

Report No.: 1

Test Time: 23.01.2020 10:32

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FT 185 N 62W 3000K 90x155gr.

Luminous Length (mm): 587

Luminous Width (mm): 177

Luminous Height (mm): 102

Voltage: 221.3 V

Current: 0.287 A

Power: 61.75 W

Power Factor: 0.970

## Photometric Results

CIE Class: Direct

Measurement Flux: 8769.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 8769.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.7, 170.4, 176.2, 177.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 101.9, 149.7, 153.2, 158.1

Luminaire Efficacy Rating (LER): 142.06

Central Intensity: 1981.35 cd

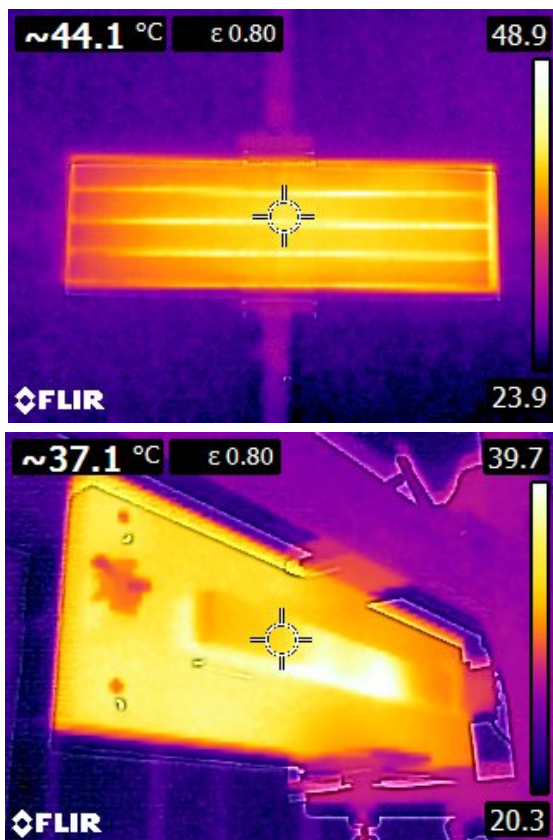
Max. Intensity: 3074.22 cd

Pos of Max. Intensity: H270 V63

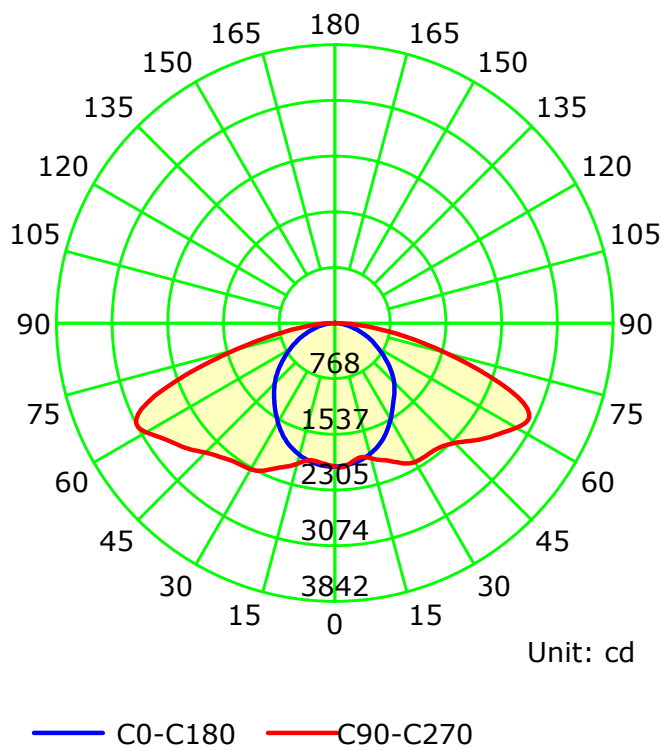
S/MH(C0/C180): 1.18

S/MH(C90/C270): 1.77

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

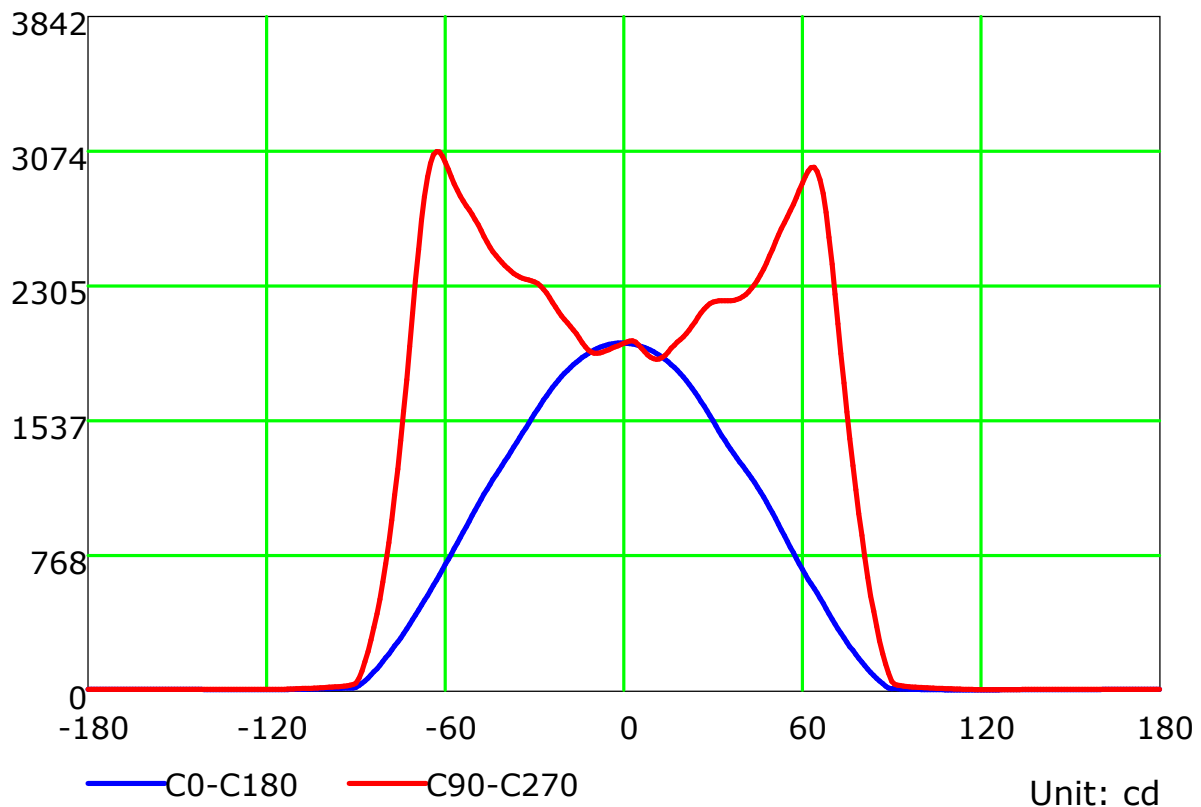
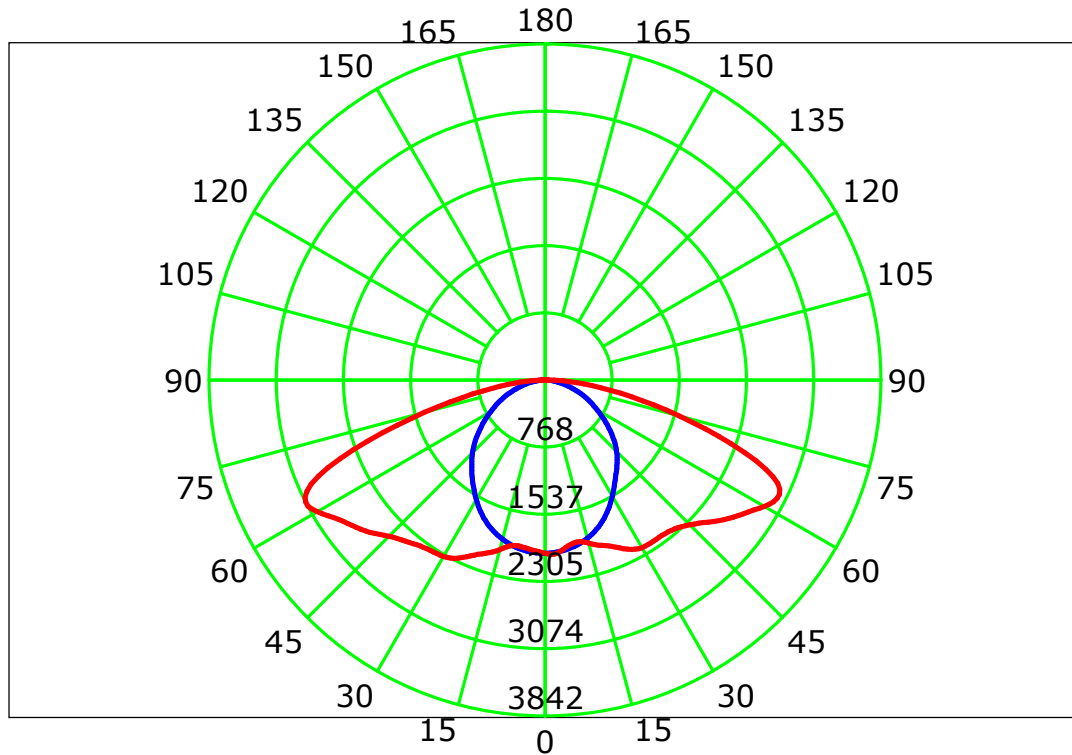
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

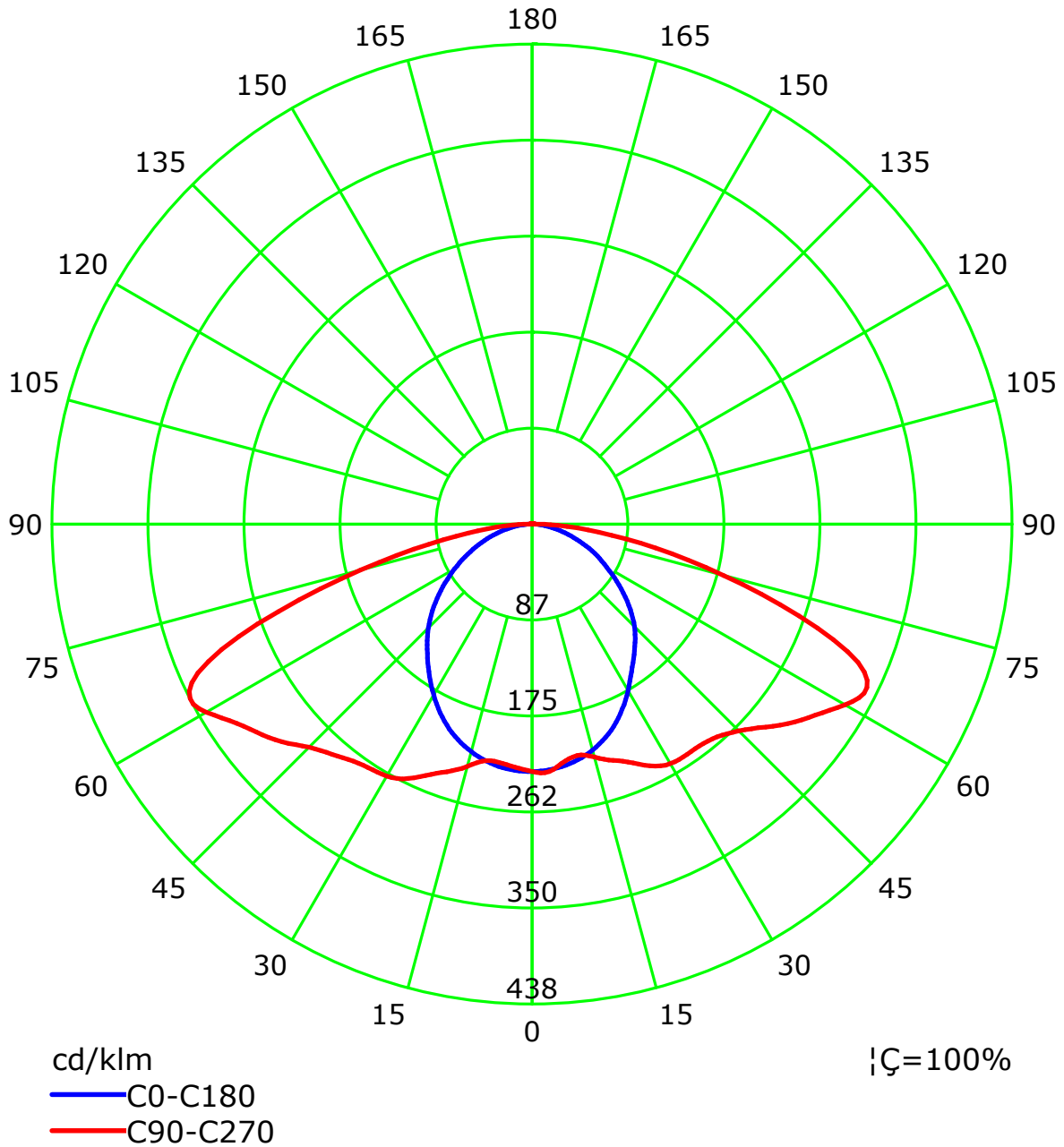
## Luminous Intensity Distribution Curve



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)



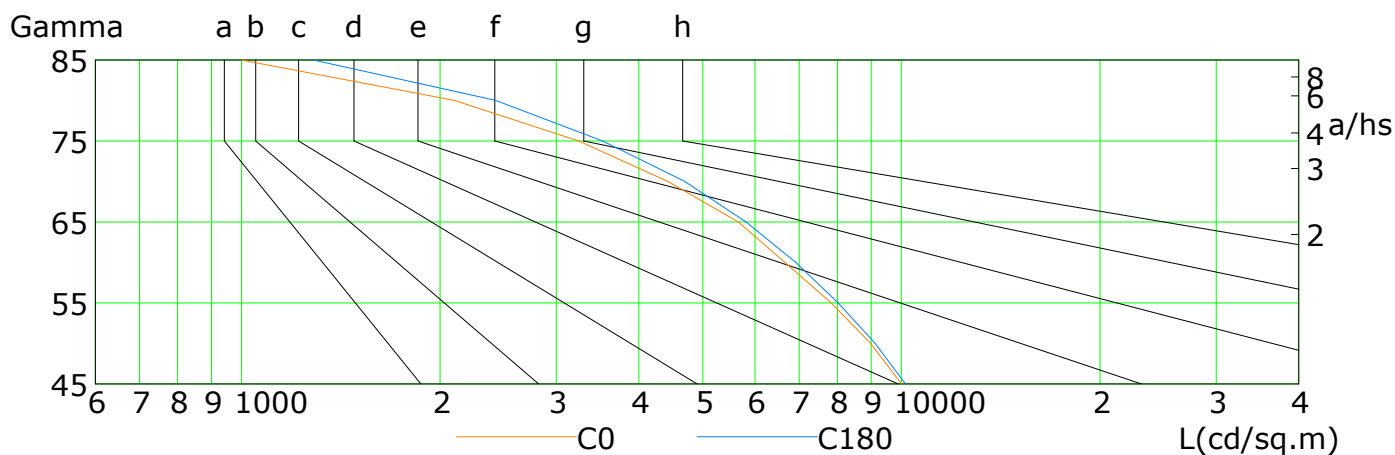
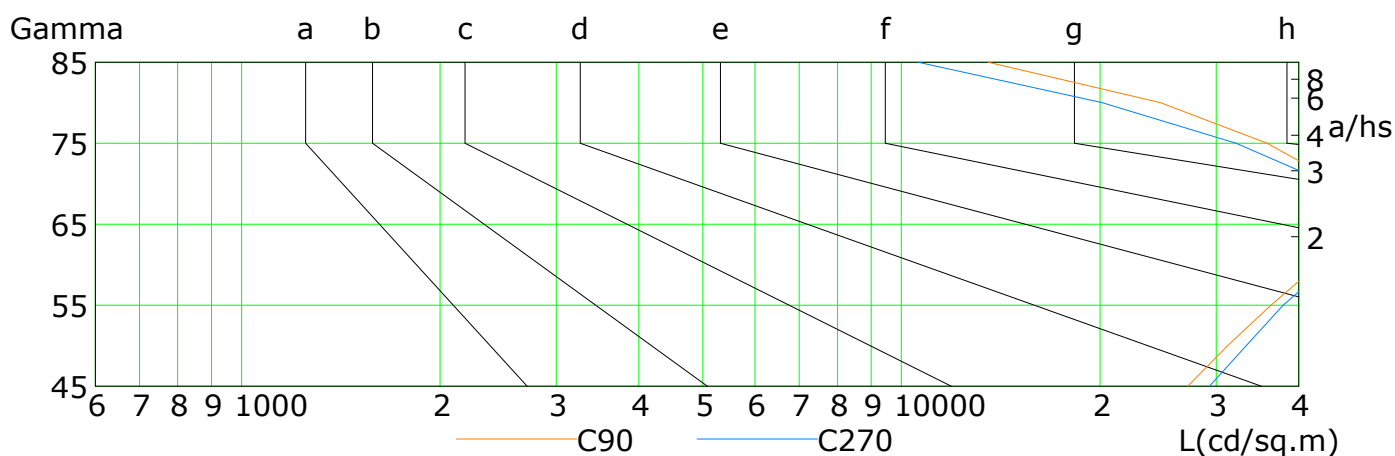
C Plane (°):0.0-360.0: 22.5  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

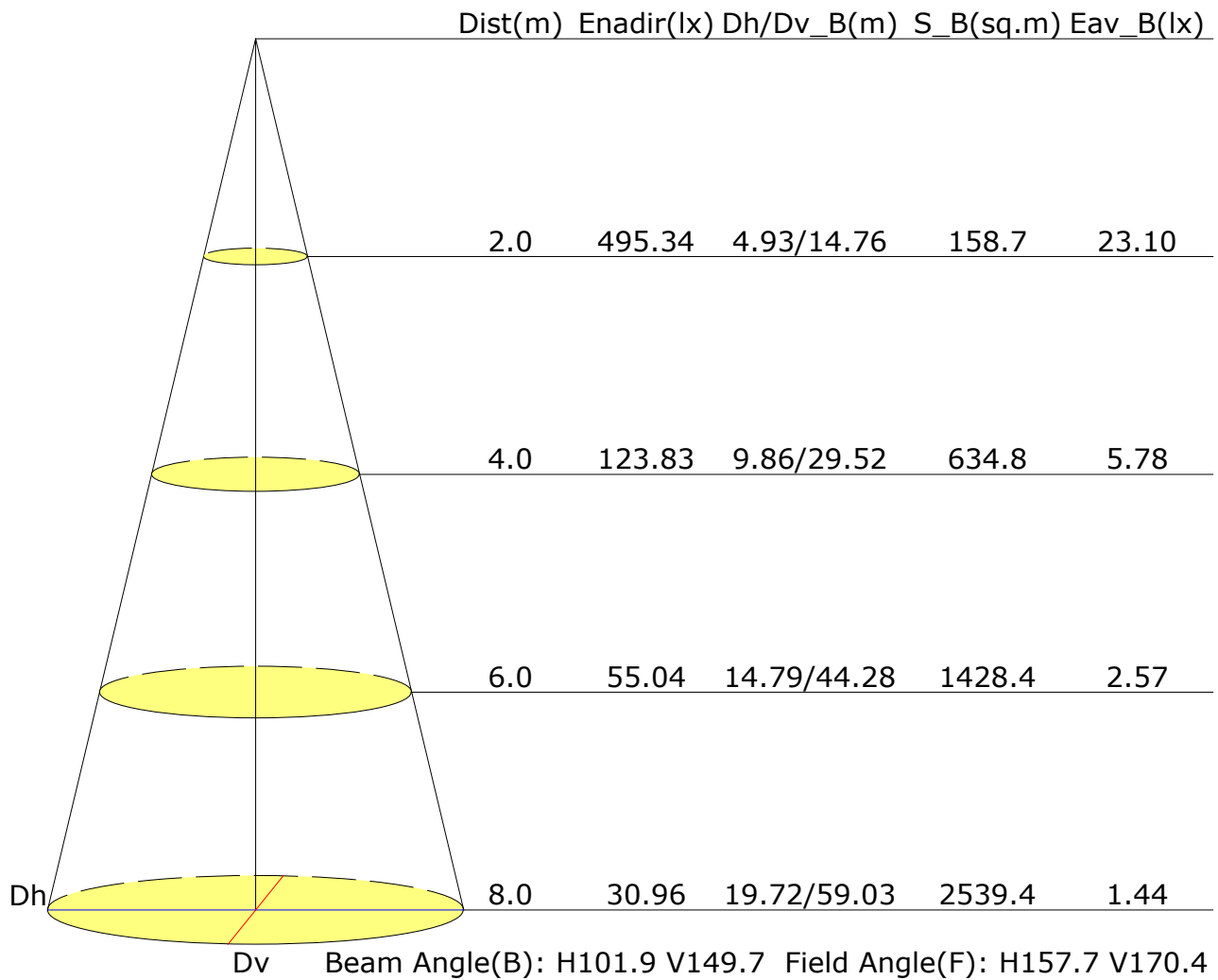


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10009	8982	7828	6656	5661	4423	3242	2099	999
C90	27155	31224	36318	42810	49126	46316	35832	24682	13548
C180	10148	9119	8023	6916	5815	4693	3527	2426	1285
C270	29308	33317	37911	44579	49874	44575	32138	20135	10608

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
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 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	18.9	20.5	19.2	20.7	21.0	26.2	27.7	26.5	28.0	28.3
3H	19.8	21.2	20.1	21.5	21.8	29.3	30.7	29.6	31.0	31.3
4H	20.1	21.4	20.4	21.7	22.1	30.1	31.5	30.5	31.8	32.1
6H	20.2	21.5	20.6	21.8	22.1	30.6	31.8	31.0	32.2	32.5
8H	20.2	21.4	20.6	21.8	22.1	30.7	31.9	31.1	32.2	32.6
12H	20.2	21.4	20.6	21.7	22.1	30.7	31.9	31.1	32.2	32.6
X=4H Y=2H	21.2	22.6	21.6	22.9	23.2	26.4	27.8	26.8	28.1	28.4
3H	22.2	23.4	22.6	23.8	24.1	29.8	31.0	30.2	31.3	31.7
4H	22.5	23.6	22.9	24.0	24.4	30.8	31.9	31.3	32.3	32.7
6H	22.7	23.6	23.1	24.0	24.4	31.4	32.4	31.9	32.8	33.2
8H	22.7	23.6	23.1	24.0	24.4	31.6	32.5	32.0	32.9	33.3
12H	22.7	23.5	23.2	23.9	24.4	31.7	32.5	32.1	32.9	33.4
X=8H Y=4H	24.2	25.1	24.7	25.6	26.0	30.9	31.8	31.4	32.2	32.7
6H	24.6	25.3	25.0	25.7	26.2	31.7	32.4	32.2	32.9	33.3
8H	24.6	25.2	25.1	25.7	26.2	31.9	32.6	32.4	33.0	33.5
12H	24.6	25.2	25.1	25.7	26.2	32.0	32.6	32.5	33.1	33.6
X=12H Y=4H	24.5	25.3	25.0	25.8	26.2	30.9	31.7	31.4	32.1	32.6
6H	25.0	25.6	25.5	26.1	26.6	31.7	32.3	32.2	32.8	33.3
8H	25.1	25.7	25.6	26.2	26.7	31.9	32.5	32.5	33.0	33.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.1				
S=1.5H	+0.4/-0.6					+0.2/-0.3				
S=2.0H	+0.6/-1.2					+0.5/-0.4				

Calculate in accordance with CIE Pub.117. The table is revised with 8769lm ( $8\log(F/F_0) = 7.5$ ).

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:

## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.50	0.58	0.66	0.72	0.80	0.86	0.90	0.96	1.00	
	0.30		0.41	0.49	0.58	0.64	0.73	0.79	0.84	0.91	0.95	
	0.20		0.35	0.42	0.51	0.57	0.67	0.74	0.79	0.86	0.91	
0.50	0.50	0.20	0.48	0.56	0.64	0.69	0.77	0.82	0.86	0.92	0.95	
	0.30		0.40	0.48	0.56	0.62	0.71	0.77	0.81	0.87	0.91	
	0.20		0.34	0.42	0.50	0.56	0.65	0.72	0.77	0.84	0.88	
0.30	0.50	0.20	0.46	0.54	0.61	0.66	0.74	0.79	0.83	0.88	0.91	
	0.30		0.39	0.47	0.55	0.60	0.68	0.74	0.78	0.84	0.88	
	0.20		0.34	0.41	0.49	0.55	0.64	0.70	0.75	0.81	0.85	
0.00	0.00	0.00	0.32	0.38	0.46	0.52	0.60	0.66	0.70	0.76	0.80	
Rating:62W 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 = 1.50									
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	1.10	0.96	0.82	0.73	0.59	0.49	0.42	0.33	0.27	
	0.30		0.92	0.82	0.72	0.64	0.53	0.45	0.39	0.31	0.26	
	0.20		0.79	0.72	0.64	0.58	0.49	0.42	0.37	0.30	0.25	
0.50	0.50	0.20	1.07	0.92	0.79	0.70	0.57	0.50	0.41	0.32	0.26	
	0.30		0.90	0.80	0.70	0.63	0.52	0.44	0.38	0.30	0.25	
	0.20		0.78	0.71	0.63	0.57	0.48	0.41	0.36	0.29	0.24	
0.30	0.50	0.20	1.04	0.89	0.76	0.67	0.54	0.46	0.39	0.31	0.25	
	0.30		0.88	0.78	0.68	0.61	0.50	0.43	0.37	0.29	0.24	
	0.20		0.77	0.70	0.62	0.56	0.47	0.40	0.35	0.28	0.23	
0.00	0.00	0.00	0.68	0.61	0.53	0.48	0.40	0.34	0.29	0.23	0.19	
Rating:62W 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 = 1.50									
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	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.23	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	
0.50	0.50	0.20	0.17	0.19	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.07	0.09	0.11	0.12	0.13	0.15	0.16	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	
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:62W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												