

Report No.: 1

Test Time: 31.03.2020 14:45

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FT 91 30W Samsung D2 40W 90 2700K 5EA s draiverom professional 1-10 28 gr.

Luminous Length (mm): 210

Luminous Height (mm): -91

Current: 0.135 A

Luminous Width (mm): -91

Voltage: 229.2 V

Power: 30.04 W

Power Factor: 0.967

Photometric Results

CIE Class: Direct

Measurement Flux: 2581.2 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 60.5, 60.0, 60.2, 60.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 32.6, 32.5, 32.5, 32.6

Luminaire Efficacy Rating (LER): 85.97

Max. Intensity: 6857.63 cd

S/MH(C0/C180): 0.53

Total Rated Lamp Lumens: 2581.2 lm

Efficiency: 100%

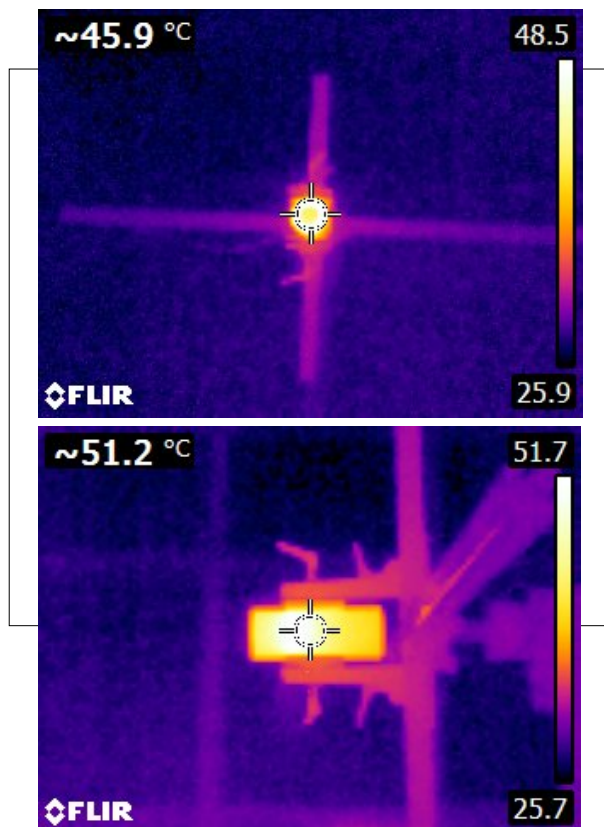
Upward Ratio: 3%

Central Intensity: 6827.85 cd

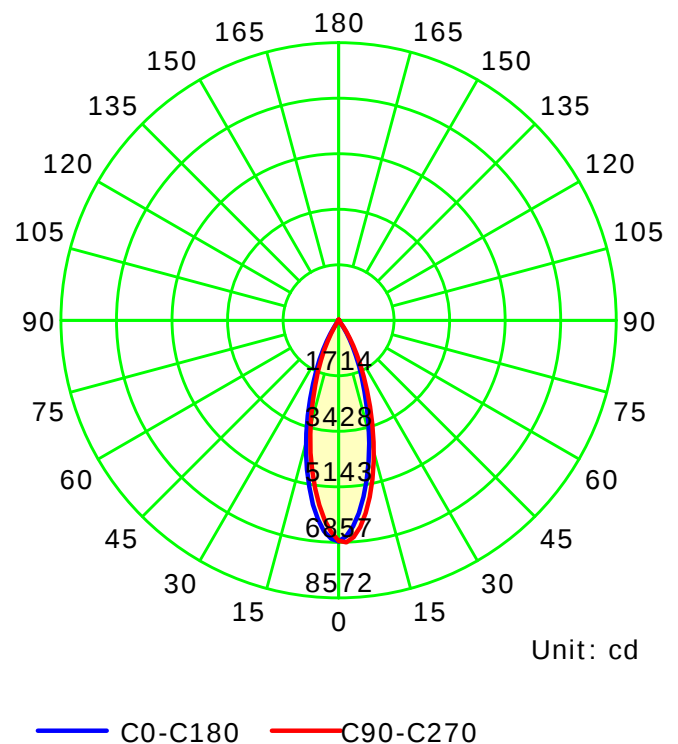
Pos of Max. Intensity: H90 V2

S/MH(C90/C270): 0.54

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

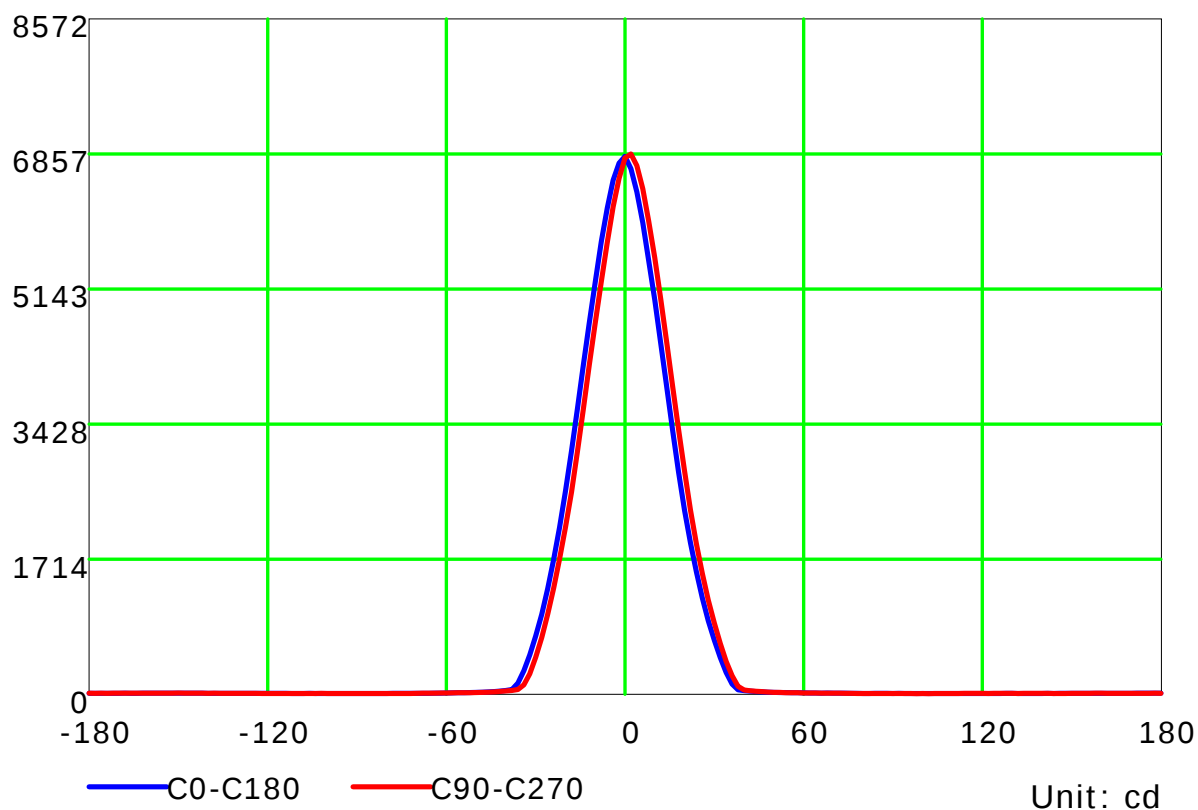
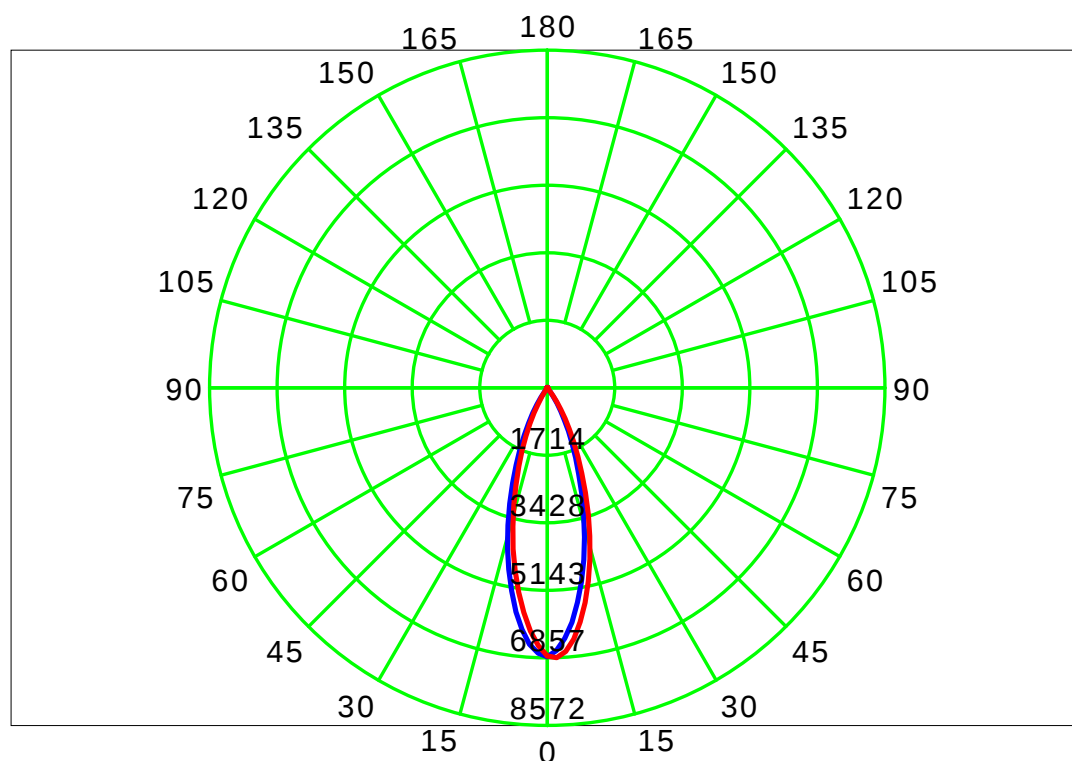
Test Device: LSG-1800B

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

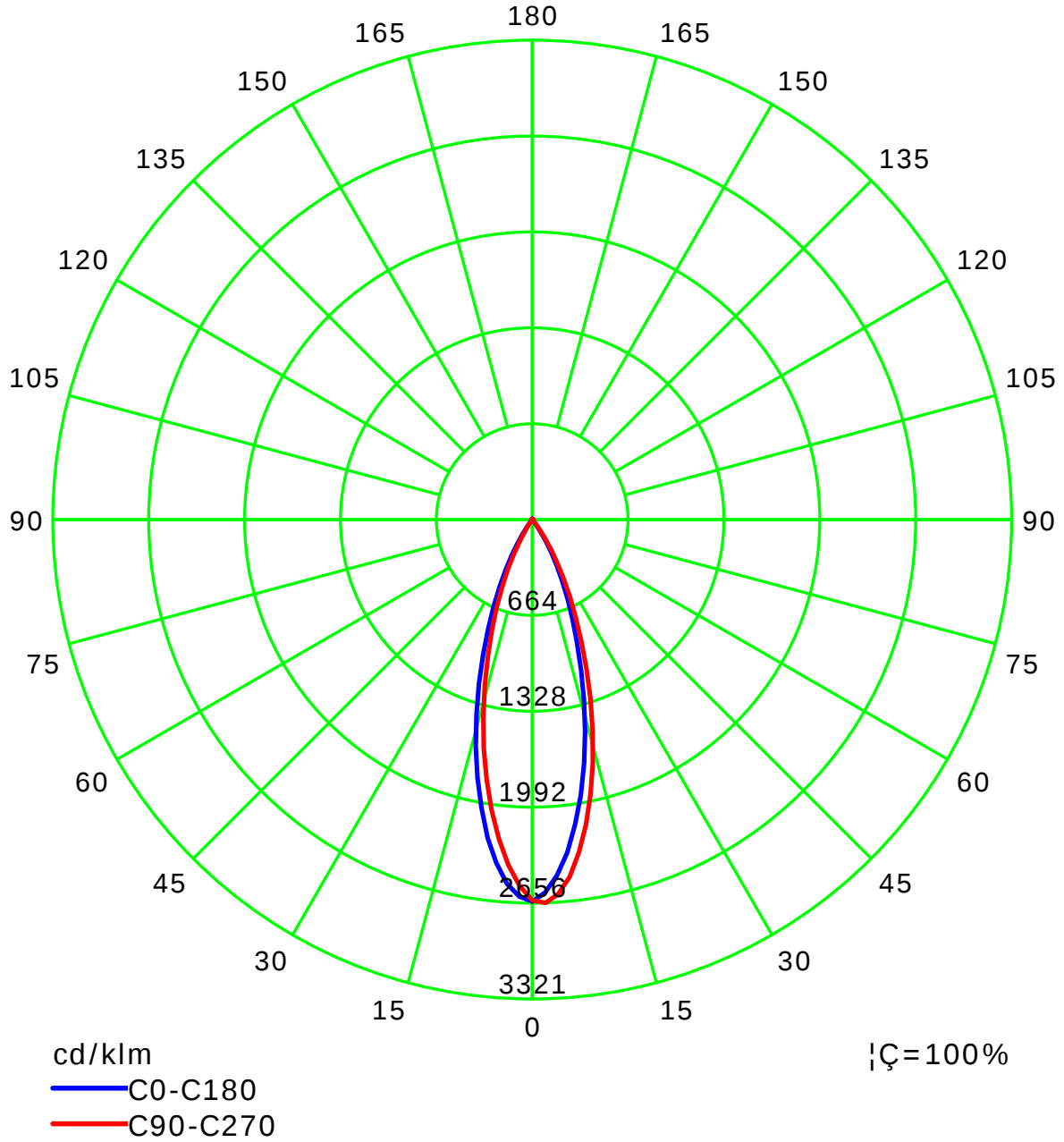
Test Device: LSG-1800B

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

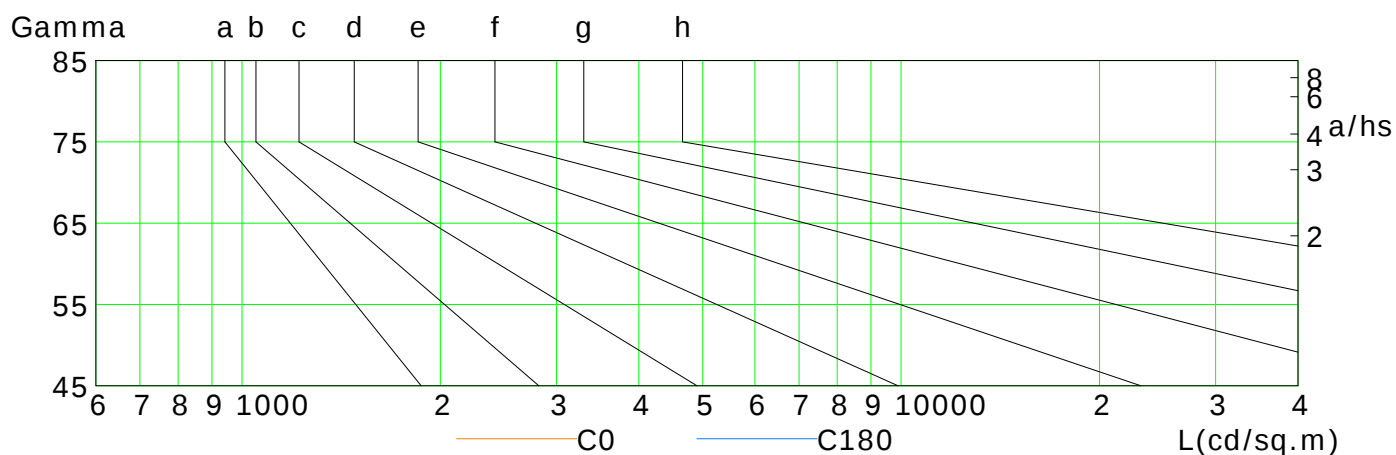
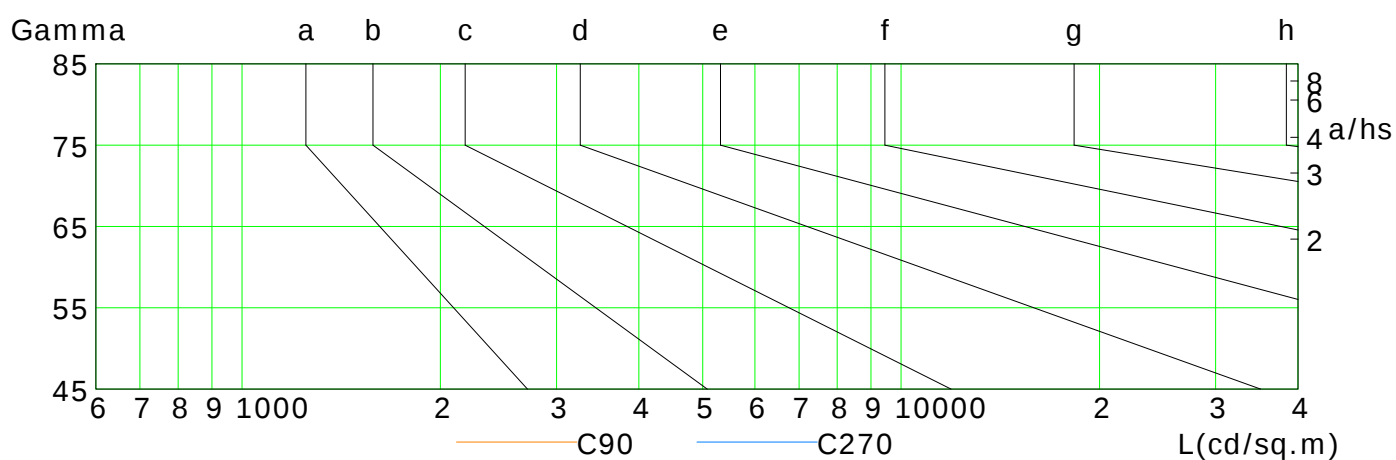
Humidity:

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	34	26	22	19	17	15	14	12	12
C90	38	26	21	18	17	15	13	11	11
C180	34	24	21	17	14	14	13	12	12
C270	30	23	21	17	15	14	12	12	12

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

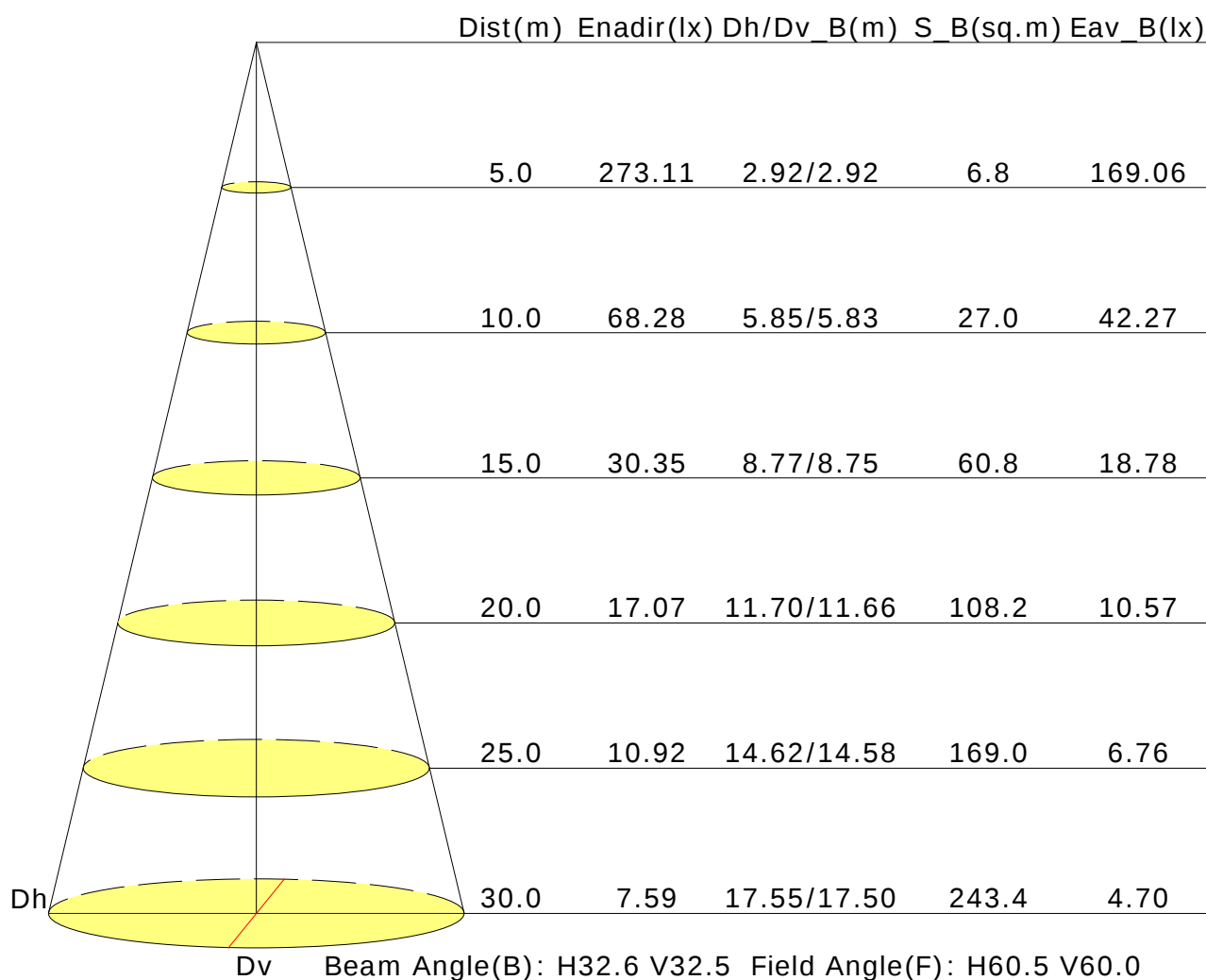
Test Device: LSG-1800B

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.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
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.\$	-13.0	-12.4	-12.6	-12.1	-11.7
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	3.1	3.6	3.5	4.0	4.4
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
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.\$/4.5					-1.\$/5.6				
S=1.5H	-1.\$/7.0					-1.\$/7.9				
S=2.0H	-1.\$/8.8					-1.\$/10.1				

Calculate in accordance with CIE Pub.117. The table is revised with 2581lm ($8\log(F/F_0) = 3.3$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

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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	0.97	1.00	1.02	1.05	1.07	1.09	1.11	1.12	
	0.30		0.89	0.93	0.97	0.99	1.02	1.05	1.06	1.09	1.10	
	0.20		0.86	0.91	0.94	0.96	1.00	1.03	1.04	1.07	1.09	
0.50	0.50	0.20	0.91	0.95	0.98	1.00	1.02	1.04	1.05	1.06	1.07	
	0.30		0.88	0.92	0.95	0.97	1.00	1.02	1.03	1.05	1.06	
	0.20		0.85	0.90	0.93	0.95	0.98	1.00	1.01	1.03	1.05	
0.30	0.50	0.20	0.90	0.93	0.96	0.97	0.99	1.00	1.01	1.02	1.03	
	0.30		0.87	0.91	0.93	0.95	0.97	0.99	1.00	1.01	1.02	
	0.20		0.85	0.89	0.91	0.93	0.96	0.97	0.99	1.00	1.01	
0.00	0.00	0.00	0.83	0.87	0.89	0.90	0.92	0.93	0.94	0.95	0.96	
Rating:30W 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	0.47	0.38	0.33	0.29	0.23	0.19	0.16	0.13	0.10	
	0.30		0.39	0.33	0.29	0.25	0.21	0.17	0.15	0.12	0.10	
	0.20		0.33	0.29	0.25	0.23	0.19	0.16	0.14	0.11	0.10	
0.50	0.50	0.20	0.44	0.35	0.30	0.26	0.21	0.21	0.15	0.11	0.09	
	0.30		0.37	0.31	0.26	0.23	0.19	0.16	0.14	0.11	0.09	
	0.20		0.32	0.27	0.24	0.21	0.17	0.15	0.13	0.10	0.09	
0.30	0.50	0.20	0.41	0.33	0.27	0.24	0.19	0.15	0.13	0.10	0.08	
	0.30		0.35	0.29	0.25	0.21	0.17	0.14	0.12	0.10	0.08	
	0.20		0.31	0.26	0.22	0.20	0.16	0.13	0.12	0.09	0.08	
0.00	0.00	0.00	0.16	0.12	0.10	0.09	0.07	0.06	0.05	0.04	0.03	
Rating:30W 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	0.20	0.21	0.22	0.23	0.24	
	0.30		0.12	0.14	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	0.21	
0.30	0.50	0.20	0.14	0.15	0.17	0.18	0.19	0.20	0.20	0.21	0.22	
	0.30		0.11	0.13	0.14	0.16	0.17	0.18	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:30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												