

Report No.: 1

Test Time: 31.03.2020 14:13

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FT 91 30W Samsung D2 40W 90 2700K 5EA s draiverom professional 1-10 15 gr.

Luminous Length (mm): 210

Luminous Height (mm): -91

Current: 0.135 A

Luminous Width (mm): -91

Voltage: 229.0 V

Power: 30.00 W

Power Factor: 0.965

Photometric Results

CIE Class: Direct

Measurement Flux: 2555.1 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 57.3, 56.9, 57.2, 56.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 26.9, 27.1, 26.8, 27.0

Luminaire Efficacy Rating (LER): 85.22

Max. Intensity: 8164.96 cd

S/MH(C0/C180): 0.46

Total Rated Lamp Lumens: 2555.1 lm

Efficiency: 100%

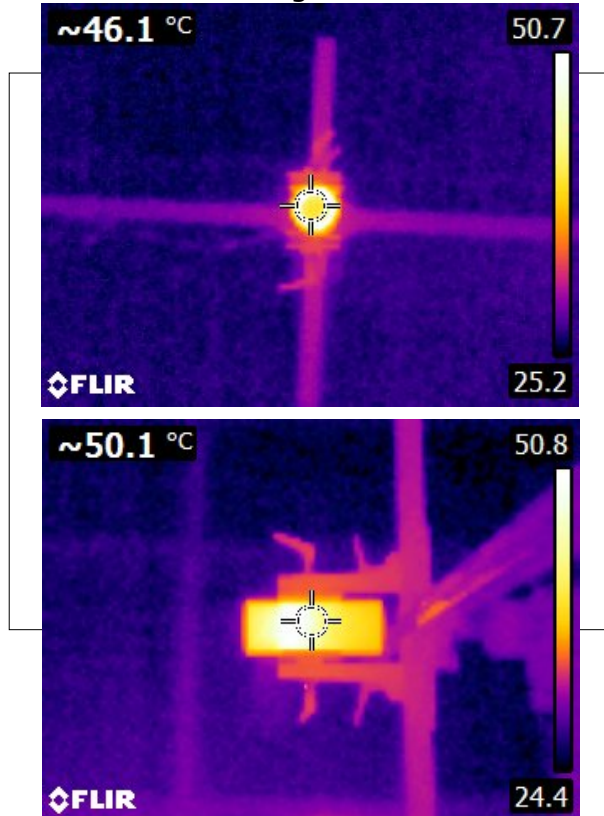
Upward Ratio: 3%

Central Intensity: 8076.51 cd

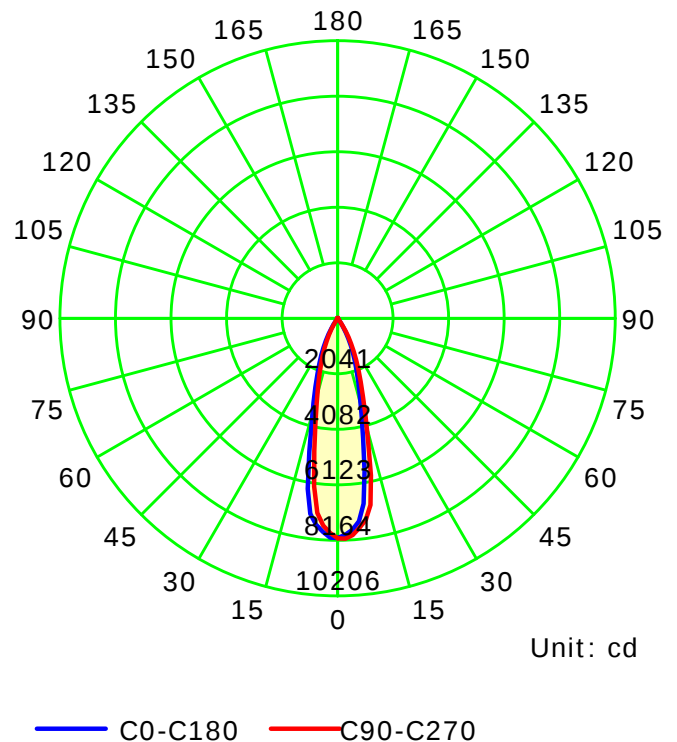
Pos of Max. Intensity: H157.5 V2

S/MH(C90/C270): 0.47

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

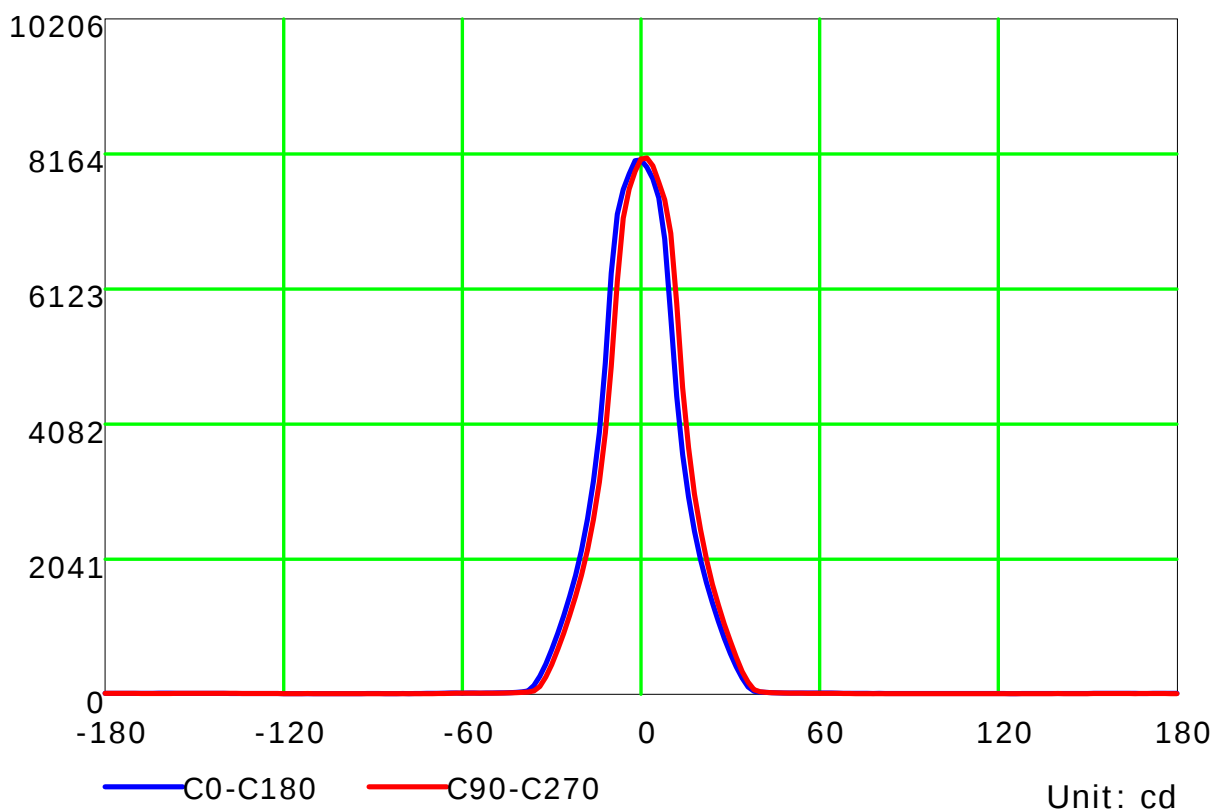
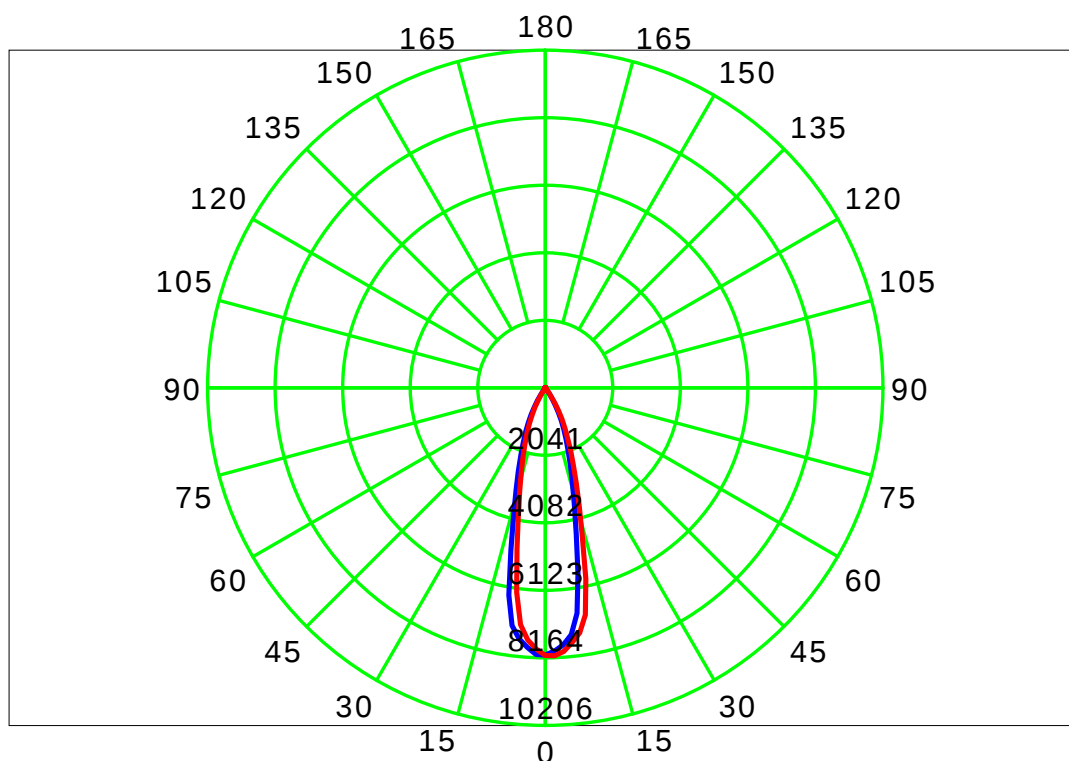
Test Device: LSG-1800B

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

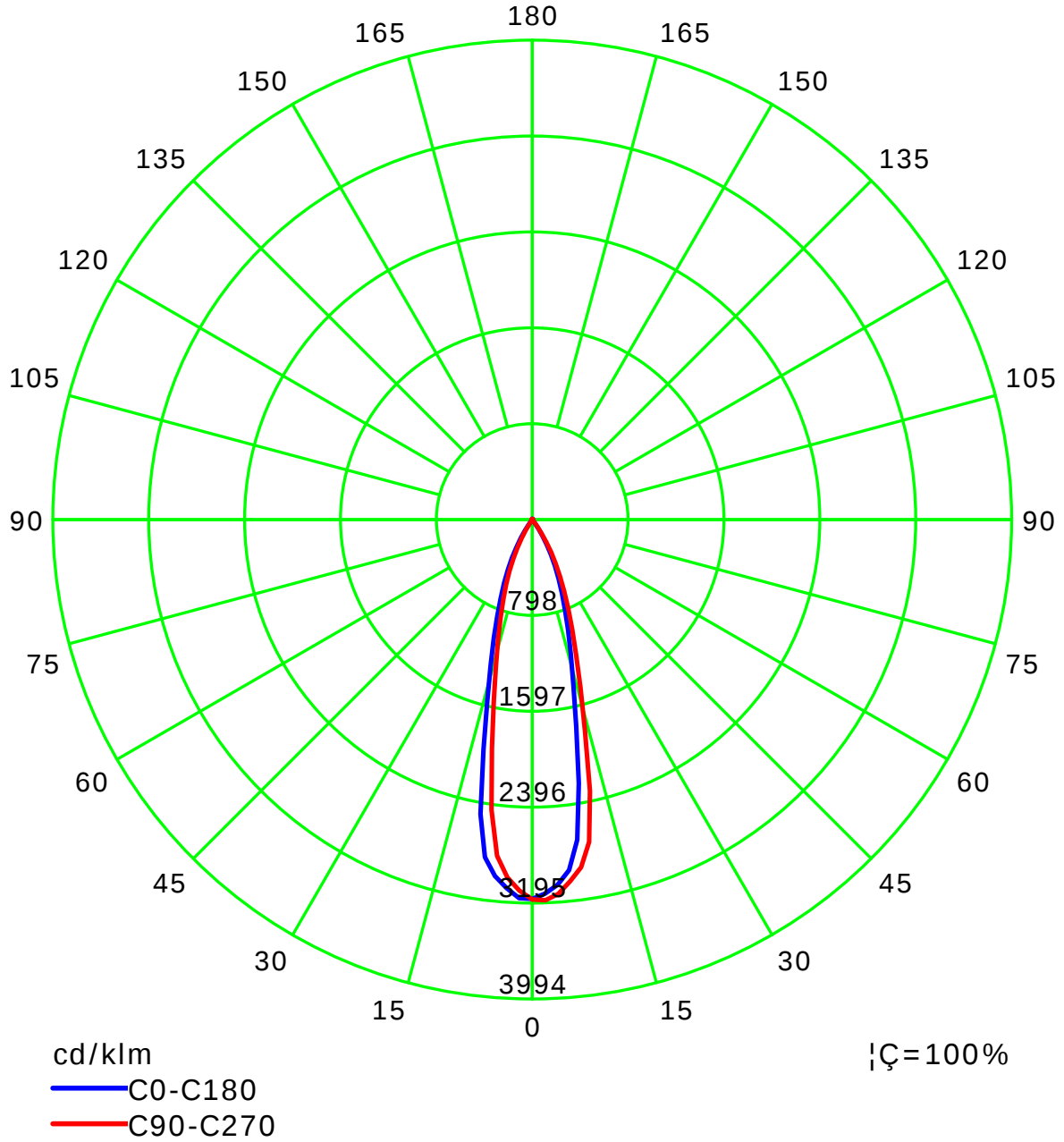
Test Device: LSG-1800B

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

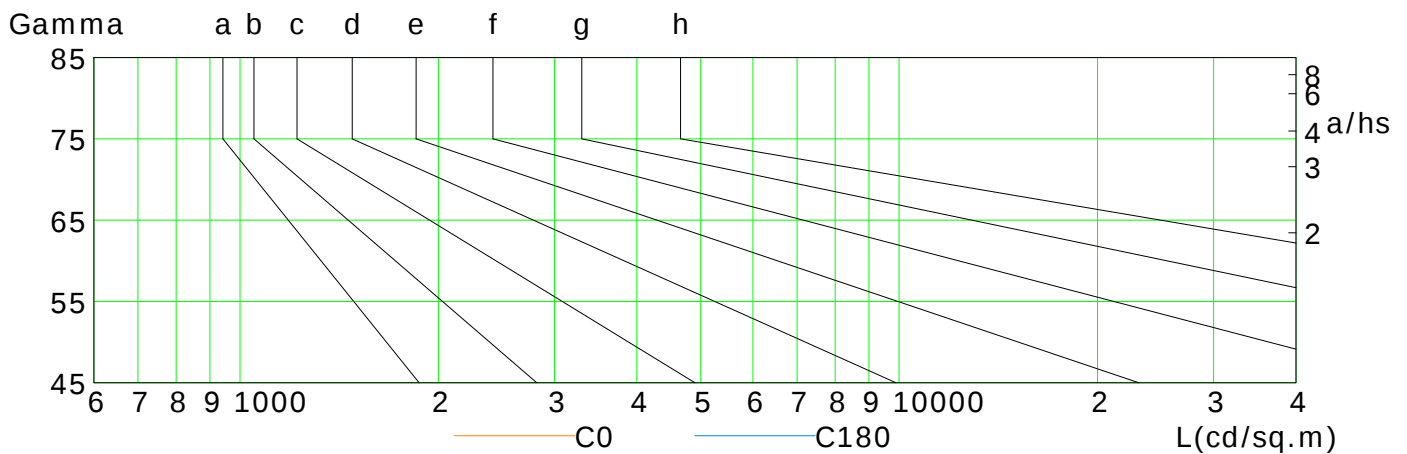
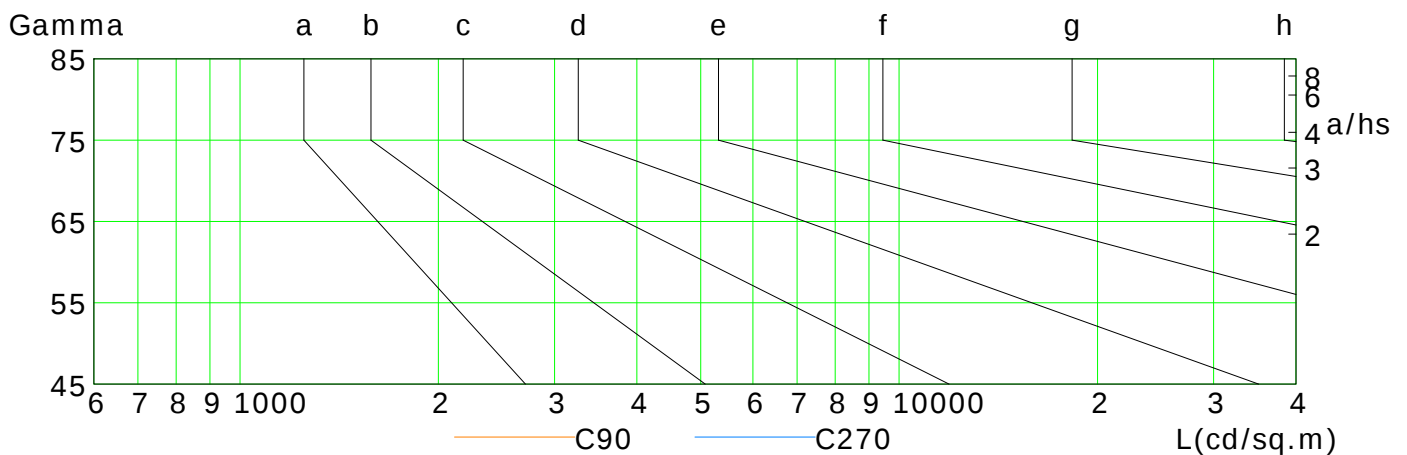
Humidity:

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	25	21	20	20	19	16	15	15	14
C90	24	18	17	15	16	12	11	10	11
C180	25	21	19	19	19	15	14	13	11
C270	21	18	18	18	14	12	12	11	11

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

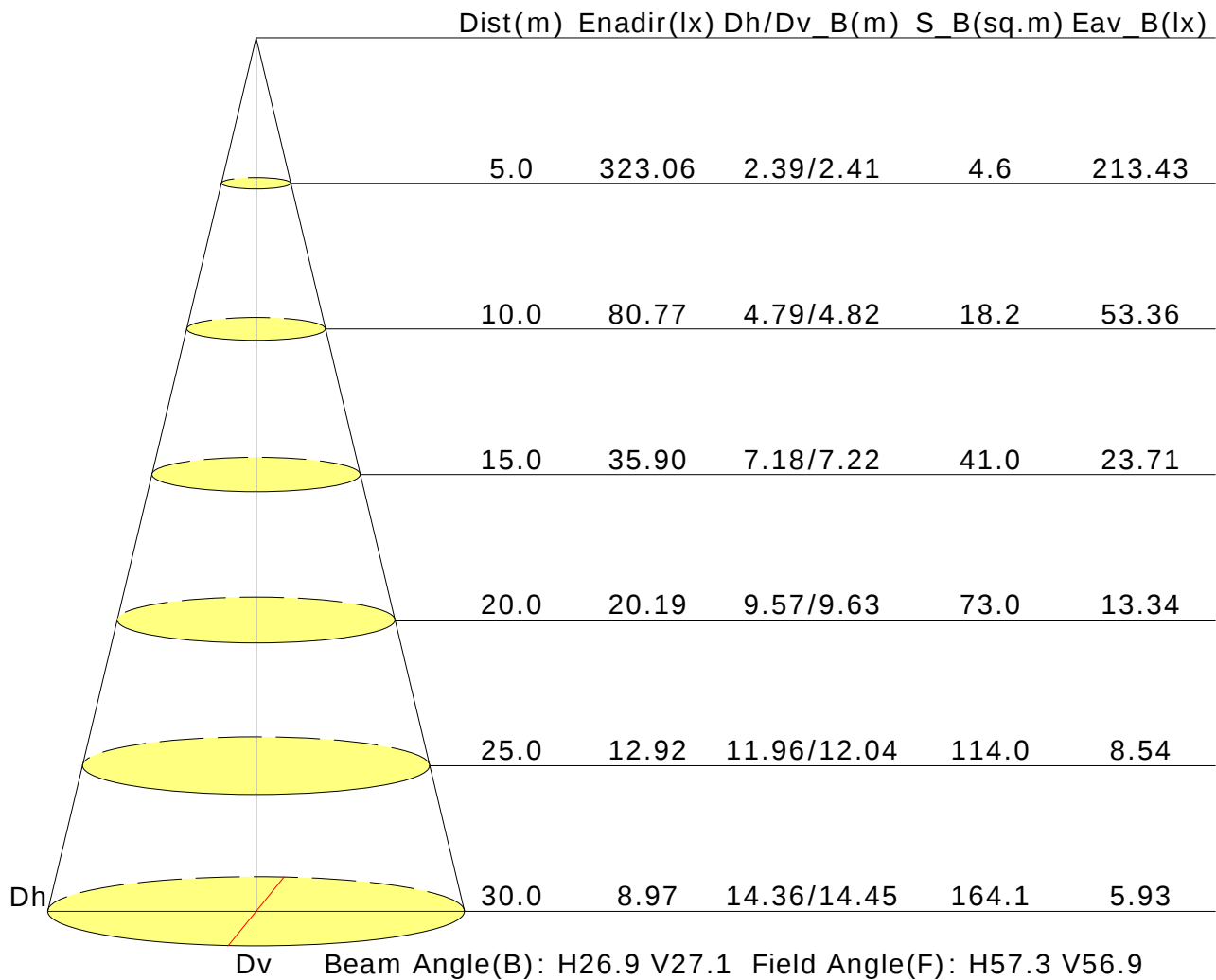
Test Device: LSG-1800B

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.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	2.4	2.9	2.8	3.3	3.7
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.\$/4.1					-1.\$/5.2				
S=1.5H	-1.\$/6.5					-1.\$/8.1				
S=2.0H	-1.\$/8.3					-1.\$/9.7				

Calculate in accordance with CIE Pub.117. The table is revised with 2555lm ($8\log(F/F_0) = 3.3$).

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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 = 0.50									
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	0.88	0.93	0.97	0.99	1.03	1.05	1.07	1.09	1.10	
	0.30		0.83	0.89	0.93	0.96	1.00	1.02	1.04	1.07	1.09	
	0.20		0.80	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	0.94	0.97	1.00	1.02	1.03	1.05	1.06	
	0.30		0.82	0.88	0.91	0.94	0.97	0.99	1.01	1.03	1.04	
	0.20		0.80	0.85	0.89	0.91	0.95	0.97	0.99	1.01	1.03	
0.30	0.50	0.20	0.85	0.89	0.92	0.94	0.97	0.98	0.99	1.01	1.02	
	0.30		0.81	0.86	0.89	0.92	0.95	0.96	0.98	0.99	1.00	
	0.20		0.79	0.84	0.87	0.90	0.93	0.95	0.96	0.98	0.99	
0.00	0.00	0.00	0.77	0.82	0.85	0.87	0.89	0.91	0.92	0.93	0.94	
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 = 0.50									
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	0.53	0.43	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
	0.30		0.44	0.37	0.32	0.28	0.23	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	
0.50	0.50	0.20	0.50	0.40	0.33	0.29	0.23	0.23	0.16	0.12	0.10	
	0.30		0.42	0.35	0.29	0.26	0.21	0.17	0.15	0.12	0.10	
	0.20		0.36	0.31	0.26	0.23	0.19	0.16	0.14	0.11	0.09	
0.30	0.50	0.20	0.47	0.37	0.31	0.26	0.21	0.17	0.14	0.11	0.09	
	0.30		0.40	0.33	0.28	0.24	0.19	0.16	0.14	0.11	0.09	
	0.20		0.35	0.29	0.25	0.22	0.18	0.15	0.13	0.10	0.08	
0.00	0.00	0.00	0.21	0.16	0.13	0.11	0.09	0.07	0.06	0.05	0.04	
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 = 0.50									
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	0.15	0.17	0.18	0.19	0.21	0.22	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	0.15	0.16	0.18	0.19	0.20	0.21	0.21	0.22	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	0.13	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	0.16	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:30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												