



OOO "FAROS"

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Report No.: 1

Test Time: 30.11.2017 14:52

## Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FP 150 75W 5000K 40x90gr. NEMA

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 231.7 V

Power: 75.83 W

Luminous Length (mm): 496

Luminous Height (mm): 80

Current: 0.337 A

Power Factor: 0.968

## Photometric Results

CIE Class: Direct

Measurement Flux: 9044.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 40.9, 144.3, 54.0, 53.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 24.2, 86.0, 33.2, 33.1

Luminaire Efficacy Rating (LER): 119.33

Max. Intensity: 12322.38 cd

S/MH(C0/C180): 0.41

Total Rated Lamp Lumens: 9044.8 lm

Efficiency: 100%

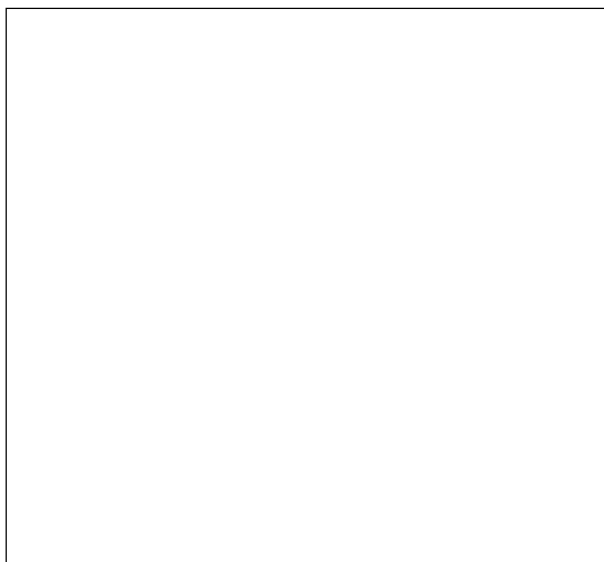
Upward Ratio: 1%

Central Intensity: 11489.62 cd

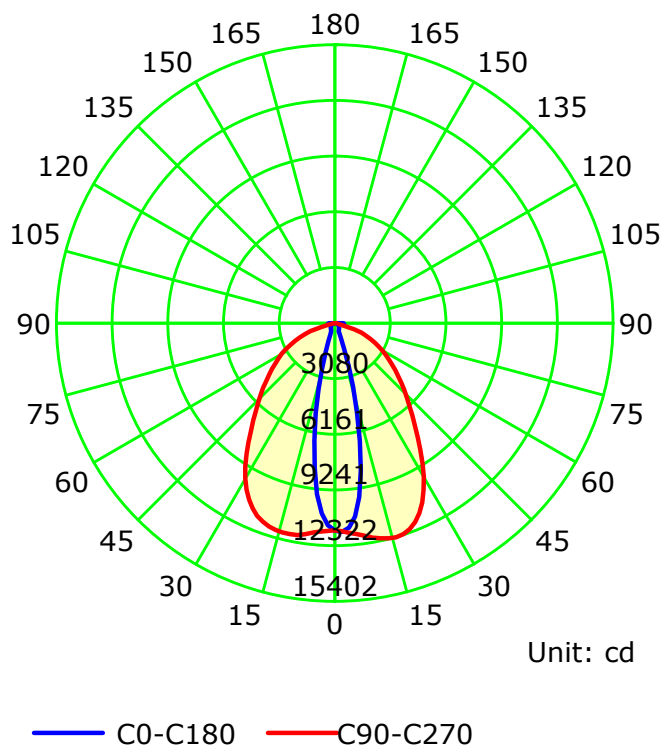
Pos of Max. Intensity: H90 V16

S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

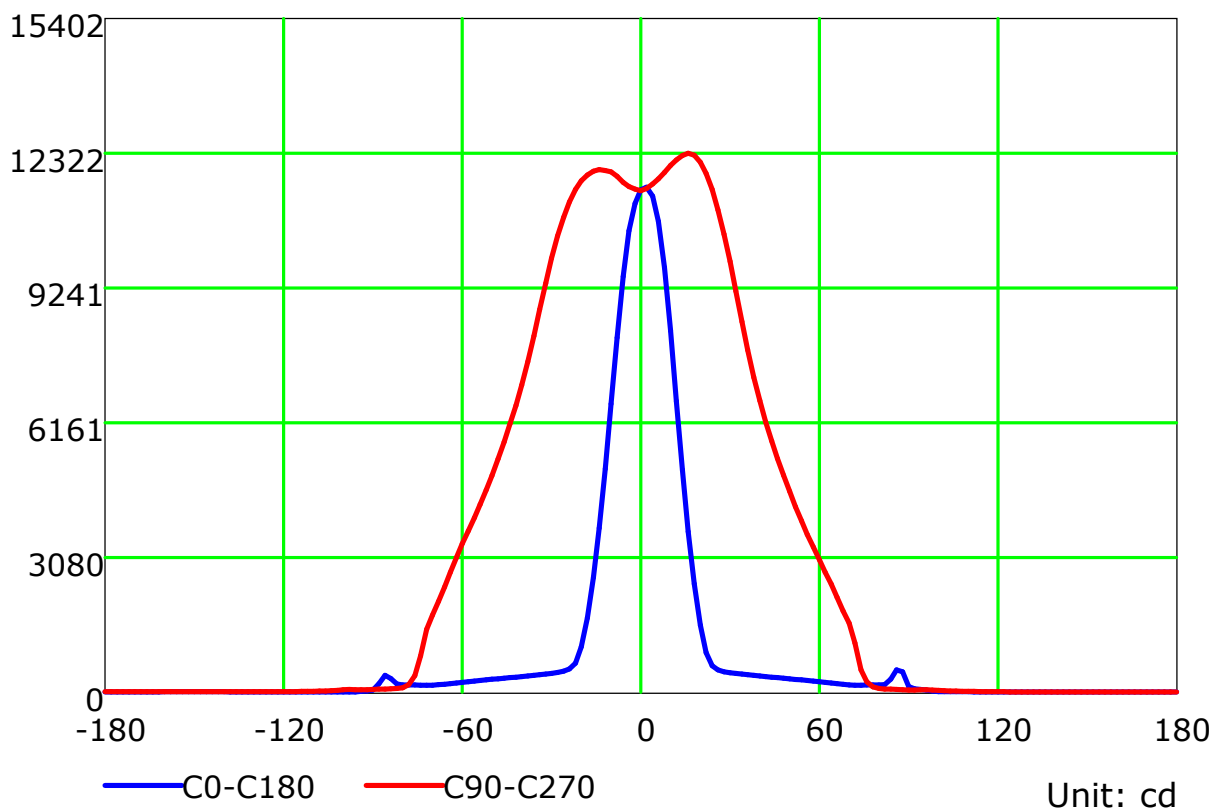
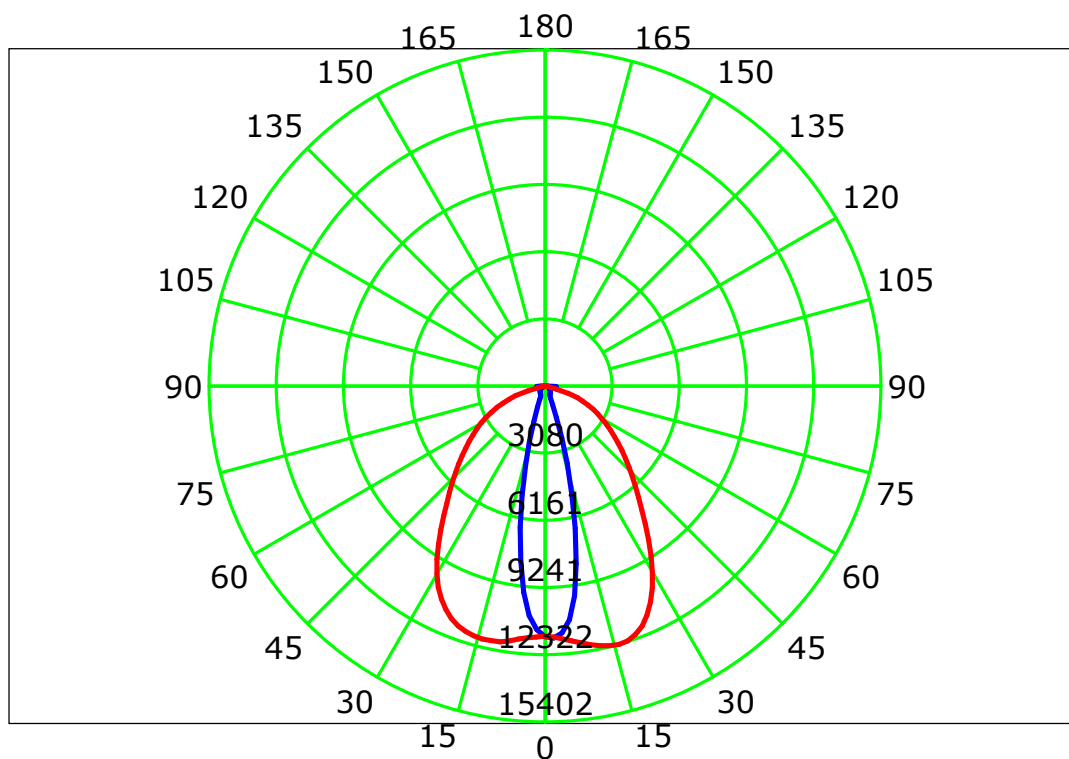
Test Device: LSG-1800B

Distance: 12.606 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 (°):0.0-180.0:2.0

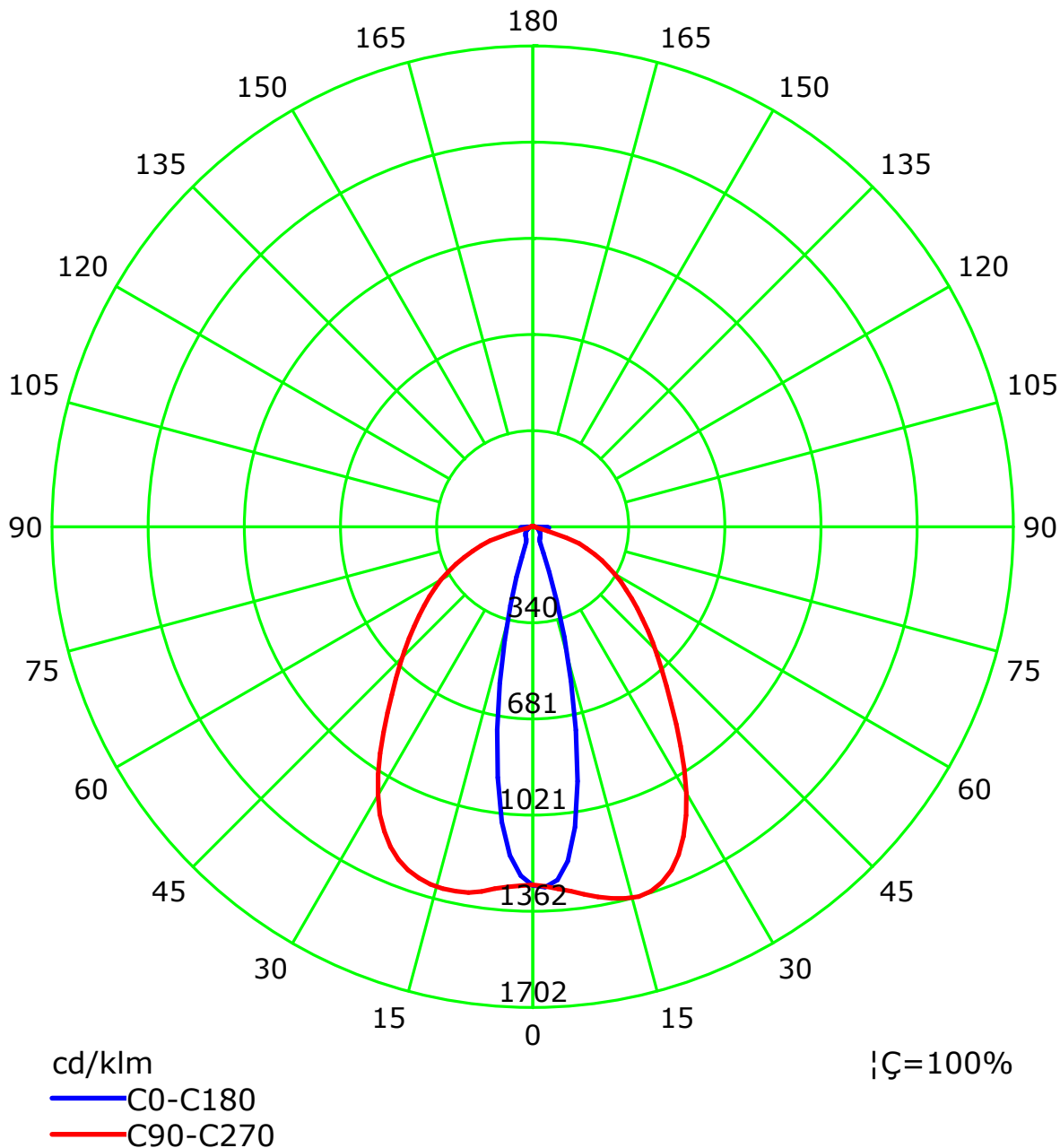
Test Device: LSG-1800B

Distance: 12.606 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 (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.606 m

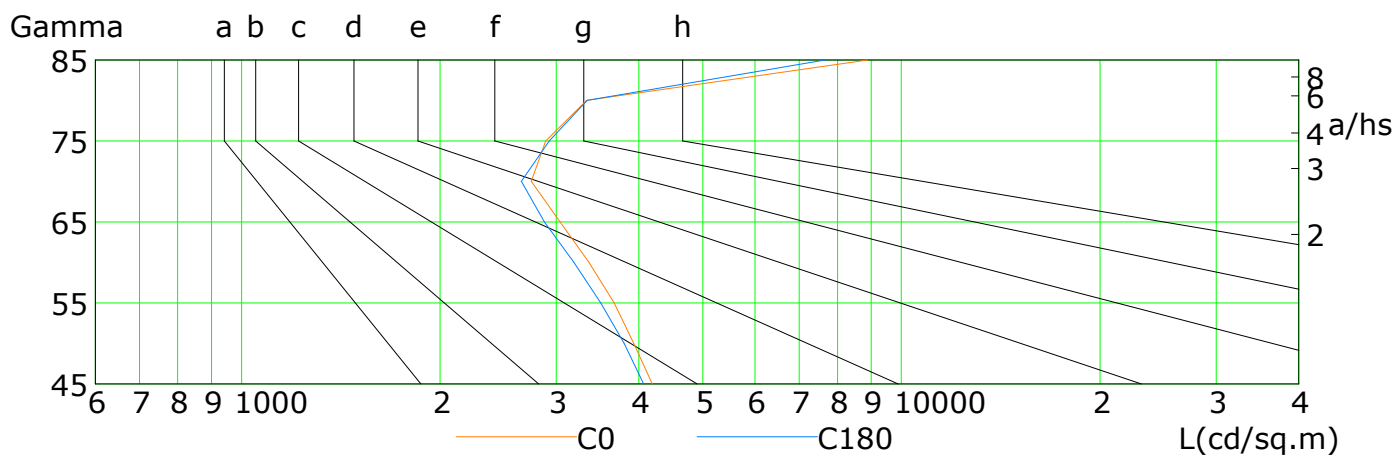
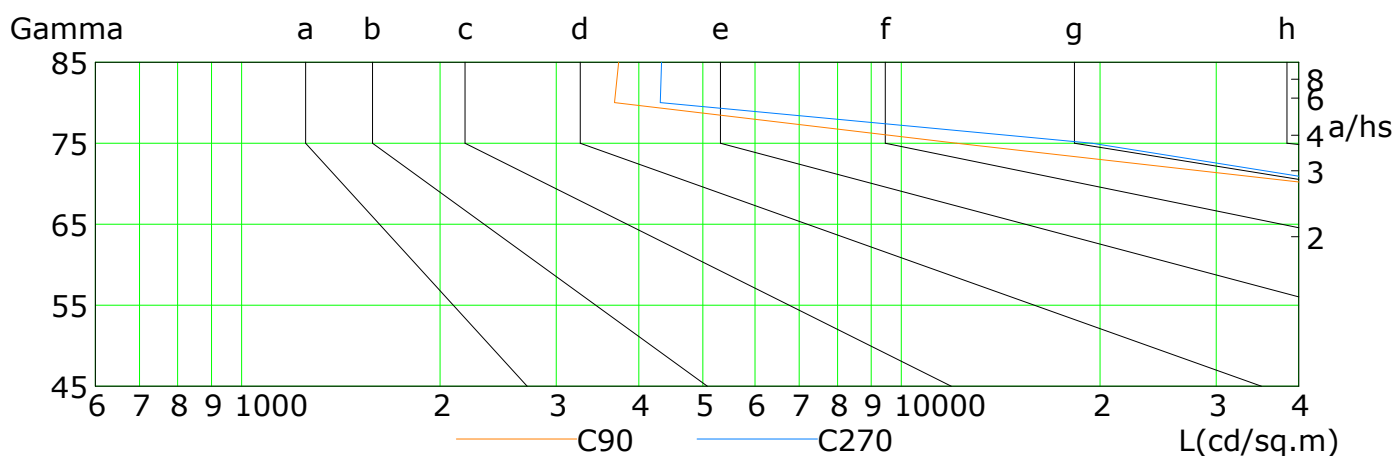
Humidity:

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	4191	3928	3669	3362	3040	2747	2891	3336	8891
C90	89052	79055	70364	62446	53911	42348	12126	3674	3727
C180	4066	3799	3504	3189	2877	2655	2926	3341	7666
C270	95182	85285	77437	70012	59775	47087	19459	4309	4332

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

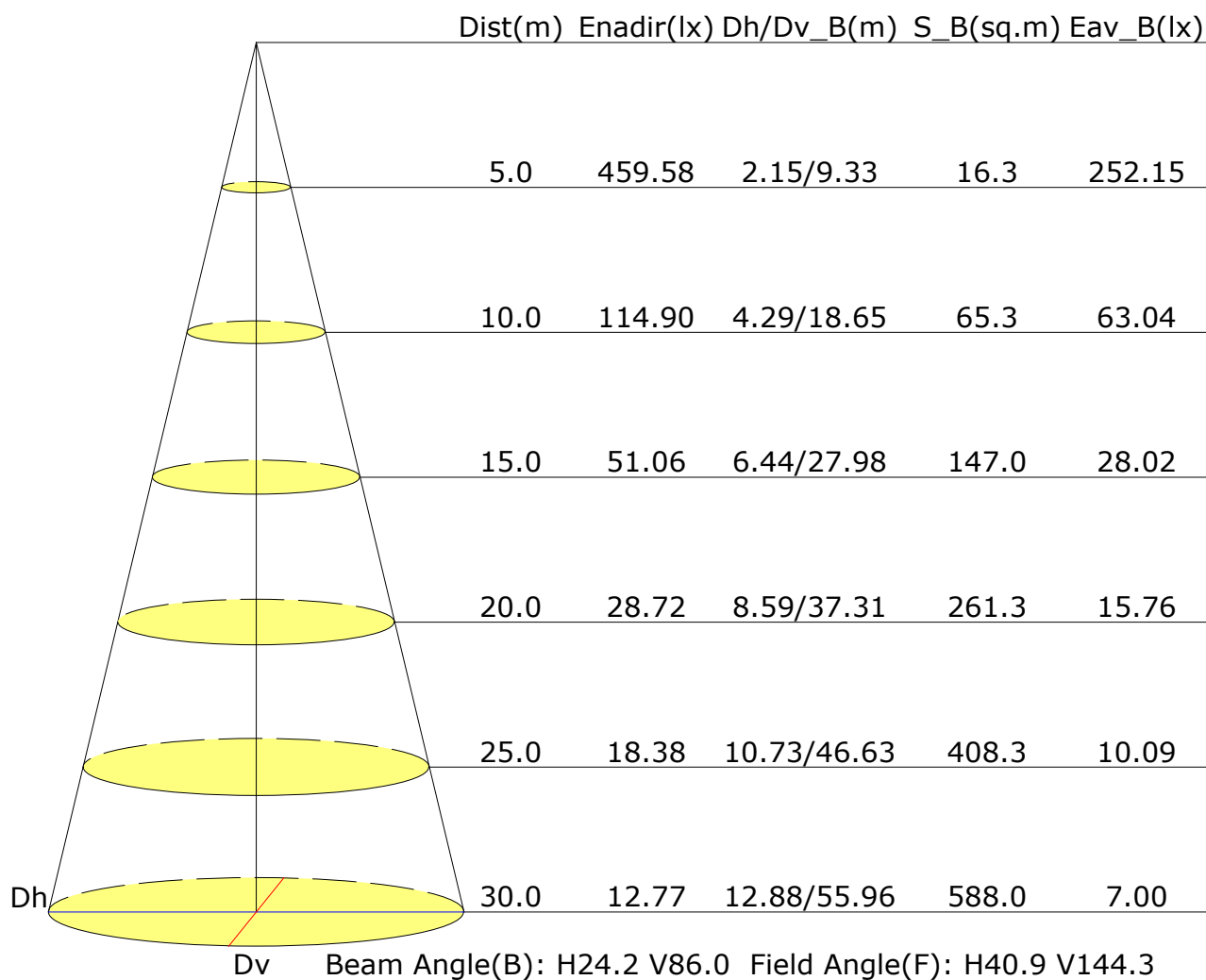
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

## Illuminance at a Distance



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: 12.606 m

Humidity:

Inspector:

## 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	11.4	12.5	11.7	12.7	12.9	26.4	27.4	26.7	27.7	27.9
3H	12.8	13.7	13.1	14.0	14.3	27.7	28.6	28.0	28.9	29.2
4H	13.5	14.4	13.9	14.7	15.0	27.9	28.8	28.2	29.1	29.4
6H	14.4	15.3	14.8	15.6	15.9	27.8	28.7	28.2	29.0	29.3
8H	15.1	15.9	15.4	16.2	16.5	27.8	28.6	28.2	28.9	29.3
12H	16.8	17.6	17.2	17.9	18.2	27.8	28.5	28.1	28.9	29.2
X=4H Y=2H	13.1	14.0	13.5	14.3	14.6	26.2	27.1	26.5	27.4	27.7
3H	14.3	15.1	14.7	15.4	15.8	27.5	28.3	27.9	28.6	29.0
4H	15.0	15.7	15.4	16.0	16.4	27.7	28.4	28.1	28.7	29.1
6H	15.8	16.4	16.3	16.8	17.3	27.7	28.3	28.1	28.7	29.1
8H	16.4	17.0	16.9	17.4	17.8	27.6	28.2	28.1	28.6	29.0
12H	18.1	18.6	18.6	19.1	19.5	27.6	28.1	28.1	28.5	29.0
X=8H Y=4H	15.3	15.9	15.8	16.3	16.7	27.6	28.1	28.0	28.5	29.0
6H	16.2	16.7	16.7	17.1	17.6	27.5	28.0	28.0	28.5	28.9
8H	16.8	17.2	17.3	17.7	18.2	27.5	27.9	28.0	28.4	28.9
12H	18.6	19.0	19.1	19.4	20.0	27.5	27.9	28.0	28.3	28.9
X=12H Y=4H	15.3	15.8	15.8	16.3	16.7	27.5	28.0	28.0	28.5	28.9
6H	16.2	16.6	16.7	17.1	17.6	27.5	27.9	28.0	28.4	28.9
8H	16.9	17.2	17.4	17.7	18.2	27.5	27.8	28.0	28.3	28.9
Variations with the observer position at spacings:										
S=1.0H	+0.7/-0.5					+1.2/-1.5				
S=1.5H	+1.1/-1.0					+2.5/-4.4				
S=2.0H	+2.0/-1.4					+3.9/-7.8				

Calculate in accordance with CIE Pub.117. The table is revised with 9045lm ( $8\log(F/F_0) = 7.7$ ).

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: 12.606 m  
Humidity:  
Inspector:

## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.71	0.79	0.85	0.89	0.95	0.99	1.02	1.05	1.07	
	0.30		0.65	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.20		0.61	0.69	0.75	0.80	0.86	0.91	0.94	0.99	1.02	
0.50	0.50	0.20	0.70	0.77	0.83	0.87	0.92	0.95	0.98	1.01	1.03	
	0.30		0.64	0.72	0.78	0.82	0.88	0.92	0.95	0.98	1.00	
	0.20		0.60	0.68	0.74	0.78	0.85	0.89	0.92	0.96	0.99	
0.30	0.50	0.20	0.68	0.76	0.81	0.84	0.89	0.92	0.94	0.97	0.99	
	0.30		0.63	0.71	0.76	0.80	0.86	0.89	0.92	0.95	0.97	
	0.20		0.60	0.67	0.73	0.77	0.83	0.87	0.89	0.93	0.95	
0.00	0.00	0.00	0.58	0.65	0.70	0.74	0.79	0.83	0.85	0.88	0.90	
Rating:76W 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 = 0.75									
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	0.78	0.64	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.30		0.65	0.55	0.47	0.42	0.34	0.28	0.24	0.19	0.16	
	0.20		0.56	0.48	0.42	0.37	0.31	0.26	0.23	0.18	0.15	
0.50	0.50	0.20	0.75	0.61	0.52	0.45	0.35	0.33	0.25	0.19	0.16	
	0.30		0.63	0.53	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
	0.20		0.55	0.47	0.41	0.36	0.30	0.25	0.22	0.17	0.14	
0.30	0.50	0.20	0.72	0.58	0.49	0.42	0.33	0.27	0.23	0.18	0.15	
	0.30		0.62	0.51	0.44	0.38	0.31	0.26	0.22	0.17	0.14	
	0.20		0.54	0.46	0.40	0.35	0.28	0.24	0.21	0.16	0.14	
0.00	0.00	0.00	0.42	0.35	0.29	0.25	0.20	0.17	0.14	0.11	0.09	
Rating:76W 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 = 0.75									
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	0.12	0.13	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.18	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:76W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												