

Report No.: 1

Test Time: 13.11.2019 20:30

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 1500 2x60LED 0,39A 40W 4000K microprisma ID

Luminous Length (mm): 1500

Luminous Width (mm): 115

Luminous Height (mm): 94

Voltage: 221.3 V

Current: 0.162 A

Power: 35.52 W

Power Factor: 0.989

Photometric Results

CIE Class: Direct

Measurement Flux: 3794.5 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 3794.5 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.3, 155.1, 148.4, 147.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.4, 71.3, 74.2, 74.1

Luminaire Efficacy Rating (LER): 106.88

Central Intensity: 2057.91 cd

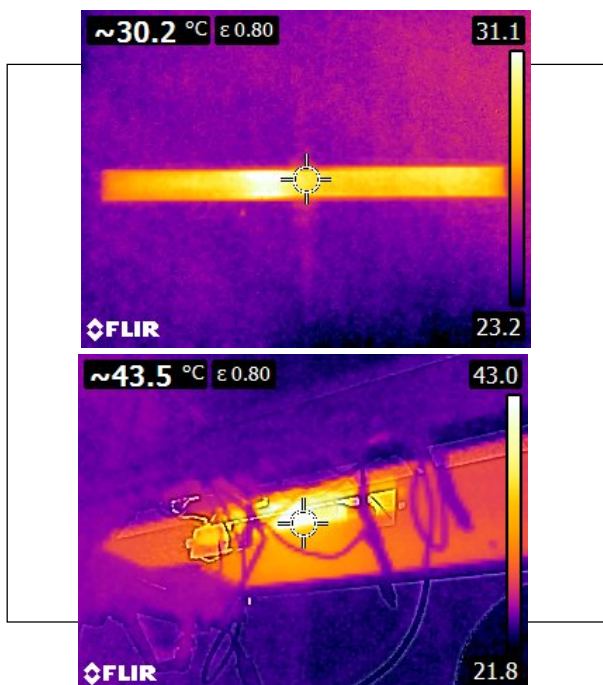
Max. Intensity: 2063.36 cd

Pos of Max. Intensity: H292.5 V1

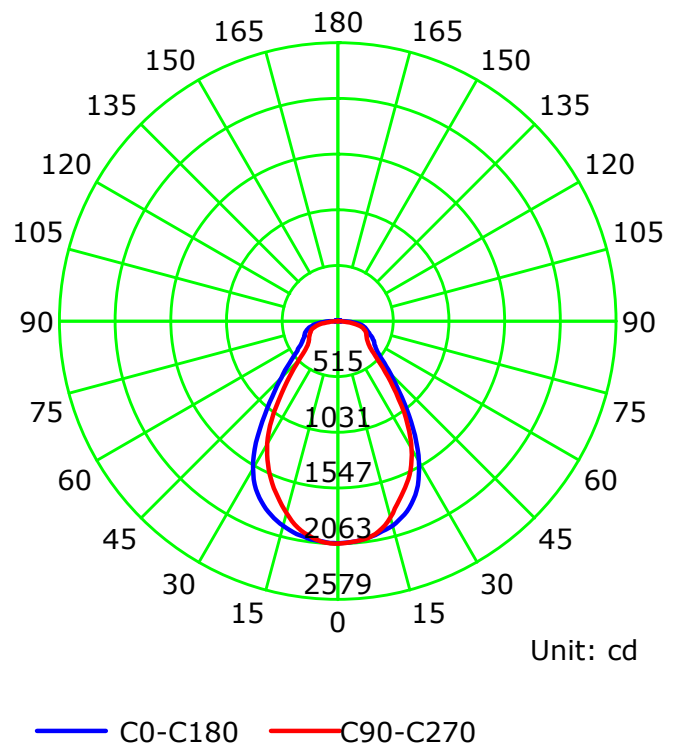
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.03

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

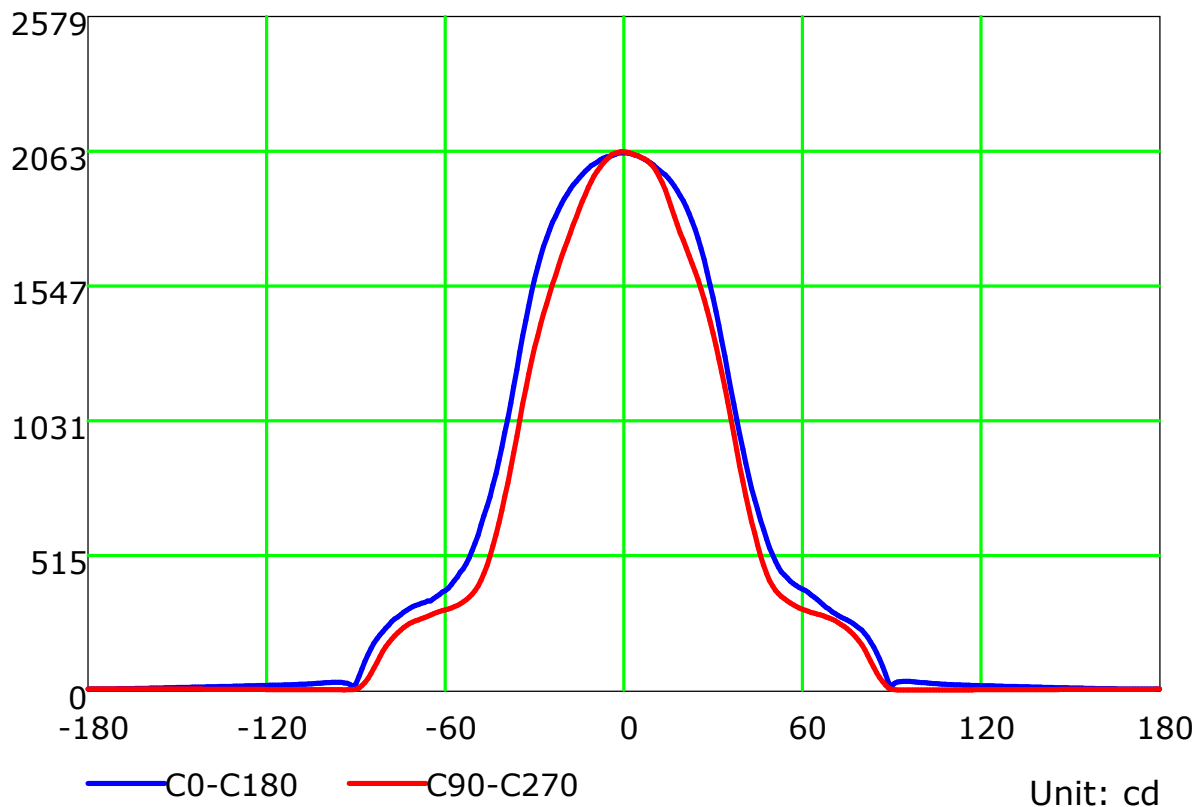
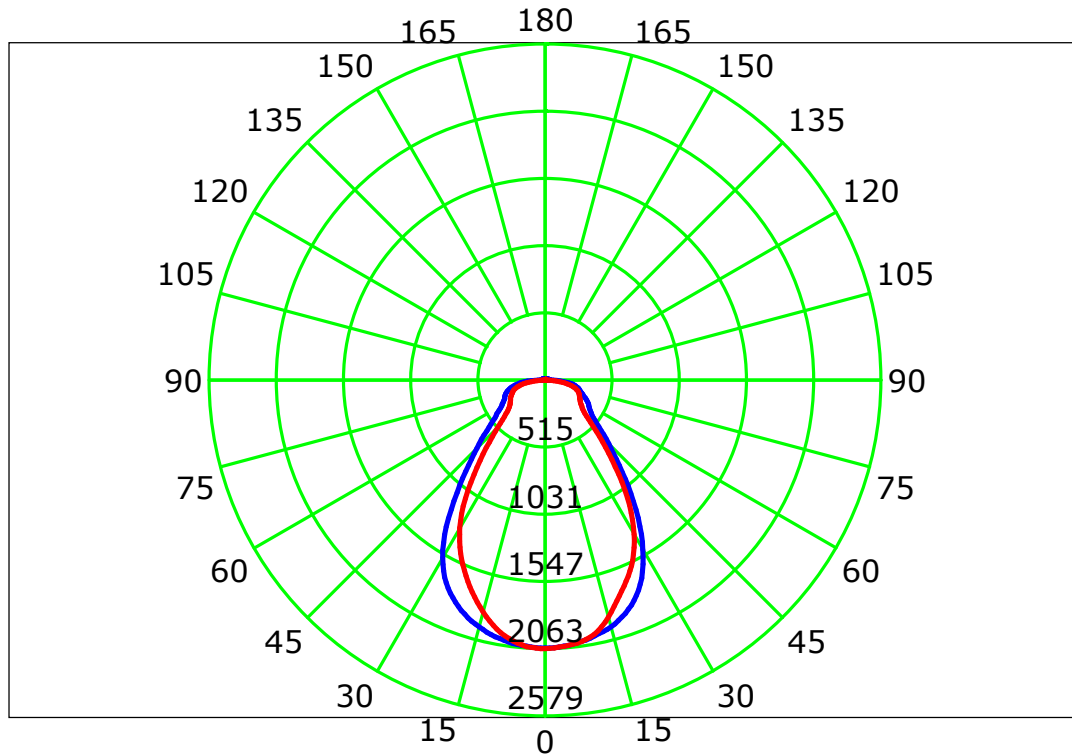
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

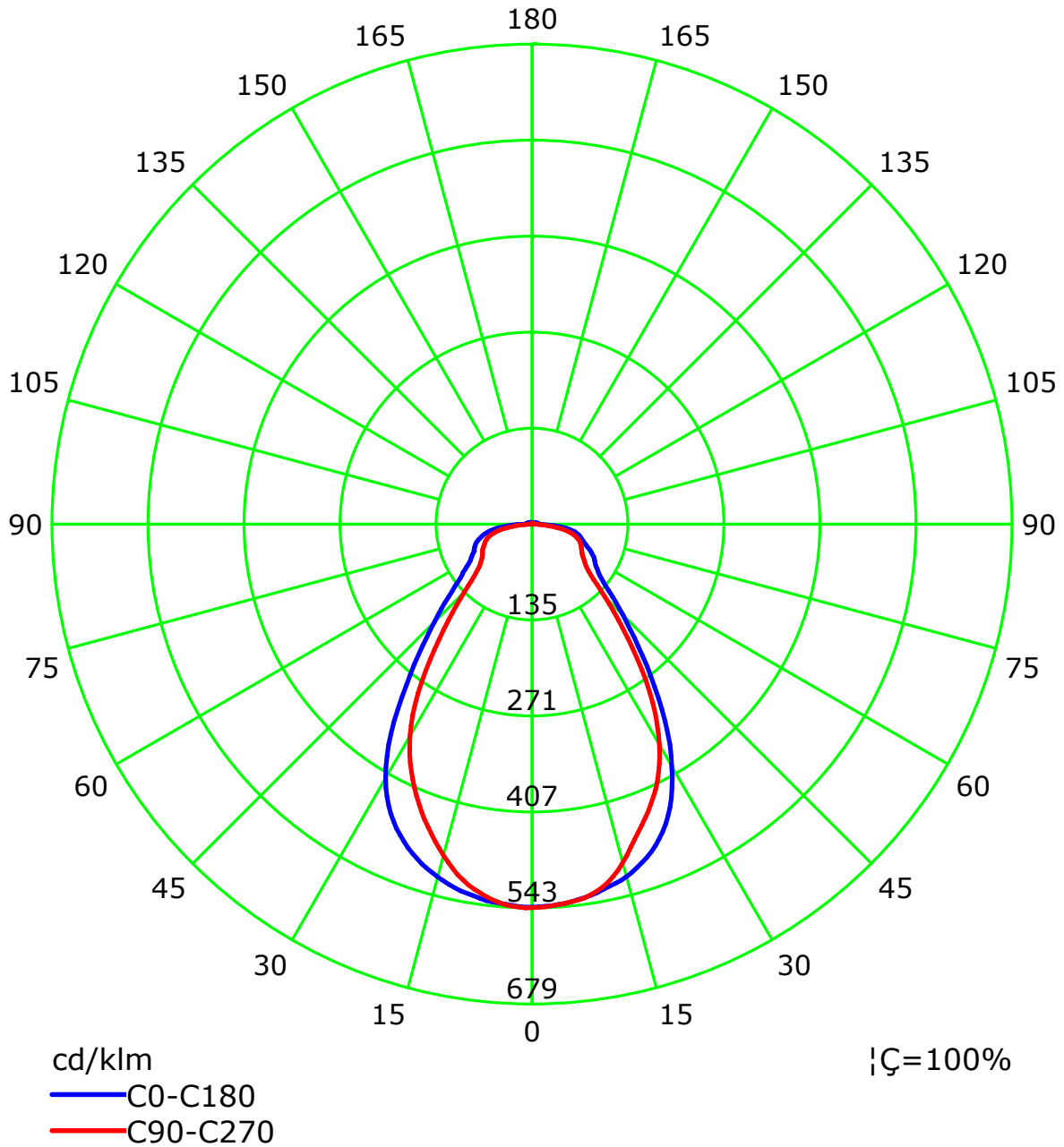
Luminous Intensity Distribution Curve



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)



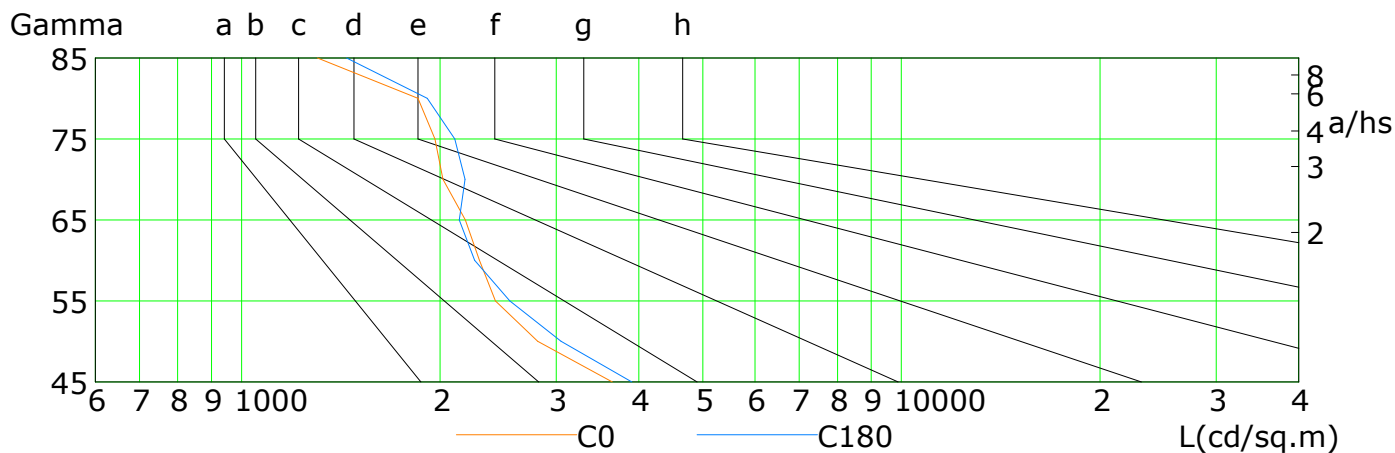
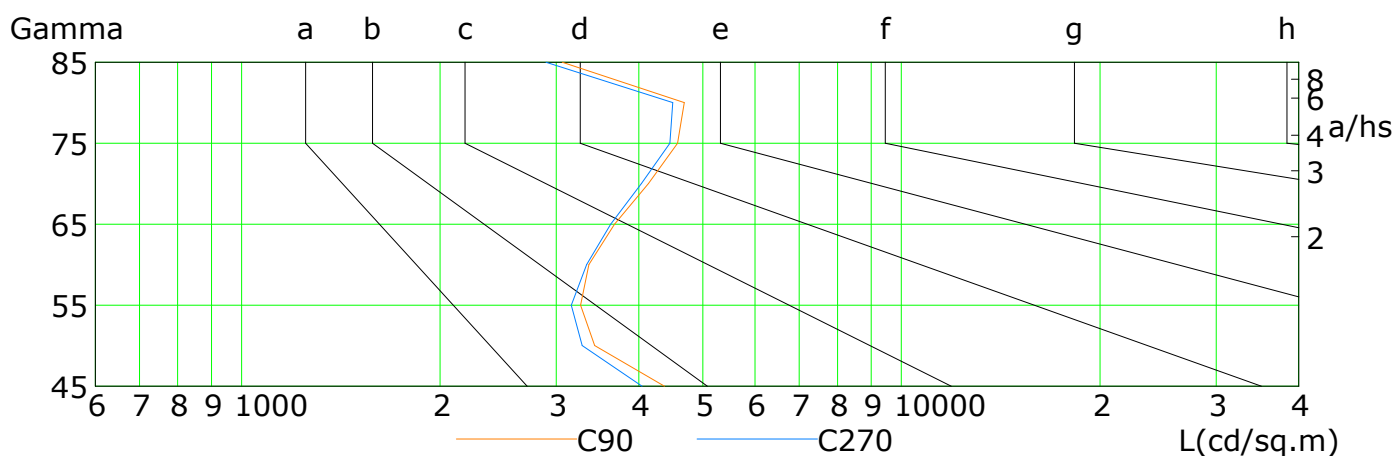
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

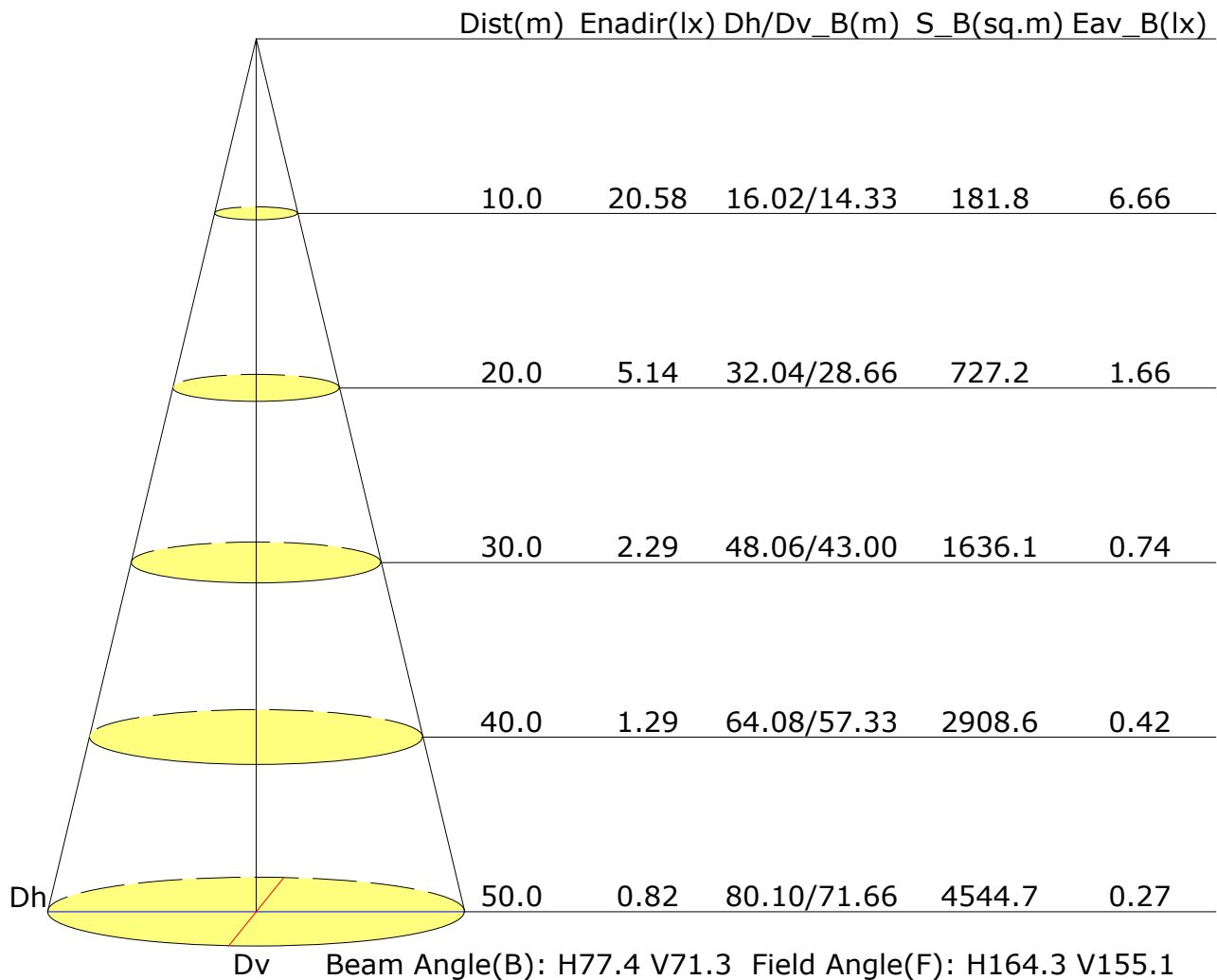


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3648	2811	2425	2292	2183	2020	1963	1851	1303
C90	4376	3428	3264	3359	3676	4137	4578	4685	3062
C180	3904	3050	2551	2256	2139	2180	2106	1912	1443
C270	4044	3281	3159	3333	3626	4036	4460	4504	2892

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

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	15.2	16.4	15.5	16.7	16.9	15.1	16.3	15.4	16.6	16.8
3H	16.5	17.7	16.9	17.9	18.3	16.9	18.0	17.2	18.3	18.6
4H	17.3	18.3	17.6	18.6	19.0	17.9	19.0	18.3	19.3	19.6
6H	18.0	18.9	18.3	19.3	19.6	18.9	19.8	19.2	20.2	20.5
8H	18.2	19.2	18.6	19.5	19.9	19.2	20.1	19.6	20.5	20.8
12H	18.4	19.4	18.8	19.7	20.1	19.3	20.3	19.7	20.6	21.0
X=4H Y=2H	15.6	16.6	15.9	16.9	17.3	15.5	16.5	15.9	16.9	17.2
3H	17.2	18.1	17.6	18.5	18.8	17.5	18.4	17.9	18.7	19.1
4H	18.1	18.9	18.5	19.3	19.7	18.6	19.5	19.1	19.8	20.3
6H	18.9	19.7	19.4	20.1	20.5	19.7	20.4	20.2	20.9	21.3
8H	19.3	20.0	19.8	20.4	20.9	20.1	20.8	20.6	21.2	21.7
12H	19.5	20.2	20.0	20.6	21.1	20.3	20.9	20.8	21.4	21.8
X=8H Y=4H	18.3	19.0	18.8	19.4	19.9	18.8	19.5	19.3	19.9	20.4
6H	19.3	19.9	19.8	20.3	20.8	20.0	20.6	20.5	21.0	21.5
8H	19.8	20.2	20.3	20.7	21.2	20.5	21.0	21.0	21.4	22.0
12H	20.1	20.5	20.6	21.0	21.5	20.7	21.1	21.2	21.6	22.2
X=12H Y=4H	18.4	19.0	18.8	19.4	19.9	18.9	19.5	19.3	19.9	20.4
6H	19.4	19.9	19.9	20.3	20.9	20.1	20.5	20.6	21.0	21.5
8H	19.8	20.3	20.4	20.8	21.3	20.5	20.9	21.0	21.4	22.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.5/-0.6					+0.5/-0.5				
S=2.0H	+0.9/-1.0					+0.9/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3794lm ($8\log(F/F_0) = 4.6$).

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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	1.01	1.04	
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.92	0.97	1.01	
	0.20		0.51	0.60	0.67	0.72	0.79	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.62	0.70	0.76	0.80	0.86	0.90	0.93	0.97	0.99	
	0.30		0.55	0.64	0.70	0.75	0.81	0.86	0.89	0.94	0.97	
	0.20		0.51	0.59	0.66	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.83	0.87	0.89	0.93	0.95	
	0.30		0.55	0.63	0.69	0.73	0.79	0.83	0.86	0.90	0.93	
	0.20		0.50	0.59	0.65	0.69	0.76	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.48	0.56	0.62	0.66	0.72	0.76	0.79	0.83	0.86	
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	0.89	0.74	0.63	0.55	0.45	0.37	0.32	0.25	0.21	
	0.30		0.74	0.63	0.55	0.49	0.40	0.34	0.30	0.24	0.20	
	0.20		0.64	0.55	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.85	0.71	0.60	0.53	0.42	0.39	0.30	0.24	0.19	
	0.30		0.72	0.61	0.53	0.47	0.39	0.33	0.28	0.22	0.19	
	0.20		0.63	0.54	0.48	0.43	0.36	0.30	0.27	0.21	0.18	
0.30	0.50	0.20	0.83	0.67	0.58	0.50	0.40	0.33	0.29	0.22	0.18	
	0.30		0.70	0.59	0.52	0.46	0.37	0.31	0.27	0.21	0.18	
	0.20		0.62	0.53	0.47	0.42	0.35	0.29	0.26	0.20	0.17	
0.00	0.00	0.00	0.51	0.42	0.37	0.33	0.27	0.22	0.19	0.15	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	0.17	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.16	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												