

Report No.:

Test Time: 21.04.2020 15:48

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FT 91 40W 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: 229.3 V

Current: 0.170 A

Power: 38.11 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3341.5 lm

Measurement Flux: 3341.5 lm

Efficiency: 100%

Downward Ratio: 97%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.6, 58.5, 58.5, 59.0

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

Luminaire Efficacy Rating (LER): 87.73

Central Intensity: 9600.58 cd

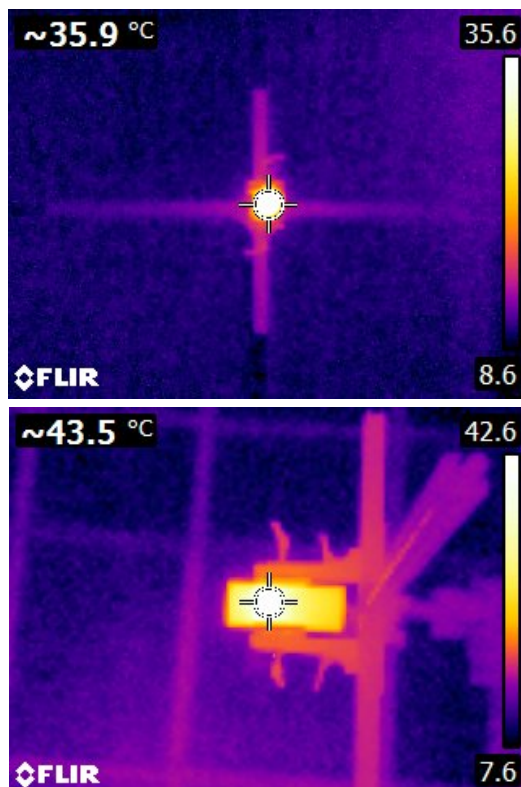
Max. Intensity: 9643.97 cd

Pos of Max. Intensity: H90 V0

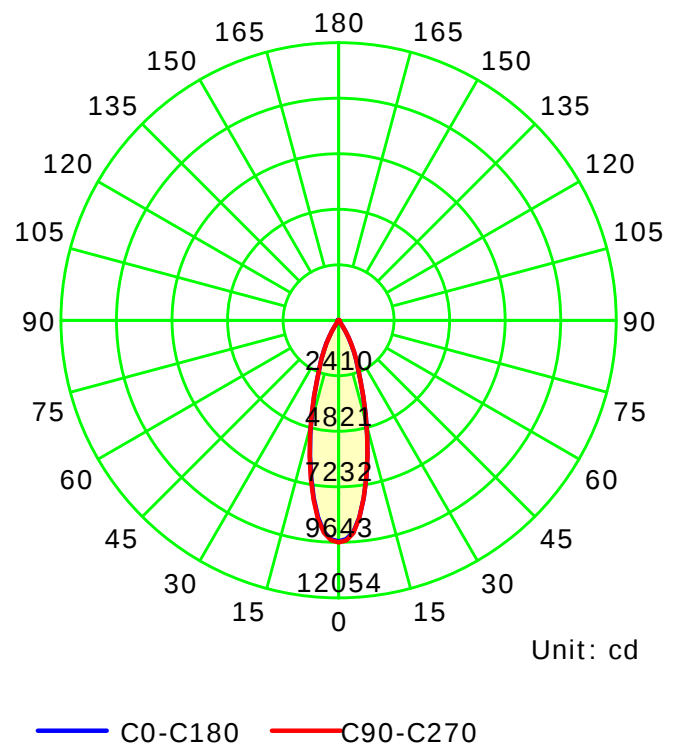
S/MH(C0/C180): 0.49

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

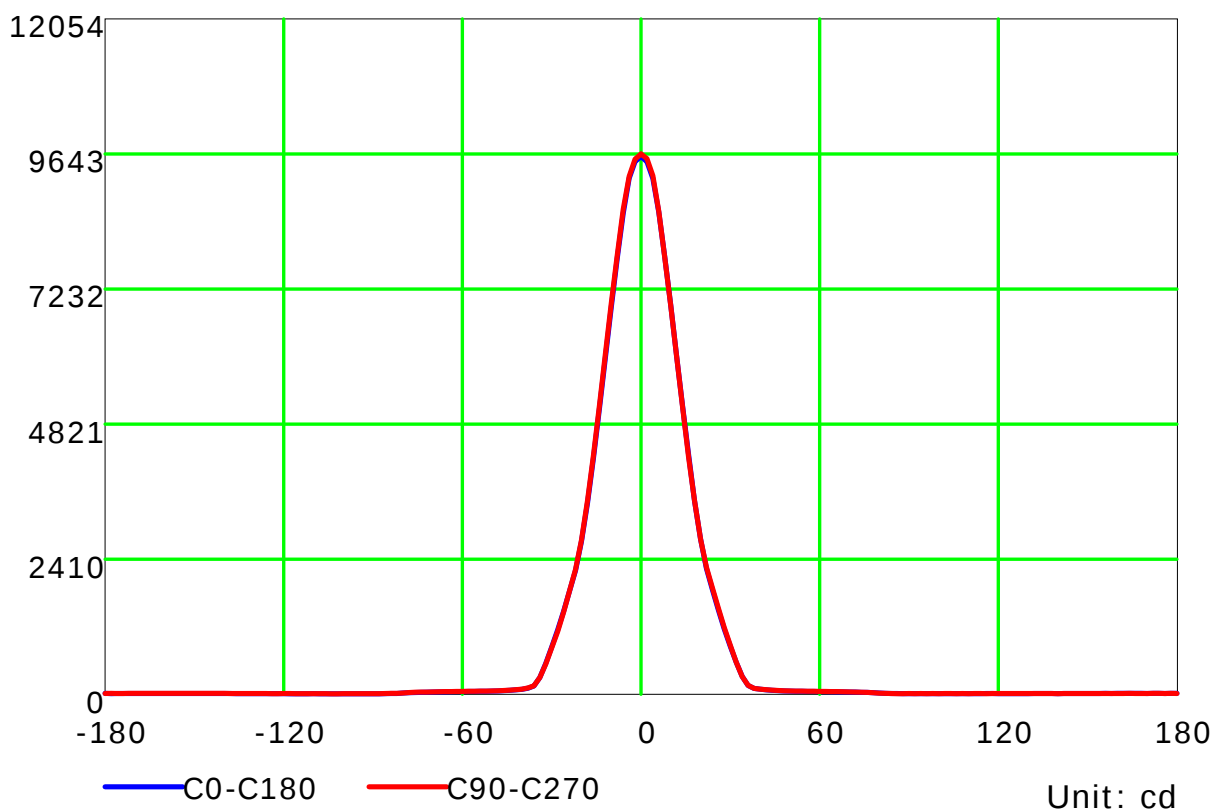
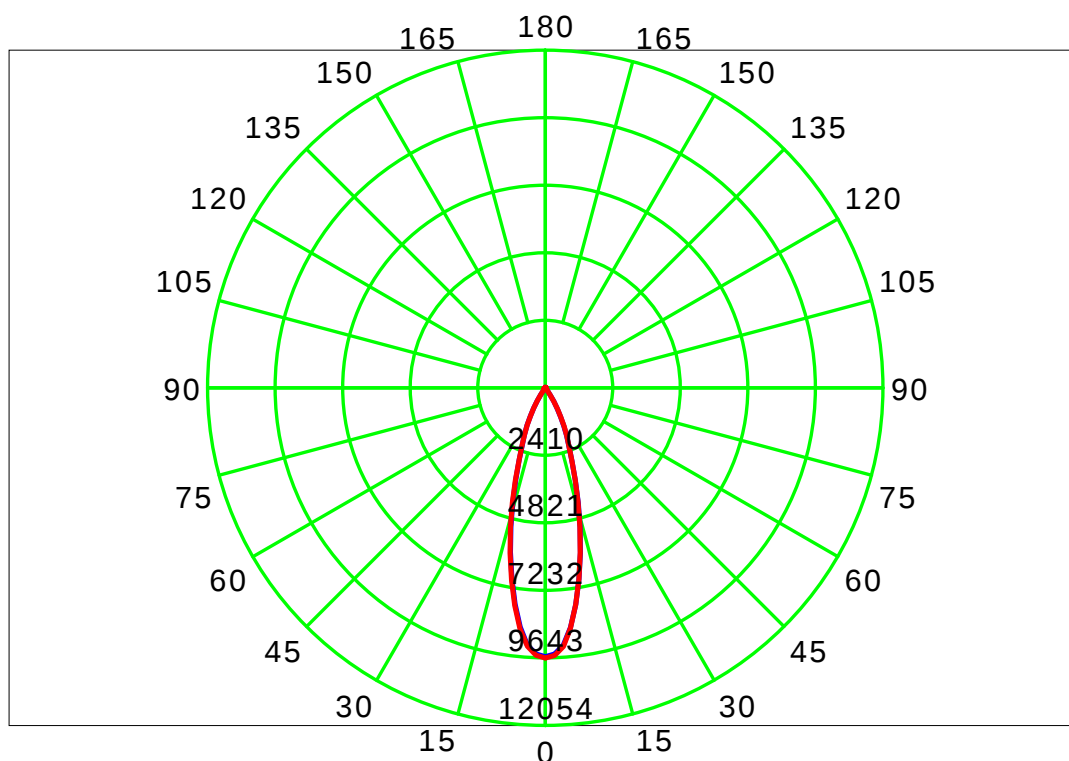
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

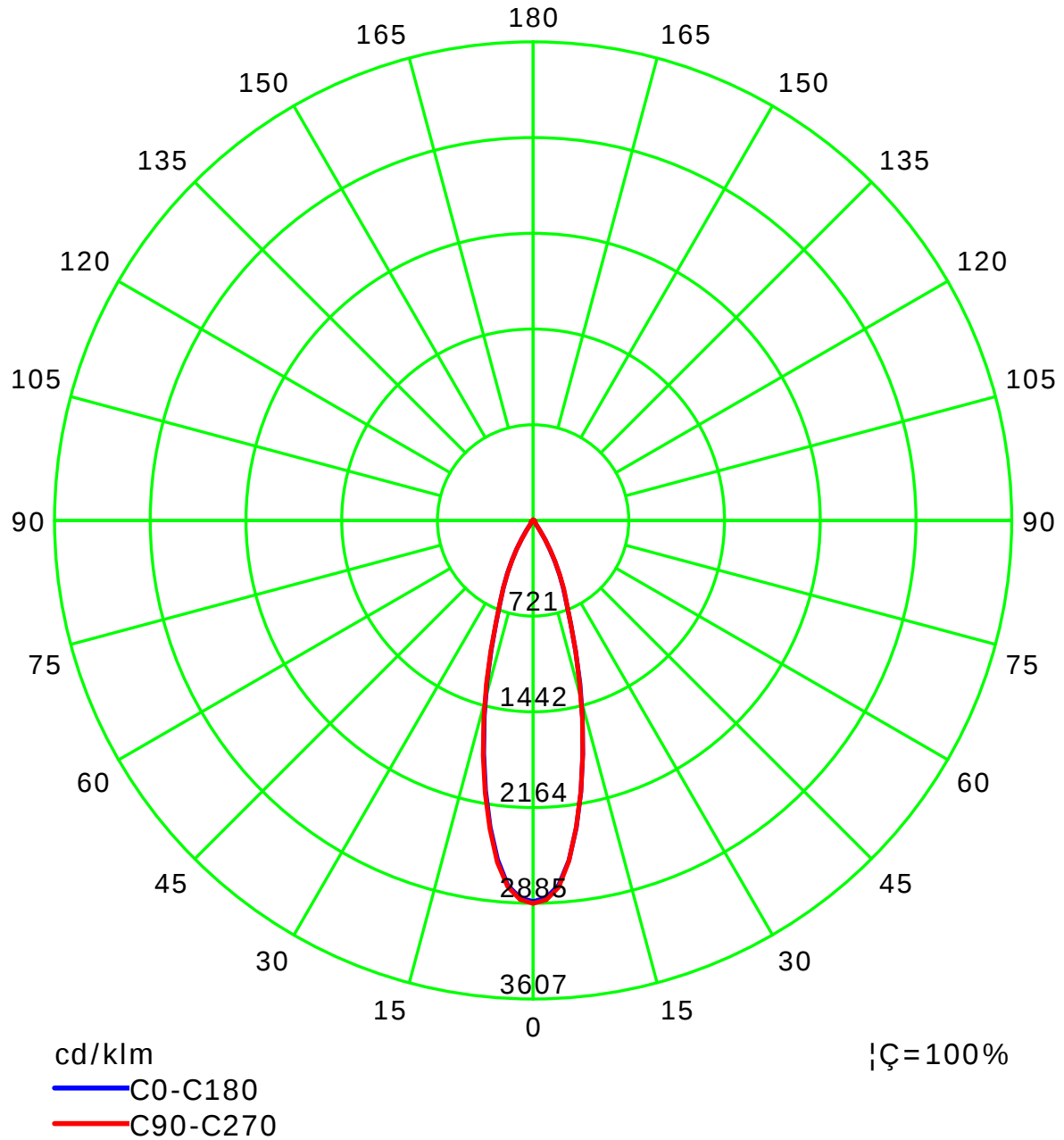
Test Device: LSG-1800B

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

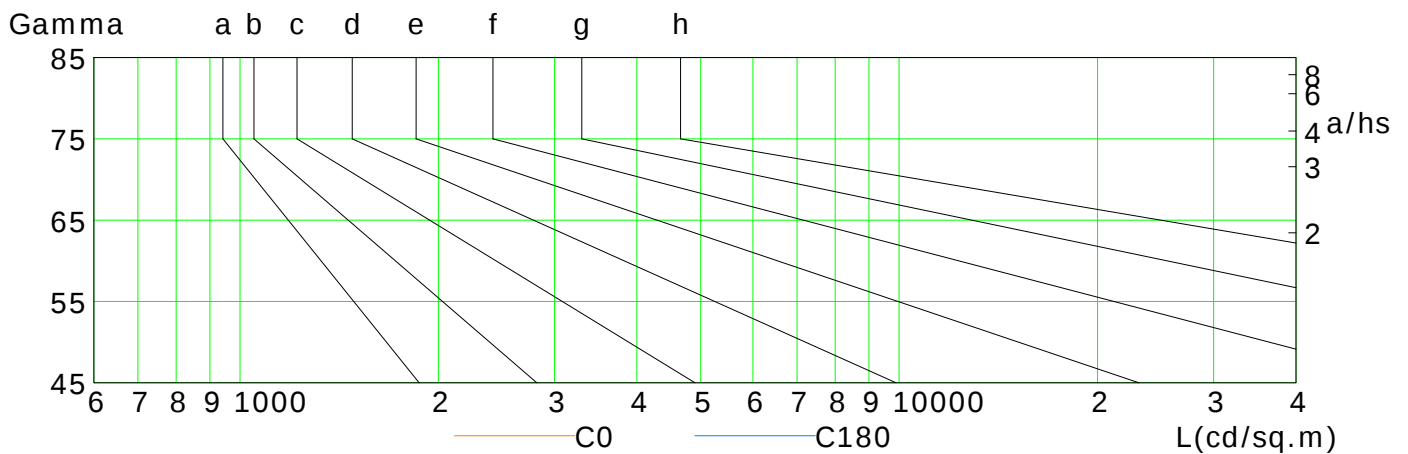
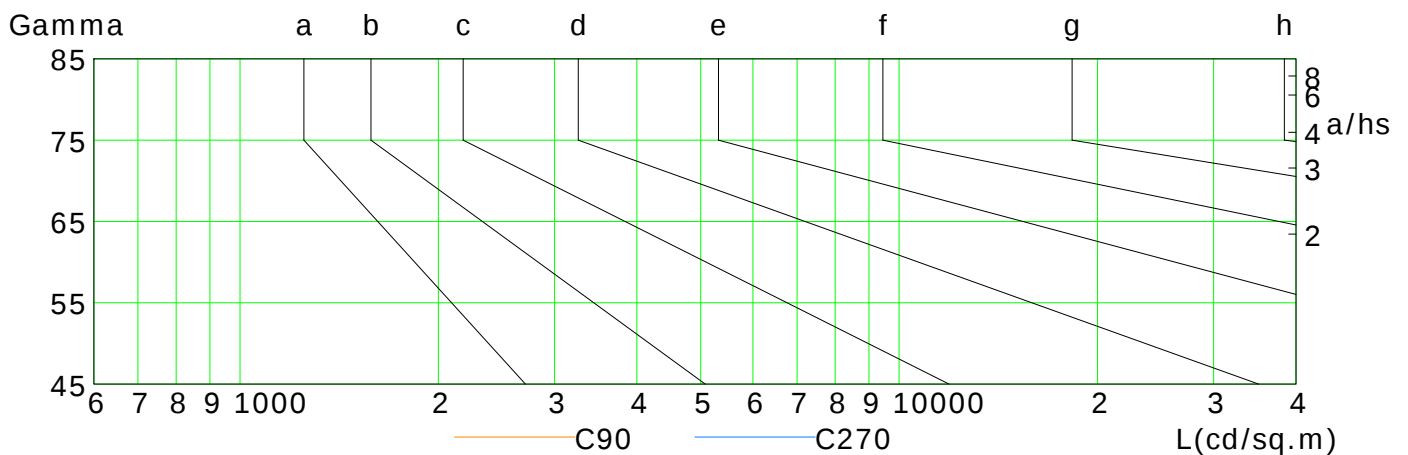
Humidity:

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	71	59	55	51	46	41	36	23	15
C90	73	62	57	53	50	44	37	22	15
C180	70	58	54	50	46	41	35	23	14
C270	74	60	57	52	49	45	39	25	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

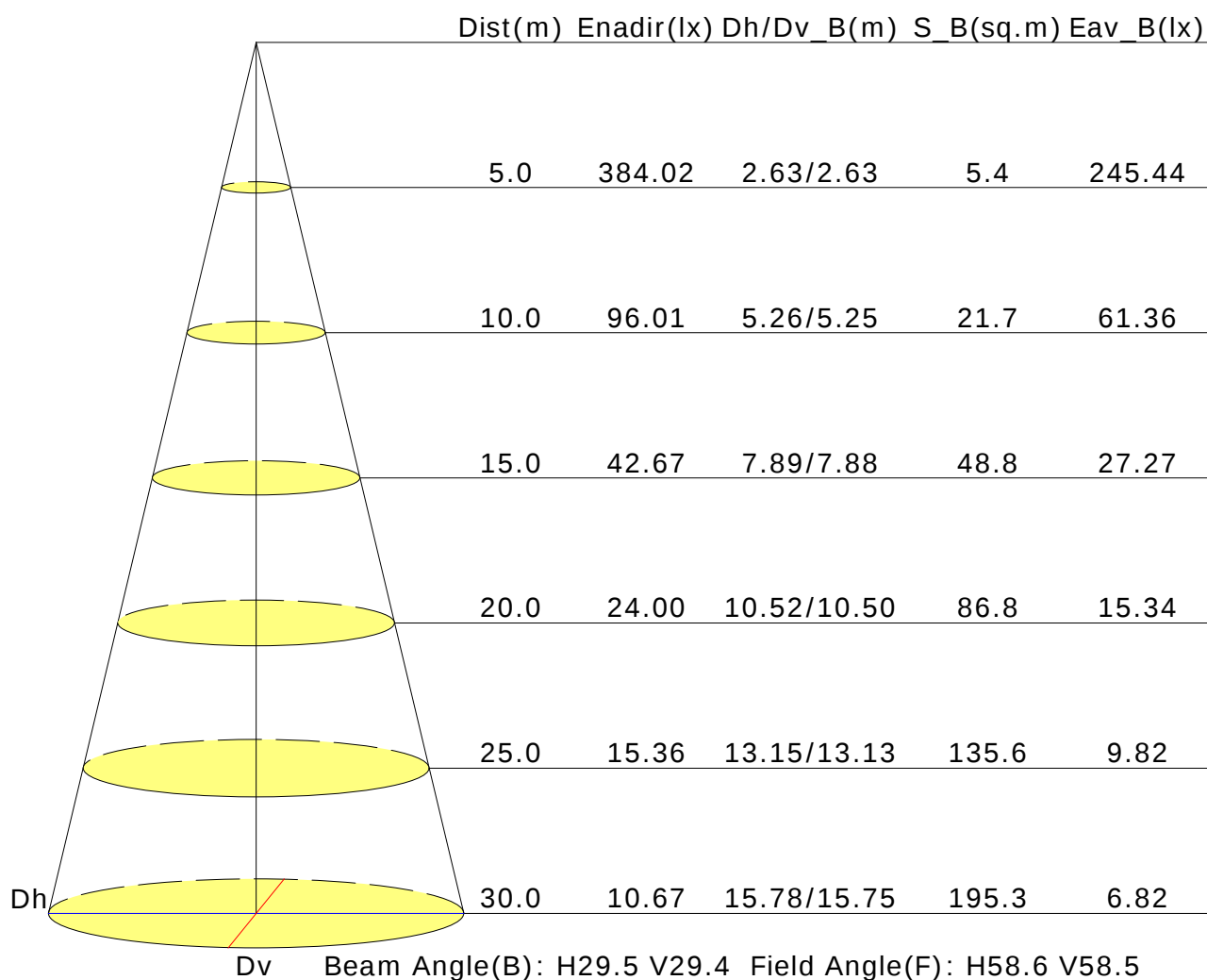
Test Device: LSG-1800B

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.\$	11.0	11.7	11.4	12.0	12.3
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	18.7	19.3	19.1	19.7	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	20.1
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	7.4	8.0	7.8	8.3	8.7
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.\$/1.9					-1.\$/7.2				
S=1.5H	-1.\$/3.5					-1.\$/10.0				
S=2.0H	-1.\$/4.9					-1.\$/12.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3341lm ($8\log(F/F_0) = 4.2$).

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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 = 0.75									
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	0.92	0.96	0.99	1.02	1.05	1.07	1.09	1.11	1.12	
	0.30		0.88	0.93	0.96	0.98	1.02	1.04	1.06	1.08	1.10	
	0.20		0.85	0.90	0.93	0.96	0.99	1.02	1.04	1.07	1.08	
0.50	0.50	0.20	0.90	0.94	0.97	0.99	1.02	1.03	1.05	1.06	1.07	
	0.30		0.87	0.91	0.94	0.96	0.99	1.01	1.03	1.05	1.06	
	0.20		0.85	0.89	0.92	0.94	0.97	0.99	1.01	1.03	1.05	
0.30	0.50	0.20	0.89	0.93	0.95	0.96	0.99	1.00	1.01	1.02	1.03	
	0.30		0.86	0.90	0.92	0.94	0.97	0.98	0.99	1.01	1.02	
	0.20		0.84	0.88	0.90	0.92	0.95	0.97	0.98	1.00	1.01	
0.00	0.00	0.00	0.82	0.86	0.88	0.89	0.91	0.93	0.94	0.95	0.96	
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 = 0.75									
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	0.40	0.34	0.30	0.24	0.20	0.17	0.14	0.11	
	0.30		0.40	0.34	0.30	0.27	0.22	0.18	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	0.45	0.37	0.32	0.27	0.22	0.22	0.16	0.12	0.10	
	0.30		0.38	0.32	0.28	0.25	0.20	0.17	0.15	0.11	0.10	
	0.20		0.33	0.28	0.25	0.22	0.18	0.16	0.14	0.11	0.09	
0.30	0.50	0.20	0.43	0.34	0.29	0.25	0.20	0.16	0.14	0.11	0.09	
	0.30		0.36	0.30	0.26	0.23	0.18	0.15	0.13	0.10	0.09	
	0.20		0.32	0.27	0.24	0.21	0.17	0.14	0.12	0.10	0.08	
0.00	0.00	0.00	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.04	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 = 0.75									
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	0.21	0.22	0.23	0.24	
	0.30		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.22	
	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	0.14	0.16	0.17	0.18	0.20	0.21	0.21	0.22	0.23	
	0.30		0.11	0.13	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	0.18	0.20	0.20	
0.30	0.50	0.20	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.22	
	0.30		0.11	0.13	0.14	0.15	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												