

Report No.:

Test Time: 23.04.2020 16:21

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FT 91 30W 2700K CREE CMA2550 TCI 1-10 prozrachnoe steklo 45gr

Number of Lamps: 1

Lumens per Lamp: 2523.9 lm

Luminous Length (mm): 85 mm

Luminous Width (mm): 215 mm

Luminous Height (mm): 85 mm

Voltage: 229.2 V

Current: 0.132 A

Power: 29.42 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2523.9 lm

Measurement Flux: 2523.9 lm

Efficiency: 100.00%

Downward Ratio: 99.45%

Upward Ratio: 0.55%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 70.1, 69.7, 69.9, 69.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 48.4, 48.2, 48.3, 48.2

Luminaire Efficacy Rating (LER): 85.84

Central Intensity: 4075.66 cd

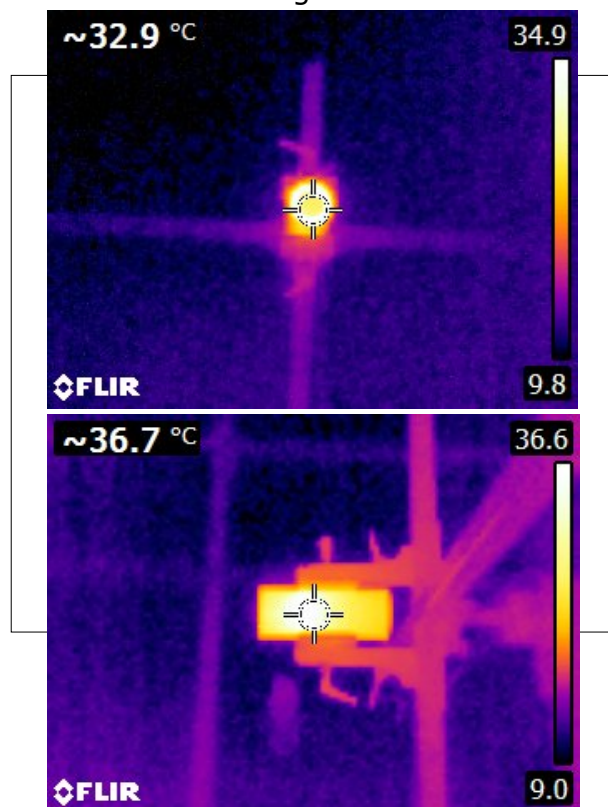
Max. Intensity: 4079.68 cd

Pos of Max. Intensity: H45 V0

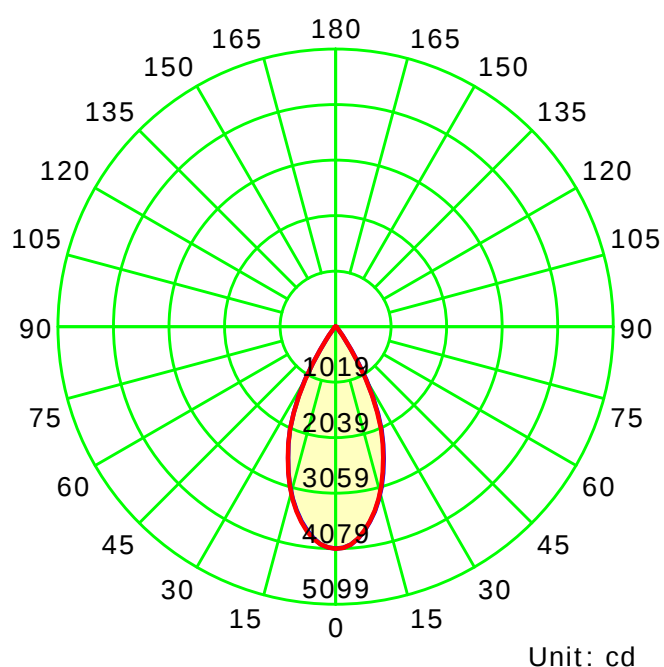
S/MH(C0/C180): 0.75

S/MH(C90/C270): 0.75

Termogramma



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

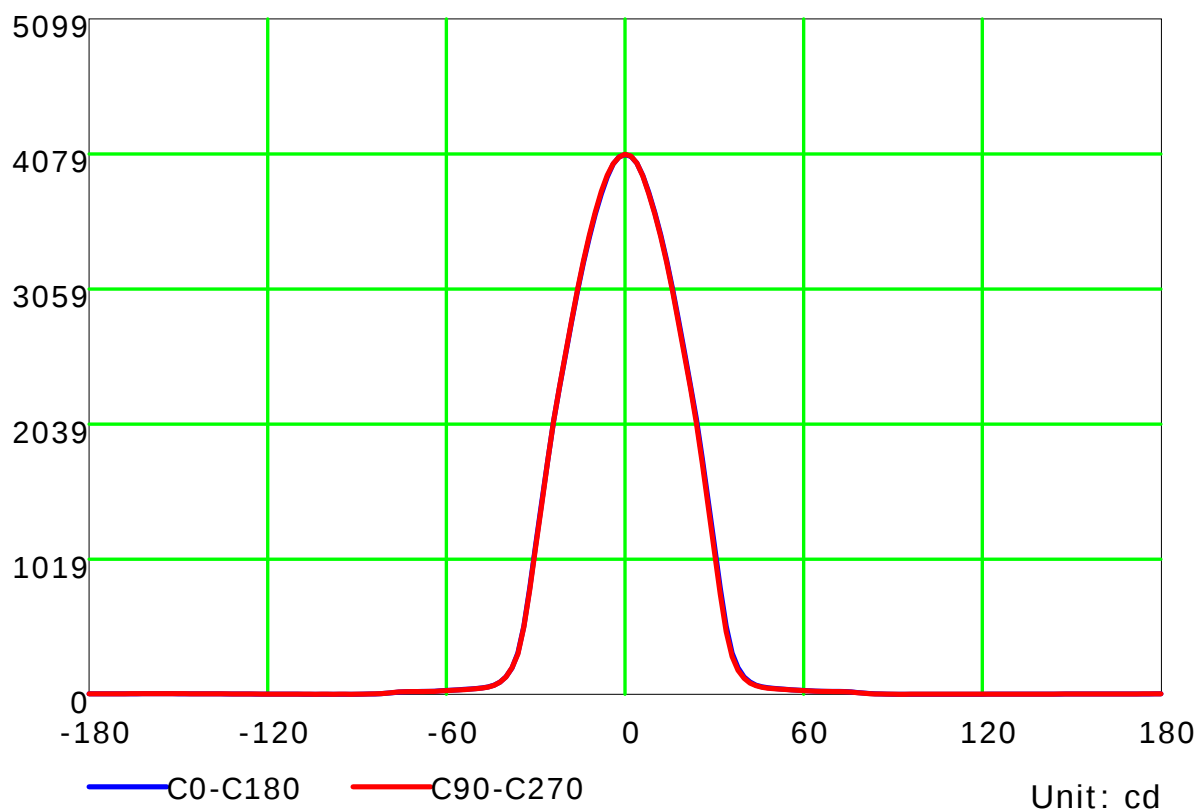
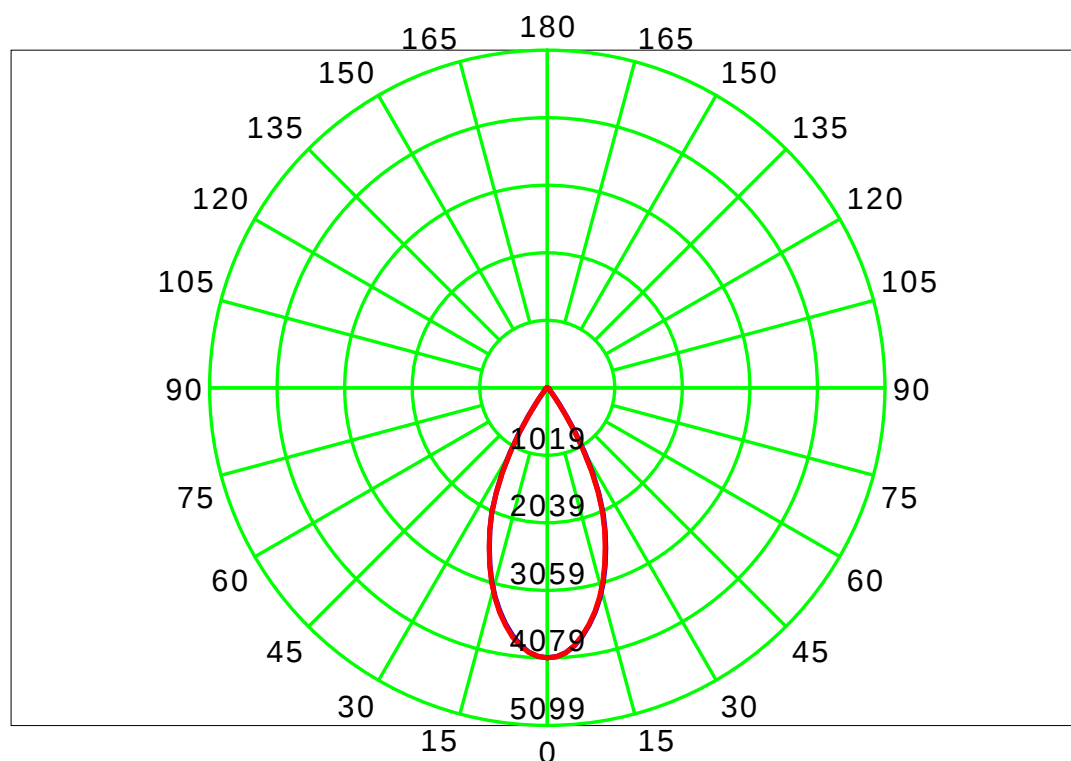
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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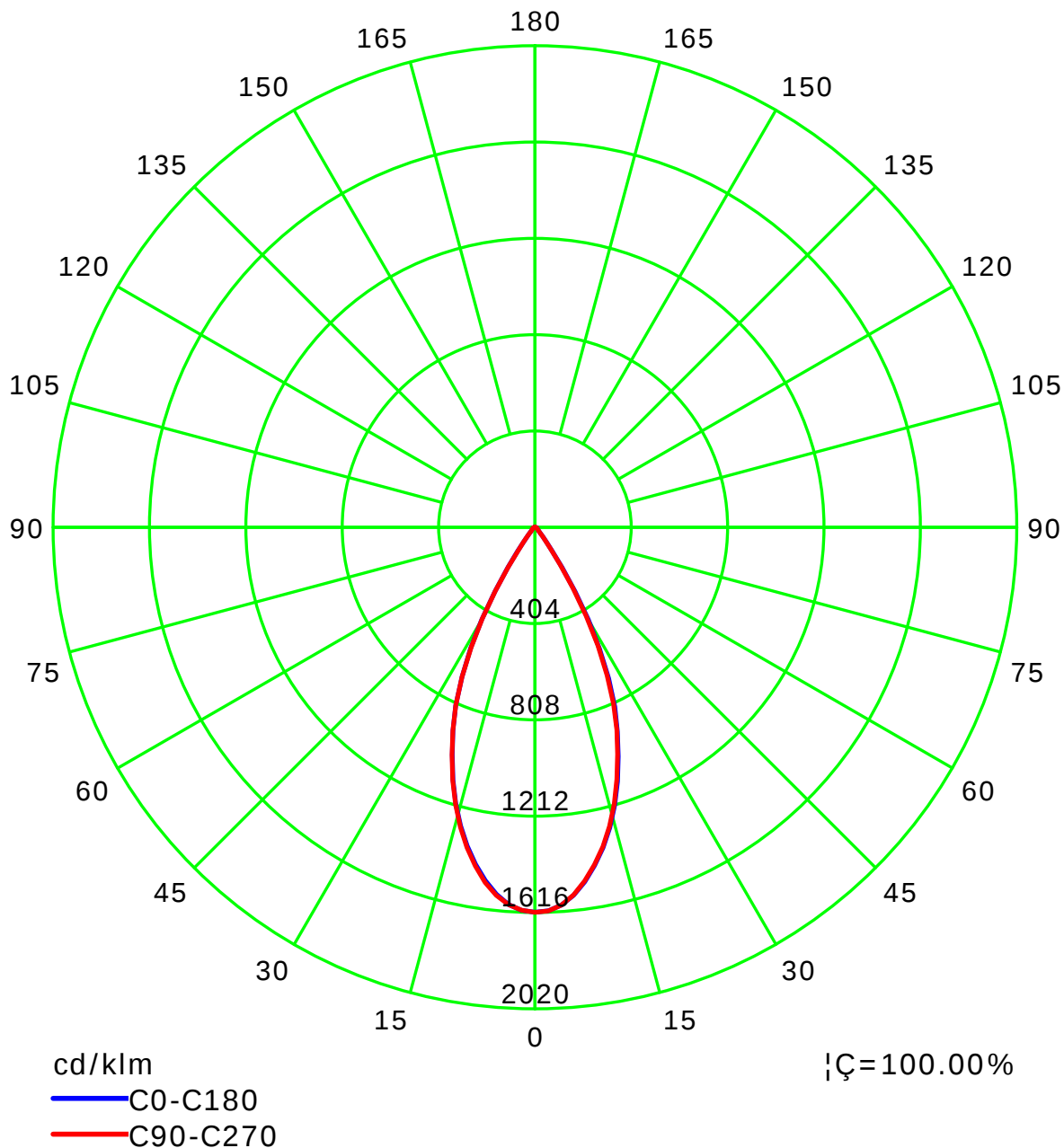
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

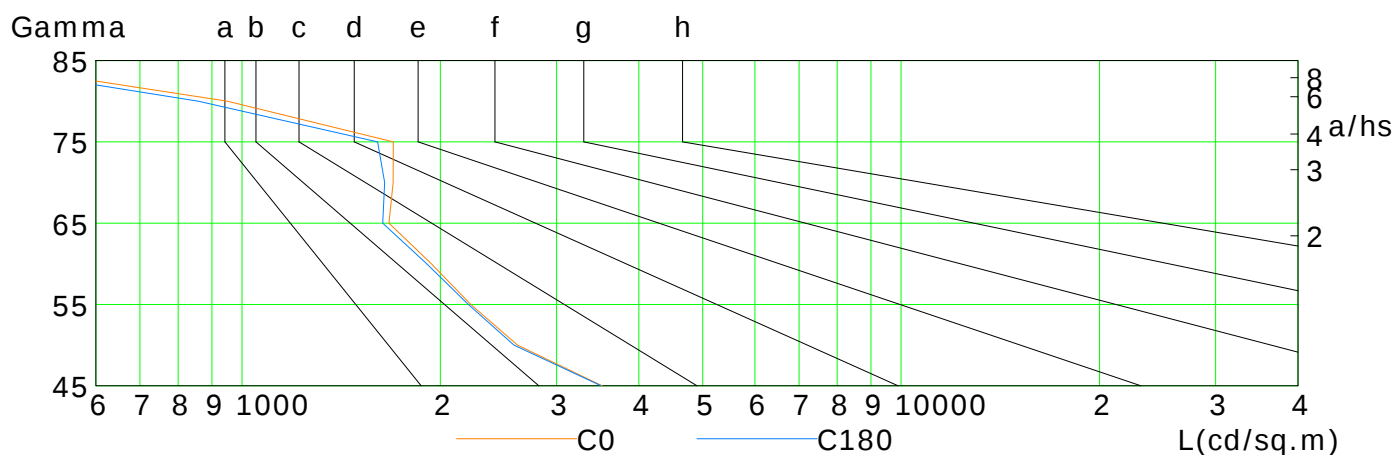
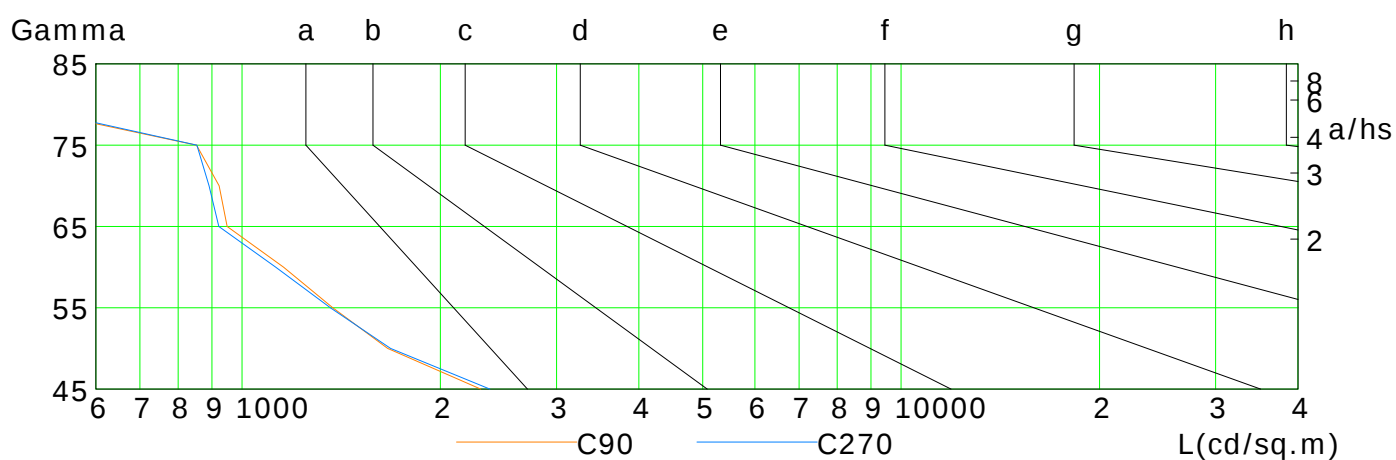
Humidity:

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	3519	2618	2224	1938	1671	1696	1697	951	376
C90	2302	1663	1373	1156	950	923	853	438	156
C180	3505	2585	2205	1907	1635	1646	1606	858	352
C270	2376	1680	1362	1124	922	891	854	452	160

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

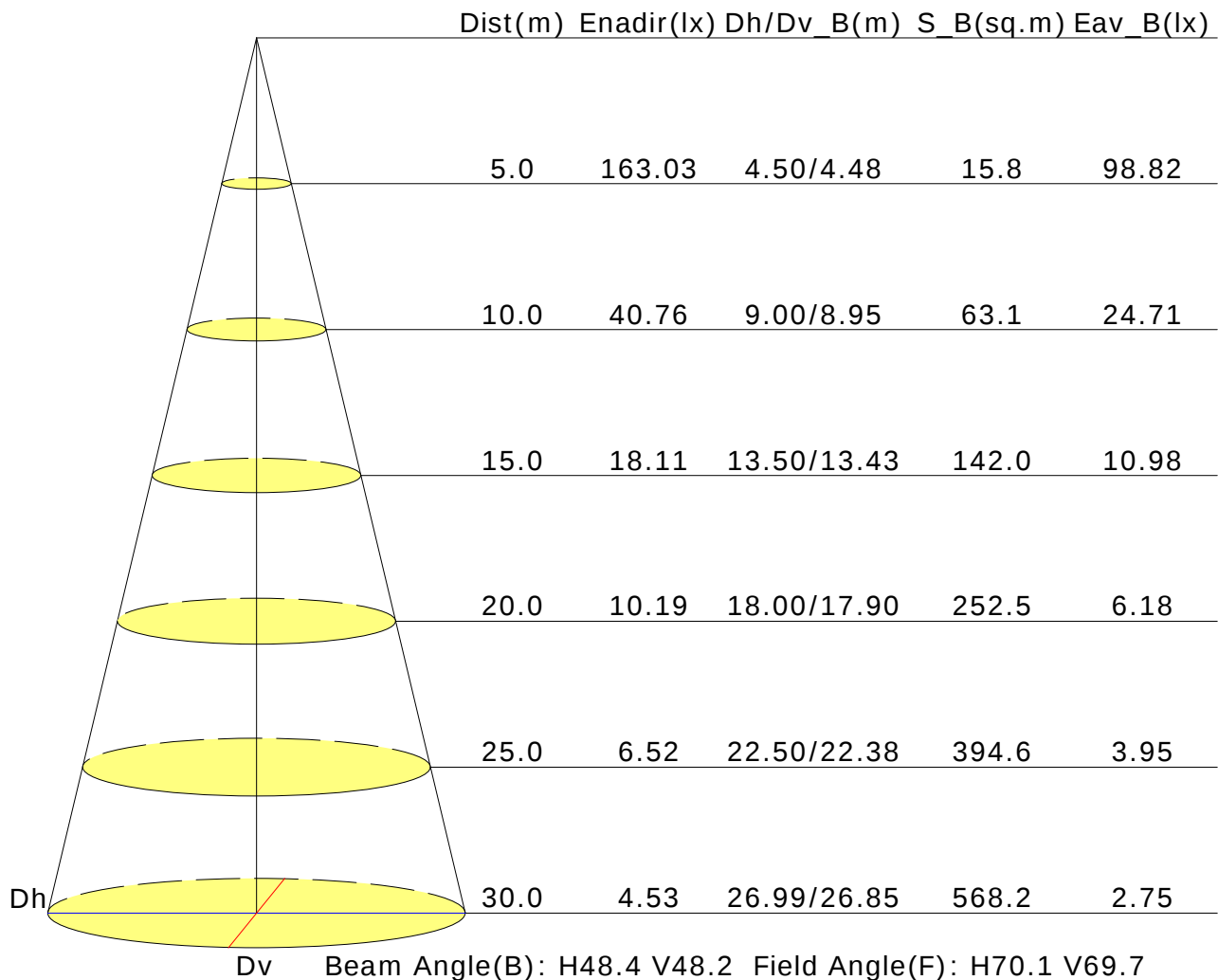
Test Device: LSG-1800B

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	12.3	13.1	12.6	13.3	13.5	11.4	12.2	11.7	12.5	12.7
3H	12.5	13.2	12.8	13.5	13.7	11.6	12.3	11.9	12.5	12.8
4H	12.7	13.3	13.0	13.6	13.9	11.7	12.4	12.0	12.6	12.9
6H	12.8	13.4	13.1	13.7	14.0	11.7	12.4	12.1	12.6	12.9
8H	12.8	13.4	13.1	13.7	14.0	11.7	12.3	12.1	12.6	12.9
12H	12.7	13.3	13.1	13.6	14.0	11.7	12.3	12.0	12.6	12.9
X=4H Y=2H	12.2	12.9	12.5	13.1	13.4	11.4	12.0	11.7	12.3	12.6
3H	12.5	13.1	12.8	13.4	13.7	11.6	12.2	11.9	12.5	12.8
4H	12.8	13.3	13.1	13.6	14.0	11.8	12.3	12.2	12.7	13.0
6H	12.9	13.4	13.3	13.7	14.1	11.9	12.4	12.3	12.7	13.1
8H	12.9	13.3	13.3	13.7	14.2	11.9	12.3	12.3	12.7	13.1
12H	12.9	13.3	13.3	13.7	14.1	11.8	12.2	12.3	12.6	13.1
X=8H Y=4H	12.7	13.2	13.2	13.6	14.0	11.8	12.2	12.3	12.6	13.1
6H	12.9	13.3	13.4	13.7	14.2	12.0	12.3	12.4	12.7	13.2
8H	12.9	13.2	13.4	13.7	14.2	12.0	12.3	12.4	12.7	13.2
12H	12.9	13.2	13.4	13.7	14.2	11.9	12.2	12.4	12.7	13.2
X=12H Y=4H	12.7	13.1	13.2	13.5	13.9	11.8	12.2	12.2	12.6	13.0
6H	12.9	13.2	13.4	13.7	14.1	11.9	12.2	12.4	12.7	13.2
8H	12.9	13.2	13.4	13.7	14.2	11.9	12.2	12.4	12.7	13.2
Variations with the observer position at spacings:										
S=1.0H	+5.0/-3.1					+5.0/-3.4				
S=1.5H	+7.6/-3.4					+7.7/-3.8				
S=2.0H	+9.5/-3.9					+9.6/-4.3				

Calculate in accordance with CIE Pub.117. The table is revised with 2524Im ($8\log(F/F_0) = 3.2$).

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	0.87	0.93	0.97	0.99	1.03	1.06	1.07	1.10	1.11	
	0.30		0.83	0.89	0.93	0.96	1.00	1.03	1.05	1.07	1.09	
	0.20		0.79	0.86	0.90	0.93	0.97	1.00	1.02	1.05	1.07	
0.50	0.50	0.20	0.86	0.91	0.95	0.97	1.00	1.02	1.04	1.06	1.07	
	0.30		0.82	0.88	0.91	0.94	0.98	1.00	1.02	1.04	1.05	
	0.20		0.79	0.85	0.89	0.91	0.95	0.98	1.00	1.02	1.04	
0.30	0.50	0.20	0.84	0.90	0.93	0.95	0.98	0.99	1.01	1.02	1.03	
	0.30		0.81	0.86	0.90	0.92	0.95	0.98	0.99	1.01	1.02	
	0.20		0.79	0.84	0.88	0.90	0.94	0.96	0.97	1.00	1.01	
0.00	0.00	0.00	0.77	0.82	0.85	0.88	0.90	0.92	0.94	0.95	0.96	
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	0.55	0.44	0.37	0.32	0.25	0.21	0.18	0.14	0.11	
	0.30		0.46	0.38	0.32	0.28	0.23	0.19	0.17	0.13	0.11	
	0.20		0.39	0.33	0.29	0.26	0.21	0.18	0.15	0.12	0.10	
0.50	0.50	0.20	0.52	0.41	0.35	0.30	0.24	0.23	0.16	0.13	0.10	
	0.30		0.44	0.36	0.31	0.27	0.21	0.18	0.15	0.12	0.10	
	0.20		0.38	0.32	0.28	0.24	0.20	0.17	0.14	0.11	0.09	
0.30	0.50	0.20	0.49	0.39	0.33	0.28	0.22	0.18	0.15	0.11	0.09	
	0.30		0.42	0.34	0.29	0.25	0.20	0.17	0.14	0.11	0.09	
	0.20		0.37	0.31	0.26	0.23	0.19	0.16	0.13	0.10	0.09	
0.00	0.00	0.00	0.23	0.18	0.15	0.13	0.10	0.08	0.07	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	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.21	
	0.30		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.13	0.14	0.15	0.16	0.18	0.18	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:29W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												