

Report No.: 1

Test Time: 13.11.2019 21:05

Luminaire Property

Luminaire Manufacturer: FAROS

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

Luminous Length (mm): 1500

Luminous Width (mm): 115

Luminous Height (mm): 94

Voltage: 221.4 V

Current: 0.162 A

Power: 35.52 W

Power Factor: 0.989

Photometric Results

CIE Class: Direct

Measurement Flux: 3011.2 lm

Downward Ratio: 97%

Total Rated Lamp Lumens: 3011.2 lm

Efficiency: 100%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 172.1, 164.0, 167.3, 166.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.7, 113.7, 118.1, 117.5

Luminaire Efficacy Rating (LER): 84.83

Central Intensity: 954.18 cd

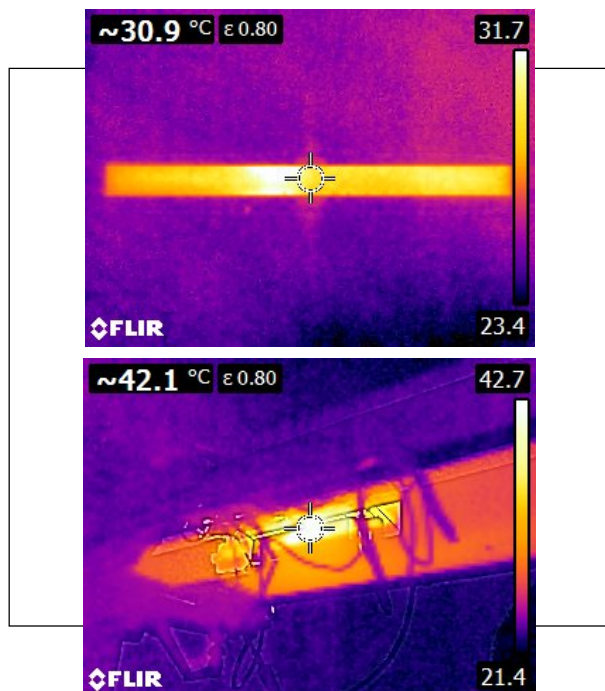
Max. Intensity: 956.45 cd

Pos of Max. Intensity: H157.5 V1

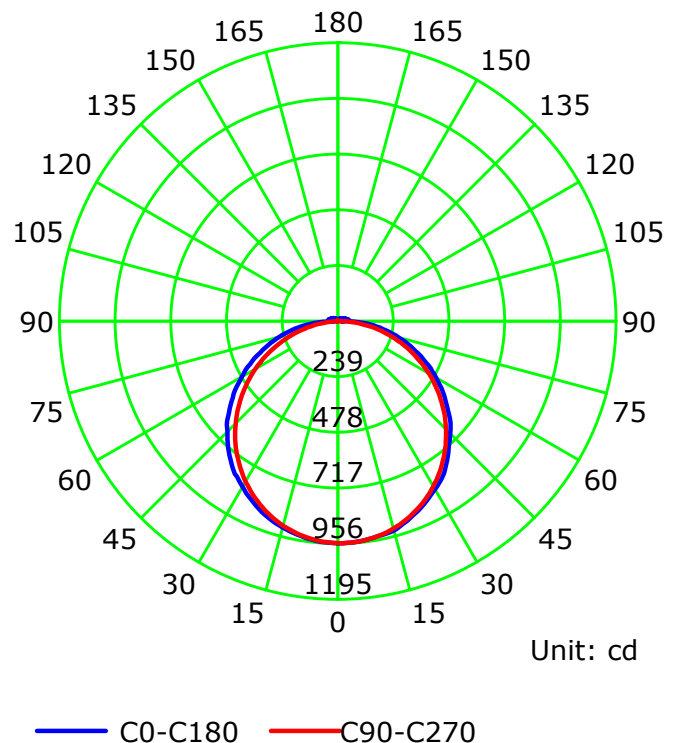
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.26

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

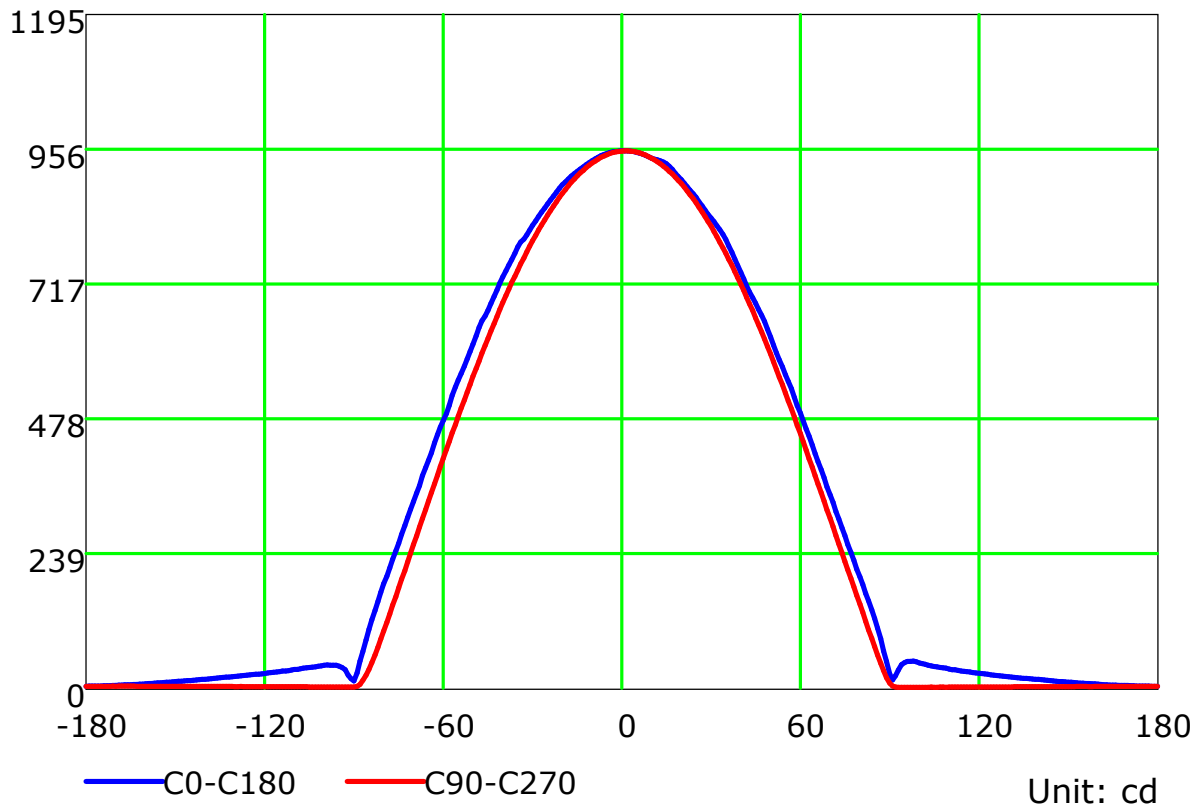
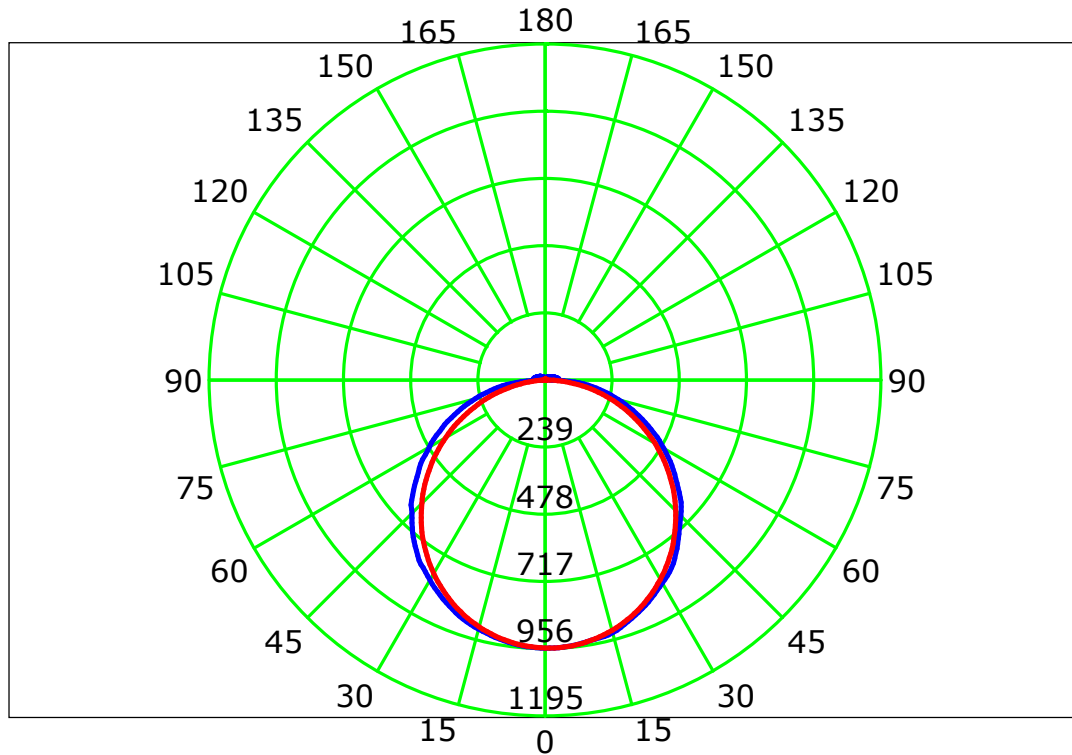
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

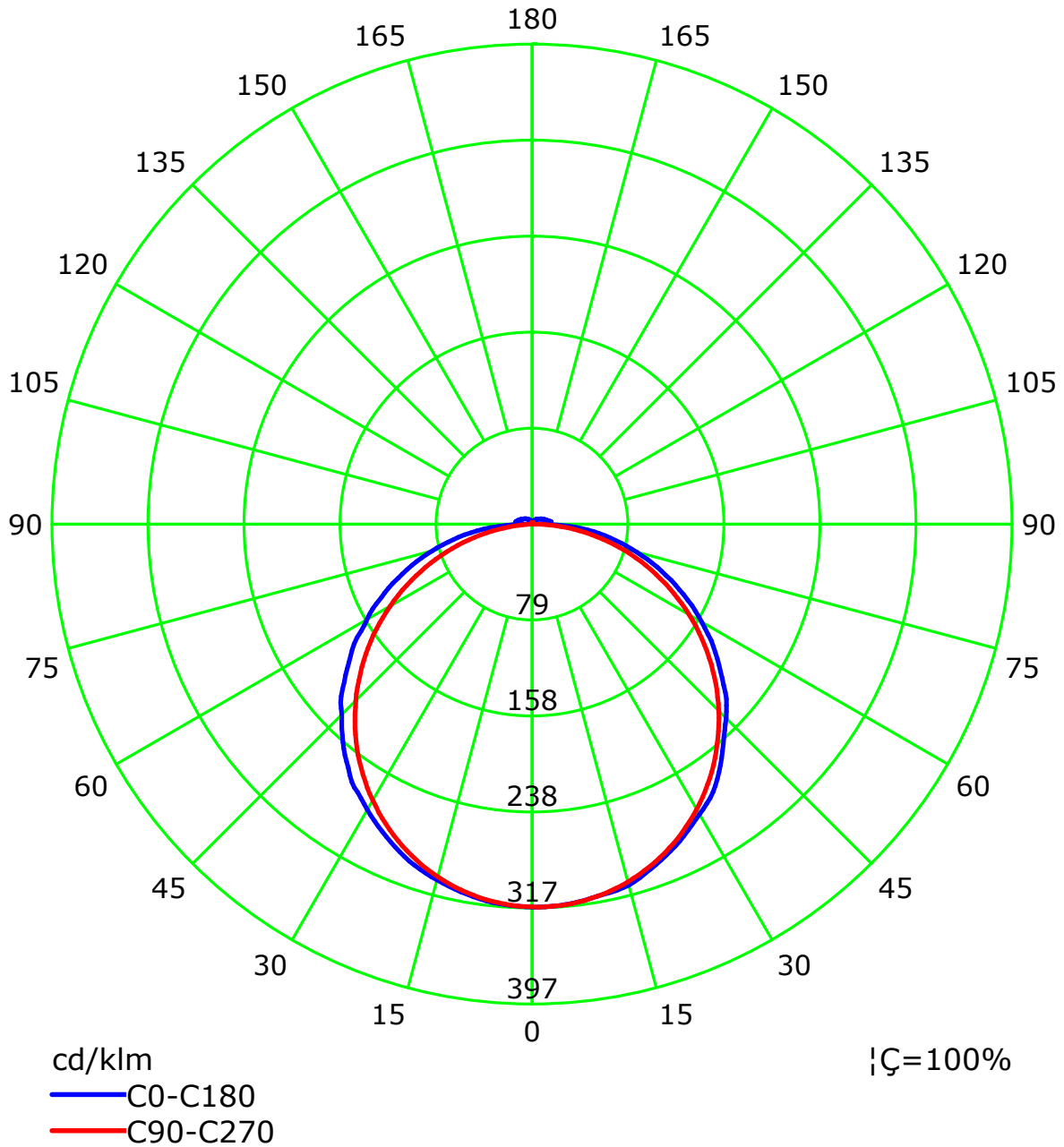
Luminous Intensity Distribution Curve



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)

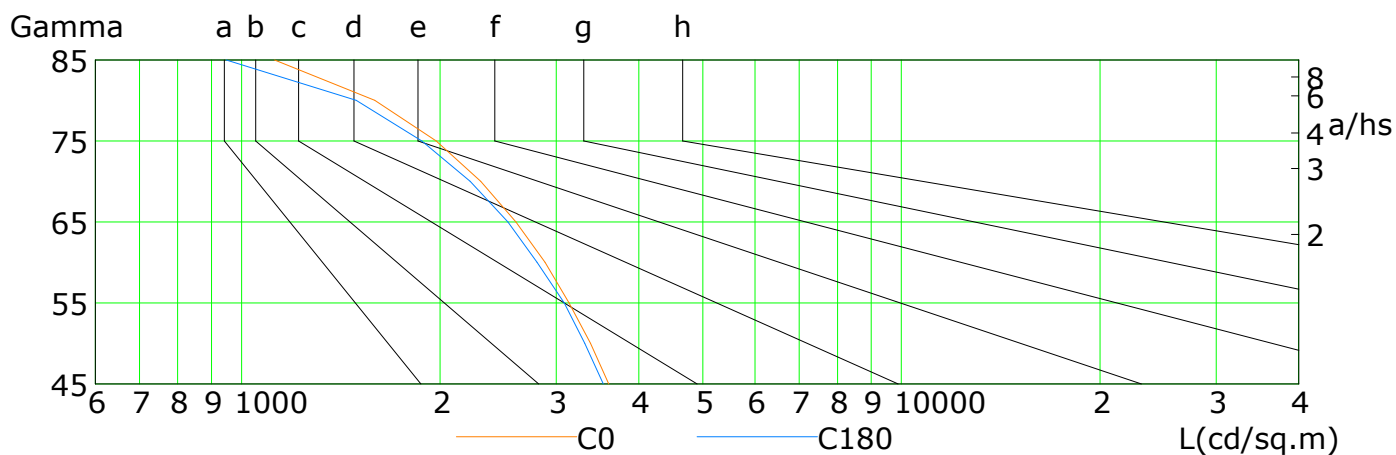
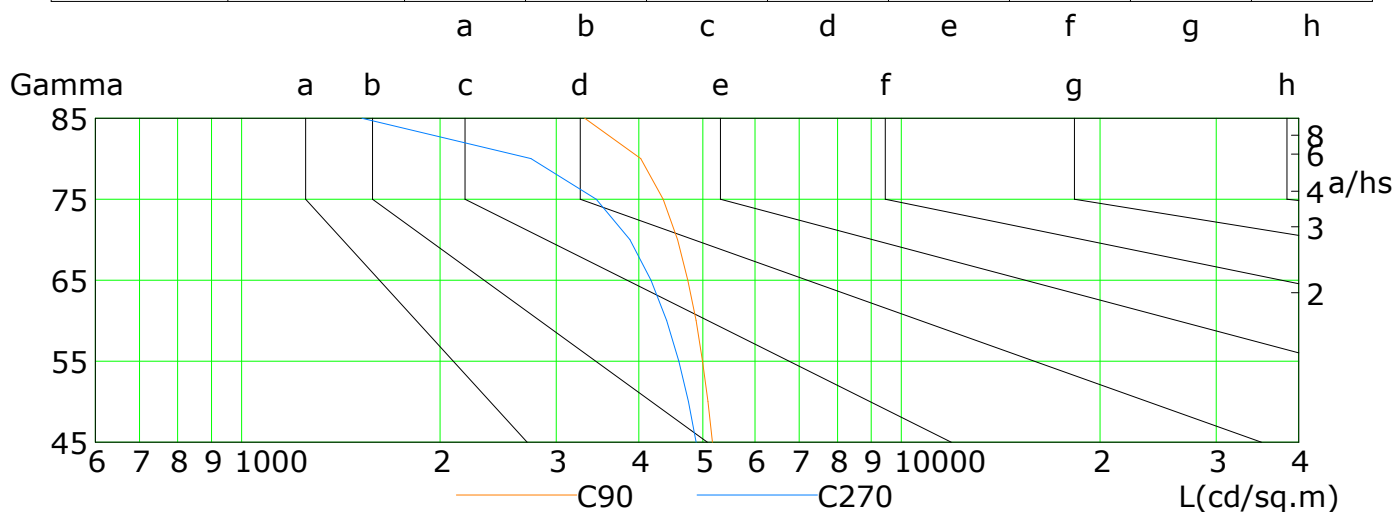


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

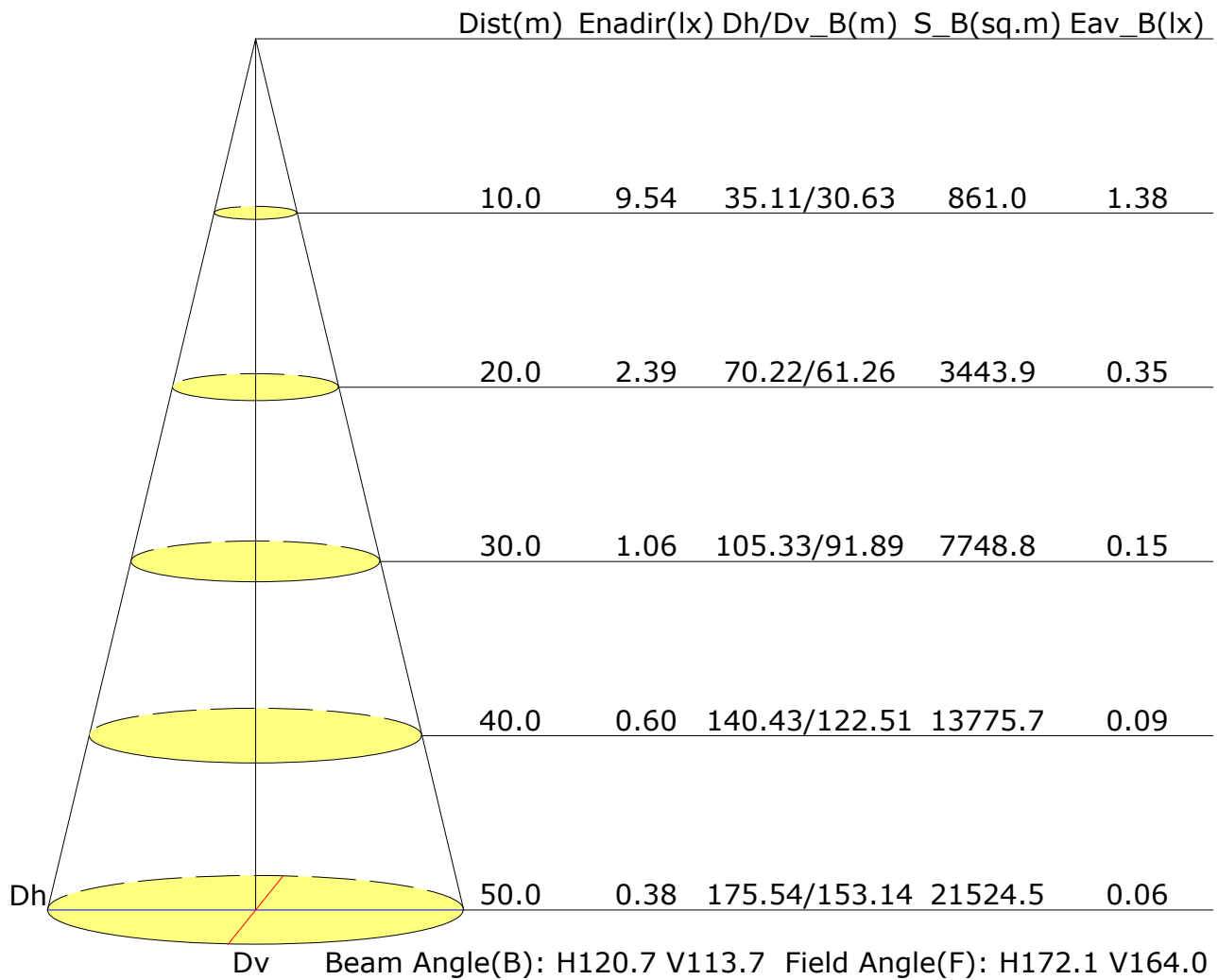


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3600	3380	3137	2885	2606	2303	1972	1591	1122
C90	5171	5090	4995	4885	4743	4578	4353	4028	3312
C180	3535	3313	3083	2804	2532	2221	1875	1493	948
C270	4883	4754	4599	4408	4176	3877	3448	2745	1522

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	16.6	18.0	17.0	18.3	18.6	17.2	18.6	17.5	18.9	19.2
3H	18.1	19.4	18.5	19.7	20.0	18.8	20.0	19.1	20.4	20.7
4H	18.7	19.9	19.1	20.3	20.6	19.4	20.6	19.8	21.0	21.3
6H	19.2	20.3	19.6	20.7	21.1	19.9	21.0	20.3	21.4	21.8
8H	19.4	20.4	19.8	20.8	21.2	20.1	21.1	20.5	21.5	21.9
12H	19.5	20.5	19.9	20.9	21.3	20.2	21.2	20.6	21.6	22.0
X=4H Y=2H	17.3	18.5	17.7	18.8	19.2	17.7	18.9	18.1	19.2	19.6
3H	18.9	20.0	19.4	20.4	20.8	19.4	20.5	19.9	20.9	21.3
4H	19.7	20.6	20.1	21.0	21.5	20.2	21.1	20.7	21.5	22.0
6H	20.3	21.1	20.7	21.5	22.0	20.8	21.6	21.3	22.1	22.5
8H	20.5	21.2	21.0	21.7	22.2	21.0	21.8	21.5	22.2	22.7
12H	20.6	21.3	21.1	21.8	22.3	21.1	21.8	21.6	22.3	22.8
X=8H Y=4H	19.9	20.7	20.4	21.2	21.6	20.4	21.2	20.9	21.6	22.1
6H	20.7	21.3	21.2	21.8	22.3	21.1	21.7	21.6	22.2	22.7
8H	21.0	21.5	21.5	22.0	22.6	21.4	21.9	21.9	22.4	23.0
12H	21.2	21.7	21.7	22.2	22.7	21.6	22.0	22.1	22.6	23.1
X=12H Y=4H	20.0	20.6	20.5	21.1	21.6	20.4	21.1	20.9	21.6	22.1
6H	20.7	21.3	21.2	21.8	22.3	21.2	21.7	21.7	22.2	22.7
8H	21.0	21.5	21.6	22.0	22.6	21.4	21.9	22.0	22.4	23.0
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.3/-0.4				
S=2.0H	+0.5/-0.9					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3011lm ($8\log(F/F_0) = 3.8$).

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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	0.54	0.64	0.72	0.77	0.84	0.90	0.93	0.98	1.01	
	0.30		0.46	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.97	
	0.20		0.40	0.50	0.58	0.64	0.72	0.79	0.83	0.90	0.94	
0.50	0.50	0.20	0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
	0.30		0.45	0.55	0.62	0.68	0.75	0.81	0.85	0.90	0.93	
	0.20		0.40	0.49	0.57	0.62	0.71	0.76	0.81	0.87	0.90	
0.30	0.50	0.20	0.50	0.60	0.66	0.71	0.78	0.82	0.85	0.89	0.92	
	0.30		0.44	0.53	0.60	0.66	0.73	0.78	0.82	0.86	0.90	
	0.20		0.39	0.49	0.56	0.61	0.69	0.74	0.78	0.84	0.87	
0.00	0.00	0.00	0.37	0.46	0.53	0.58	0.65	0.70	0.74	0.79	0.82	
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	1.03	0.85	0.73	0.64	0.51	0.43	0.37	0.29	0.24	
	0.30		0.86	0.73	0.64	0.57	0.47	0.39	0.34	0.27	0.23	
	0.20		0.73	0.64	0.57	0.51	0.42	0.36	0.32	0.26	0.21	
0.50	0.50	0.20	0.98	0.82	0.70	0.61	0.49	0.44	0.35	0.27	0.22	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.30	0.50	0.20	0.95	0.78	0.67	0.58	0.47	0.39	0.33	0.26	0.21	
	0.30		0.81	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.00	0.00	0.00	0.61	0.52	0.45	0.40	0.33	0.27	0.24	0.19	0.16	
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	0.19	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.19	0.20	0.21	0.21	0.22	0.23	0.23	0.23	0.24	
	0.30		0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.30	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.23	
	0.30		0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.14	0.16	0.17	0.18	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												