

Report No.:

Test Time: 16.10.2020 12:33

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 180 40LED 0.3A 38W 5000K микропризма

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.4 V

Current: 0.175 A

Power: 38.14 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 4723.6 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4723.6 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.3, 158.0, 148.4, 148.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.0, 78.4, 76.0, 75.9

Luminaire Efficacy Rating (LER): 123.90

Central Intensity: 2451.55 cd

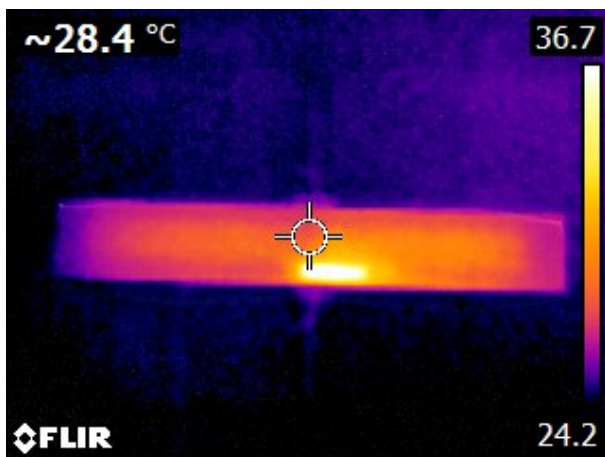
Max. Intensity: 2451.56 cd

Pos of Max. Intensity: H0 V0

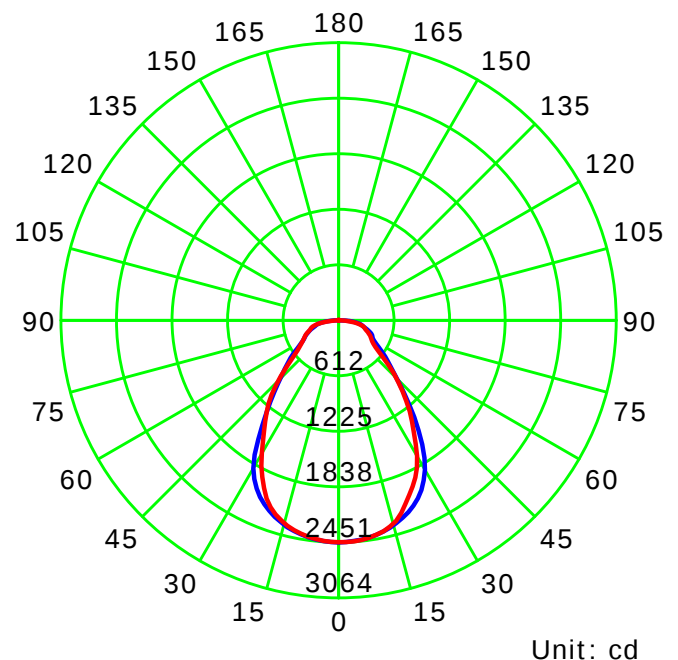
S/MH(C0/C180): 1.16

S/MH(C90/C270): 1.08

Termogramma



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

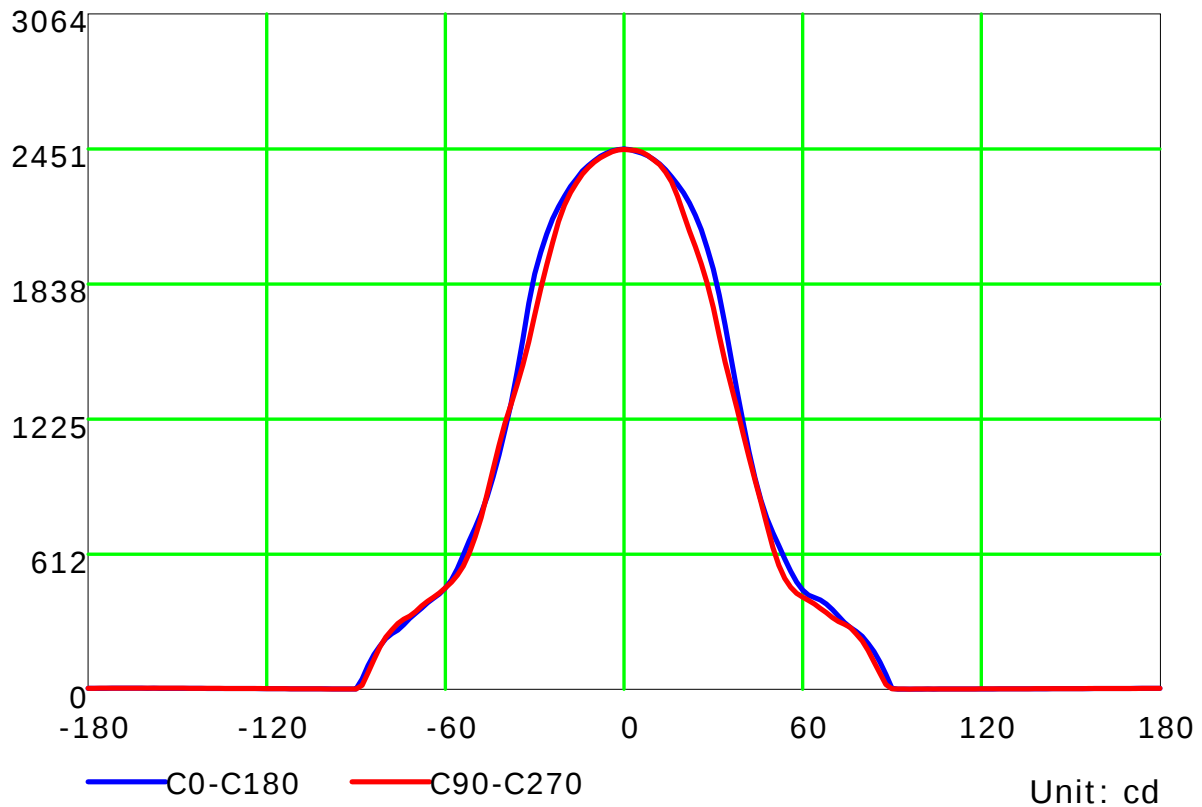
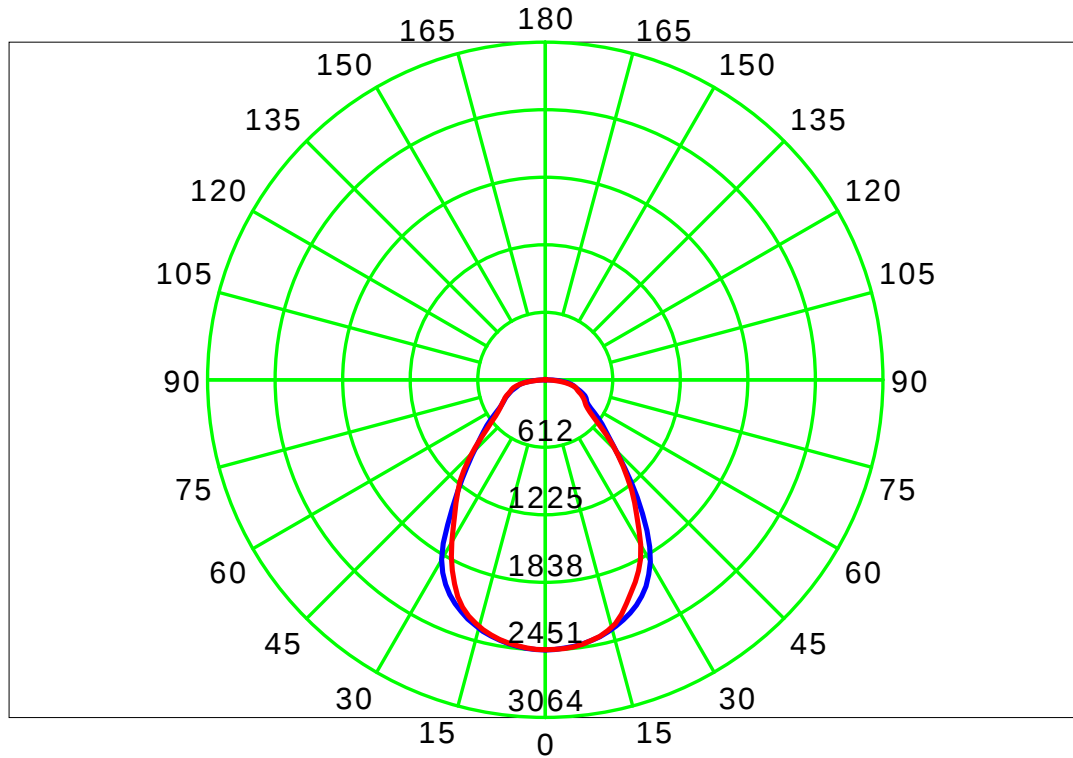
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

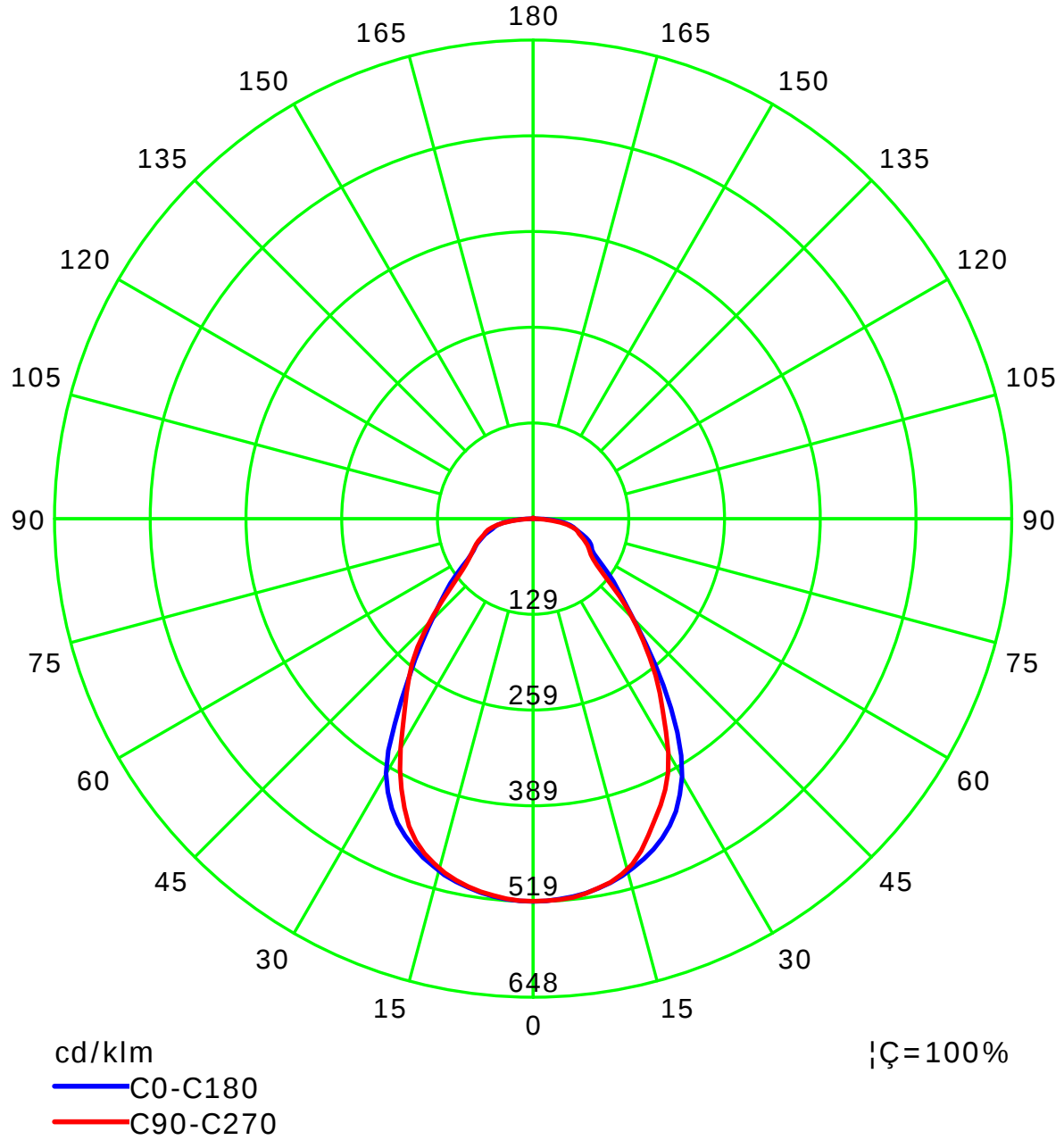
Luminous Intensity Distribution Curve



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Test Lab:
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Temperature:
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Humidity:
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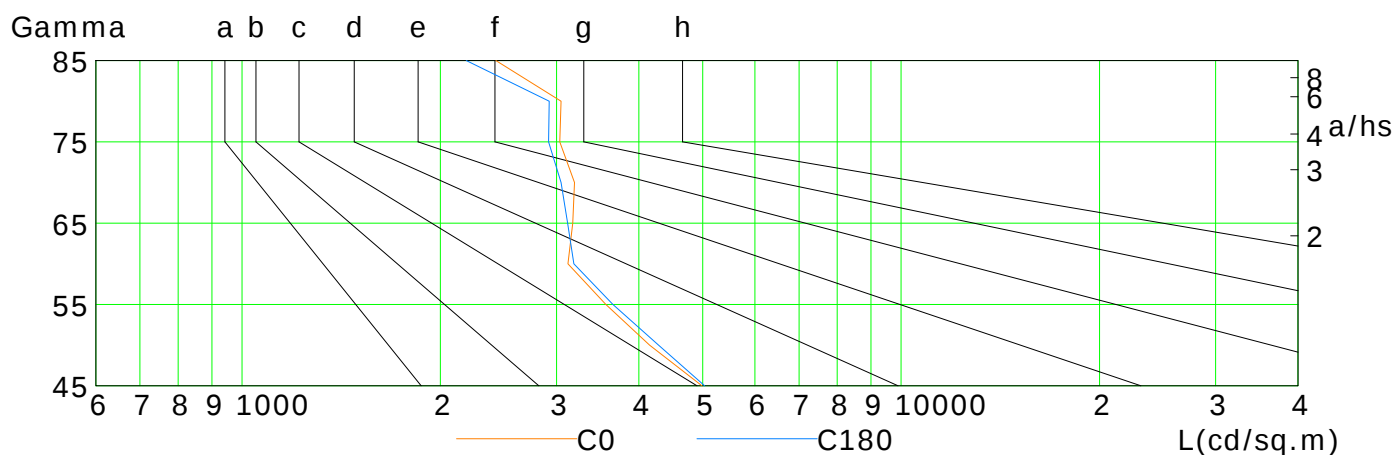
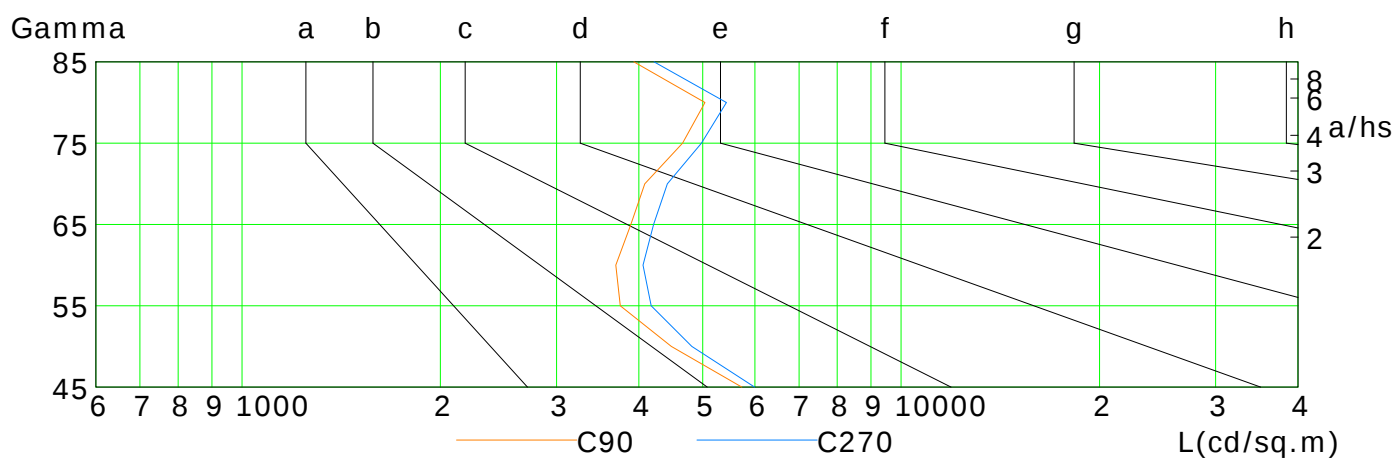
Luminous Intensity Distribution Curve(cd / klm)



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	4986	4153	3565	3122	3176	3196	3035	3048	2428
C90	5732	4481	3748	3690	3889	4085	4660	5039	3932
C180	5034	4286	3654	3187	3119	3048	2918	2925	2189
C270	5994	4812	4176	4058	4211	4418	4978	5431	4218

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

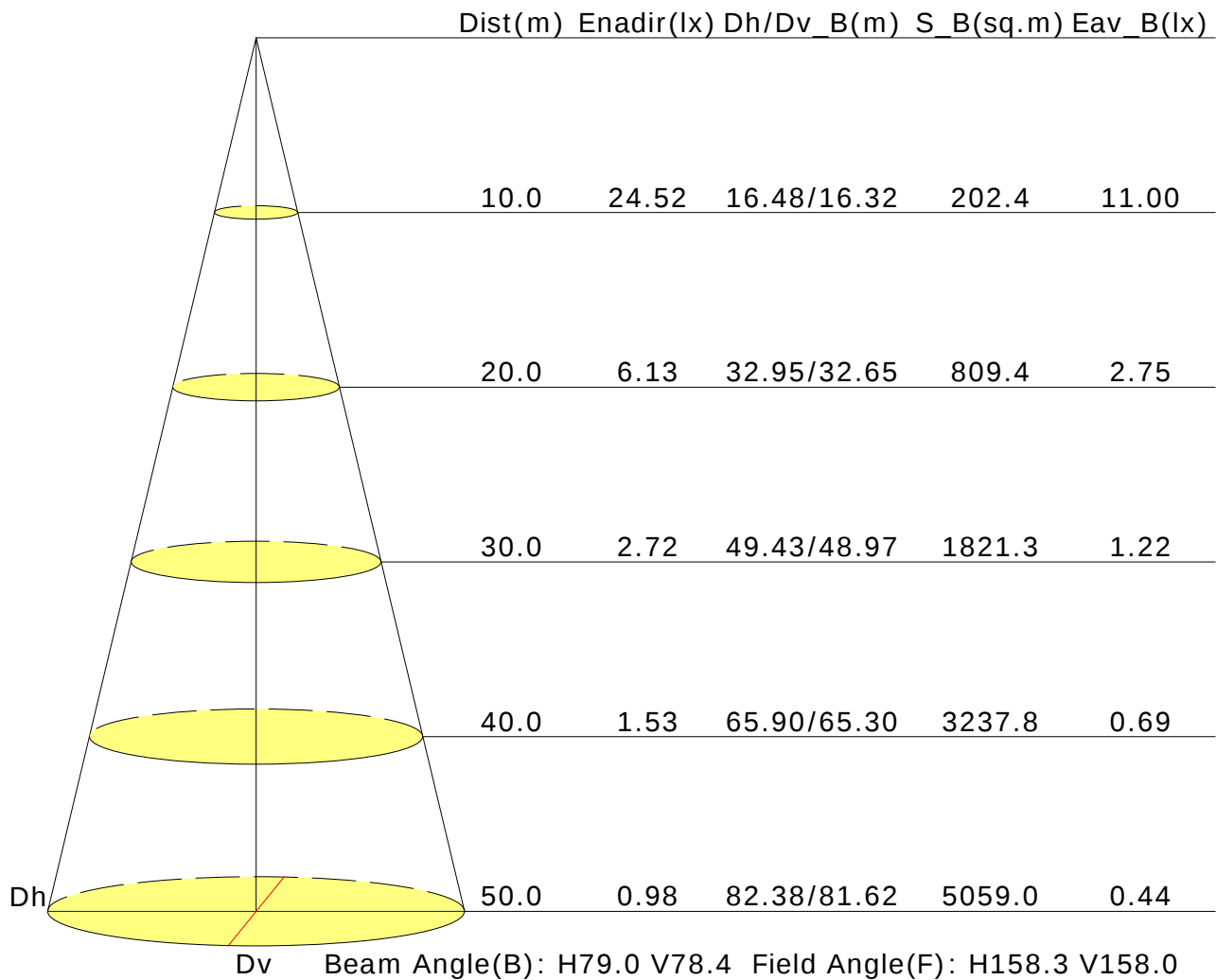
Test Device: LSG-1800B

Distance: 12.682 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	16.3	17.5	16.6	17.8	18.0	16.4	17.6	16.7	17.9	18.1
3H	17.7	18.8	18.0	19.1	19.4	18.0	19.1	18.3	19.4	19.7
4H	18.4	19.5	18.8	19.8	20.1	18.9	20.0	19.3	20.3	20.6
6H	19.1	20.1	19.5	20.4	20.7	19.8	20.8	20.2	21.2	21.5
8H	19.4	20.4	19.8	20.7	21.0	20.2	21.2	20.6	21.5	21.8
12H	19.6	20.6	20.0	20.9	21.2	20.4	21.4	20.8	21.7	22.0
X=4H Y=2H	16.7	17.8	17.1	18.1	18.4	16.8	17.9	17.2	18.2	18.5
3H	18.4	19.3	18.8	19.7	20.0	18.7	19.6	19.0	19.9	20.3
4H	19.3	20.1	19.7	20.5	20.8	19.7	20.6	20.1	20.9	21.3
6H	20.1	20.9	20.5	21.2	21.7	20.8	21.6	21.3	22.0	22.4
8H	20.5	21.2	20.9	21.6	22.0	21.3	22.0	21.7	22.4	22.8
12H	20.8	21.4	21.2	21.8	22.3	21.5	22.2	22.0	22.6	23.0
X=8H Y=4H	19.6	20.2	20.0	20.6	21.1	20.0	20.7	20.4	21.1	21.5
6H	20.6	21.1	21.0	21.6	22.0	21.2	21.8	21.7	22.2	22.7
8H	21.0	21.5	21.5	22.0	22.5	21.8	22.2	22.2	22.7	23.2
12H	21.4	21.9	21.9	22.3	22.8	22.1	22.5	22.6	23.0	23.5
X=12H Y=4H	19.6	20.2	20.1	20.6	21.1	20.0	20.6	20.5	21.0	21.5
6H	20.6	21.1	21.1	21.6	22.1	21.3	21.8	21.8	22.2	22.7
8H	21.2	21.6	21.7	22.1	22.6	21.8	22.3	22.3	22.7	23.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.2				
S=1.5H	+0.4/-0.7					+0.4/-0.6				
S=2.0H	+0.8/-0.9					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4724lm ($8\log(F/F_0) = 5.4$).

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.682 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	0.63	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.30		0.56	0.66	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.51	0.60	0.67	0.72	0.80	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.30		0.55	0.64	0.71	0.75	0.82	0.87	0.90	0.95	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.87	0.92	0.95	
0.30	0.50	0.20	0.60	0.69	0.74	0.78	0.84	0.88	0.91	0.94	0.96	
	0.30		0.55	0.63	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	0.59	0.65	0.70	0.77	0.81	0.85	0.89	0.92	
0.00	0.00	0.00	0.48	0.57	0.63	0.67	0.73	0.77	0.81	0.85	0.87	
Rating:38W 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	0.90	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.75	0.64	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.87	0.71	0.61	0.53	0.42	0.39	0.30	0.24	0.19	
	0.30		0.73	0.62	0.54	0.47	0.39	0.33	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.36	0.30	0.27	0.21	0.18	
0.30	0.50	0.20	0.84	0.68	0.58	0.51	0.40	0.33	0.29	0.22	0.18	
	0.30		0.72	0.60	0.52	0.46	0.37	0.31	0.27	0.21	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.29	0.26	0.20	0.17	
0.00	0.00	0.00	0.52	0.43	0.37	0.33	0.27	0.23	0.19	0.15	0.13	
Rating:38W 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	0.16	0.17	0.18	0.19	0.20	0.21	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	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.18	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	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	0.09	0.11	0.13	0.14	0.15	0.16	
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:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												