

Report No.: 1

Test Time: 28.06.2019 16:02

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FP 250 10W 4000K

Luminous Length (mm): 138

Luminous Height (mm): 38

Current: 0.047 A

Power Factor: 0.957

Lamp Description: LED

Luminous Width (mm): 115

Voltage: 222.1 V

Power: 10.14 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1079.8 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.5, 155.7, 155.6, 155.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.3, 102.2, 102.3, 102.2

Luminaire Efficacy Rating (LER): 106.54

Max. Intensity: 428.96 cd

S/MH(C0/C180): 1.19

Total Rated Lamp Lumens: 1079.8 lm

Efficiency: 100%

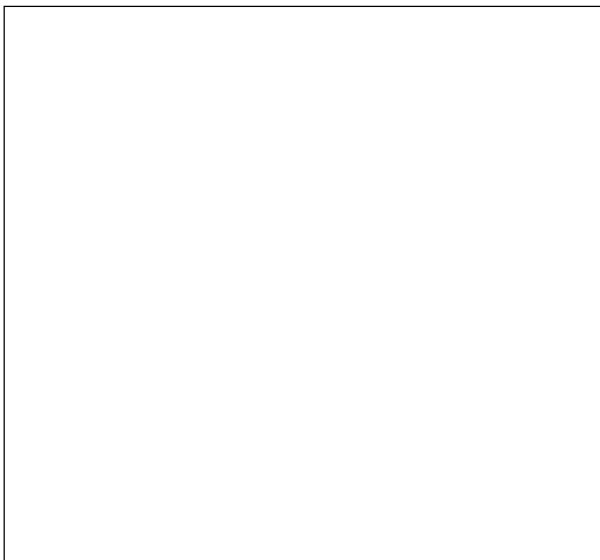
Upward Ratio: 0%

Central Intensity: 427.83 cd

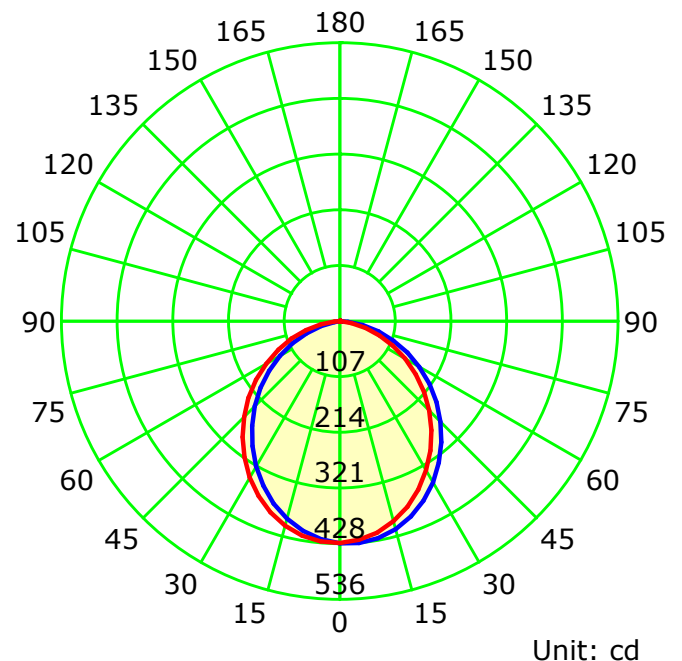
Pos of Max. Intensity: H0 V5

S/MH(C90/C270): 1.19

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

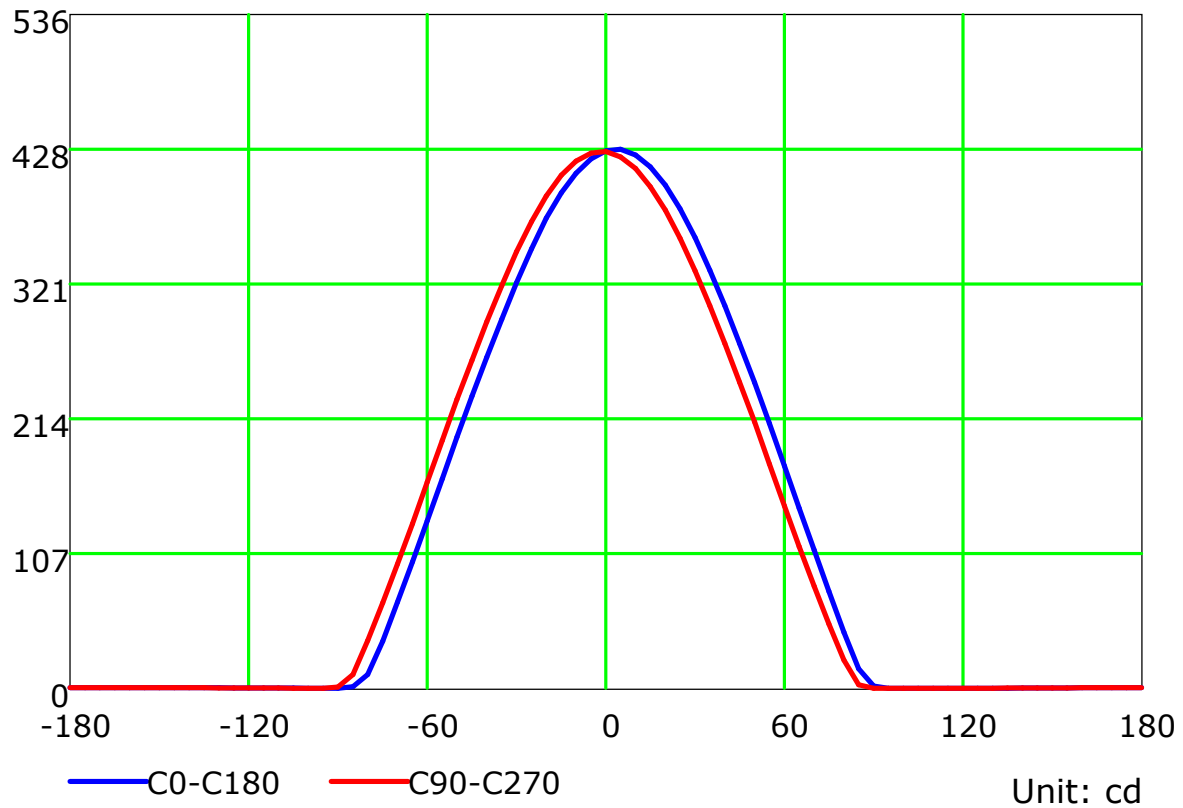
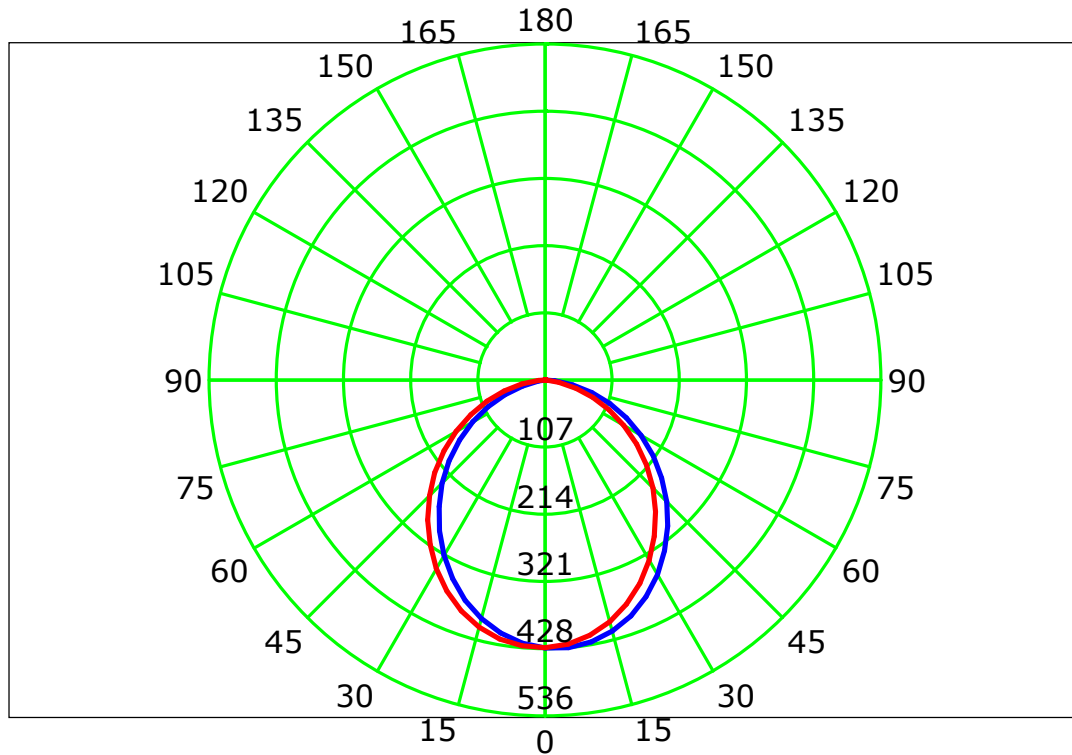
Test Device: LSG-1800B

Distance: 12.654 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 (°):0.0-180.0:5.0

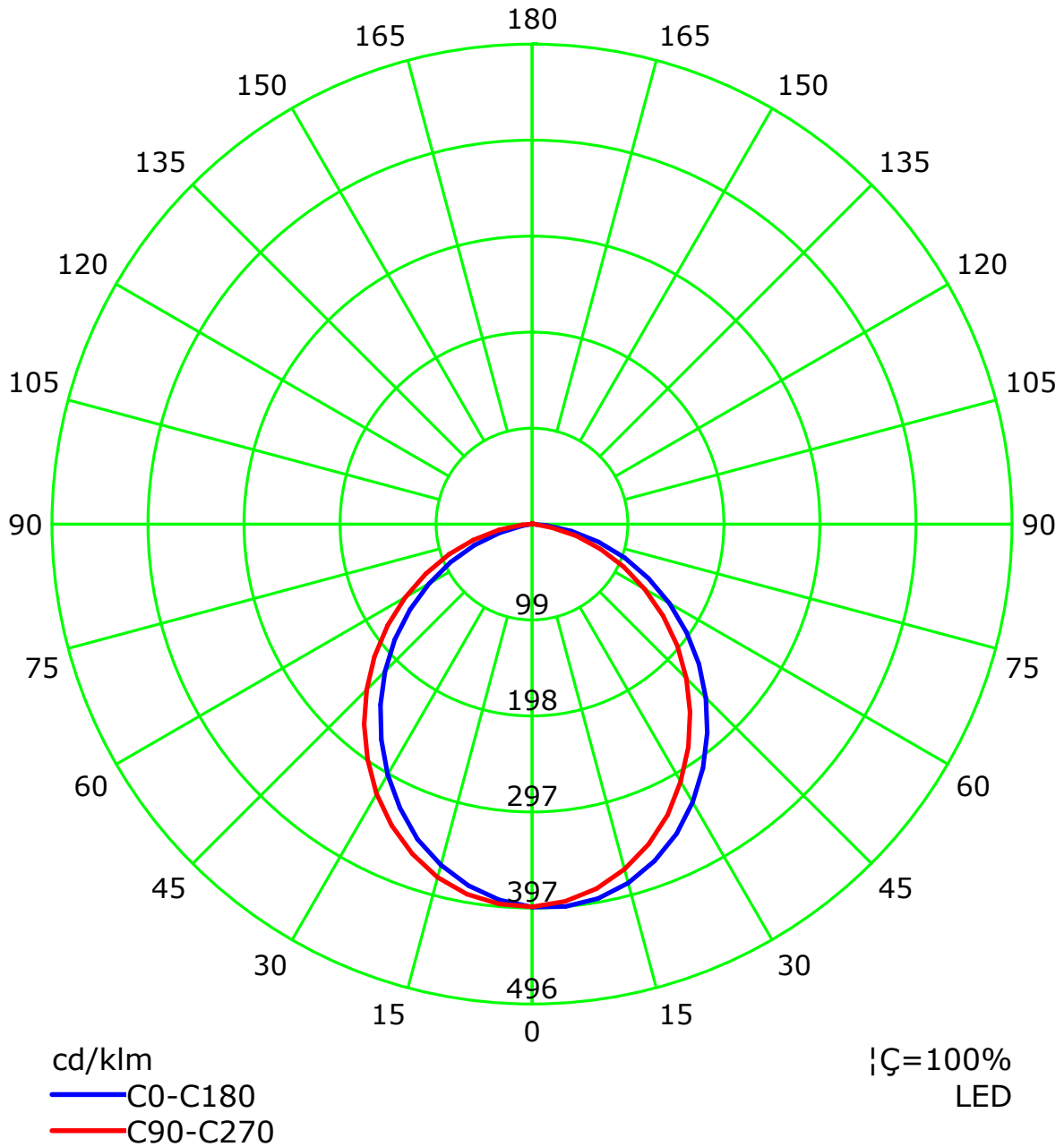
Test Device: LSG-1800B

Distance: 12.654 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: 12.654 m

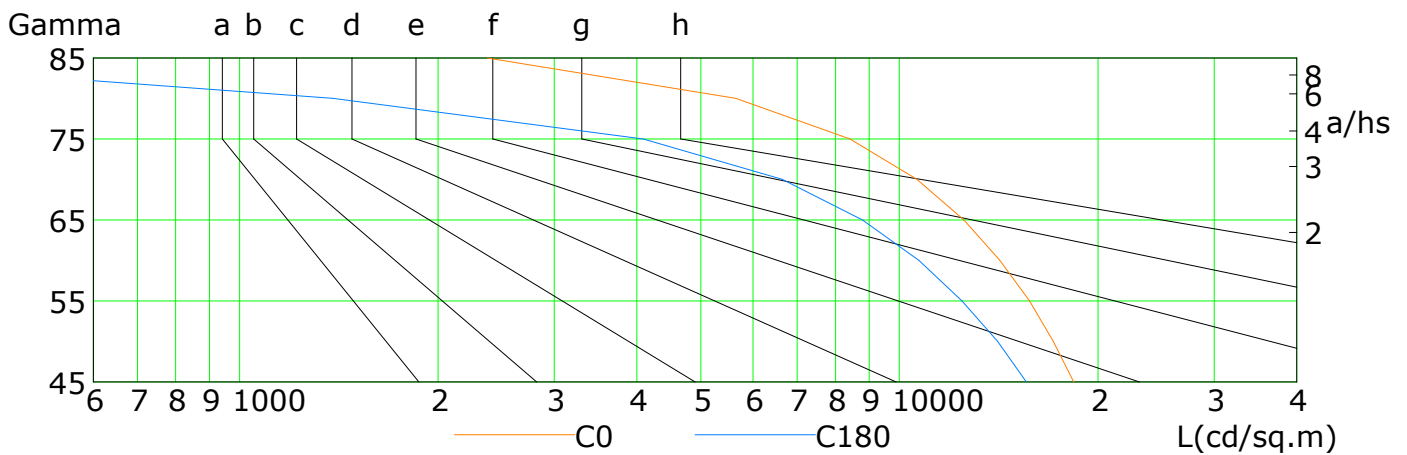
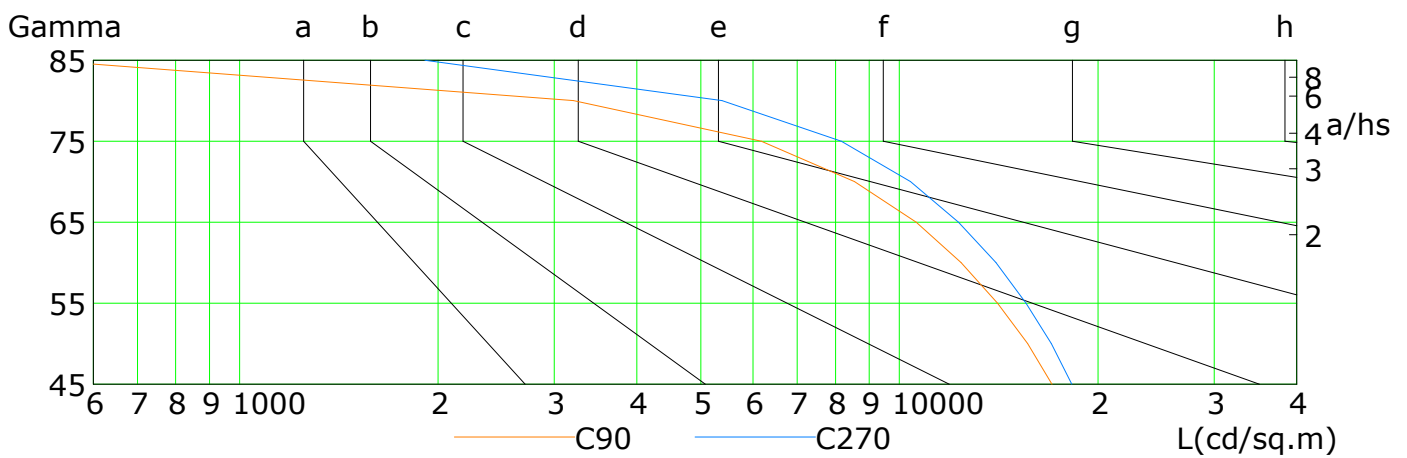
Humidity:

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	18383	17110	15749	14203	12529	10627	8417	5650	2373
C90	17024	15645	14083	12406	10601	8545	6174	3206	506
C180	15583	14081	12437	10695	8794	6639	4093	1384	209
C270	18254	16988	15552	14001	12293	10391	8168	5381	1911

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

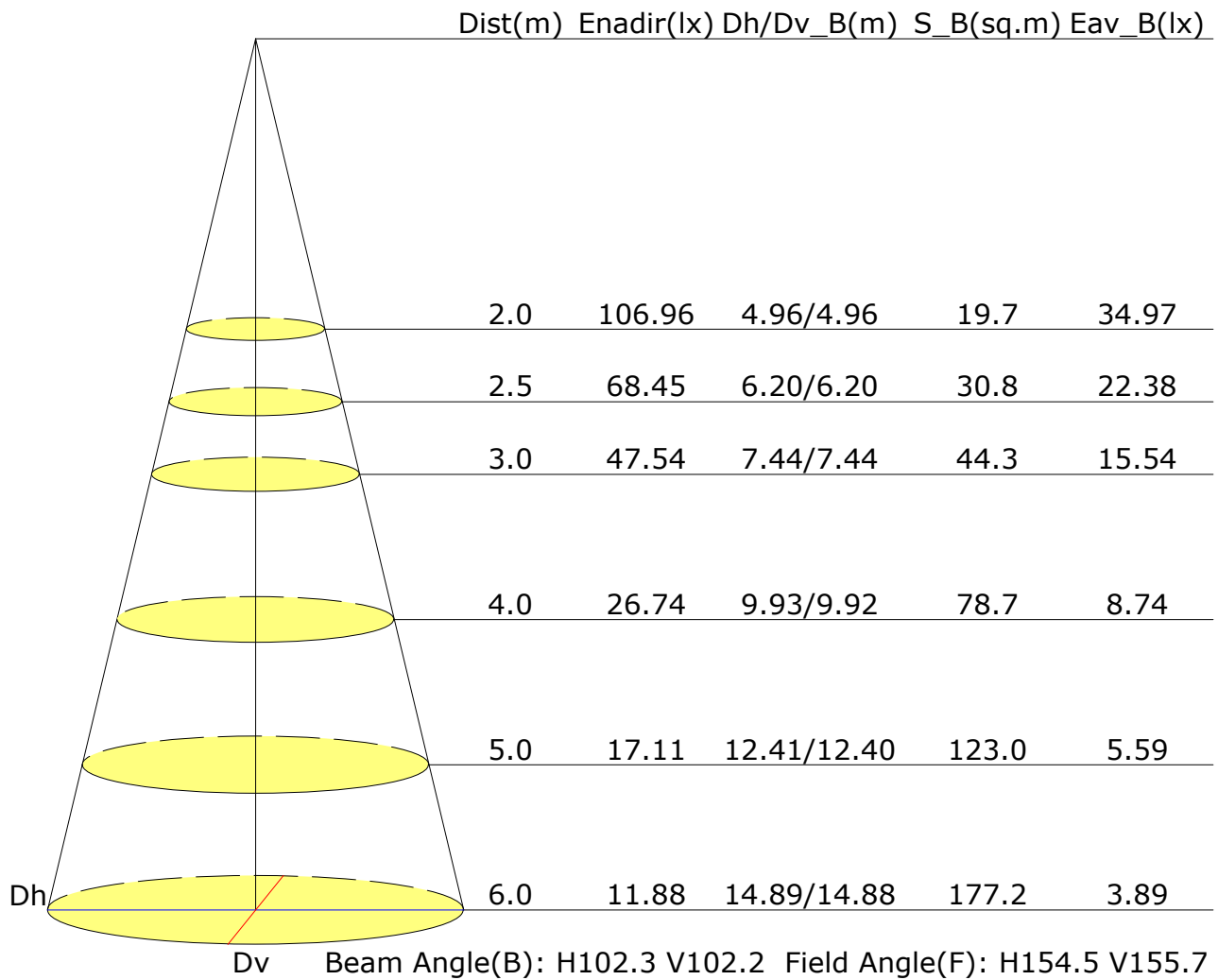
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

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	22.2	23.5	22.5	23.8	24.0	21.8	23.2	22.1	23.4	23.6
3H	23.4	24.7	23.8	24.9	25.2	23.0	24.2	23.3	24.5	24.7
4H	23.9	25.0	24.2	25.3	25.6	23.3	24.5	23.7	24.8	25.1
6H	24.2	25.2	24.5	25.5	25.9	23.5	24.6	23.9	24.9	25.2
8H	24.2	25.3	24.6	25.6	25.9	23.5	24.6	23.9	24.9	25.2
12H	24.2	25.2	24.6	25.5	25.9	23.5	24.5	23.9	24.9	25.2
X=4H Y=2H	22.7	23.8	23.0	24.1	24.4	22.4	23.5	22.7	23.8	24.1
3H	24.1	25.1	24.5	25.4	25.8	23.7	24.7	24.1	25.0	25.4
4H	24.7	25.5	25.1	25.9	26.3	24.2	25.1	24.6	25.4	25.8
6H	25.0	25.8	25.4	26.2	26.6	24.4	25.2	24.9	25.6	26.0
8H	25.1	25.8	25.5	26.2	26.7	24.5	25.2	24.9	25.6	26.0
12H	25.1	25.8	25.6	26.2	26.6	24.5	25.1	24.9	25.6	26.0
X=8H Y=4H	24.8	25.5	25.3	25.9	26.4	24.4	25.1	24.8	25.5	25.9
6H	25.3	25.8	25.7	26.3	26.8	24.7	25.3	25.2	25.7	26.2
8H	25.4	25.9	25.9	26.4	26.9	24.8	25.3	25.3	25.8	26.3
12H	25.5	25.9	26.0	26.4	26.9	24.8	25.3	25.3	25.8	26.3
X=12H Y=4H	24.8	25.5	25.3	25.9	26.3	24.4	25.0	24.8	25.4	25.9
6H	25.3	25.8	25.8	26.2	26.7	24.8	25.3	25.2	25.7	26.2
8H	25.4	25.9	25.9	26.3	26.8	24.9	25.3	25.4	25.8	26.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.4/-0.5				
S=2.0H	+0.7/-1.0					+0.7/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 1080lm ($8\log(F/F_0) = 0.3$).

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