

Report No.:

Test Time: 12.03.2020 16:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x40LED 0,35A 44W 5000K закаленное стекло матовое IP65 N

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 76

Voltage: 230.0 V

Current: 0.200 A

Power: 44.45 W

Power Factor: 0.965

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5160.9 lm

Measurement Flux: 5160.9 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): 116.16

Central Intensity: 2188.27 cd

Max. Intensity: 2189.59 cd

Pos of Max. Intensity: H22.5 V0

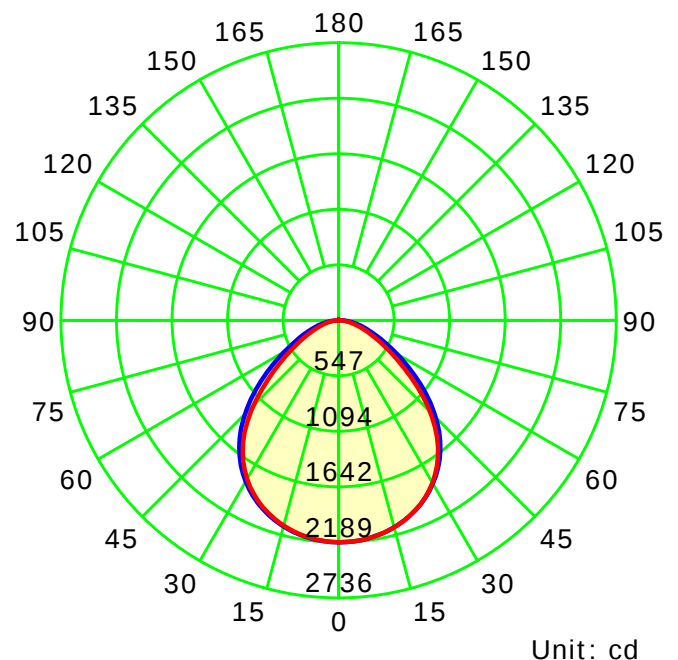
S/MH(C0/C180): 1.25

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

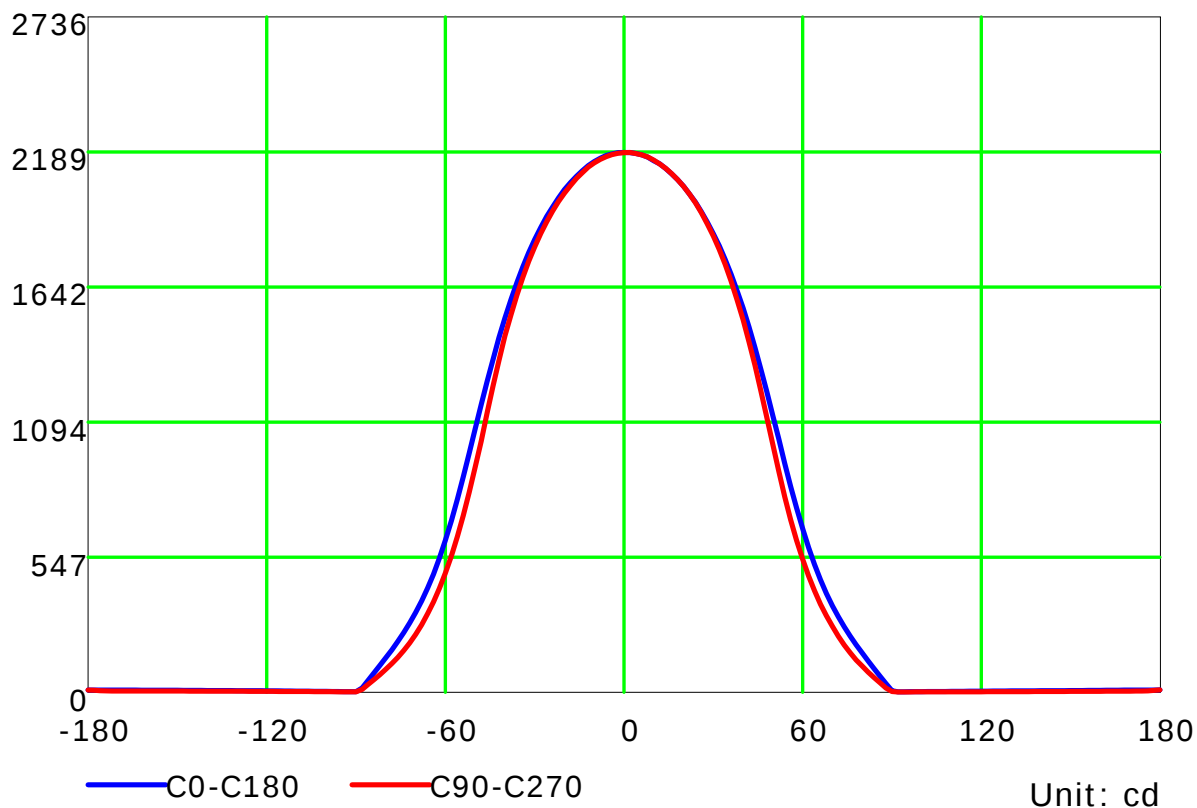
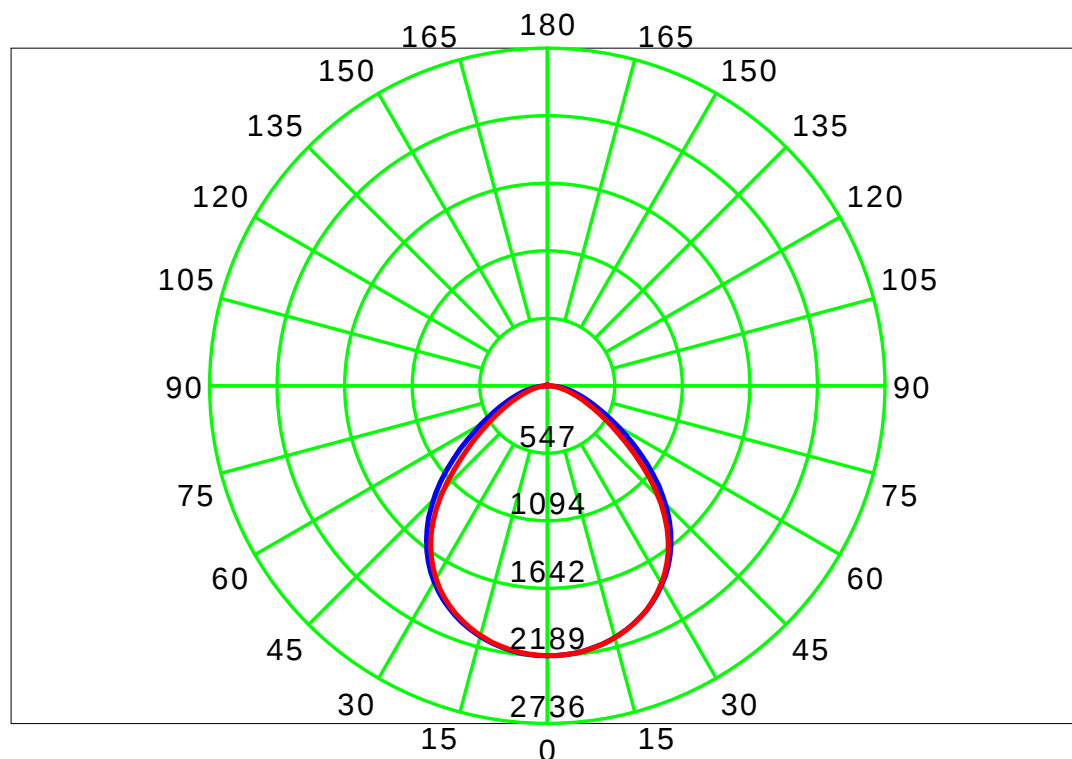
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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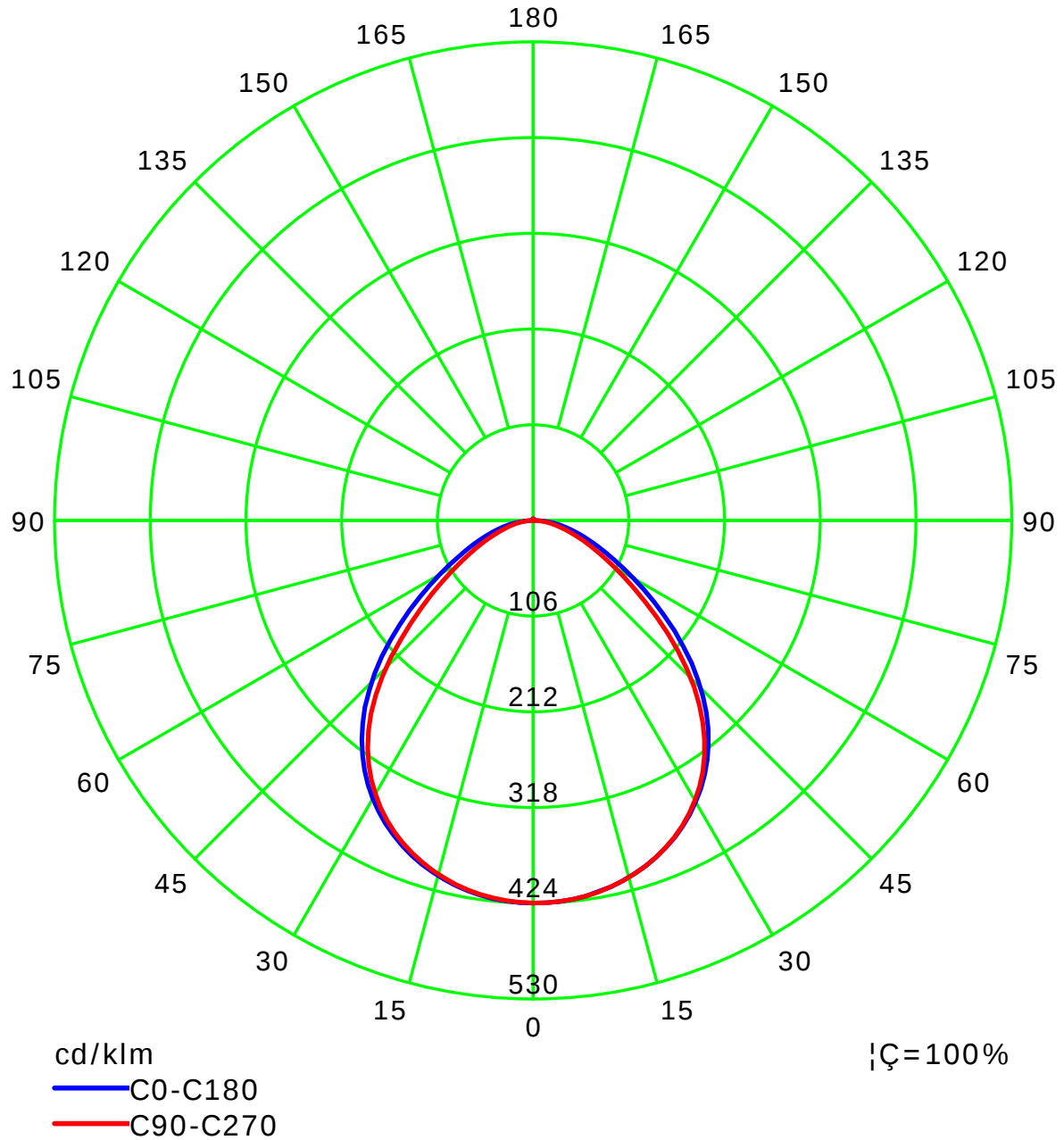
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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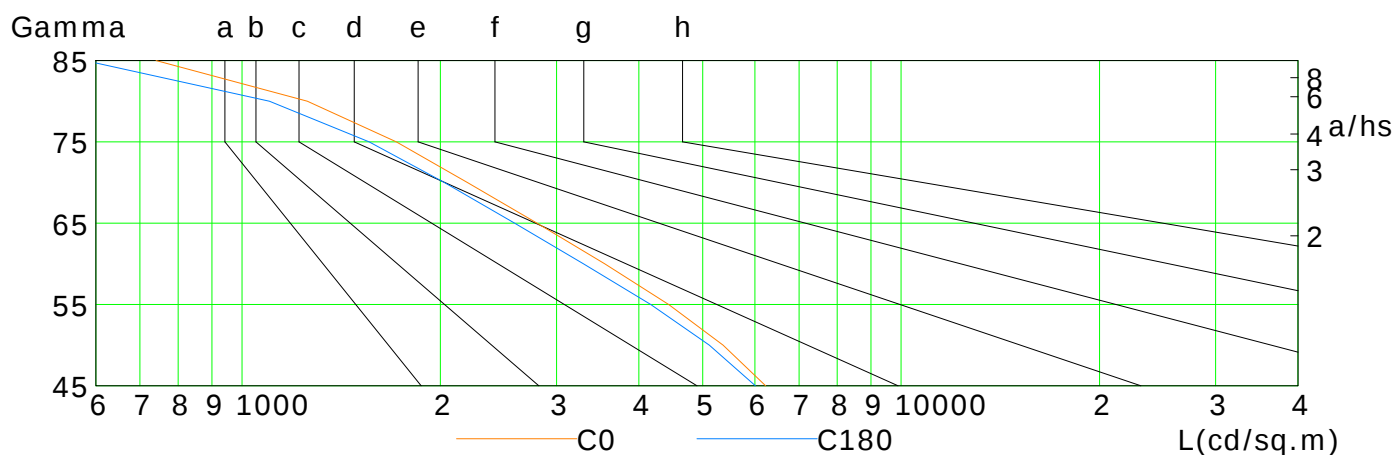
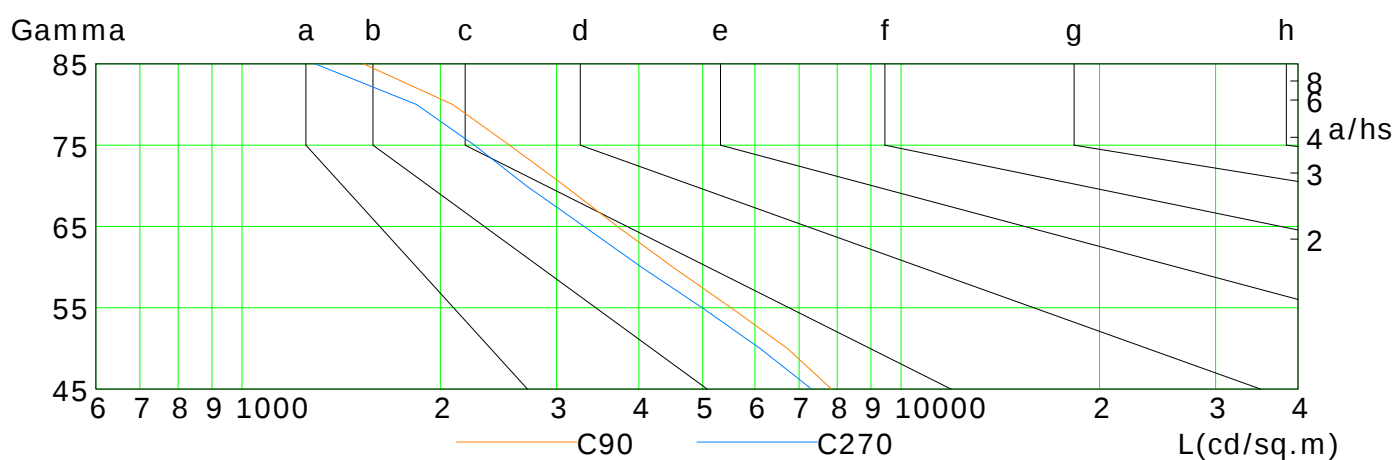
Humidity:

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	6230	5368	4437	3551	2802	2198	1714	1256	740
C90	7843	6722	5521	4504	3711	3087	2545	2087	1529
C180	6009	5115	4170	3296	2591	2028	1559	1101	577
C270	7314	6109	4992	4037	3304	2700	2252	1839	1292

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

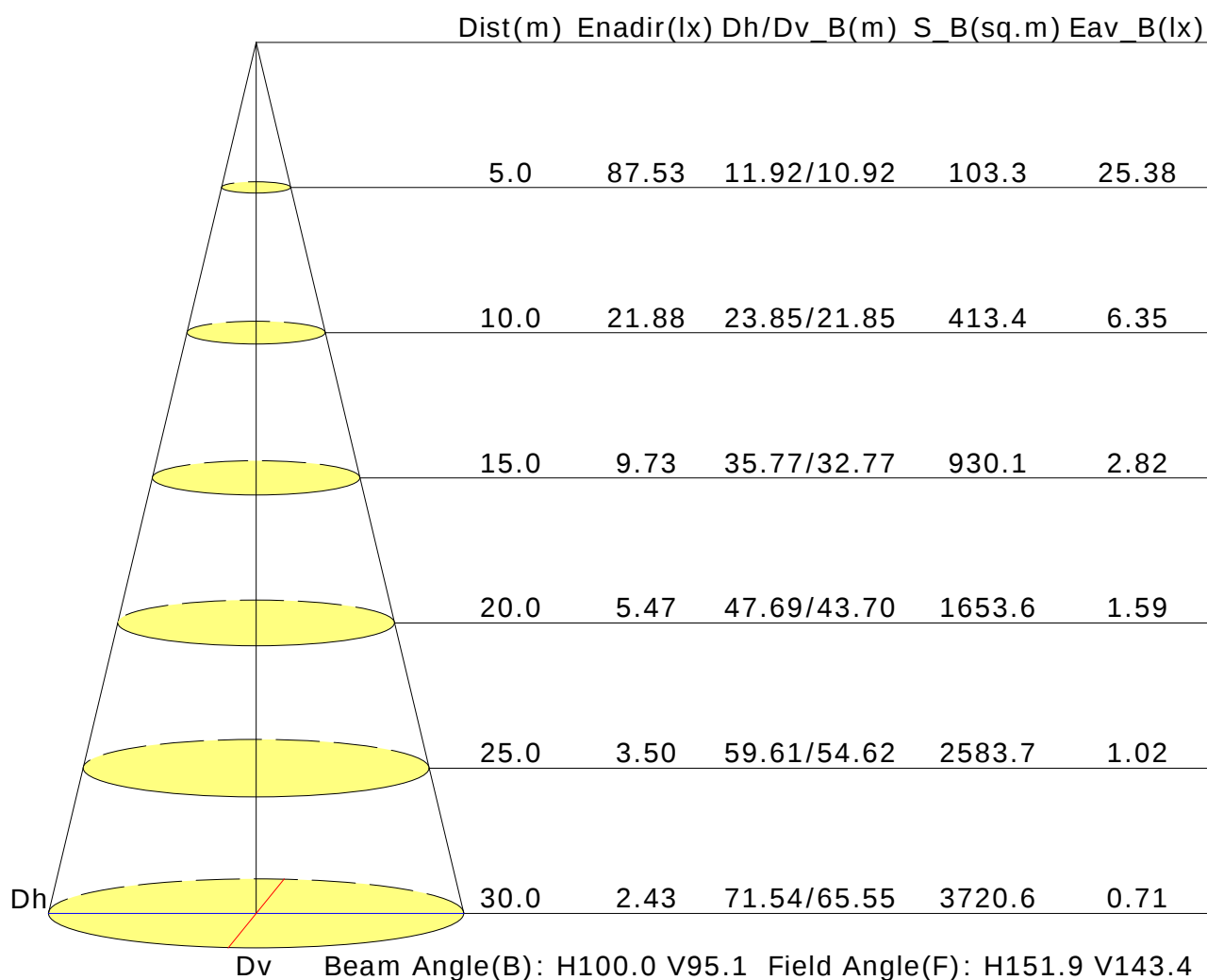
Test Device: LSG-1800B

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	17.6	18.9	17.9	19.1	19.4	17.5	18.8	17.8	19.0	19.2
3H	18.3	19.5	18.6	19.7	20.0	18.1	19.3	18.5	19.6	19.8
4H	18.6	19.7	18.9	19.9	20.2	18.4	19.4	18.7	19.7	20.0
6H	18.7	19.7	19.1	20.1	20.4	18.5	19.5	18.9	19.8	20.2
8H	18.8	19.8	19.2	20.1	20.4	18.6	19.5	18.9	19.9	20.2
12H	18.8	19.7	19.2	20.1	20.4	18.6	19.5	19.0	19.8	20.2
X=4H Y=2H	17.9	19.0	18.2	19.2	19.5	17.8	18.9	18.1	19.2	19.5
3H	18.7	19.7	19.1	20.0	20.4	18.6	19.5	18.9	19.8	20.2
4H	19.1	19.9	19.5	20.3	20.7	18.9	19.7	19.3	20.1	20.4
6H	19.4	20.1	19.8	20.5	20.9	19.1	19.8	19.5	20.2	20.6
8H	19.4	20.1	19.9	20.5	20.9	19.2	19.9	19.6	20.3	20.7
12H	19.5	20.1	19.9	20.5	21.0	19.2	19.8	19.7	20.3	20.7
X=8H Y=4H	19.2	19.8	19.6	20.2	20.7	19.0	19.6	19.4	20.0	20.5
6H	19.5	20.0	20.0	20.5	21.0	19.3	19.8	19.7	20.2	20.7
8H	19.6	20.1	20.1	20.6	21.0	19.4	19.8	19.9	20.3	20.8
12H	19.7	20.1	20.2	20.6	21.1	19.5	19.9	20.0	20.3	20.9
X=12H Y=4H	19.2	19.8	19.6	20.2	20.6	18.9	19.5	19.4	20.0	20.4
6H	19.5	20.0	20.0	20.4	20.9	19.3	19.7	19.8	20.2	20.7
8H	19.6	20.0	20.1	20.5	21.0	19.4	19.8	19.9	20.3	20.8
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 5161lm ($8\log(F/F_0) = 5.7$).

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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:44W 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:44W 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:44W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												