

Report No.:

Test Time: 08.06.2020 21:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 3000K 90гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 23682.4 lm

Luminous Length (mm): 364 mm

Luminous Width (mm): 364 mm

Luminous Height (mm): 138 mm

Voltage: 220.5 V

Current: 0.905 A

Power: 197.72 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 23682.4 lm

Measurement Flux: 23682.4 lm

Efficiency: 100.00%

Downward Ratio: 99.61%

Upward Ratio: 0.39%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 145.5, 144.4, 145.5, 145.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 90.5, 90.8, 91.1, 90.1

Luminaire Efficacy Rating (LER): 119.83

Central Intensity: 10814.84 cd

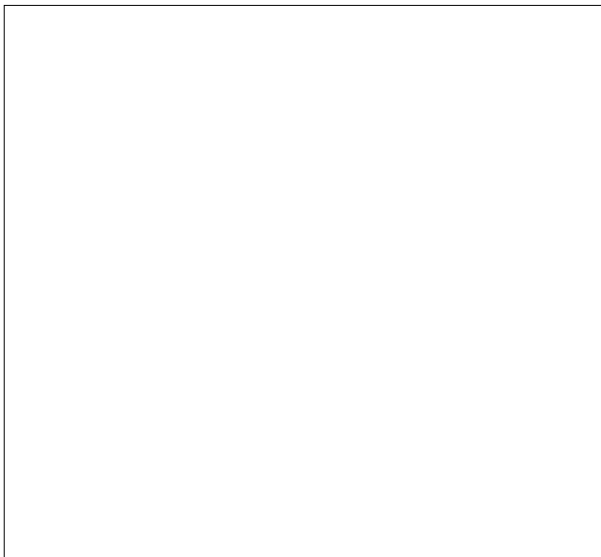
Max. Intensity: 10966.25 cd

Pos of Max. Intensity: H135 V10

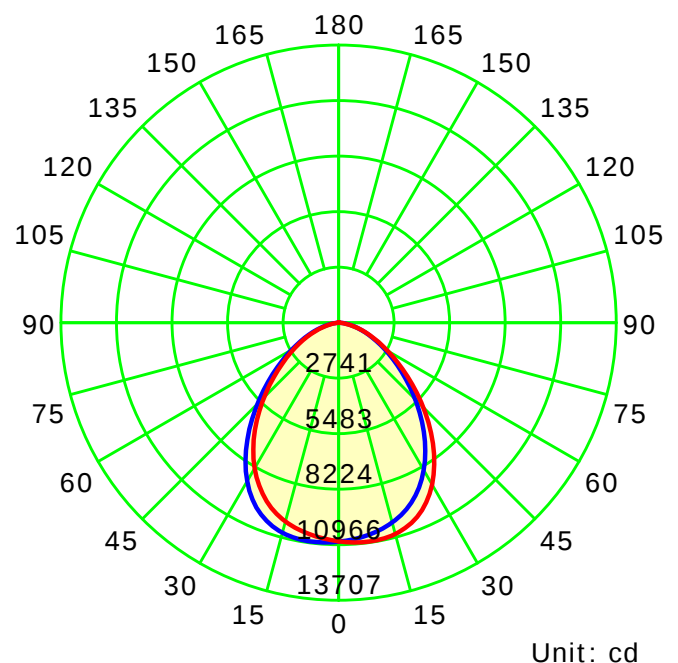
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.20

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

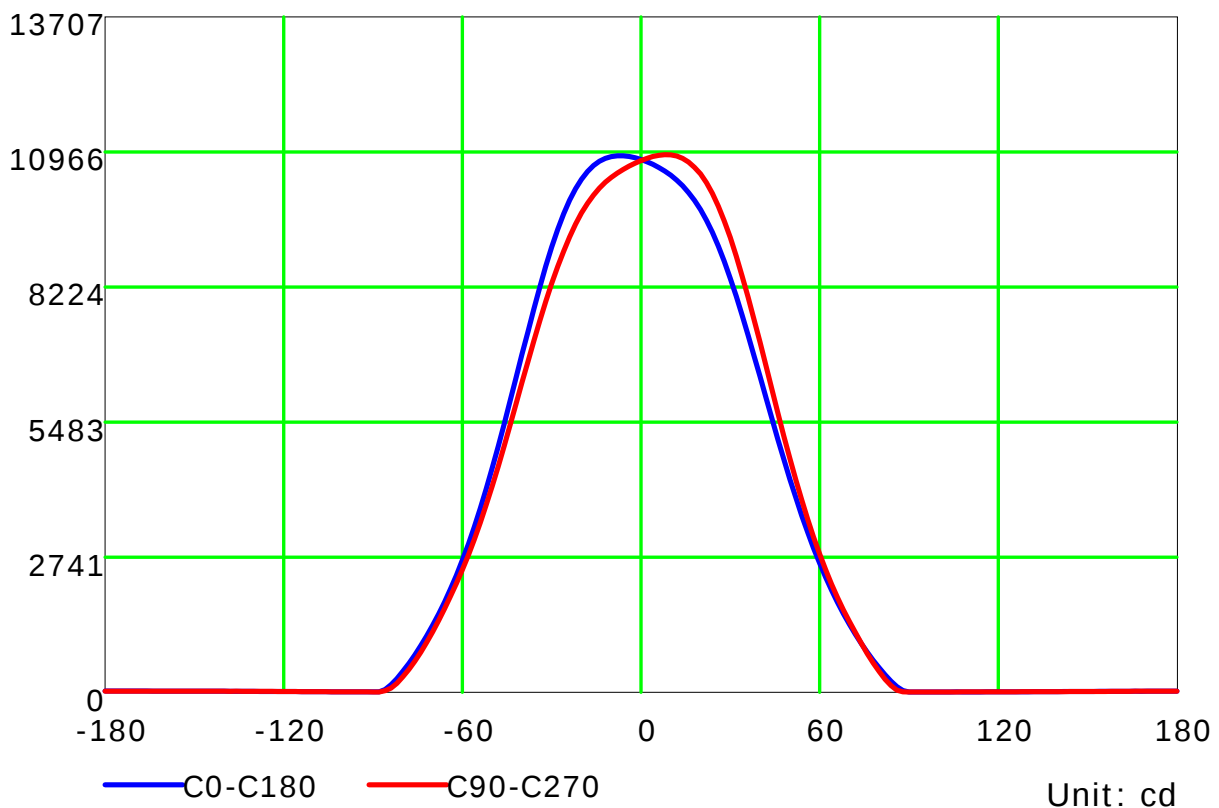
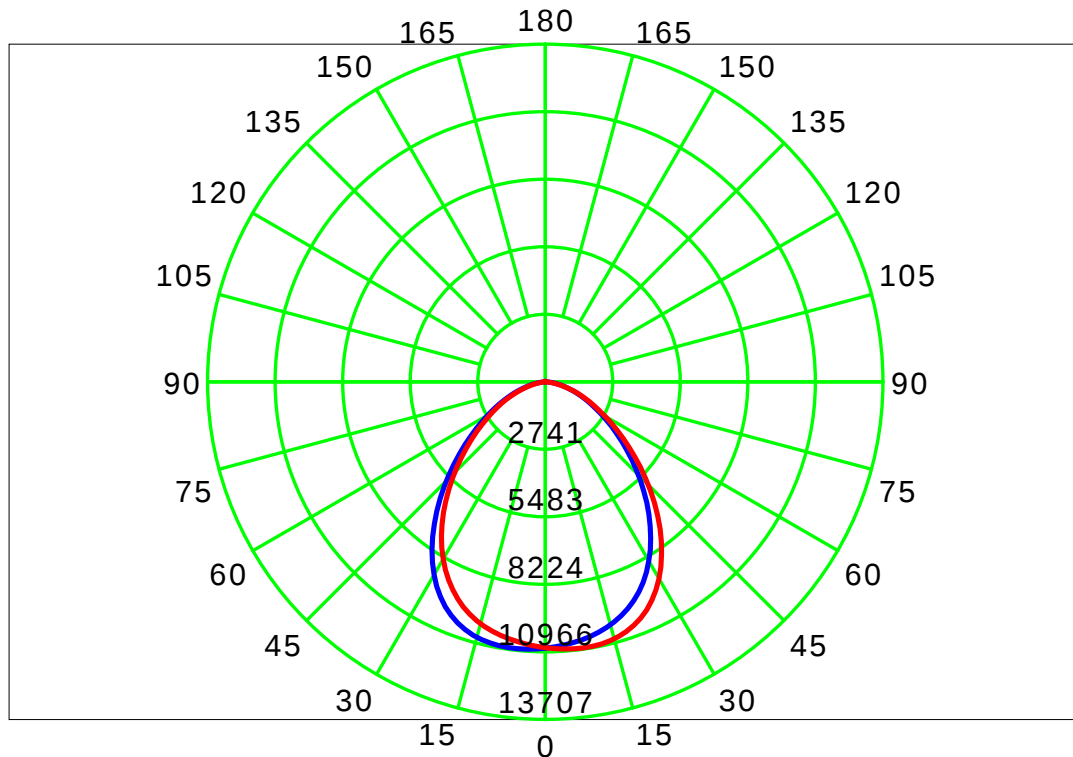
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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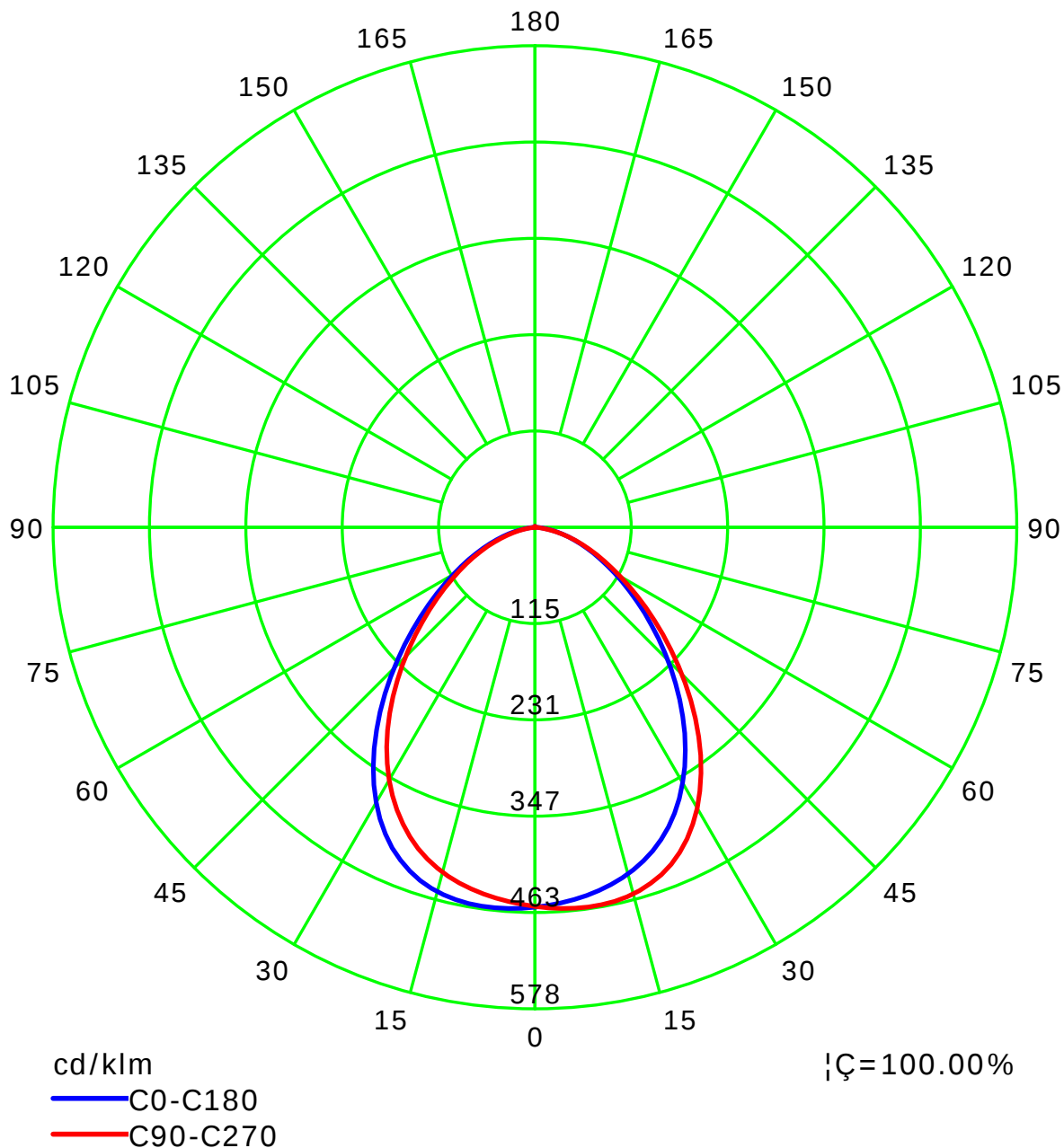
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

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Test Device: LSG-1800B

Distance: 12.677 m

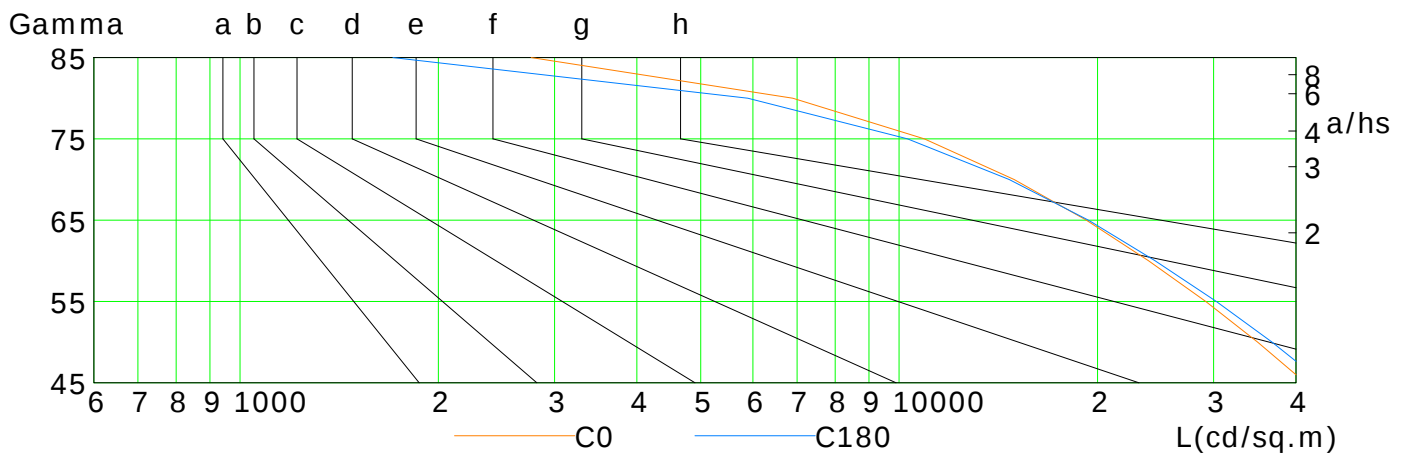
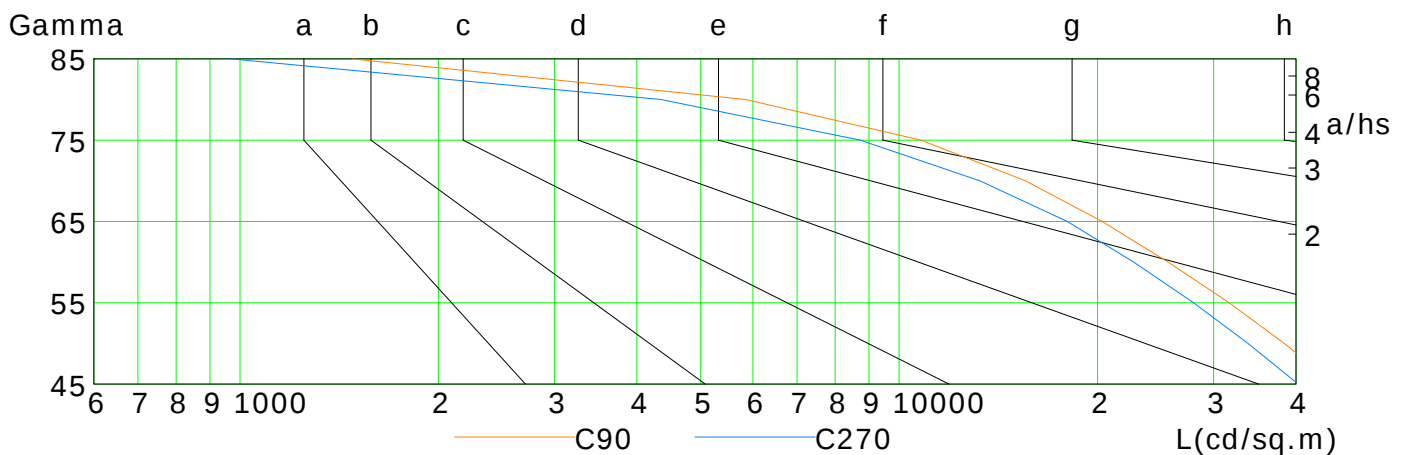
Humidity:

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	41371	34991	29189	23900	19234	14943	10918	6896	2765
C90	45725	38407	31673	25597	20323	15548	10794	5853	1479
C180	43941	36796	30283	24461	19374	14688	10298	5894	1706
C270	40324	33823	27976	22693	17996	13263	8731	4352	968

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

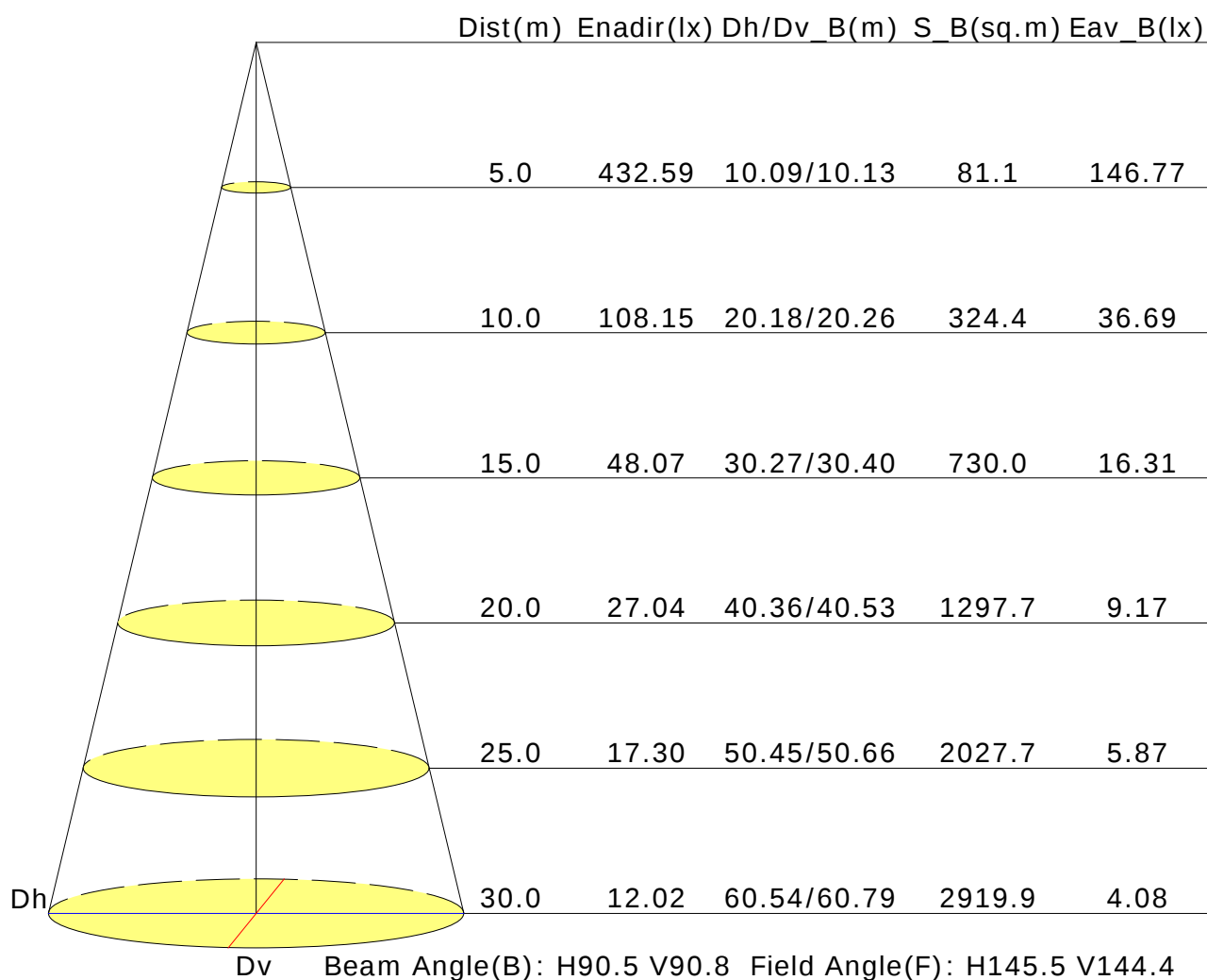
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	23.5	24.8	23.8	25.0	25.3	23.7	24.9	24.0	25.2	25.4
3H	24.3	25.4	24.6	25.7	25.9	24.4	25.5	24.7	25.8	26.1
4H	24.5	25.6	24.8	25.8	26.1	24.6	25.6	24.9	25.9	26.2
6H	24.6	25.6	25.0	25.9	26.2	24.6	25.6	25.0	25.9	26.2
8H	24.6	25.6	25.0	25.9	26.2	24.6	25.6	25.0	25.9	26.2
12H	24.6	25.5	25.0	25.8	26.2	24.6	25.5	25.0	25.8	26.2
X=4H Y=2H	23.8	24.9	24.2	25.2	25.5	24.0	25.0	24.3	25.3	25.6
3H	24.7	25.6	25.1	26.0	26.3	24.8	25.7	25.2	26.1	26.4
4H	25.0	25.8	25.4	26.2	26.6	25.1	25.9	25.5	26.2	26.6
6H	25.2	25.9	25.6	26.3	26.7	25.2	25.9	25.6	26.3	26.7
8H	25.2	25.9	25.7	26.3	26.7	25.2	25.8	25.6	26.2	26.7
12H	25.2	25.8	25.7	26.2	26.7	25.2	25.7	25.6	26.2	26.6
X=8H Y=4H	25.1	25.7	25.5	26.1	26.6	25.1	25.8	25.6	26.2	26.6
6H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.2	26.7
8H	25.4	25.8	25.9	26.3	26.8	25.3	25.8	25.8	26.2	26.7
12H	25.4	25.8	25.9	26.3	26.8	25.3	25.7	25.8	26.2	26.7
X=12H Y=4H	25.1	25.7	25.5	26.1	26.5	25.1	25.7	25.6	26.1	26.6
6H	25.3	25.8	25.8	26.2	26.7	25.3	25.7	25.8	26.2	26.7
8H	25.4	25.8	25.9	26.2	26.8	25.3	25.7	25.8	26.2	26.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.4/-0.5				
S=1.5H	+0.6/-1.1					+0.6/-1.3				
S=2.0H	+1.5/-2.0					+1.5/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 23682lm ($8\log(F/F_0) = 11.0$).

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Temperature:

Operator:

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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	0.64	0.74	0.81	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.53	0.63	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.79	0.83	0.89	0.93	0.96	0.99	1.02	
	0.30		0.57	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99	
	0.20		0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.70	0.76	0.81	0.86	0.90	0.92	0.96	0.98	
	0.30		0.56	0.65	0.72	0.76	0.83	0.87	0.90	0.93	0.96	
	0.20		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.50	0.59	0.65	0.70	0.76	0.80	0.83	0.87	0.89	
Rating:198W 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	0.88	0.71	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.84	0.68	0.57	0.49	0.39	0.35	0.27	0.21	0.17	
	0.30		0.71	0.59	0.51	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.62	0.52	0.45	0.40	0.33	0.27	0.24	0.19	0.15	
0.30	0.50	0.20	0.82	0.65	0.55	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.58	0.49	0.43	0.34	0.28	0.24	0.19	0.15	
	0.20		0.61	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.50	0.41	0.34	0.30	0.24	0.20	0.17	0.13	0.10	
Rating:198W 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	0.15	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	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	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	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	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:198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												