	19.3	19.8
6H	20.0	20.6	20.5	21.1	21.5	19.4	19.9	19.8	20.4	20.8
8H	20.7	21.2	21.2	21.7	22.2	19.9	20.4	20.4	20.9	21.4
12H	21.3	21.8	21.8	22.2	22.8	20.4	20.8	20.9	21.3	21.8
X=12H Y=4H	18.7	19.4	19.2	19.8	20.2	18.3	18.9	18.7	19.3	19.8
6H	20.1	20.6	20.6	21.1	21.6	19.5	20.0	20.0	20.4	20.9
8H	20.8	21.3	21.3	21.8	22.3	20.1	20.5	20.6	21.0	21.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.3/-0.7					+0.4/-0.7				
S=2.0H	+0.6/-0.9					+0.4/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4123lm ($8\log(F/F_0) = 4.9$).

C Plane (°):0.0-360.0: 22.5
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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 = 1.00									
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	0.62	0.72	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.30		0.55	0.64	0.71	0.76	0.84	0.89	0.92	0.97	1.01	
	0.20		0.50	0.59	0.66	0.71	0.79	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.61	0.69	0.76	0.80	0.86	0.90	0.93	0.97	1.00	
	0.30		0.54	0.63	0.70	0.74	0.81	0.86	0.89	0.94	0.97	
	0.20		0.49	0.58	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.59	0.68	0.73	0.77	0.83	0.87	0.90	0.93	0.96	
	0.30		0.53	0.62	0.68	0.73	0.79	0.84	0.87	0.91	0.93	
	0.20		0.49	0.58	0.64	0.69	0.76	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.55	0.61	0.66	0.72	0.76	0.80	0.84	0.87	
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 = 1.00									
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	0.92	0.76	0.65	0.57	0.46	0.38	0.33	0.26	0.21	
	0.30		0.76	0.65	0.57	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.66	0.57	0.50	0.45	0.38	0.32	0.28	0.23	0.19	
0.50	0.50	0.20	0.88	0.73	0.62	0.54	0.43	0.40	0.31	0.24	0.20	
	0.30		0.75	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.86	0.70	0.59	0.52	0.41	0.34	0.30	0.23	0.19	
	0.30		0.73	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.36	0.30	0.26	0.21	0.18	
0.00	0.00	0.00	0.53	0.45	0.39	0.34	0.28	0.23	0.20	0.16	0.13	
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 = 1.00									
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	0.11	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	0.13	0.15	0.16	0.17	
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	0.19	0.19	0.20	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	0.09	0.11	0.13	0.14	0.15	0.16	
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												