

Report No.: 1

Test Time: 27.05.2019 13:05

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 61 2x120 LED 0,35A 33W DALI

Lamp Description: LED

Luminous Width (mm): 60

Voltage: 221.4 V

Power: 32.11 W

Luminous Length (mm): 1550

Luminous Height (mm): 83

Current: 0.147 A

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 4636 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.5, 145.7, 148.6, 148.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 95.7, 90.2, 91.4, 92.1

Luminaire Efficacy Rating (LER): 144.43

Max. Intensity: 2097.63 cd

S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 4636.0 lm

Efficiency: 100%

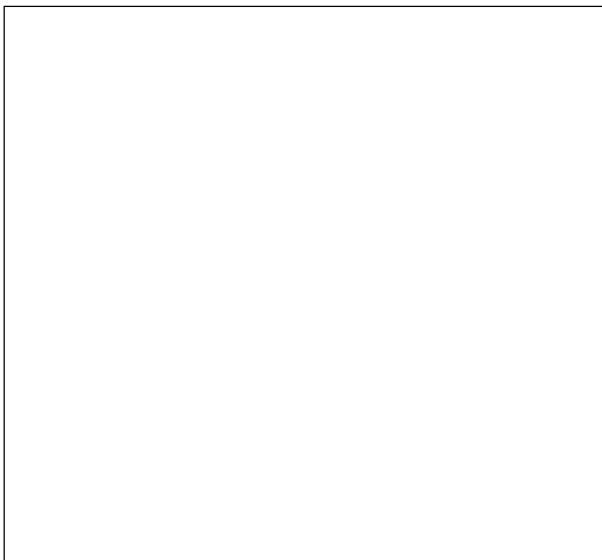
Upward Ratio: 0%

Central Intensity: 2093.02 cd

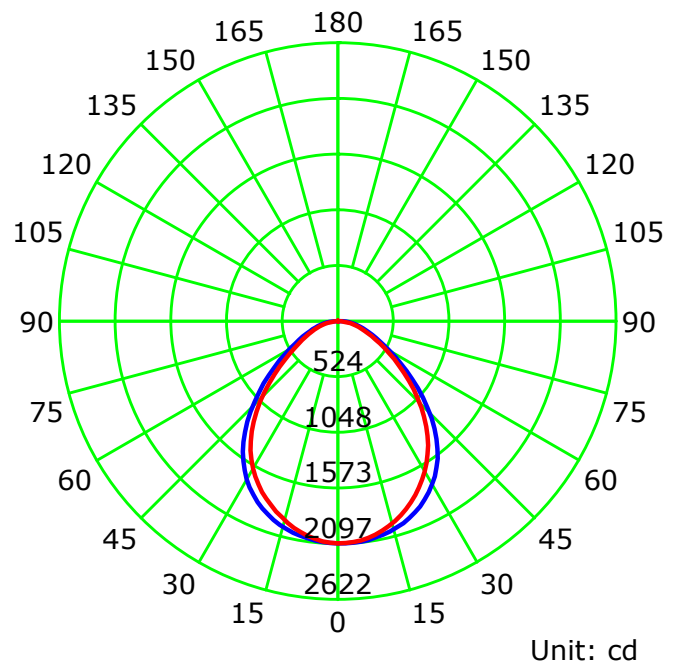
Pos of Max. Intensity: H15 V2

S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

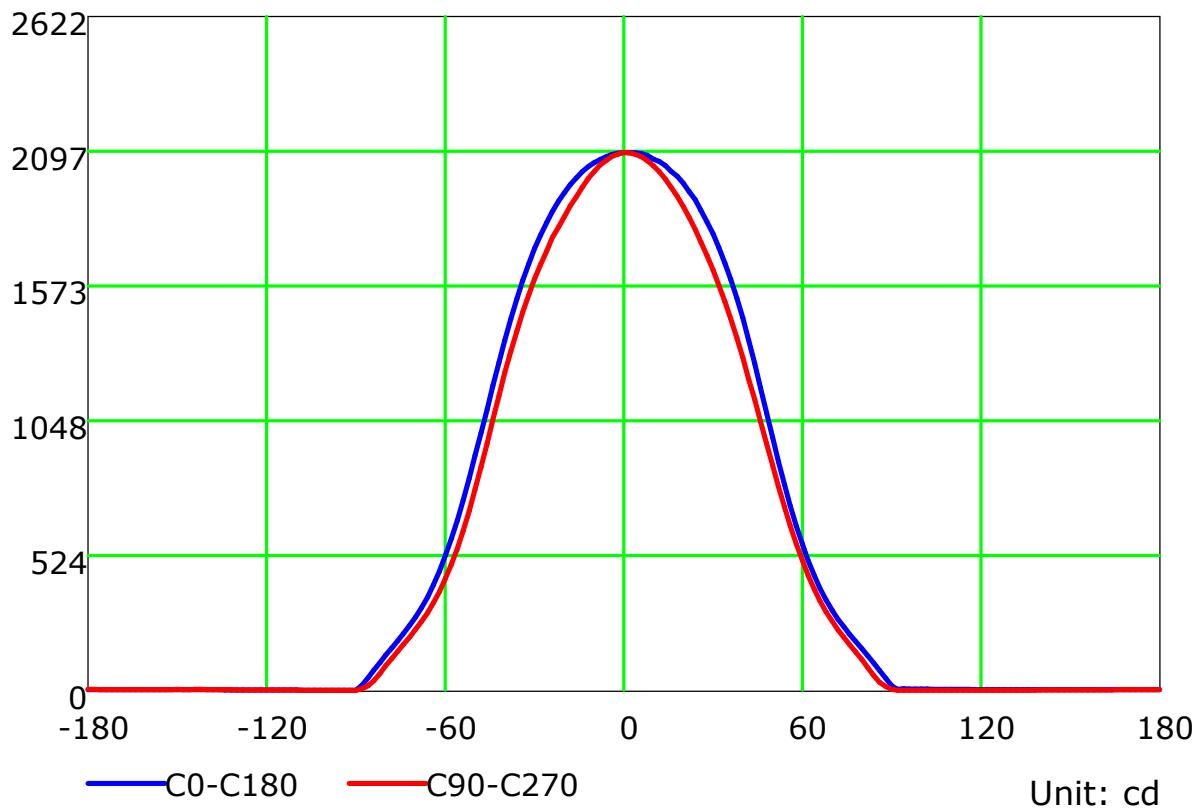
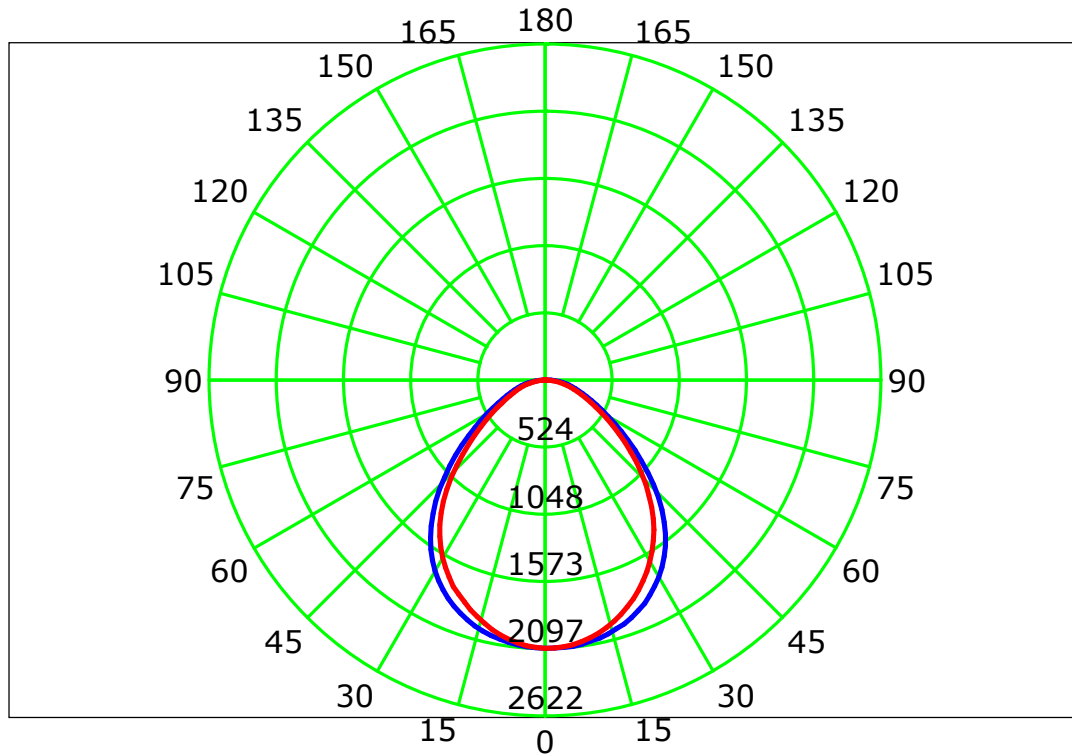
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

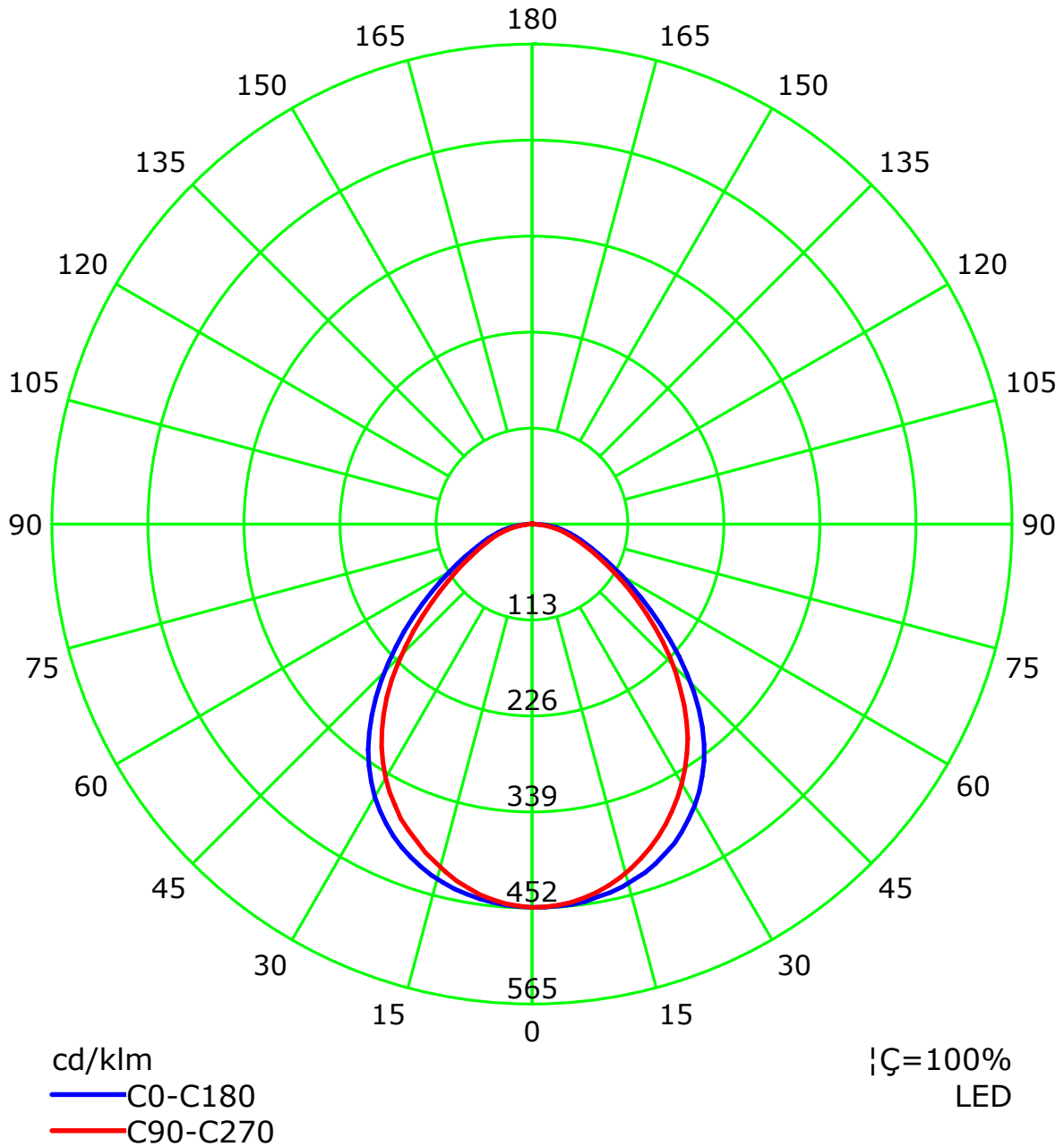
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.654 m

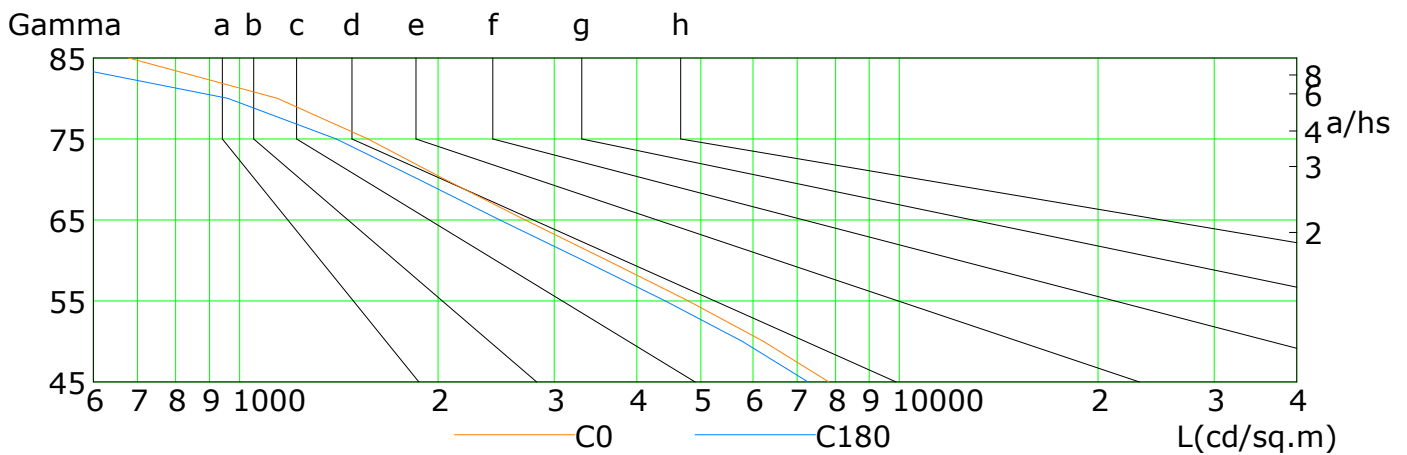
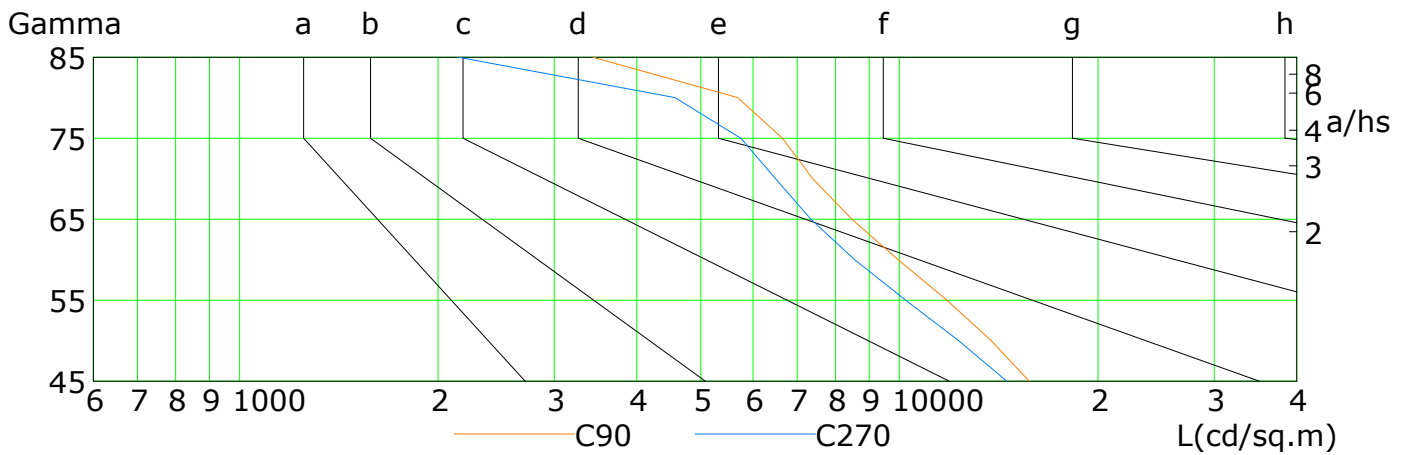
Humidity:

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	7816	6216	4789	3606	2710	2046	1565	1141	679
C90	15733	13780	11800	9954	8474	7383	6652	5689	3432
C180	7275	5774	4416	3316	2481	1867	1401	959	474
C270	14548	12284	10219	8546	7341	6489	5752	4570	2147

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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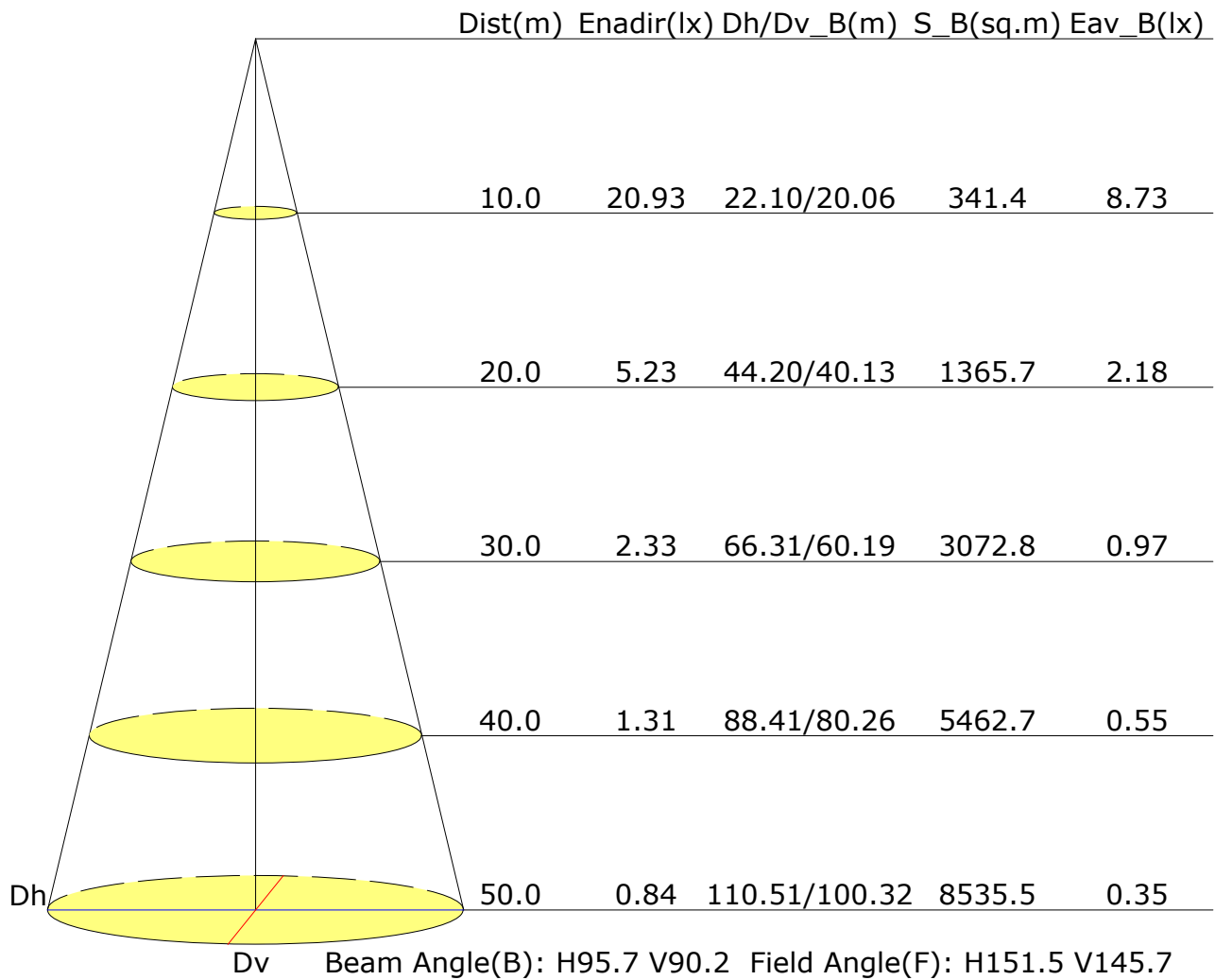
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

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	18.0	19.3	18.3	19.5	19.7	19.0	20.3	19.3	20.5	20.8
3H	18.6	19.7	18.9	20.0	20.3	19.9	21.0	20.2	21.3	21.6
4H	18.8	19.9	19.1	20.2	20.5	20.2	21.3	20.6	21.6	21.9
6H	19.0	20.0	19.3	20.3	20.6	20.5	21.5	20.8	21.8	22.1
8H	19.0	20.0	19.4	20.3	20.6	20.6	21.5	20.9	21.8	22.2
12H	19.0	20.0	19.4	20.3	20.6	20.6	21.5	21.0	21.8	22.2
X=4H Y=2H	18.3	19.4	18.6	19.7	20.0	19.2	20.3	19.5	20.6	20.9
3H	19.0	20.0	19.4	20.3	20.6	20.2	21.1	20.5	21.4	21.8
4H	19.4	20.2	19.8	20.5	20.9	20.6	21.4	21.0	21.8	22.2
6H	19.6	20.4	20.0	20.7	21.1	20.9	21.7	21.4	22.1	22.5
8H	19.7	20.4	20.1	20.8	21.2	21.0	21.7	21.5	22.1	22.6
12H	19.8	20.4	20.2	20.8	21.2	21.1	21.7	21.5	22.1	22.6
X=8H Y=4H	19.5	20.2	19.9	20.6	21.0	20.6	21.3	21.1	21.7	22.1
6H	19.8	20.4	20.3	20.8	21.3	21.1	21.6	21.5	22.0	22.5
8H	20.0	20.4	20.5	20.9	21.4	21.2	21.7	21.7	22.1	22.6
12H	20.1	20.5	20.6	21.0	21.5	21.3	21.7	21.8	22.2	22.7
X=12H Y=4H	19.5	20.1	19.9	20.5	21.0	20.6	21.2	21.1	21.7	22.1
6H	19.9	20.3	20.3	20.8	21.3	21.1	21.5	21.6	22.0	22.5
8H	20.0	20.4	20.5	20.9	21.4	21.2	21.6	21.7	22.1	22.6
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.3/-0.4				
S=1.5H	+0.8/-1.4					+1.0/-1.1				
S=2.0H	+1.7/-2.1					+2.0/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 4636lm ($8\log(F/F_0) = 5.3$).

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