

Report No.:

Test Time: 12.03.2020 16:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x24LED 0,3A 32W 5000K закаленное стекло матовое IP65 N

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 230.1 V

Current: 0.146 A

Power: 32.45 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3745.8 lm

Measurement Flux: 3745.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.9, 143.4, 147.0, 147.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.0, 95.1, 98.0, 98.0

Luminaire Efficacy Rating (LER): 115.48

Central Intensity: 1588.26 cd

Max. Intensity: 1589.21 cd

Pos of Max. Intensity: H22.5 V0

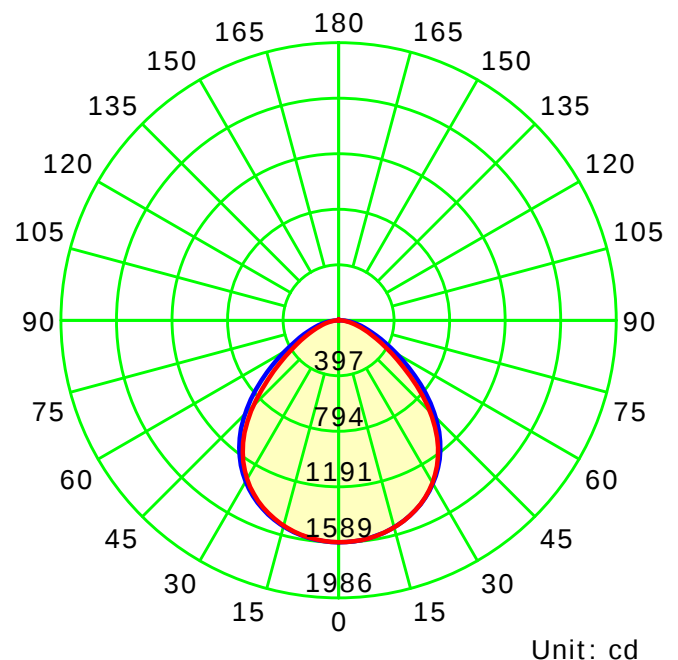
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

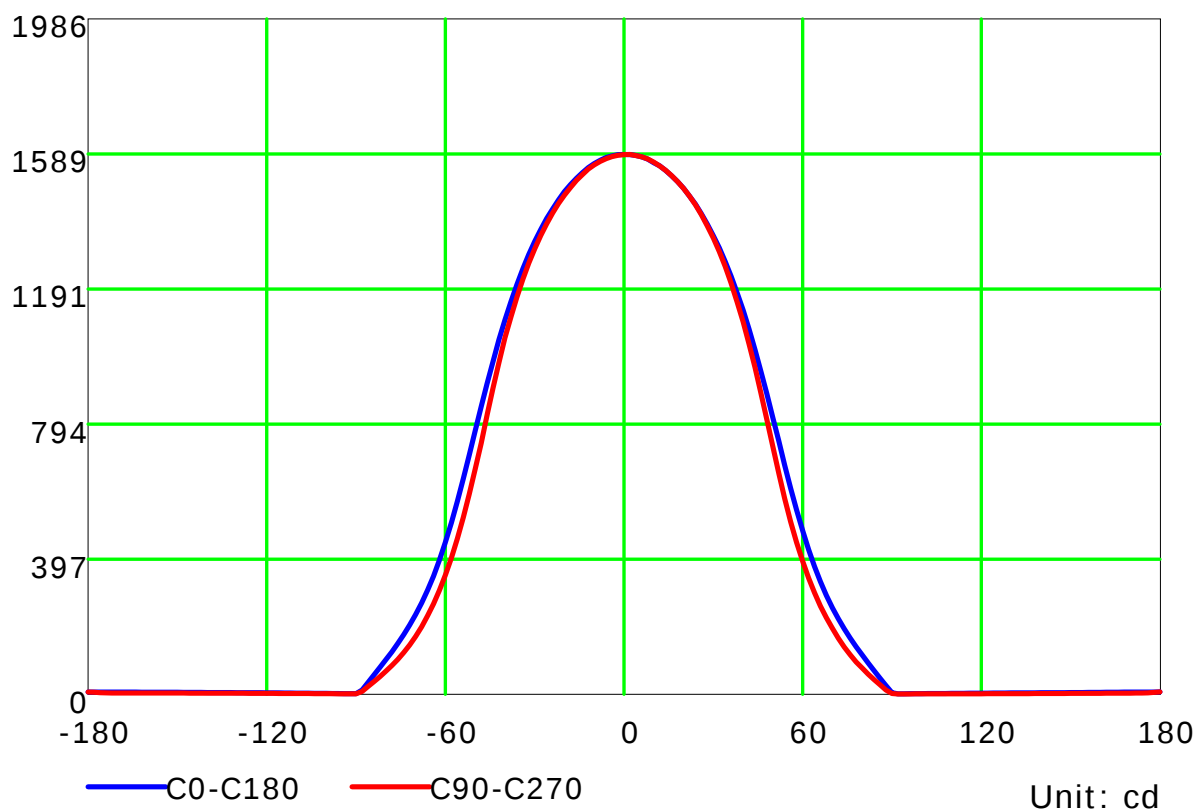
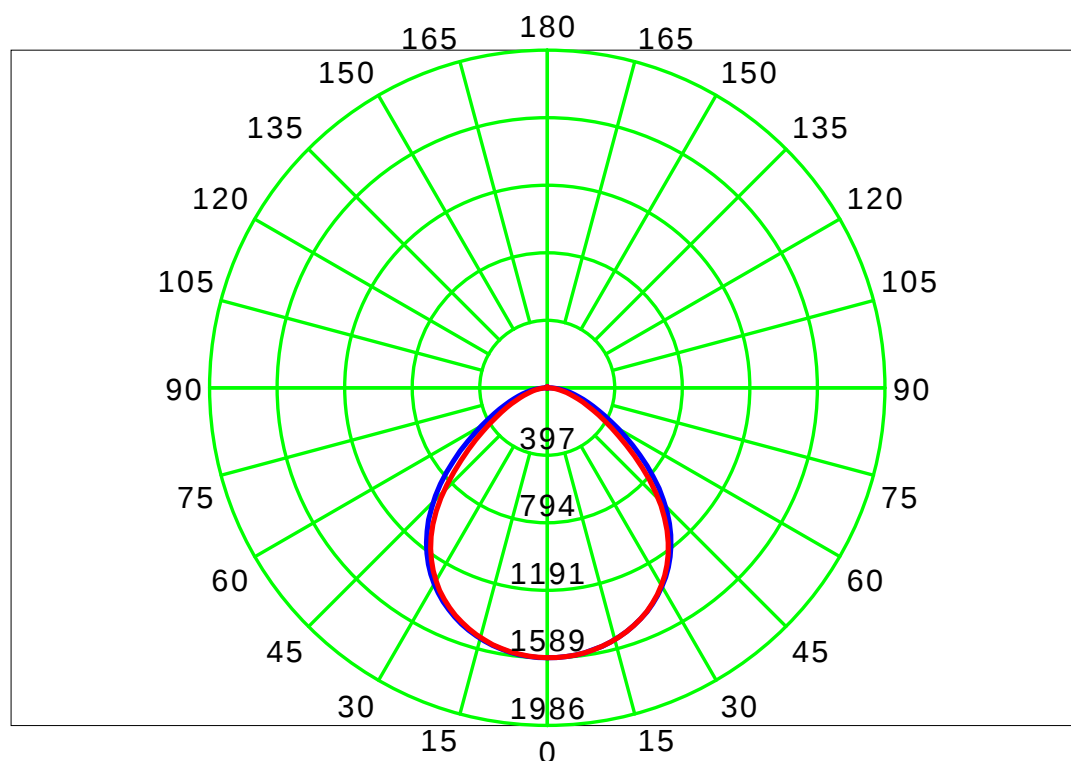
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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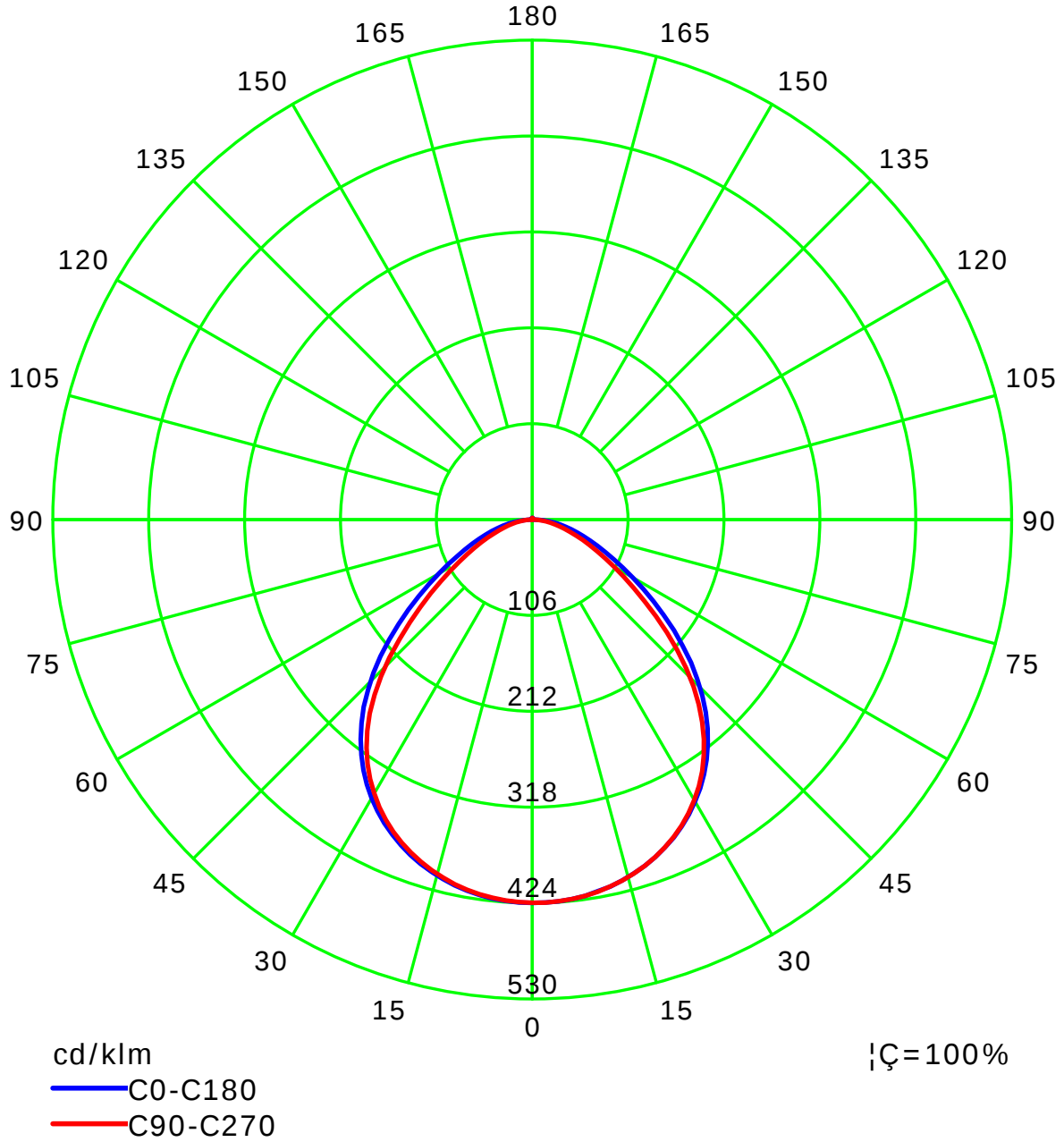
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1800B

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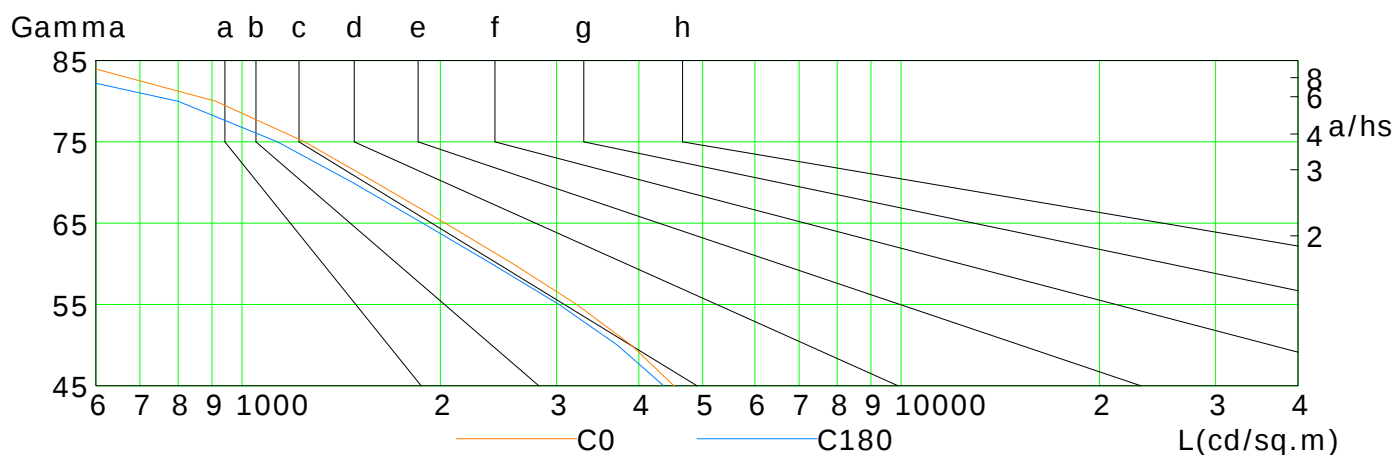
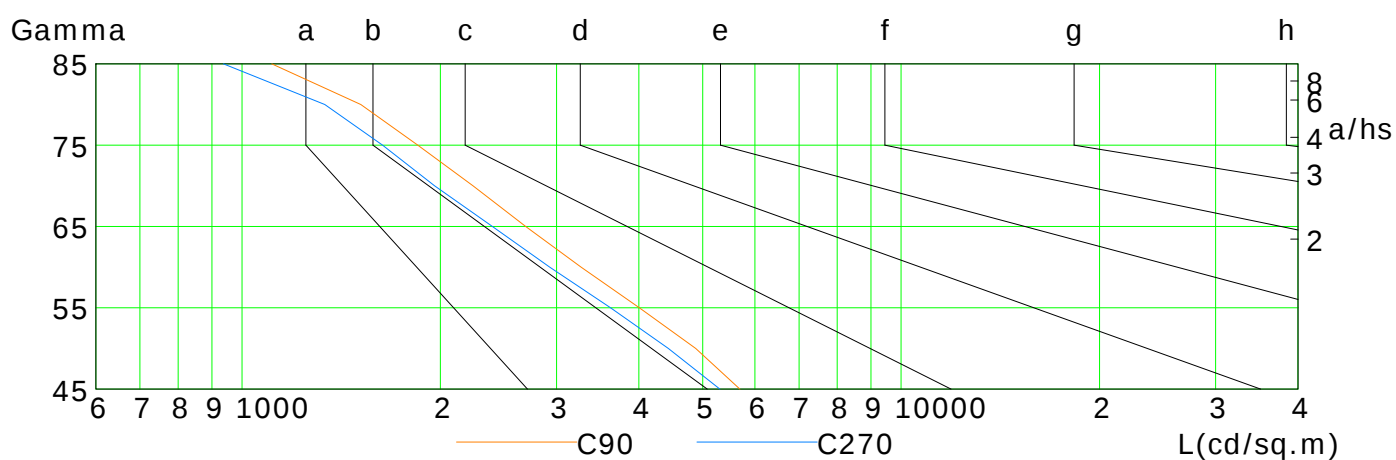
Humidity:

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	4522	3896	3221	2577	2034	1595	1244	912	537
C90	5693	4879	4007	3269	2693	2241	1847	1515	1109
C180	4361	3712	3026	2392	1881	1472	1132	799	419
C270	5309	4434	3623	2930	2398	1959	1634	1335	937

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

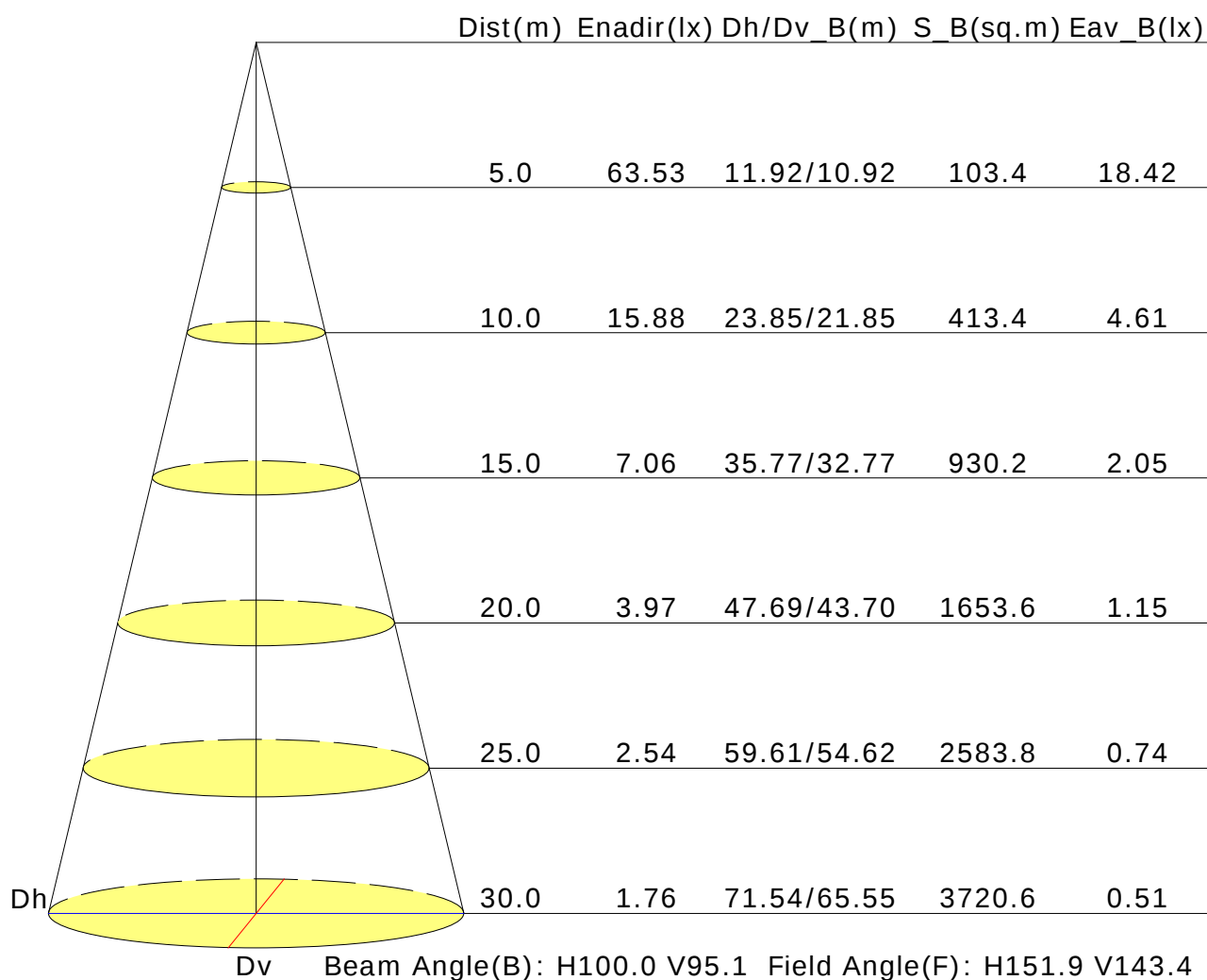
Test Device: LSG-1800B

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	16.5	17.8	16.8	18.0	18.2	16.4	17.6	16.7	17.9	18.1
3H	17.2	18.4	17.5	18.6	18.9	17.0	18.2	17.3	18.4	18.7
4H	17.5	18.5	17.8	18.8	19.1	17.3	18.3	17.6	18.6	18.9
6H	17.6	18.6	18.0	18.9	19.3	17.4	18.4	17.8	18.7	19.1
8H	17.7	18.6	18.0	19.0	19.3	17.5	18.4	17.8	18.7	19.1
12H	17.7	18.6	18.1	18.9	19.3	17.5	18.4	17.9	18.7	19.1
X=4H Y=2H	16.8	17.8	17.1	18.1	18.4	16.7	17.7	17.0	18.0	18.3
3H	17.6	18.6	18.0	18.9	19.2	17.5	18.4	17.8	18.7	19.1
4H	18.0	18.8	18.4	19.2	19.6	17.8	18.6	18.2	18.9	19.3
6H	18.2	19.0	18.7	19.4	19.8	18.0	18.7	18.4	19.1	19.5
8H	18.3	19.0	18.8	19.4	19.8	18.1	18.7	18.5	19.1	19.6
12H	18.4	19.0	18.8	19.4	19.8	18.1	18.7	18.6	19.1	19.6
X=8H Y=4H	18.1	18.7	18.5	19.1	19.6	17.8	18.5	18.3	18.9	19.3
6H	18.4	18.9	18.9	19.4	19.8	18.1	18.7	18.6	19.1	19.6
8H	18.5	19.0	19.0	19.4	19.9	18.3	18.7	18.7	19.2	19.7
12H	18.6	19.0	19.1	19.5	20.0	18.3	18.8	18.8	19.2	19.7
X=12H Y=4H	18.0	18.6	18.5	19.1	19.5	17.8	18.4	18.3	18.9	19.3
6H	18.4	18.9	18.9	19.3	19.8	18.2	18.6	18.6	19.1	19.6
8H	18.5	18.9	19.0	19.4	19.9	18.3	18.7	18.8	19.2	19.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.6				
S=1.5H	+0.6/-1.2					+0.7/-1.3				
S=2.0H	+1.4/-1.9					+1.7/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3746lm ($8\log(F/F_0) = 4.6$).

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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	0.63	0.73	0.80	0.85	0.91	0.96	0.99	1.03	1.05	
	0.30		0.56	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.20		0.50	0.61	0.68	0.74	0.81	0.87	0.91	0.96	0.99	
0.50	0.50	0.20	0.61	0.71	0.77	0.82	0.88	0.92	0.95	0.99	1.01	
	0.30		0.55	0.65	0.72	0.77	0.84	0.88	0.91	0.96	0.98	
	0.20		0.50	0.60	0.67	0.72	0.80	0.85	0.88	0.93	0.96	
0.30	0.50	0.20	0.60	0.69	0.75	0.79	0.85	0.89	0.92	0.95	0.97	
	0.30		0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.86	0.90	0.93	
0.00	0.00	0.00	0.48	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.88	
Rating:32W 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	0.91	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.87	0.70	0.59	0.51	0.40	0.37	0.28	0.22	0.18	
	0.30		0.74	0.61	0.52	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		0.64	0.54	0.47	0.41	0.34	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.84	0.67	0.57	0.49	0.38	0.32	0.27	0.21	0.17	
	0.30		0.72	0.59	0.51	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.63	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.52	0.43	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
Rating:32W 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	0.22	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	0.16	0.18	
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	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	0.14	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	0.17	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:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												