

Report No.:

Test Time: 08.06.2020 17:26

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 5000K 60гр. диод 3Т матовое стекло DALI

Luminous Length (mm): 316

Luminous Width (mm): 316

Luminous Height (mm): 132

Voltage: 221.2 V

Current: 0.695 A

Power: 151.97 W

Power Factor: 0.987

## Photometric Results

CIE Class: Direct

Measurement Flux: 19911.8 lm

Total Rated Lamp Lumens: 19911.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.0, 122.6, 121.6, 121.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 64.6, 65.3, 65.3, 65.2

Luminaire Efficacy Rating (LER): 131.07

Central Intensity: 14387.33 cd

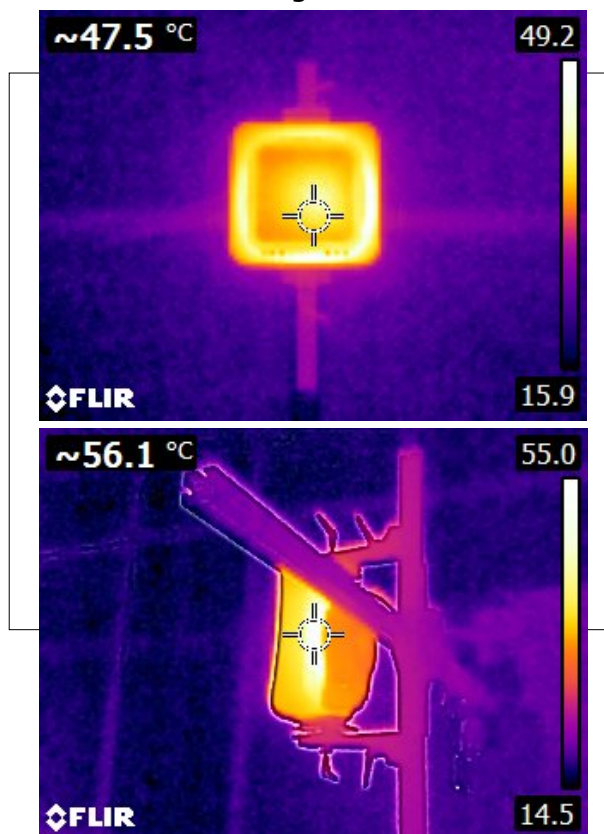
Max. Intensity: 14390.29 cd

Pos of Max. Intensity: H45 V0

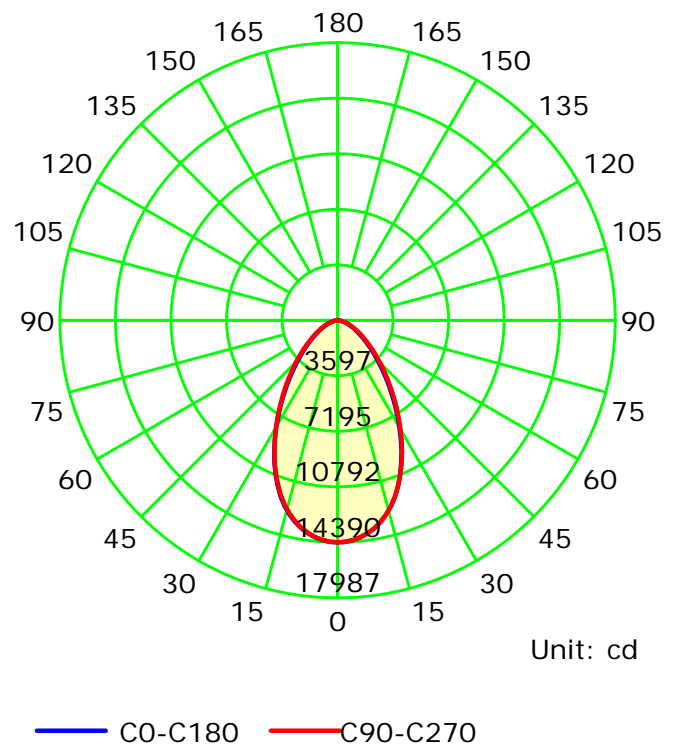
S/MH(C0/C180): 0.94

S/MH(C90/C270): 0.94

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

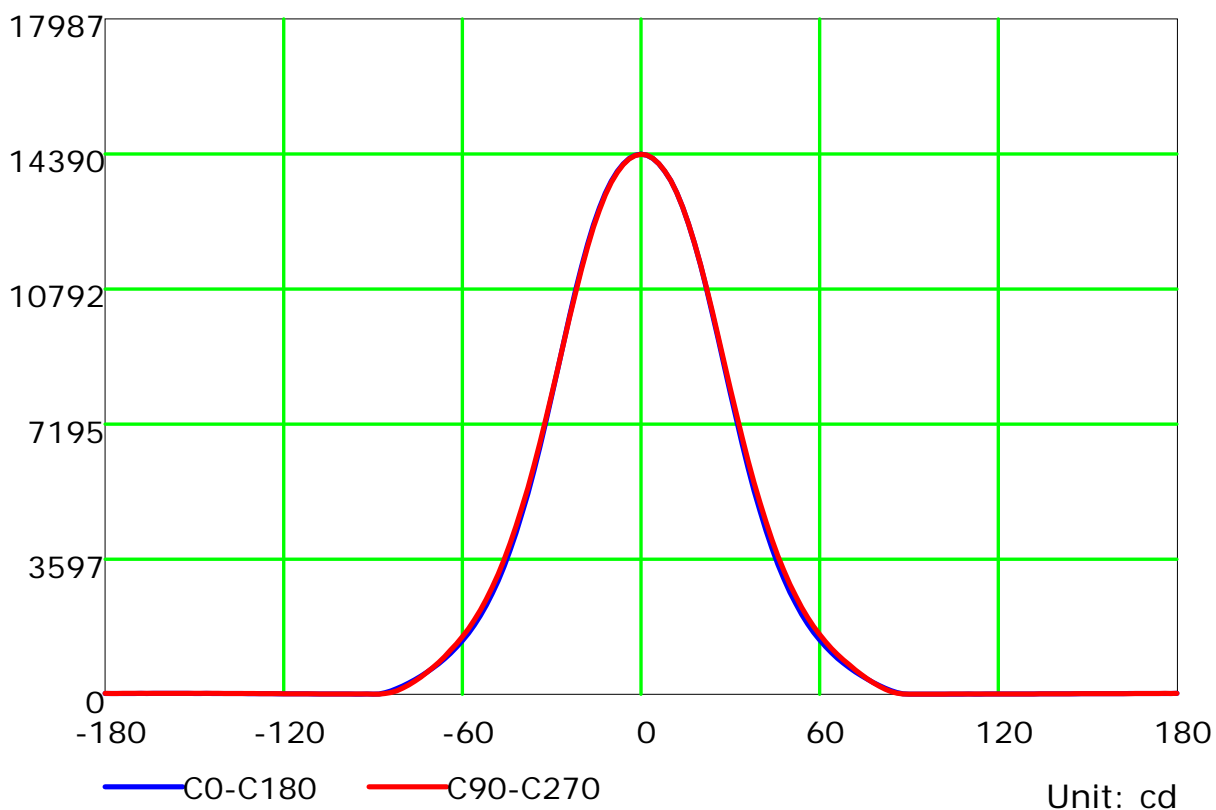
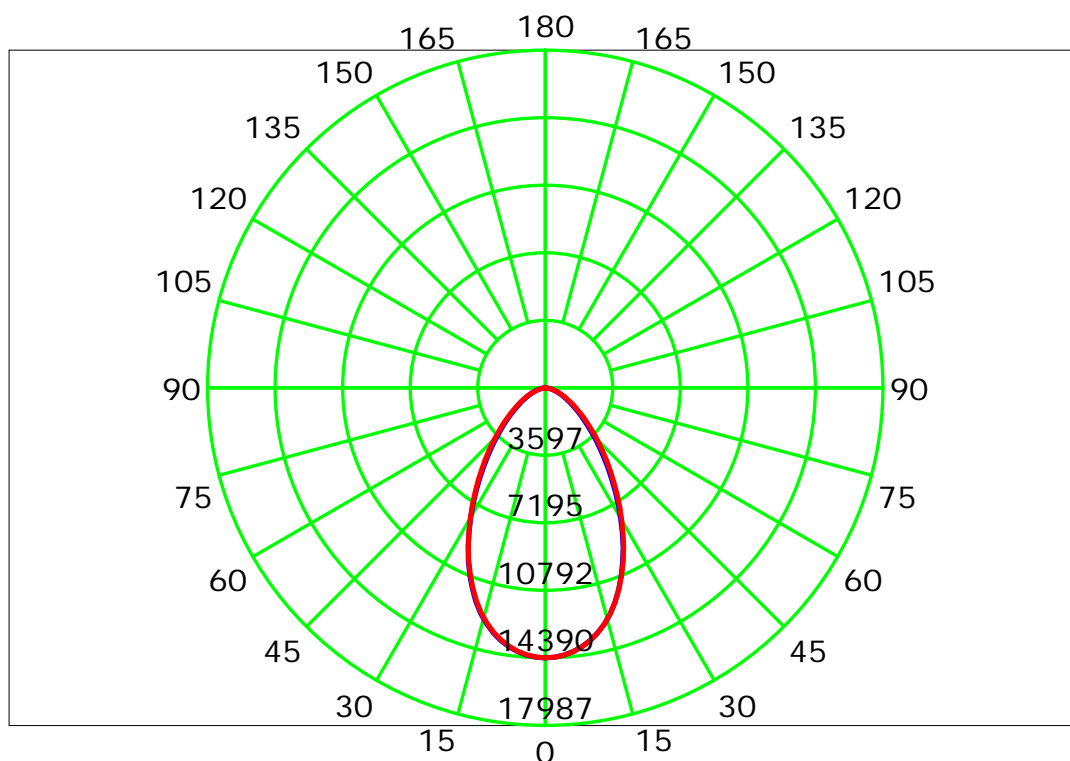
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



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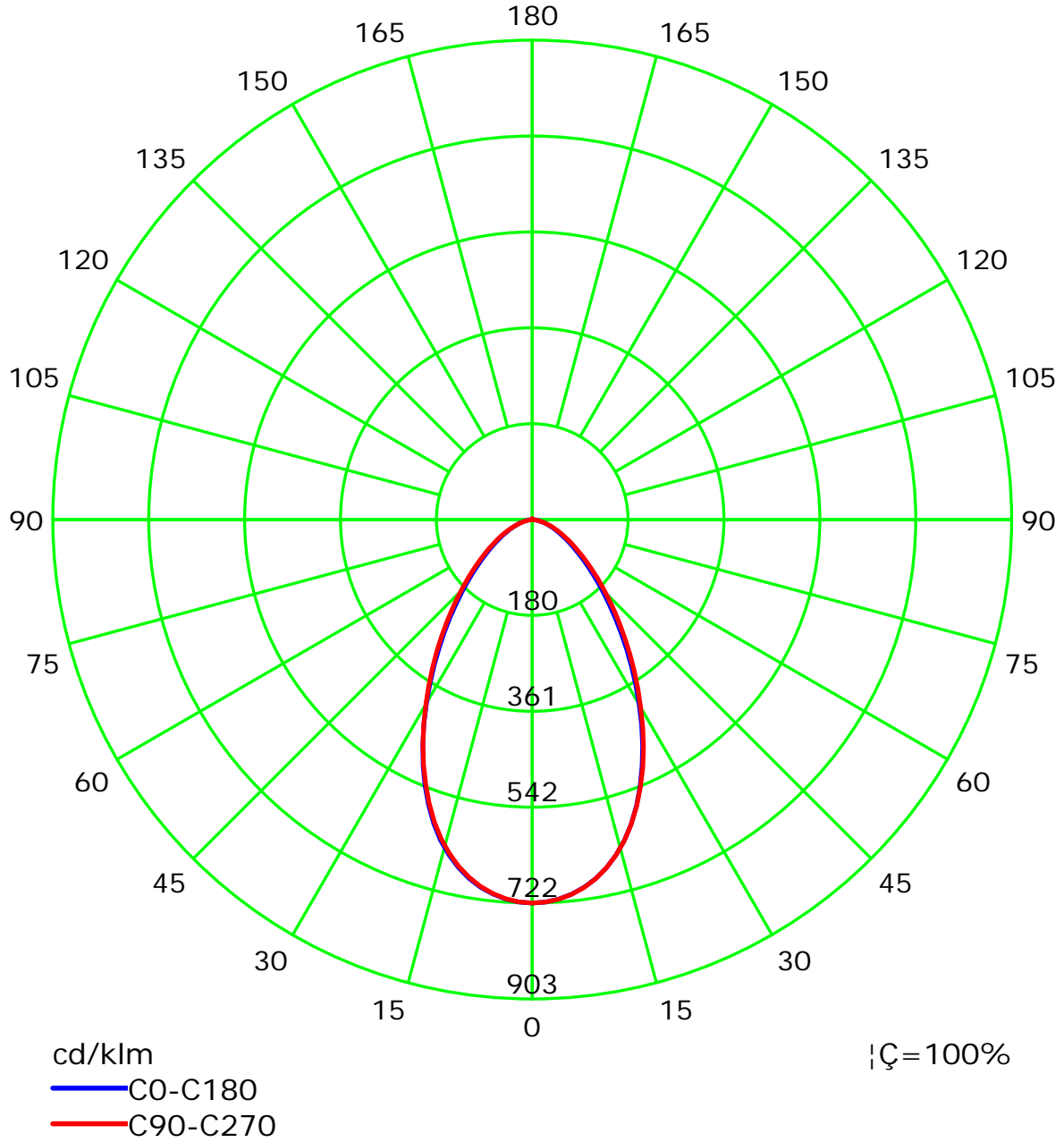
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

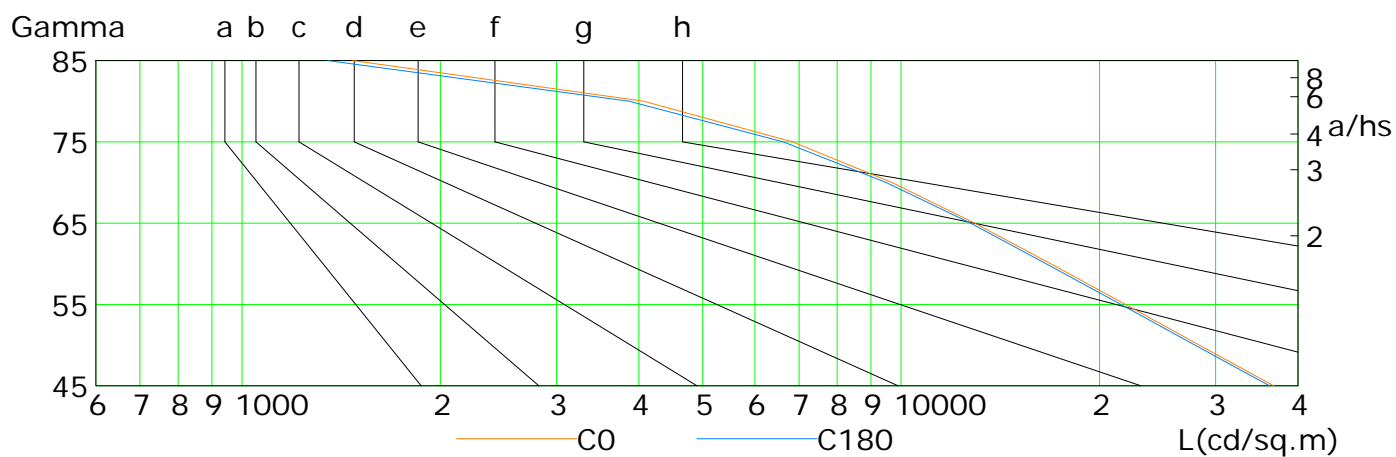
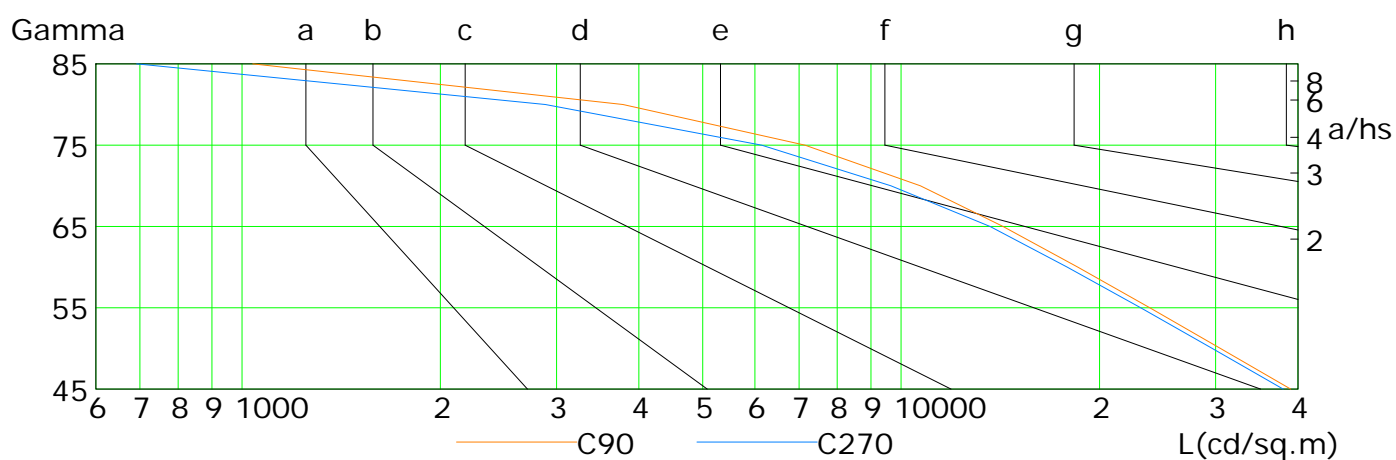
## Luminous Intensity Distribution Curve(cd/klm)



## 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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	36756	28331	21898	16874	12932	9685	6837	4067	1472
C90	38994	30502	23838	18532	14277	10698	7149	3784	1038
C180	36217	27914	21559	16600	12748	9492	6623	3865	1349
C270	37986	29643	23090	17868	13640	9653	6142	2886	692

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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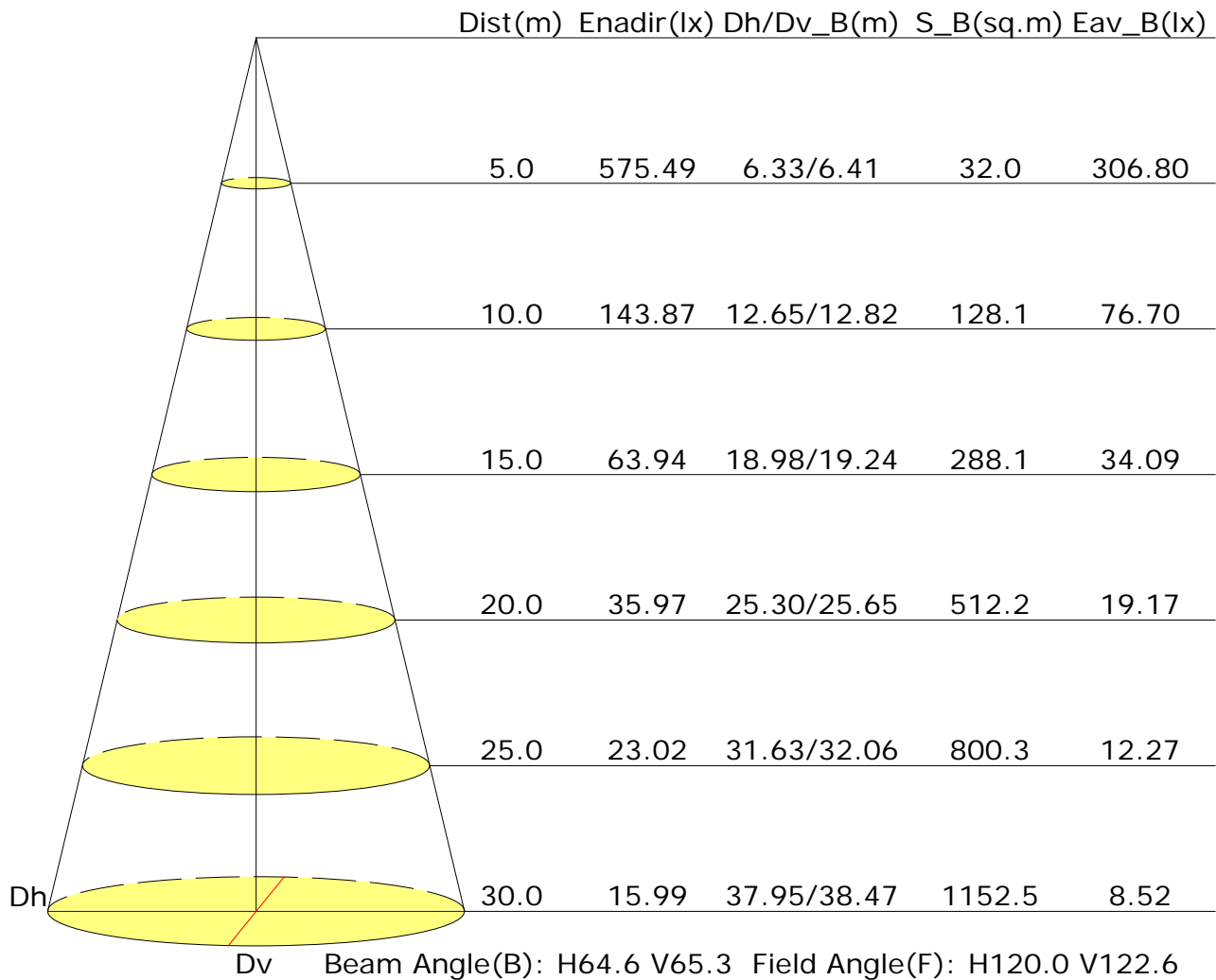
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## 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: 12.677 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	22.1	23.2	22.3	23.4	23.6	22.3	23.4	22.6	23.6	23.9
3H	22.5	23.5	22.8	23.8	24.0	22.8	23.8	23.1	24.0	24.3
4H	22.6	23.6	23.0	23.9	24.2	22.9	23.8	23.2	24.1	24.4
6H	22.7	23.5	23.0	23.9	24.2	22.9	23.8	23.3	24.1	24.4
8H	22.7	23.5	23.0	23.8	24.1	22.9	23.7	23.2	24.0	24.4
12H	22.6	23.4	23.0	23.8	24.1	22.8	23.6	23.2	24.0	24.3
X=4H Y=2H	22.3	23.2	22.6	23.5	23.8	22.5	23.4	22.8	23.7	24.0
3H	22.8	23.6	23.2	24.0	24.3	23.1	23.9	23.4	24.2	24.5
4H	23.0	23.7	23.4	24.1	24.5	23.2	24.0	23.6	24.3	24.7
6H	23.1	23.7	23.5	24.1	24.5	23.3	23.9	23.7	24.3	24.7
8H	23.1	23.7	23.5	24.1	24.5	23.3	23.8	23.7	24.2	24.7
12H	23.1	23.6	23.5	24.0	24.5	23.2	23.8	23.7	24.2	24.6
X=8H Y=4H	23.0	23.6	23.5	24.0	24.4	23.2	23.8	23.7	24.2	24.6
6H	23.2	23.6	23.6	24.1	24.5	23.3	23.8	23.8	24.2	24.7
8H	23.2	23.6	23.7	24.0	24.5	23.3	23.7	23.8	24.2	24.7
12H	23.2	23.5	23.7	24.0	24.5	23.3	23.6	23.8	24.1	24.6
X=12H Y=4H	23.0	23.5	23.4	23.9	24.4	23.2	23.7	23.7	24.2	24.6
6H	23.1	23.5	23.6	24.0	24.5	23.3	23.7	23.8	24.2	24.7
8H	23.2	23.5	23.6	24.0	24.5	23.3	23.6	23.8	24.1	24.6
Variations with the observer position at spacings:										
S=1.0H	+0.6/-1.0					+0.5/-0.9				
S=1.5H	+1.6/-1.9					+1.5/-1.8				
S=2.0H	+2.8/-2.9					+2.7/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 19912Im ( $8\log(F/F_0) = 10.4$ ).

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 = 1.00									
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	0.70	0.79	0.85	0.89	0.95	0.99	1.02	1.05	1.07	
	0.30		0.64	0.73	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.20		0.59	0.69	0.75	0.80	0.87	0.91	0.95	0.99	1.02	
0.50	0.50	0.20	0.69	0.77	0.83	0.87	0.92	0.96	0.98	1.01	1.03	
	0.30		0.63	0.72	0.78	0.82	0.88	0.92	0.95	0.99	1.01	
	0.20		0.59	0.68	0.74	0.79	0.85	0.89	0.92	0.97	0.99	
0.30	0.50	0.20	0.67	0.76	0.81	0.84	0.89	0.93	0.95	0.98	0.99	
	0.30		0.62	0.71	0.77	0.81	0.86	0.90	0.92	0.96	0.98	
	0.20		0.59	0.67	0.73	0.77	0.83	0.87	0.90	0.94	0.96	
0.00	0.00	0.00	0.57	0.65	0.71	0.75	0.80	0.84	0.86	0.89	0.91	
Rating: 152W 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	0.79	0.64	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.57	0.48	0.42	0.37	0.30	0.26	0.22	0.17	0.15	
0.50	0.50	0.20	0.76	0.61	0.51	0.44	0.35	0.32	0.24	0.18	0.15	
	0.30		0.64	0.53	0.45	0.40	0.32	0.26	0.23	0.17	0.14	
	0.20		0.56	0.47	0.41	0.36	0.29	0.24	0.21	0.17	0.14	
0.30	0.50	0.20	0.74	0.58	0.49	0.42	0.33	0.27	0.23	0.17	0.14	
	0.30		0.63	0.51	0.44	0.38	0.30	0.25	0.21	0.17	0.13	
	0.20		0.55	0.46	0.40	0.35	0.28	0.23	0.20	0.16	0.13	
0.00	0.00	0.00	0.43	0.35	0.29	0.25	0.20	0.16	0.14	0.11	0.09	
Rating: 152W 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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	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		0.06	0.08	0.09	0.10	0.13	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	0.20	0.21	
	0.30		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	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: 152W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												