

Report No.:

Test Time: 23.04.2020 17:35

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FT 91 30W 2700K CREE CMA2550 TCI 1-10 prozrachnoe steklo 24gr

Number of Lamps: 1

Luminous Length (mm): 215

Luminous Width (mm): -85

Luminous Height (mm): -85

Voltage: 229.2 V

Current: 0.132 A

Power: 29.31 W

Power Factor: 0.964

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2691.2 lm

Measurement Flux: 2691.2 lm

Efficiency: 100%

Downward Ratio: 97%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.9, 58.6, 58.5, 58.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 29.5, 29.4, 29.5, 29.3

Luminaire Efficacy Rating (LER): 91.87

Central Intensity: 7670.04 cd

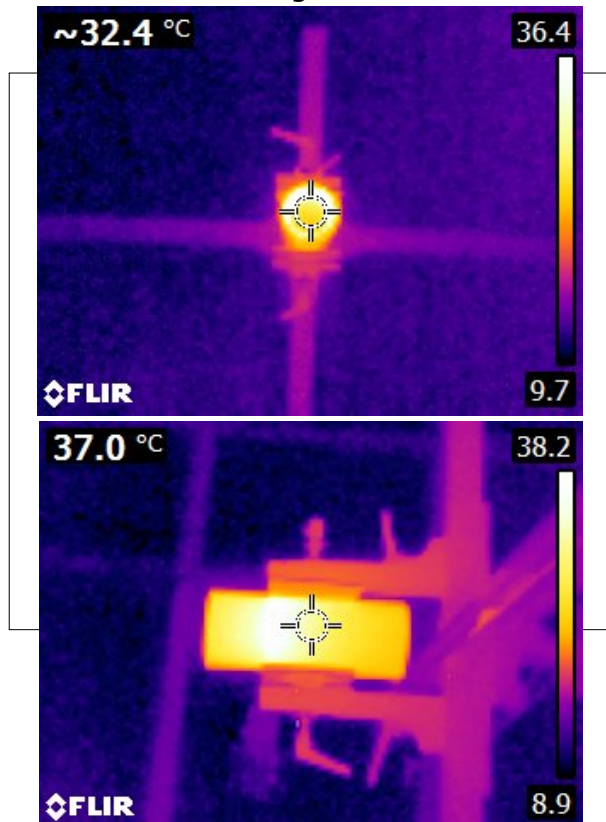
Max. Intensity: 7709.55 cd

Pos of Max. Intensity: H67.5 V0

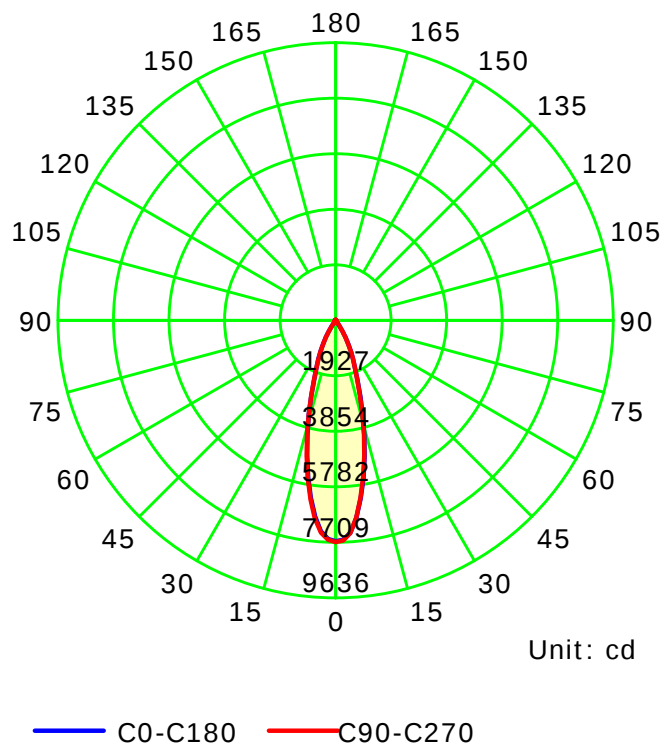
S/MH(C0/C180): 0.49

S/MH(C90/C270): 0.49

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

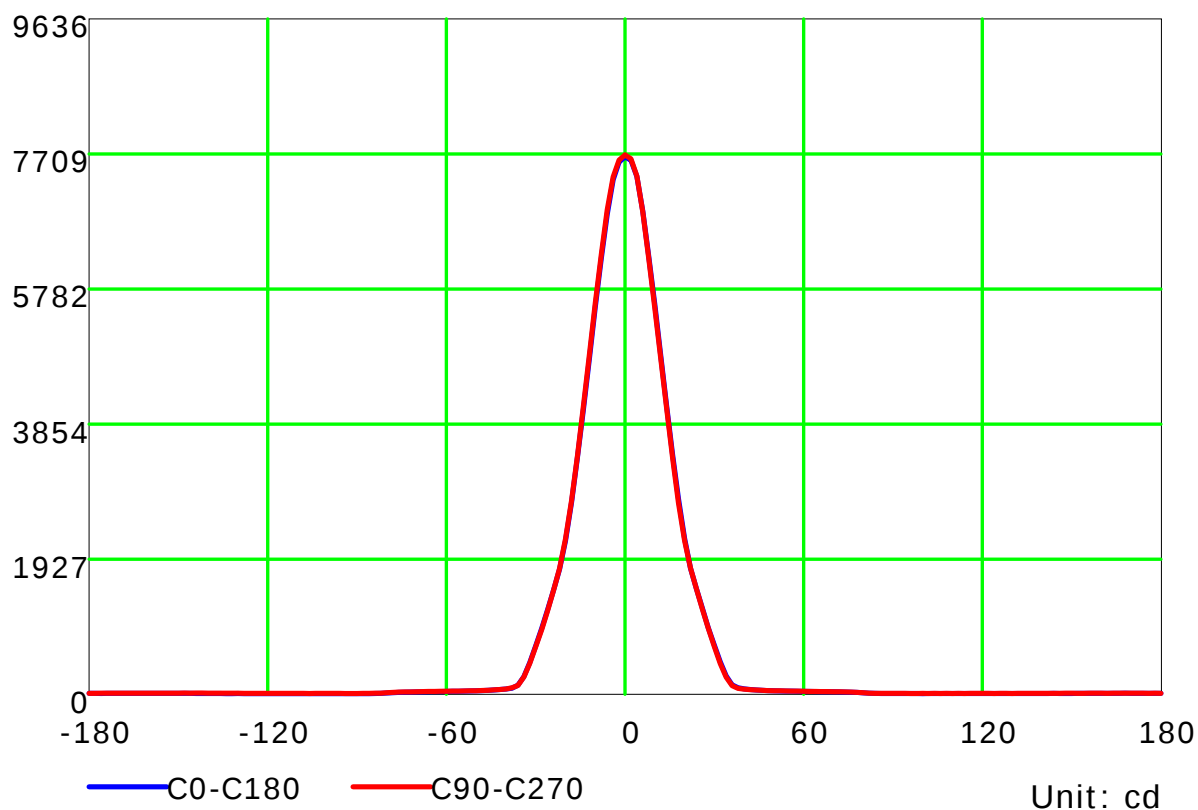
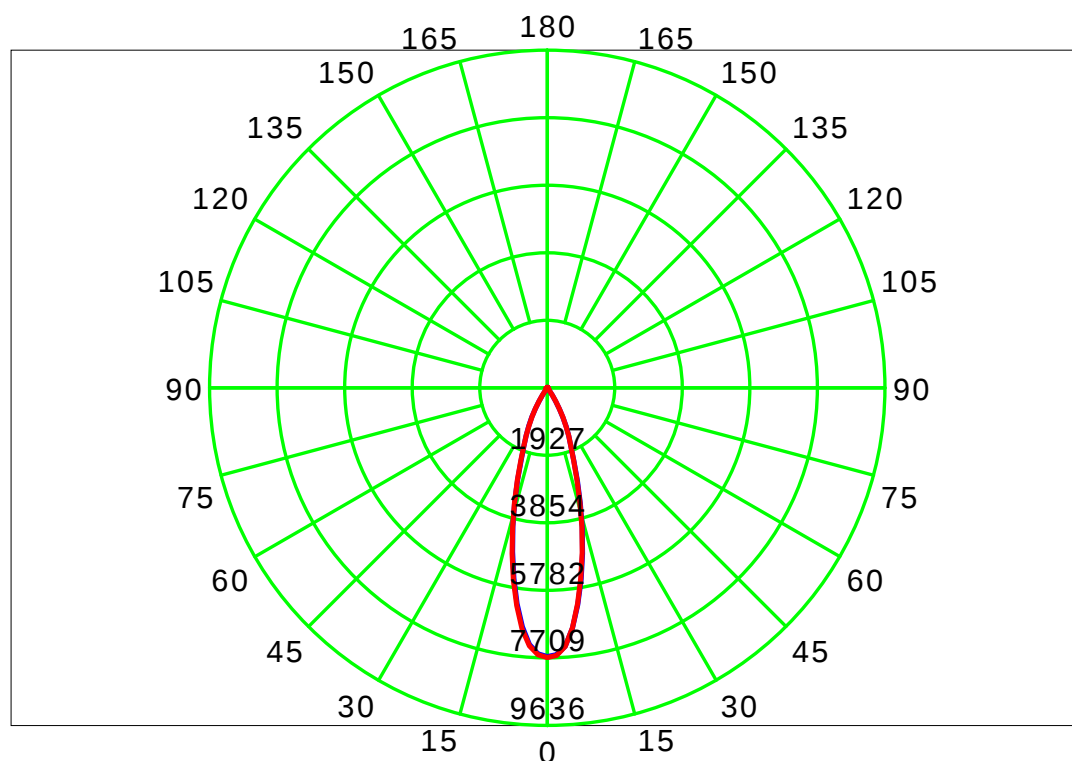
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

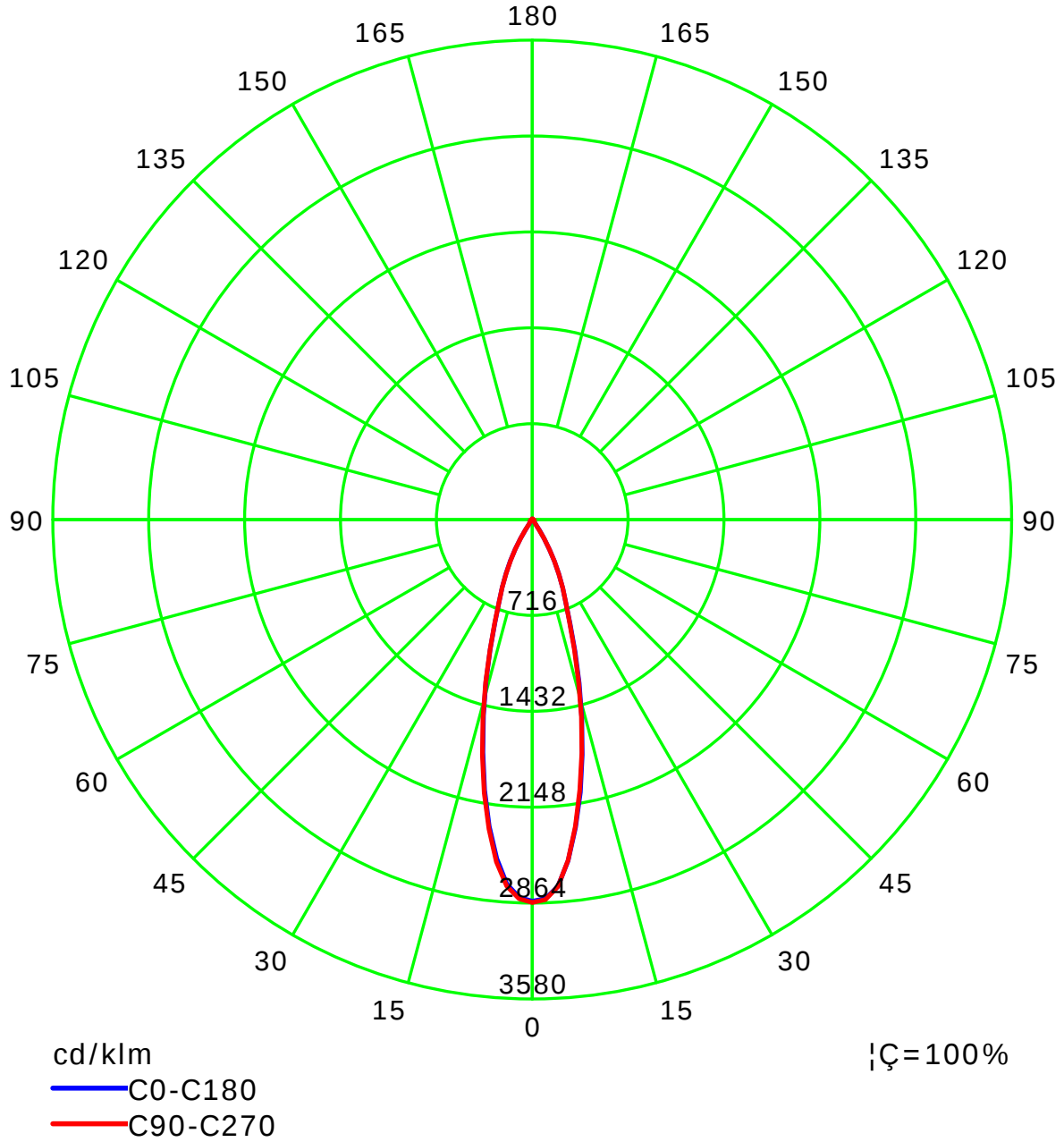
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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

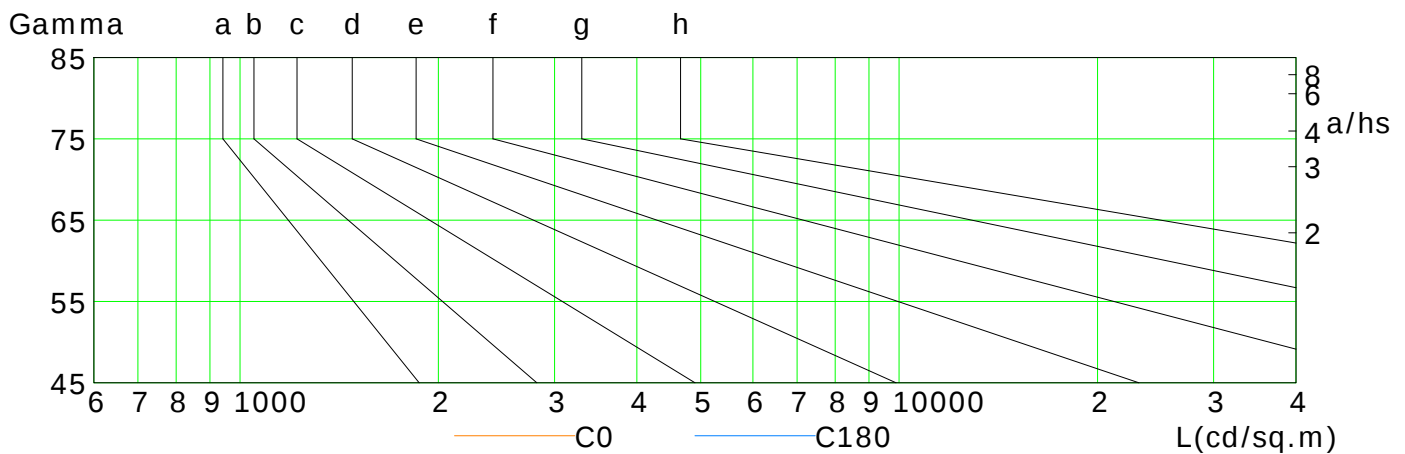
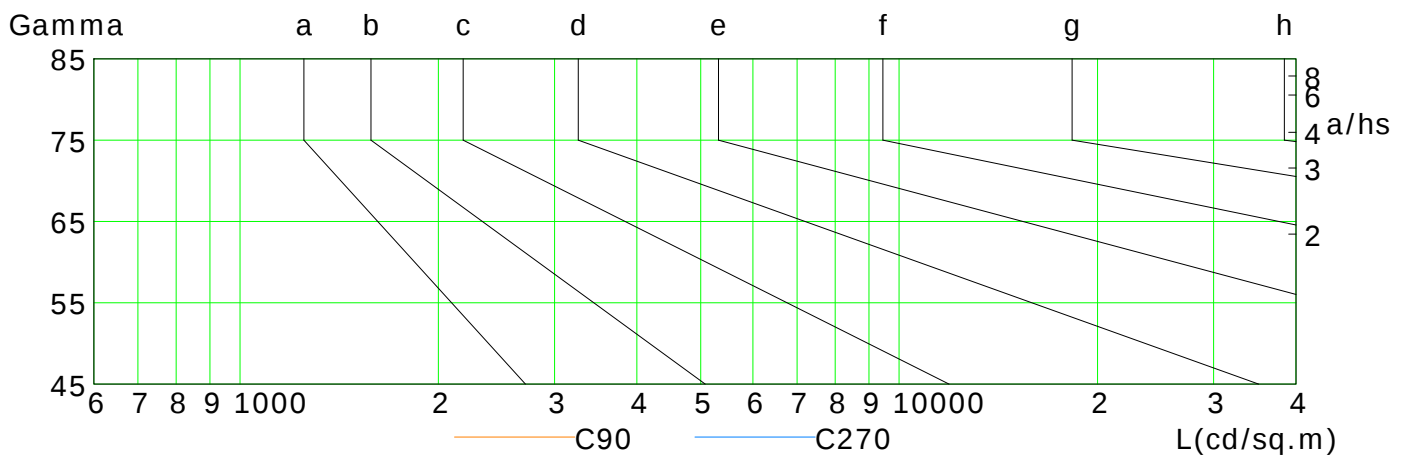
Humidity:

Inspector:

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	61	50	47	43	39	37	32	22	14
C90	60	52	48	45	41	38	34	23	16
C180	60	52	46	42	39	34	30	19	12
C270	62	52	48	45	41	38	33	23	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

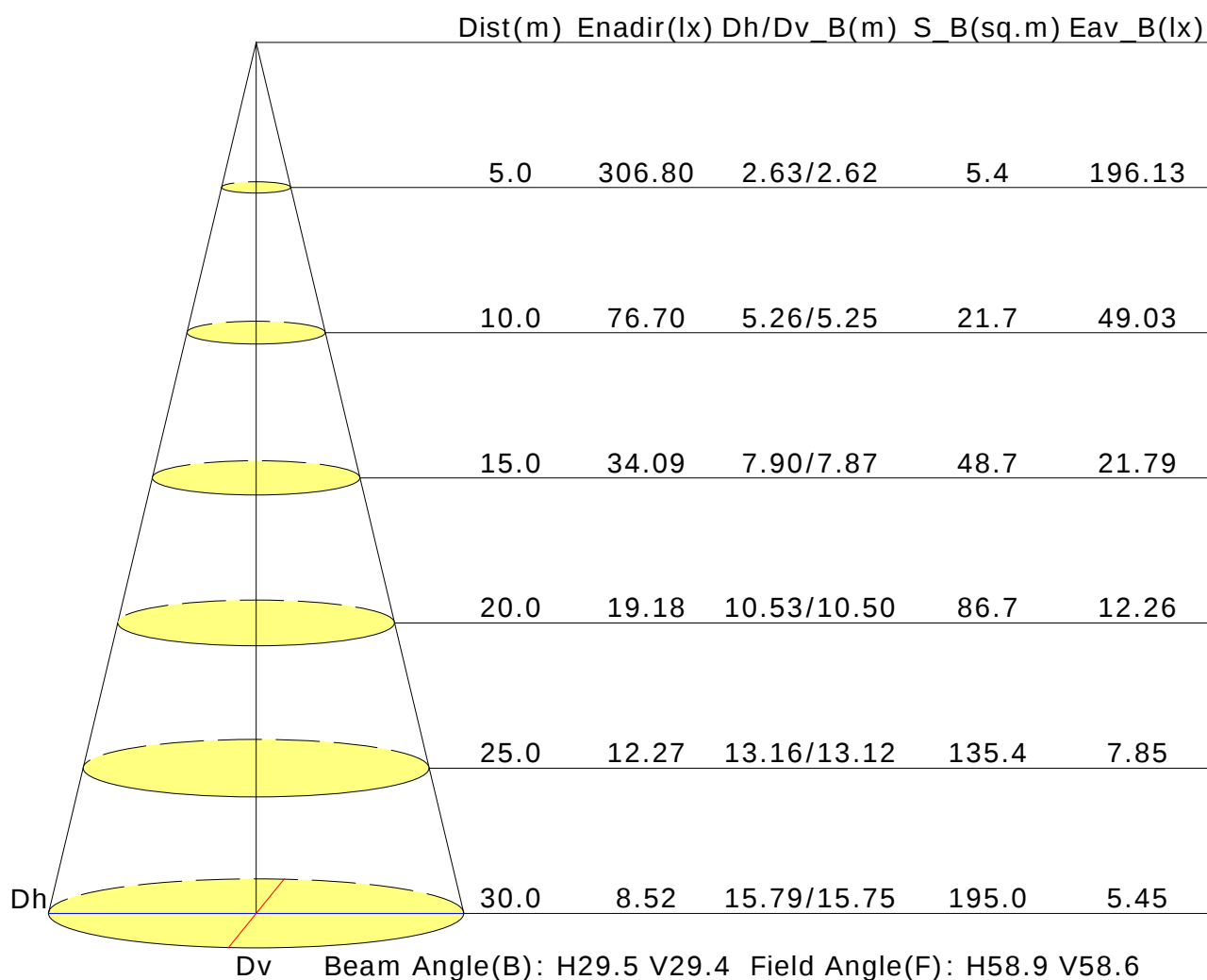
Test Device: LSG-1800B

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.\$	11.2	11.9	11.6	12.2	12.5
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-2.7	-2.1	-2.4	-1.8	-1.5
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	18.7	19.3	19.1	19.6	20.0
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	18.8	19.4	19.2	19.7	20.1
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	18.9	19.4	19.3	19.8	20.2
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	8.5	9.0	8.9	9.4	9.7
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.\$/1.7					-1.\$/7.2				
S=1.5H	-1.\$/3.2					-1.\$/10.0				
S=2.0H	-1.\$/4.6					-1.\$/12.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2691lm ($8\log(F/F_0) = 3.4$).

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.96	0.99	1.01	1.05	1.07	1.08	1.10	1.12	
	0.30		0.87	0.92	0.95	0.98	1.01	1.04	1.06	1.08	1.10	
	0.20		0.85	0.89	0.92	0.95	0.99	1.01	1.03	1.06	1.08	
0.50	0.50	0.20	0.90	0.94	0.97	0.99	1.01	1.03	1.04	1.06	1.07	
	0.30		0.86	0.91	0.93	0.96	0.99	1.01	1.02	1.04	1.05	
	0.20		0.84	0.88	0.91	0.93	0.97	0.99	1.00	1.03	1.04	
0.30	0.50	0.20	0.88	0.92	0.94	0.96	0.98	1.00	1.01	1.02	1.03	
	0.30		0.86	0.89	0.92	0.94	0.96	0.98	0.99	1.01	1.02	
	0.20		0.83	0.87	0.90	0.92	0.94	0.96	0.98	0.99	1.01	
0.00	0.00	0.00	0.82	0.85	0.87	0.89	0.91	0.92	0.93	0.94	0.95	
Rating:29W 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 = 0.75									
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	0.49	0.41	0.35	0.30	0.24	0.20	0.18	0.14	0.11	
	0.30		0.41	0.35	0.30	0.27	0.22	0.19	0.16	0.13	0.11	
	0.20		0.35	0.30	0.27	0.24	0.20	0.17	0.15	0.12	0.10	
0.50	0.50	0.20	0.46	0.38	0.32	0.28	0.22	0.23	0.16	0.12	0.10	
	0.30		0.39	0.33	0.28	0.25	0.20	0.17	0.15	0.12	0.10	
	0.20		0.34	0.29	0.25	0.23	0.19	0.16	0.14	0.11	0.09	
0.30	0.50	0.20	0.43	0.35	0.29	0.25	0.20	0.17	0.14	0.11	0.09	
	0.30		0.37	0.31	0.26	0.23	0.19	0.16	0.13	0.11	0.09	
	0.20		0.32	0.27	0.24	0.21	0.17	0.15	0.13	0.10	0.08	
0.00	0.00	0.00	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	
Rating:29W 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 = 0.75									
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	0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.17	0.19	0.20	0.21	0.22	0.23	
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.21	0.22	
0.50	0.50	0.20	0.15	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.23	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.09	0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.21	
0.30	0.50	0.20	0.14	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	0.19	0.19	0.20	0.21	
	0.20		0.09	0.11	0.13	0.14	0.16	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:29W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												