

Report No.:

Test Time: 21.04.2020 16:20

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FT 91 40W 2700K CREE CMA2550 TCI 1-10 prozrachnoe steklo 15gr.

Number of Lamps: 1

Luminous Length (mm): 215

Luminous Width (mm): -85

Luminous Height (mm): -85

Voltage: 229.1 V

Current: 0.170 A

Power: 38.18 W

Power Factor: 0.976

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3291.2 lm

Measurement Flux: 3291.2 lm

Efficiency: 100%

Downward Ratio: 97%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 52.7, 53.0, 52.9, 53.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 21.1, 21.4, 21.2, 21.4

Luminaire Efficacy Rating (LER): 86.25

Central Intensity: 13038.15 cd

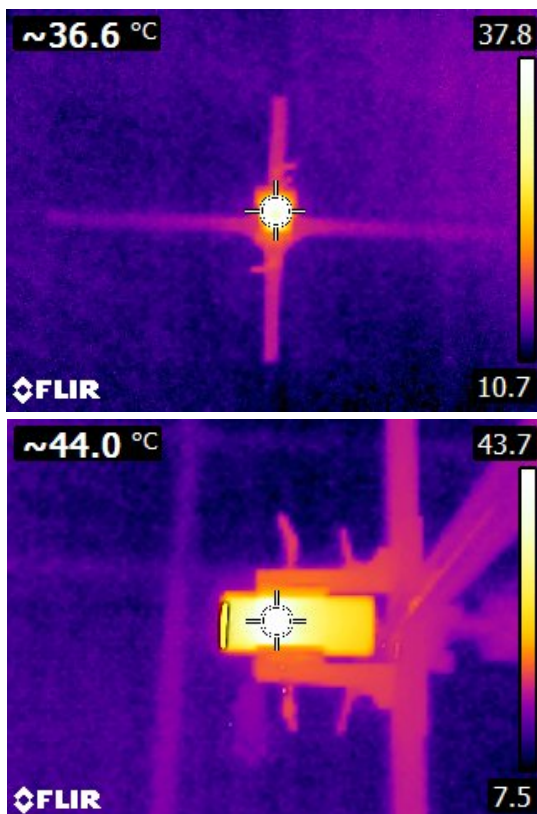
Max. Intensity: 13071.89 cd

Pos of Max. Intensity: H90 V0

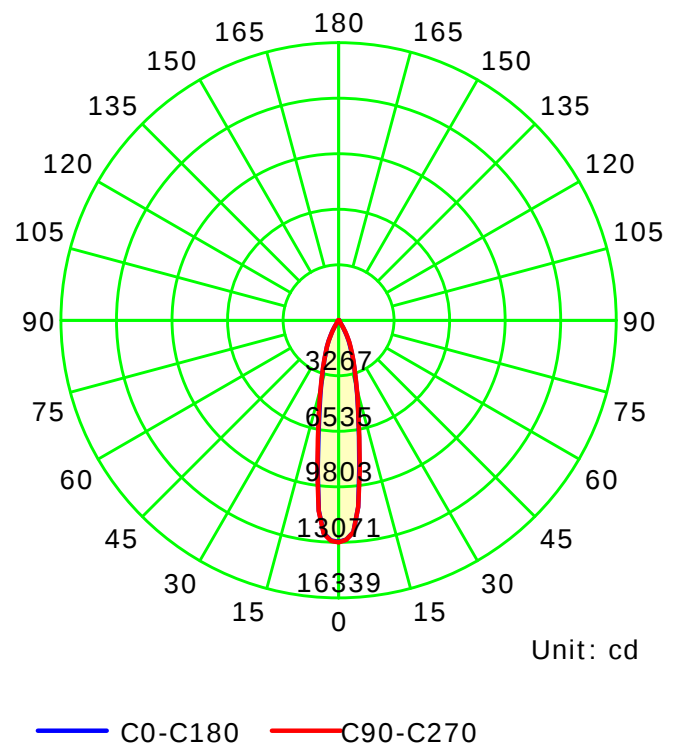
S/MH(C0/C180): 0.36

S/MH(C90/C270): 0.36

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

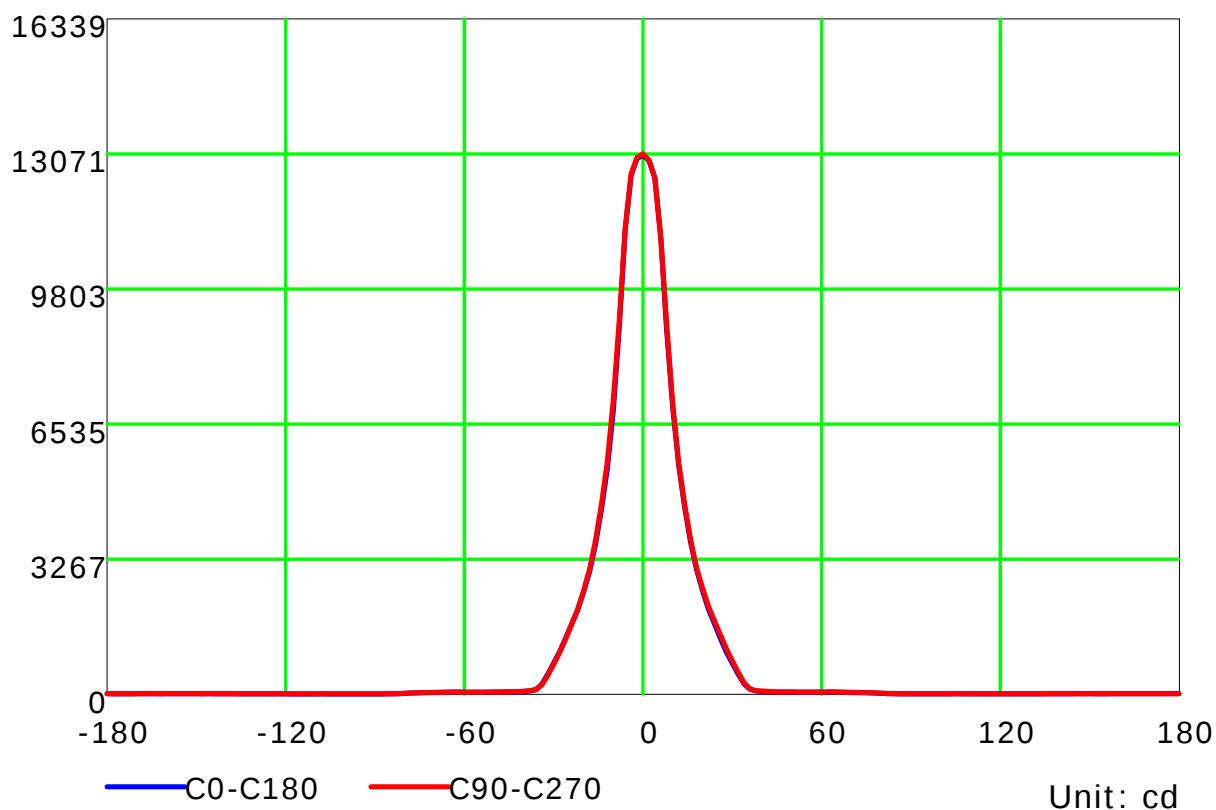
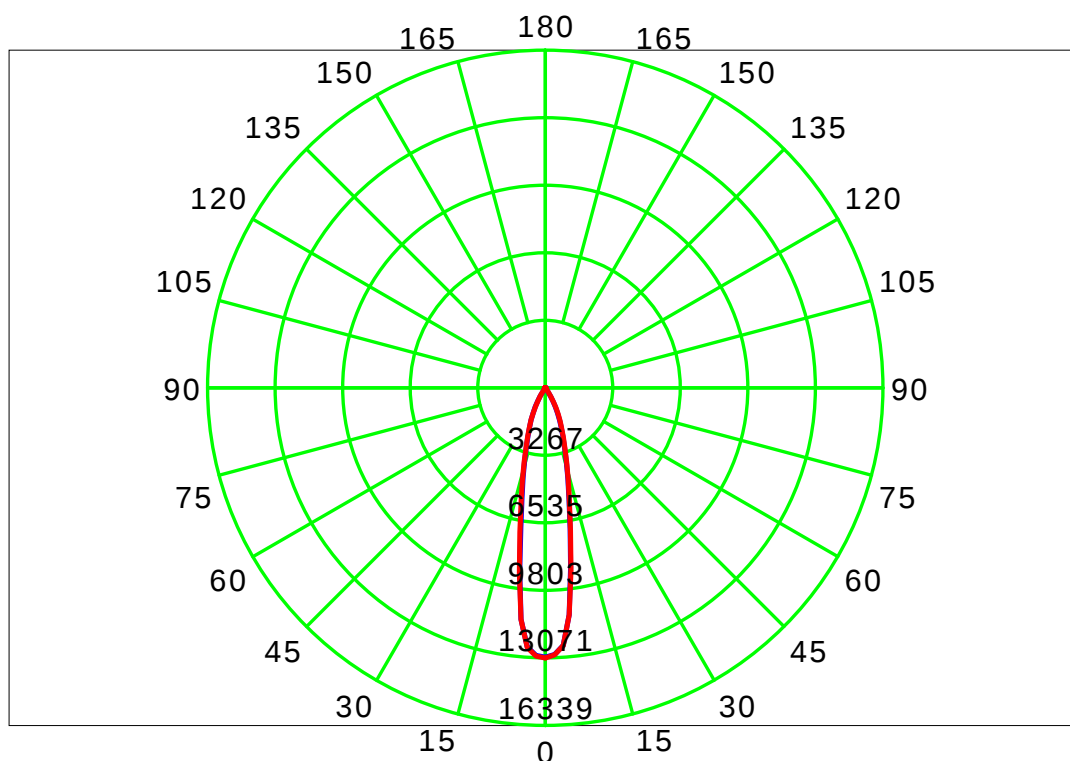
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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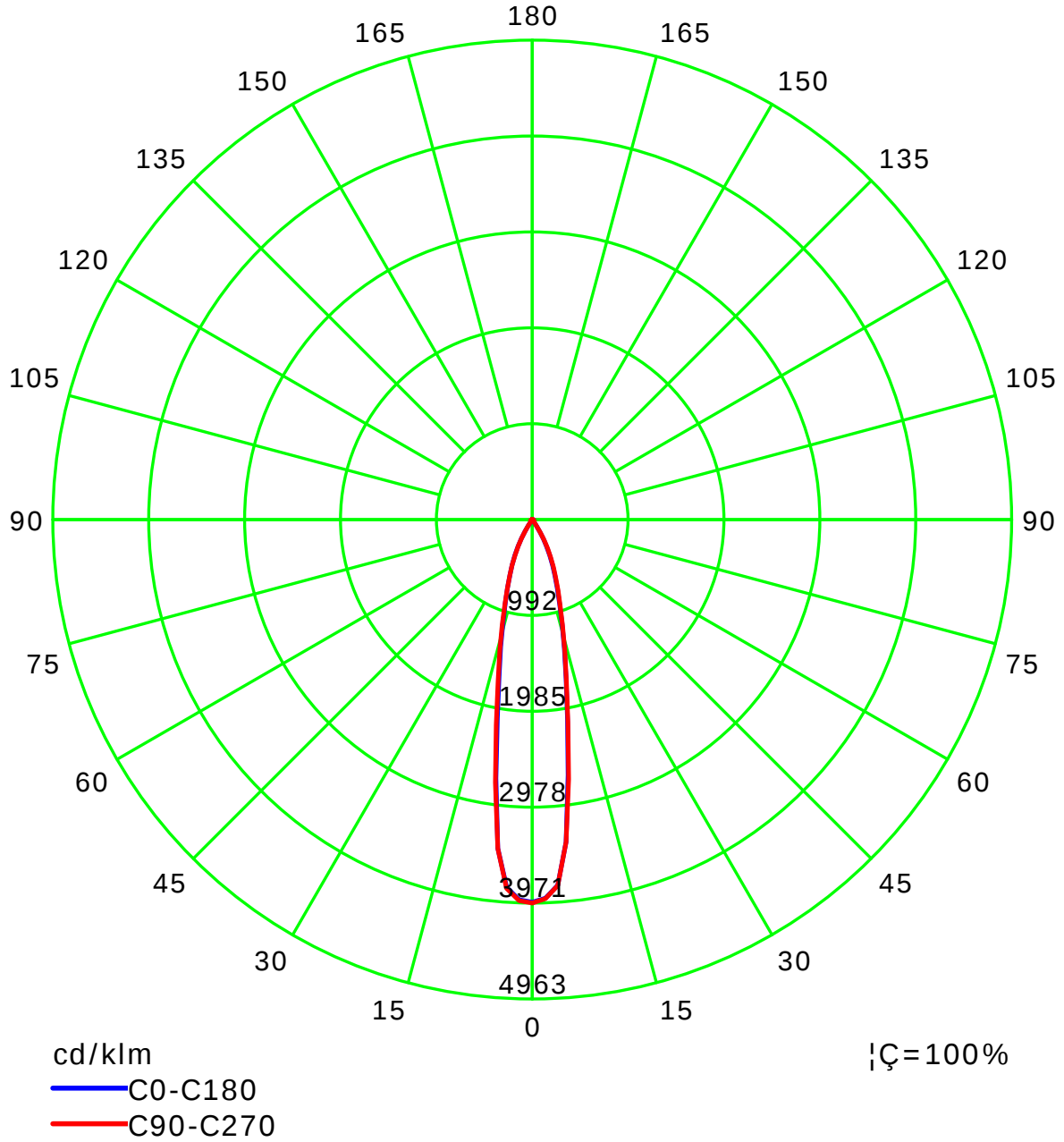
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Humidity:

Inspector:

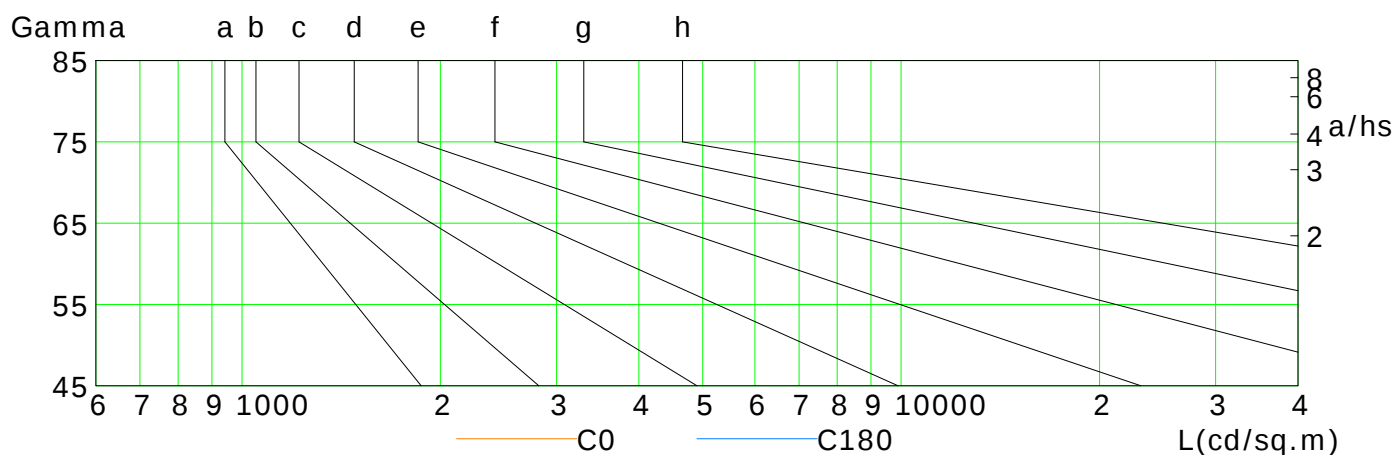
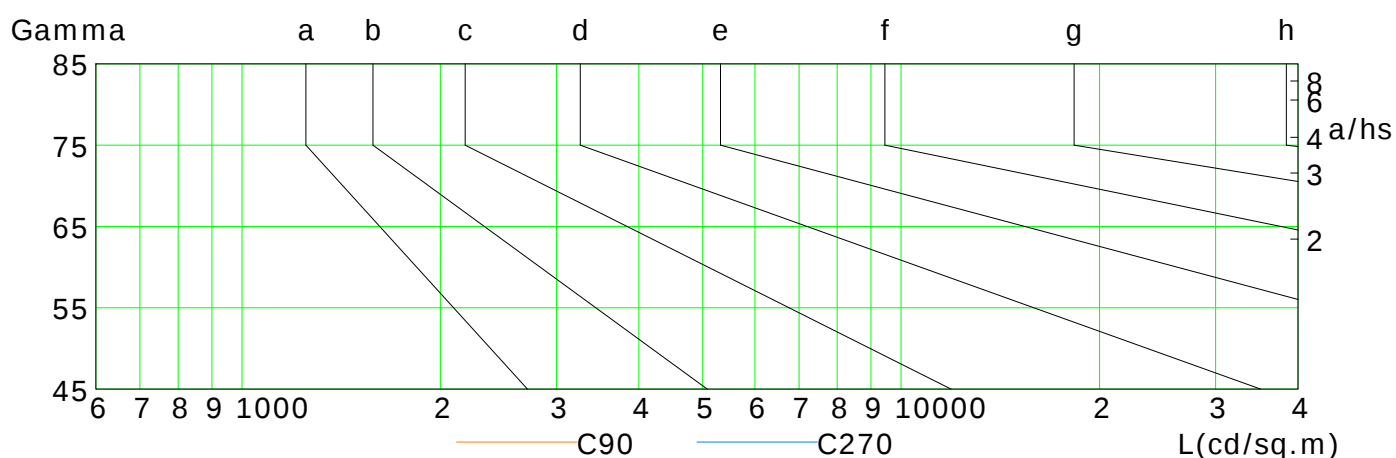
Luminous Intensity Distribution Curve(cd / klm)



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	59	54	52	52	54	45	38	25	15
C90	64	58	55	57	59	50	43	29	16
C180	60	55	52	53	55	47	40	25	14
C270	62	57	52	52	53	45	39	24	16

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

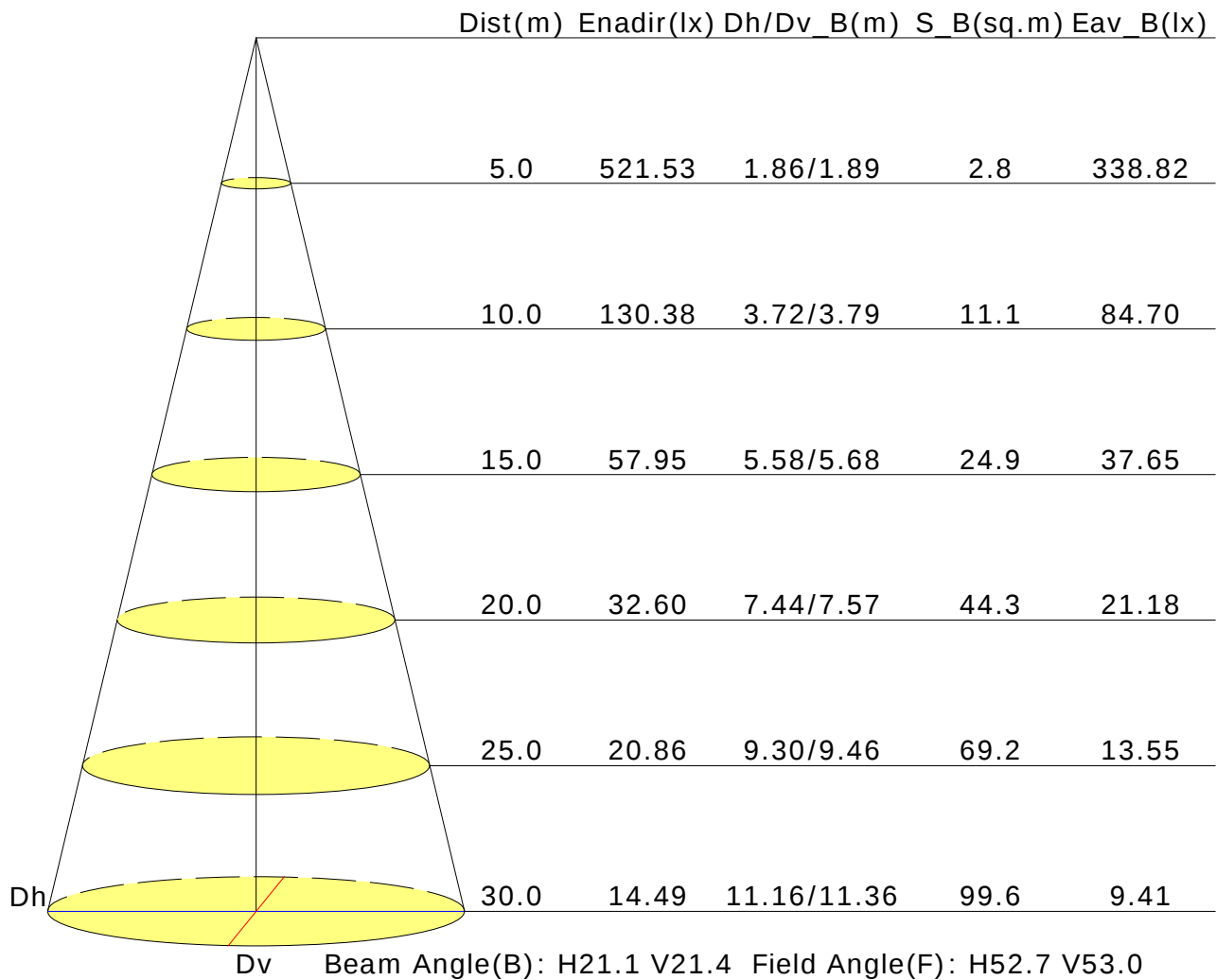
Test Device: LSG-1800B

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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	12.1	12.8	12.5	13.1	13.3
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.1	-0.5	-0.8	-0.2	0.1
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	19.4	20.0	19.8	20.3	20.6
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	19.5	20.0	19.9	20.4	20.7
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	19.5	20.0	19.9	20.4	20.8
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	9.3	9.9	9.7	10.2	10.6
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/1.4					-1.\$/7.2				
S=1.5H	-1.\$/2.8					-1.\$/10.0				
S=2.0H	-1.\$/4.0					-1.\$/12.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3291lm ($8\log(F/F_0) = 4.1$).

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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 = 0.50									
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	0.95	0.99	1.02	1.06	1.08	1.10	1.12	1.14	
	0.30		0.85	0.91	0.95	0.98	1.02	1.05	1.07	1.10	1.12	
	0.20		0.82	0.88	0.92	0.95	0.99	1.02	1.05	1.08	1.10	
0.50	0.50	0.20	0.88	0.93	0.97	0.99	1.02	1.04	1.06	1.08	1.09	
	0.30		0.84	0.90	0.93	0.96	1.00	1.02	1.04	1.06	1.07	
	0.20		0.82	0.87	0.91	0.93	0.97	1.00	1.02	1.04	1.06	
0.30	0.50	0.20	0.87	0.91	0.94	0.96	0.99	1.01	1.02	1.04	1.05	
	0.30		0.84	0.88	0.92	0.94	0.97	0.99	1.00	1.02	1.03	
	0.20		0.81	0.86	0.89	0.92	0.95	0.97	0.99	1.01	1.02	
0.00	0.00	0.00	0.79	0.84	0.87	0.89	0.91	0.93	0.94	0.96	0.97	
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 = 0.50									
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	0.55	0.45	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.46	0.39	0.34	0.30	0.24	0.21	0.18	0.14	0.12	
	0.20		0.40	0.34	0.30	0.27	0.22	0.19	0.16	0.13	0.11	
0.50	0.50	0.20	0.52	0.42	0.36	0.31	0.25	0.25	0.17	0.13	0.11	
	0.30		0.44	0.37	0.32	0.28	0.22	0.19	0.16	0.13	0.11	
	0.20		0.38	0.32	0.28	0.25	0.21	0.18	0.15	0.12	0.10	
0.30	0.50	0.20	0.49	0.39	0.33	0.29	0.22	0.19	0.16	0.12	0.10	
	0.30		0.42	0.35	0.30	0.26	0.21	0.17	0.15	0.12	0.10	
	0.20		0.37	0.31	0.27	0.24	0.19	0.16	0.14	0.11	0.09	
0.00	0.00	0.00	0.22	0.18	0.15	0.13	0.10	0.08	0.07	0.06	0.04	
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 = 0.50									
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	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.23	
	0.20		0.09	0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.21	
0.50	0.50	0.20	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	
	0.30		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20	0.21	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22	
	0.30		0.11	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												