



OOO "FAROS"

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Page 1 of 9 Pages

Report No.:

Test Time: 06.05.2020 18:27

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 55W Refond 3N 5000K 104x90 rp

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.2 V

Current: 0.227 A

Power: 51.30 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 8231.6 lm

Measurement Flux: 8231.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.1, 128.3, 138.1, 138.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.3, 87.4, 86.9, 86.7

Luminaire Efficacy Rating (LER): 160.51

Central Intensity: 3870.73 cd

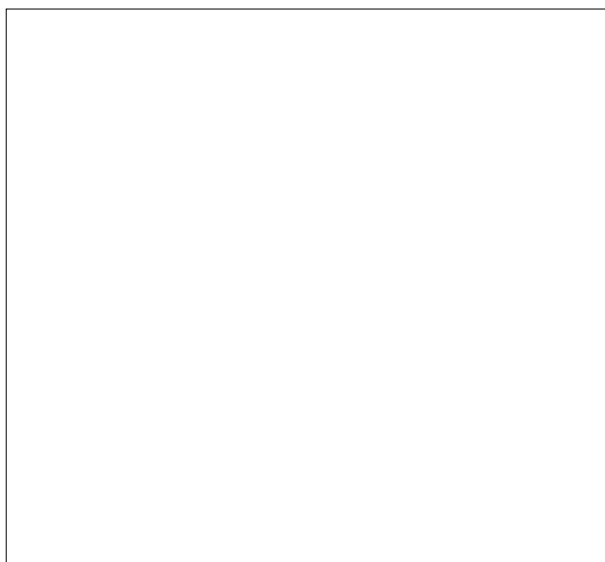
Max. Intensity: 3905.11 cd

Pos of Max. Intensity: H135 V2

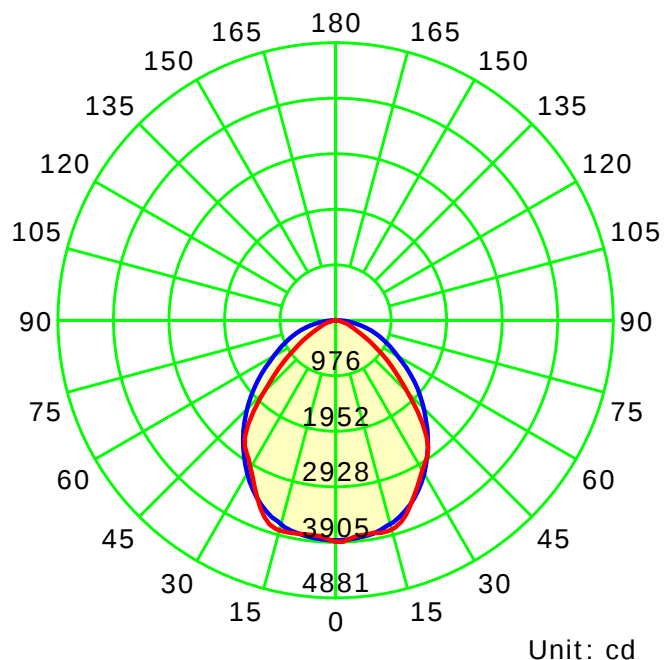
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.16

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 (°):0.0-180.0:2.0

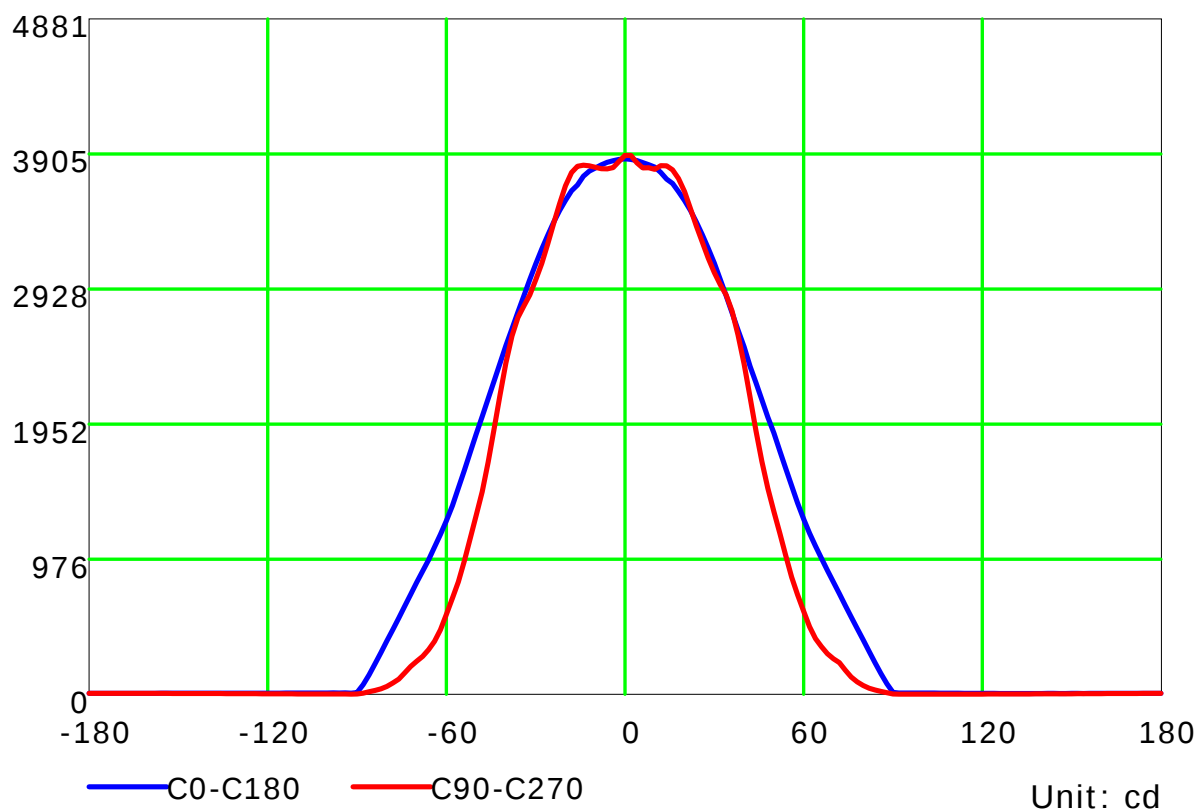
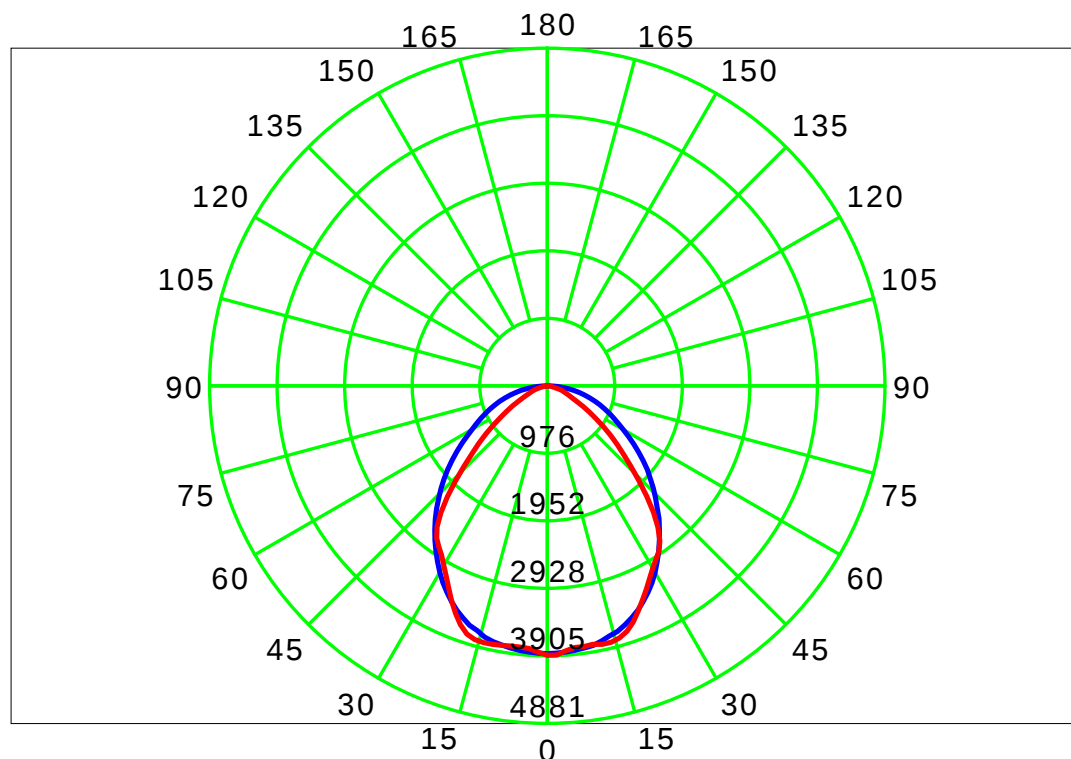
Test Device: LSG-1800B

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:

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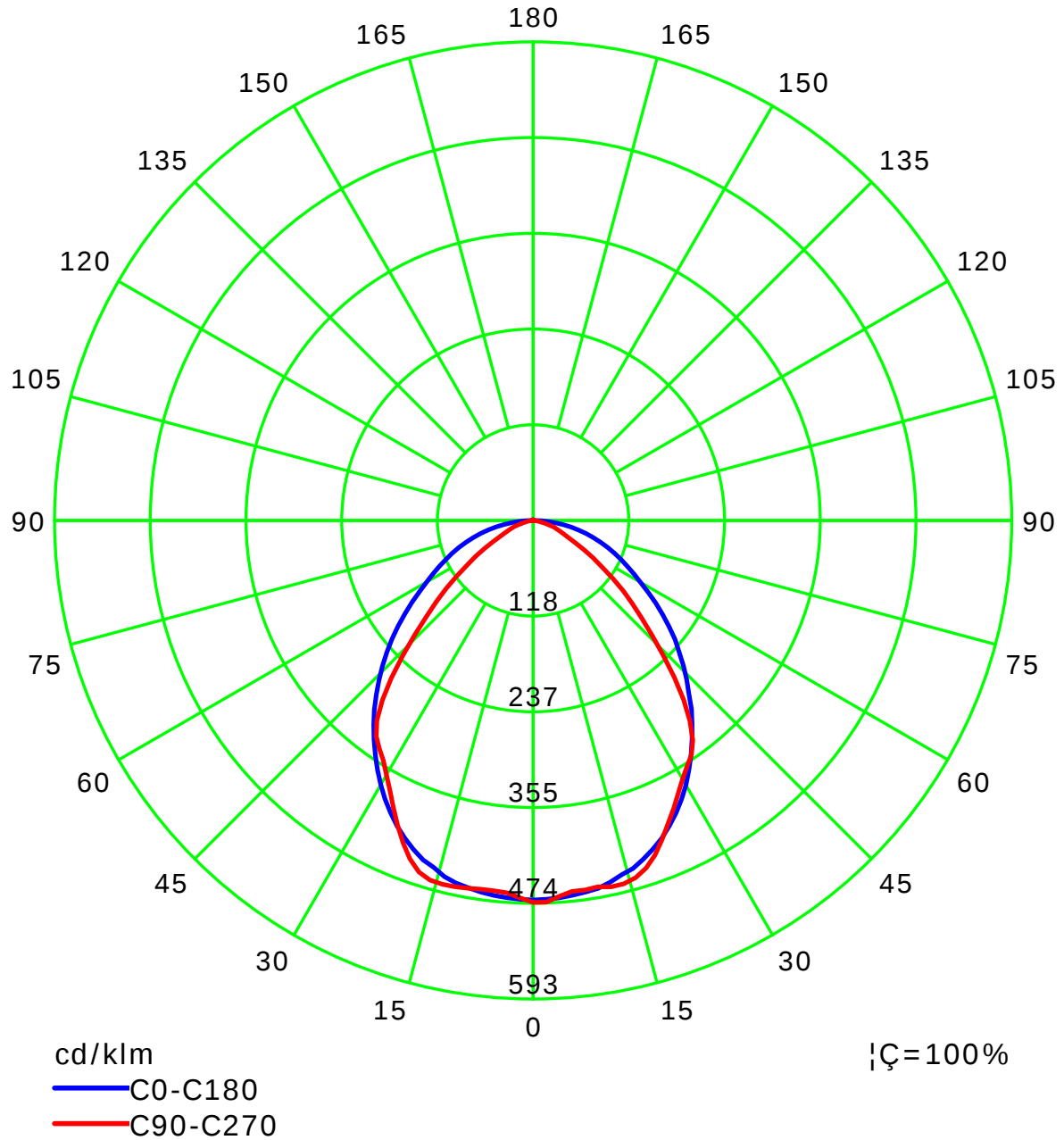
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

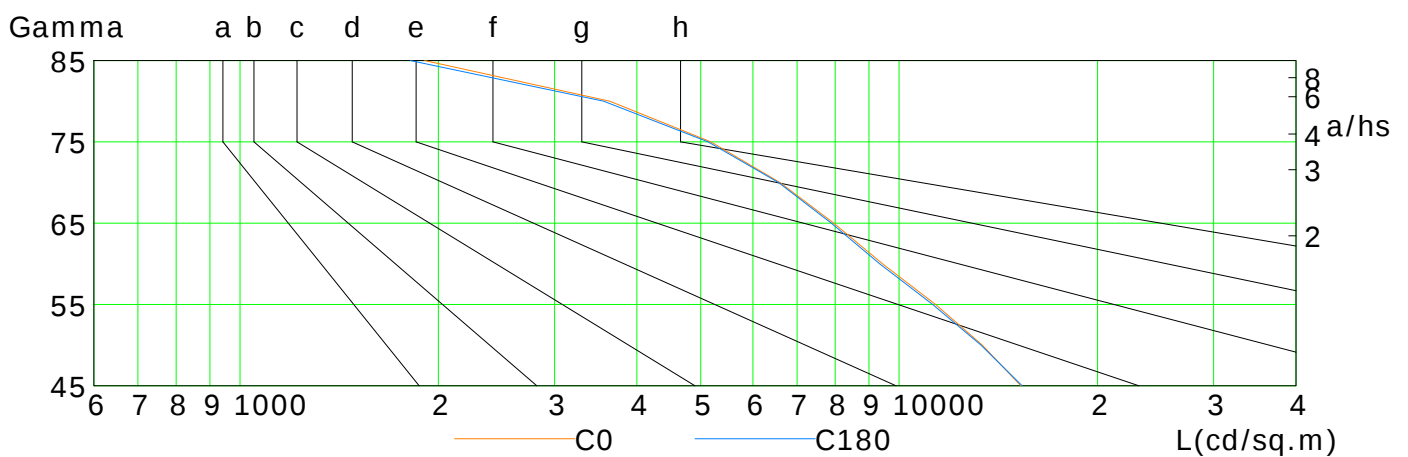
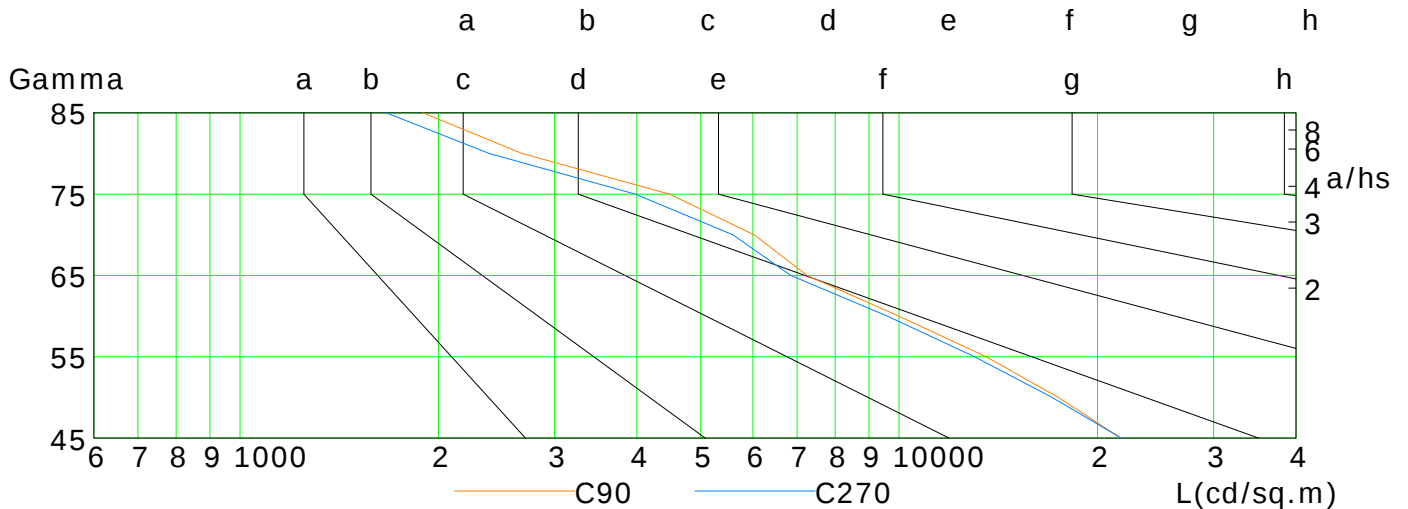
Inspector:

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	15301	13374	11358	9439	7959	6595	5178	3640	1906
C90	21692	17443	13562	9987	7250	6026	4485	2681	1895
C180	15371	13310	11245	9346	7891	6562	5131	3563	1813
C270	21725	17064	13018	9598	6850	5595	3980	2390	1667

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

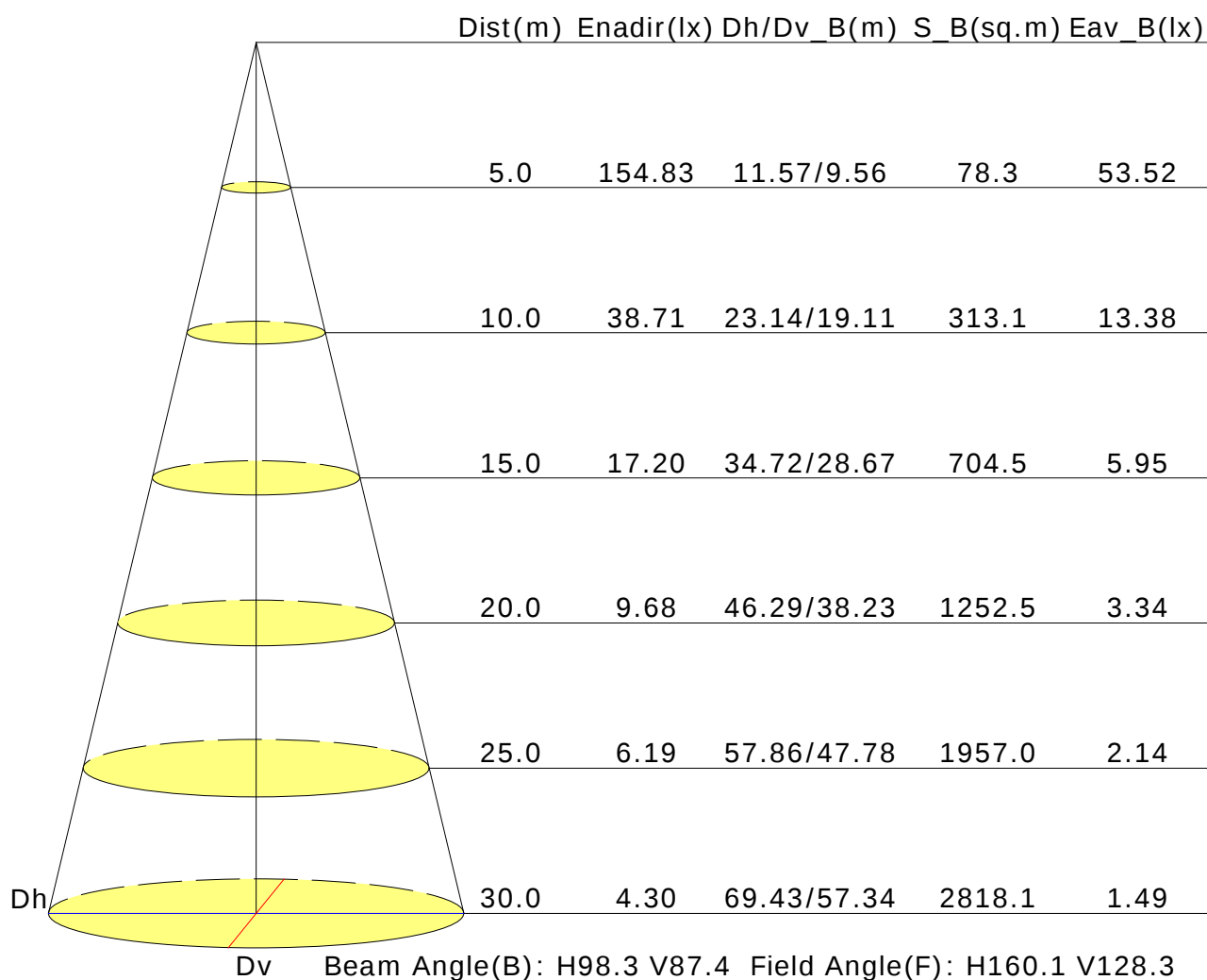
Test Device: LSG-1800B

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	20.4	21.7	20.7	21.9	22.1	20.1	21.4	20.4	21.6	21.8
3H	21.5	22.6	21.8	22.9	23.2	20.4	21.5	20.7	21.8	22.1
4H	21.9	23.0	22.3	23.3	23.6	20.5	21.5	20.8	21.8	22.1
6H	22.2	23.2	22.6	23.5	23.8	20.5	21.5	20.9	21.8	22.1
8H	22.3	23.2	22.7	23.6	23.9	20.5	21.4	20.8	21.7	22.1
12H	22.3	23.2	22.7	23.6	23.9	20.4	21.3	20.8	21.7	22.0
X=4H Y=2H	20.6	21.7	21.0	22.0	22.3	20.3	21.4	20.7	21.7	22.0
3H	21.8	22.7	22.2	23.0	23.4	20.7	21.6	21.1	21.9	22.3
4H	22.3	23.1	22.7	23.5	23.9	20.8	21.6	21.2	22.0	22.4
6H	22.7	23.4	23.1	23.8	24.2	20.9	21.6	21.3	22.0	22.4
8H	22.8	23.5	23.3	23.9	24.3	20.8	21.5	21.3	21.9	22.3
12H	22.9	23.5	23.4	23.9	24.4	20.8	21.4	21.3	21.8	22.3
X=8H Y=4H	22.3	23.0	22.8	23.4	23.8	20.9	21.5	21.3	21.9	22.4
6H	22.8	23.3	23.2	23.7	24.2	20.9	21.4	21.4	21.9	22.4
8H	22.9	23.4	23.4	23.8	24.3	20.9	21.4	21.4	21.8	22.3
12H	23.0	23.4	23.5	23.9	24.4	20.9	21.3	21.4	21.8	22.3
X=12H Y=4H	22.3	22.9	22.7	23.3	23.7	20.9	21.4	21.3	21.9	22.3
6H	22.7	23.2	23.2	23.7	24.1	20.9	21.4	21.4	21.8	22.3
8H	22.9	23.3	23.4	23.8	24.3	20.9	21.3	21.4	21.8	22.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.4					+0.5/-0.9				
S=1.5H	+0.6/-1.0					+1.7/-2.3				
S=2.0H	+1.4/-1.7					+3.2/-3.9				

Calculate in accordance with CIE Pub.117. The table is revised with 8232Im ($8\log(F/F_0) = 7.3$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.65	0.75	0.82	0.86	0.93	0.97	1.00	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.96	1.00	1.03	
	0.20		0.54	0.63	0.70	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.64	0.73	0.79	0.84	0.89	0.93	0.96	1.00	1.02	
	0.30		0.58	0.67	0.74	0.79	0.85	0.89	0.93	0.97	0.99	
	0.20		0.53	0.63	0.70	0.74	0.81	0.86	0.90	0.94	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.96	
	0.20		0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.92	0.94	
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.87	0.89	
Rating:51W 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	0.87	0.70	0.59	0.51	0.41	0.33	0.29	0.22	0.18	
	0.30		0.72	0.60	0.52	0.45	0.37	0.31	0.26	0.21	0.17	
	0.20		0.62	0.52	0.46	0.41	0.33	0.28	0.25	0.20	0.16	
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.38	0.35	0.27	0.21	0.17	
	0.30		0.70	0.58	0.50	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		0.61	0.51	0.45	0.40	0.32	0.27	0.24	0.19	0.15	
0.30	0.50	0.20	0.81	0.64	0.54	0.46	0.36	0.30	0.25	0.19	0.16	
	0.30		0.69	0.57	0.48	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.60	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.16	0.13	0.10	
Rating:51W 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	0.20	0.21	0.21	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	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	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	0.09	0.10	0.12	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:51W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												