

Report No.: 1

Test Time: 31.07.2019 09:11

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 2x152 LED 75W 4000K opal colebre

Lamp Description: LED

Luminous Width (mm): 76

Voltage: 221.3 V

Power: 73.66 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.340 A

Power Factor: 0.978

## Photometric Results

CIE Class: Direct

Measurement Flux: 9831.3 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 158.1, 159.1, 159.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.3, 104.2, 106.4, 108.7

Luminaire Efficacy Rating (LER): 133.52

Max. Intensity: 3683.88 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 9831.3 lm

Efficiency: 100%

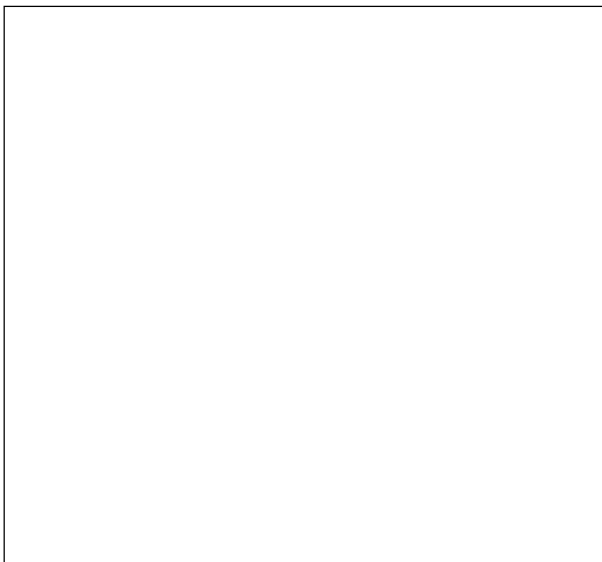
Upward Ratio: 1%

Central Intensity: 3681.3 cd

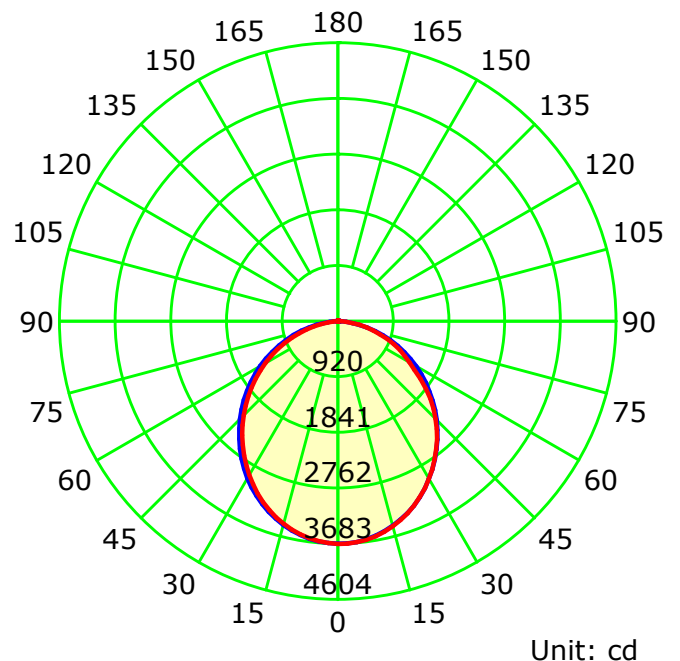
Pos of Max. Intensity: H90 V0

S/MH(C90/C270): 1.20

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 (°):0.0-180.0:2.5

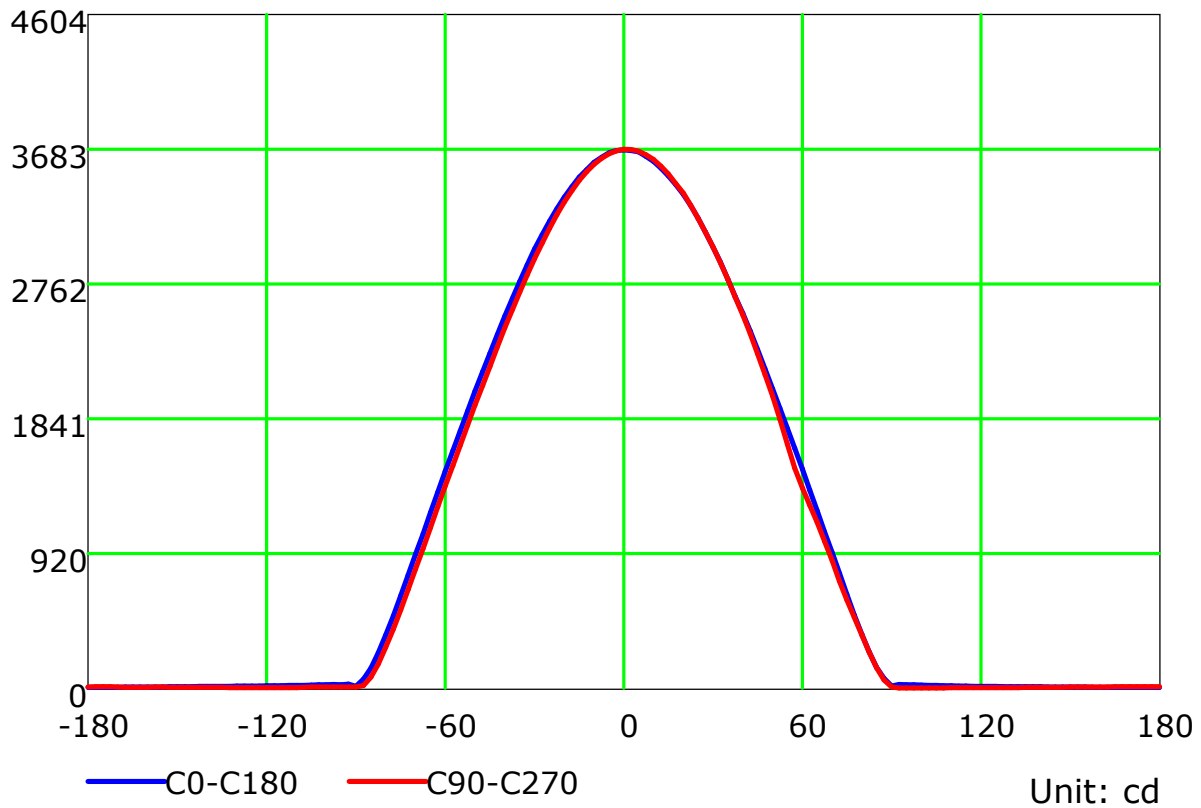
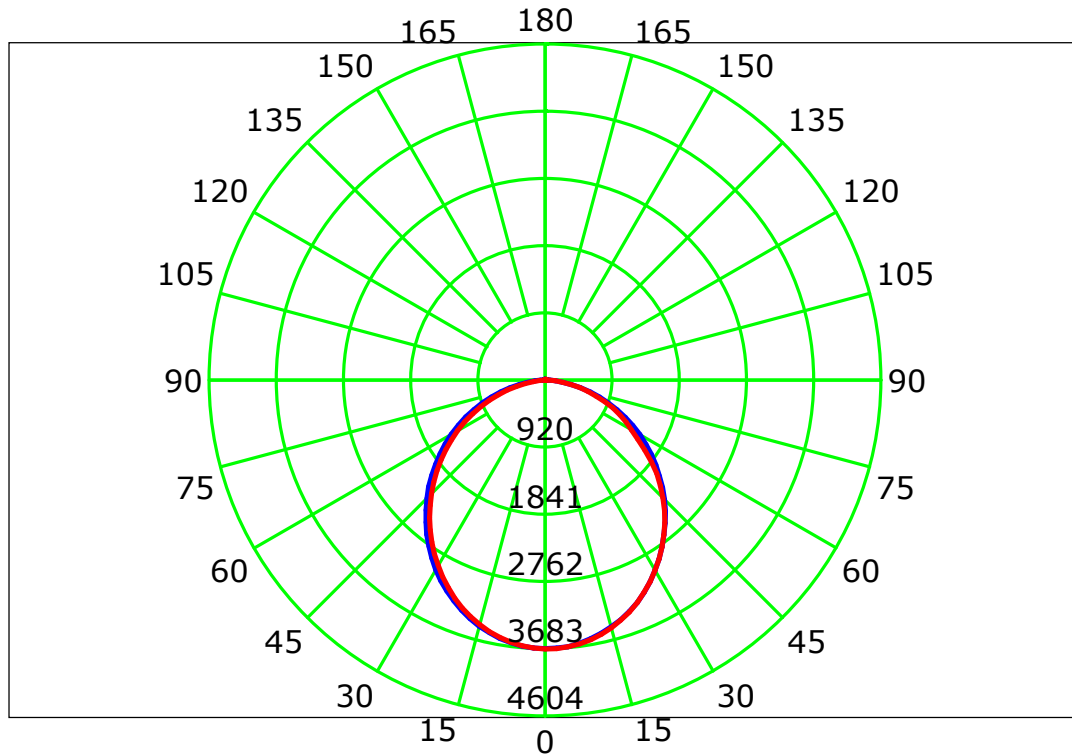
Test Device: LSG-1800B

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:

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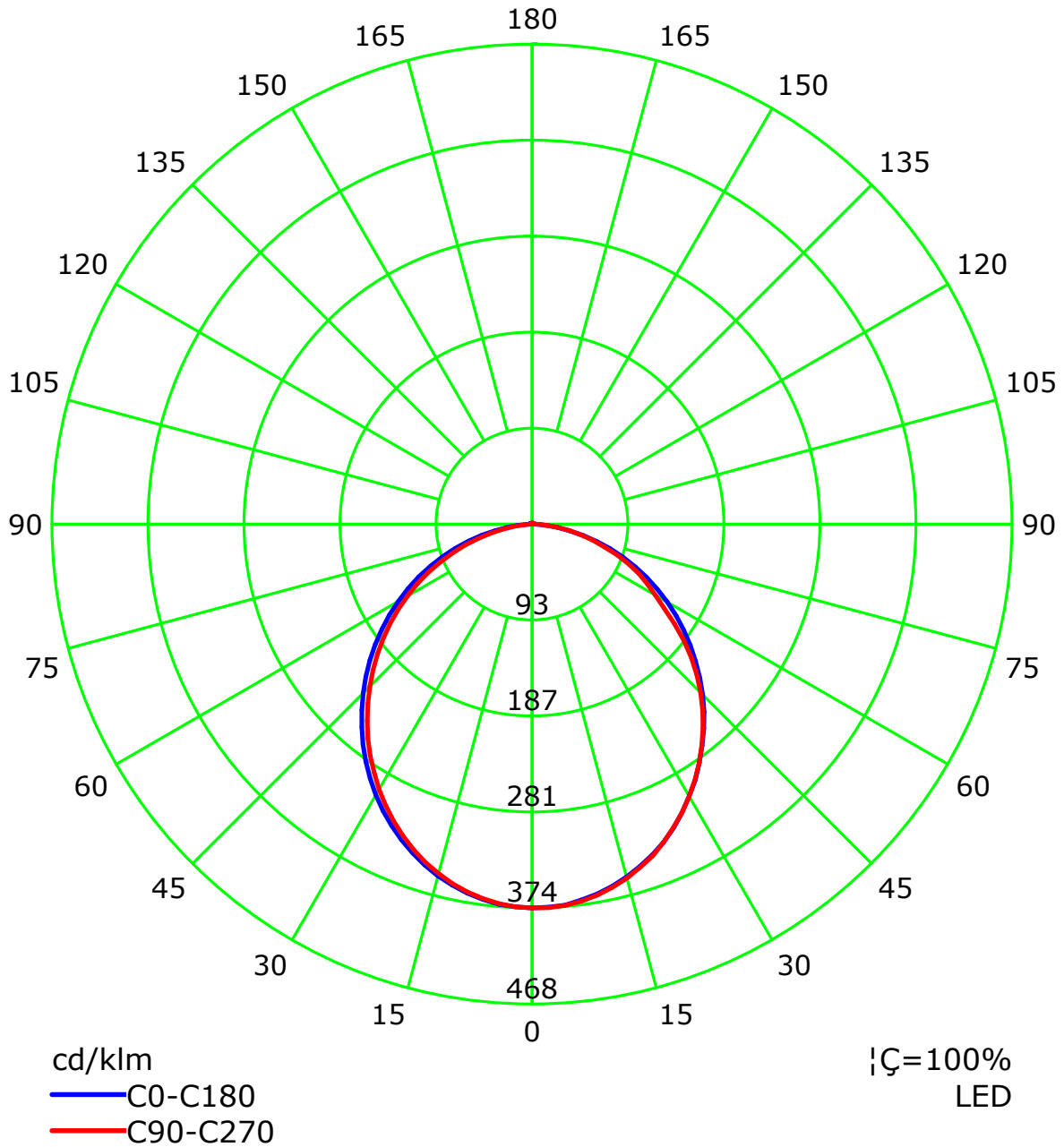
Test Device: LSG-1800B

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 (°):0.0-180.0:2.5

Test Device: LSG-1800B

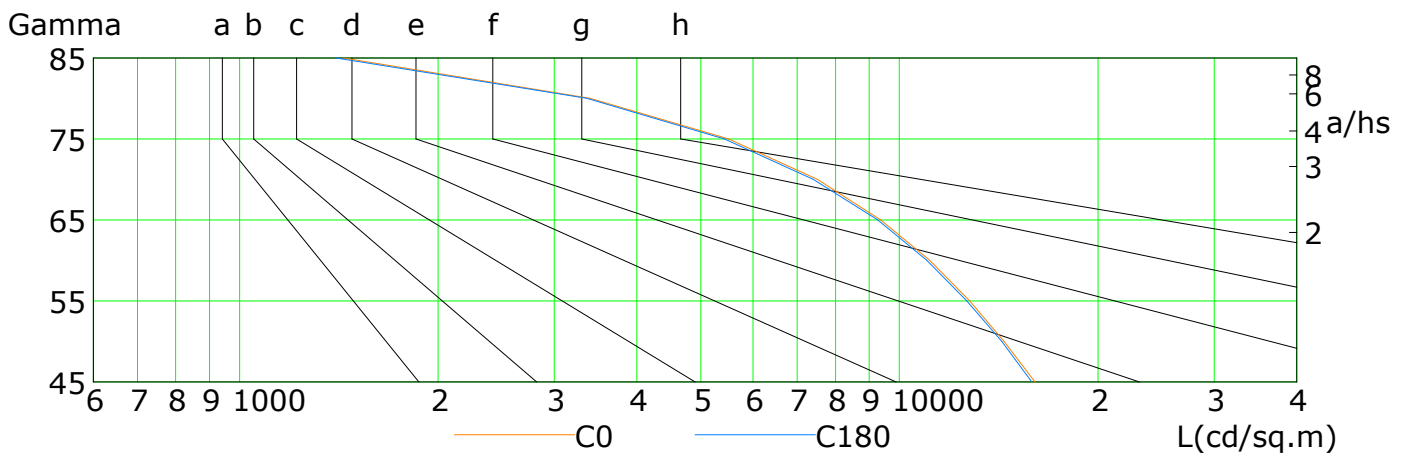
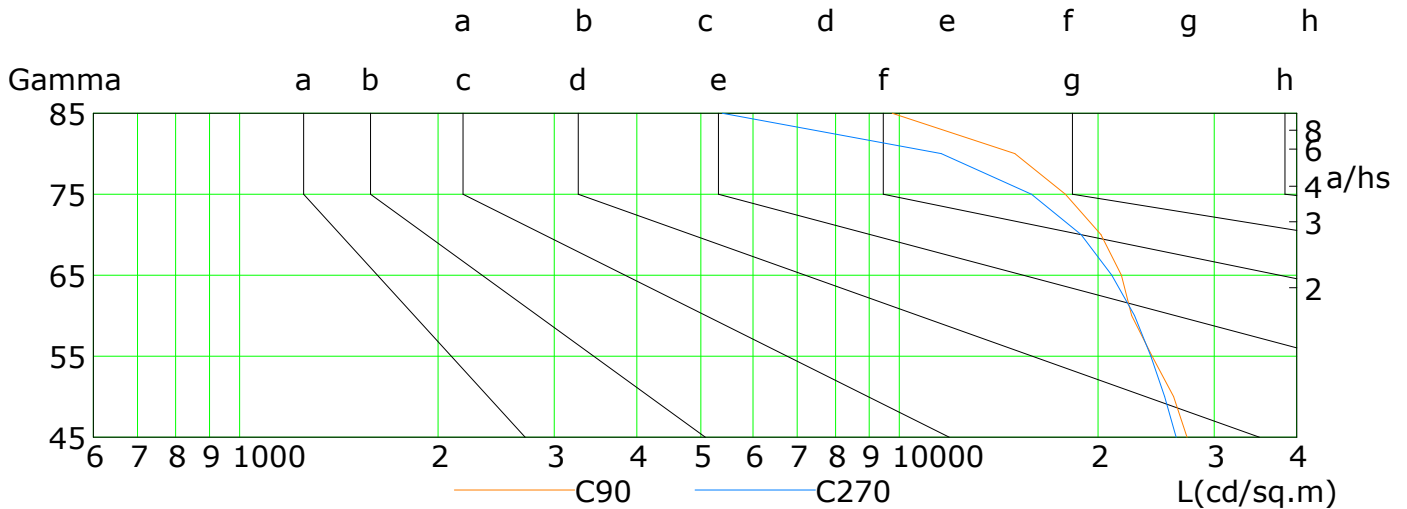
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16053	14396	12780	11112	9369	7511	5511	3396	1436
C90	27291	26031	24154	22481	21713	20206	17851	14956	9759
C180	15879	14288	12649	11007	9270	7405	5434	3359	1401
C270	26274	25220	24041	22706	20997	18848	15862	11573	5393

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.5

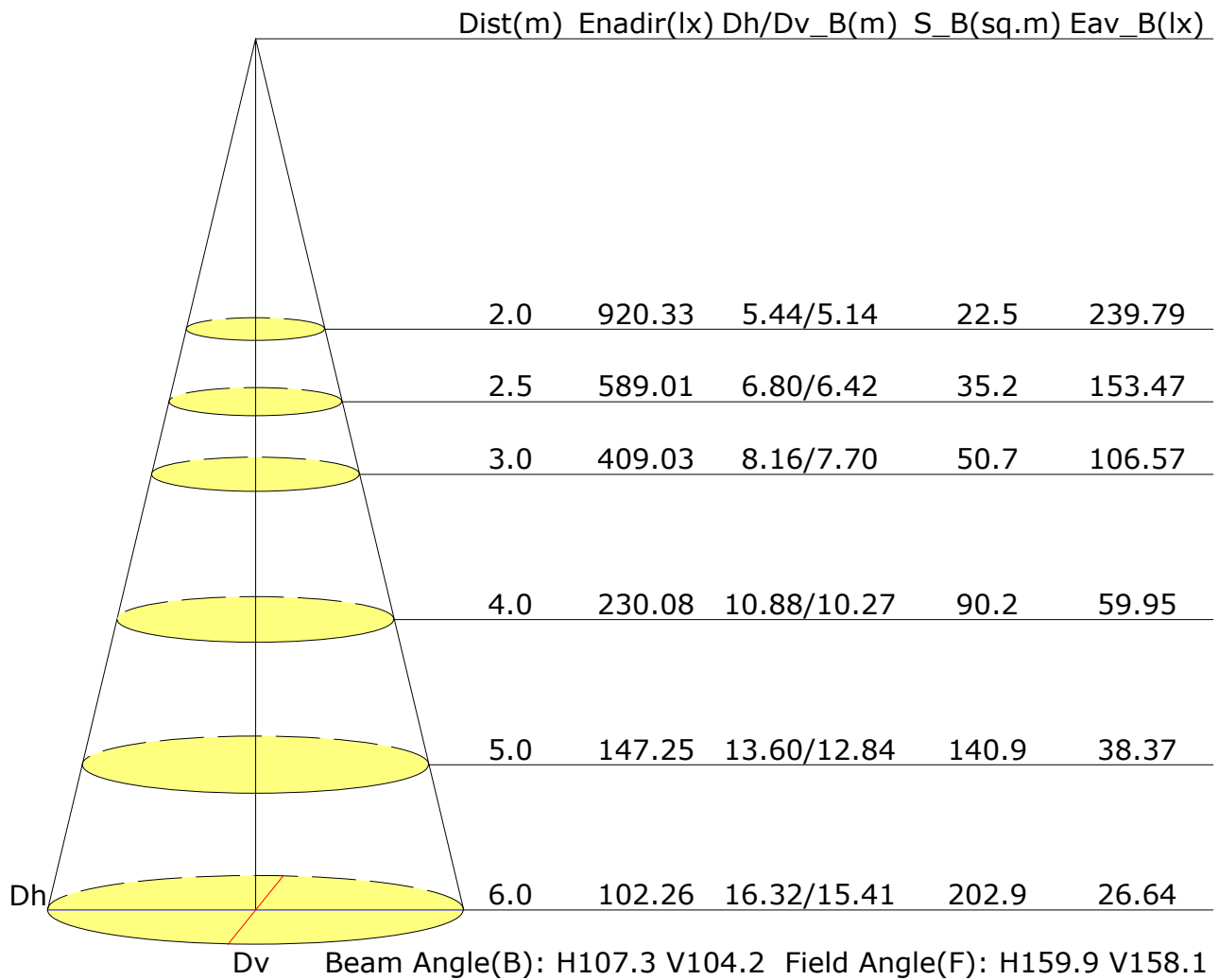
Test Device: LSG-1800B

Distance: 12.677 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 (°):0.0-180.0:2.5

Test Device: LSG-1800B

Distance: 12.677 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	21.5	22.9	21.8	23.1	23.4	22.7	24.0	23.0	24.3	24.6
3H	22.6	23.8	22.9	24.1	24.4	24.1	25.3	24.4	25.6	25.9
4H	23.0	24.1	23.3	24.4	24.8	24.6	25.8	25.0	26.1	26.4
6H	23.2	24.2	23.5	24.6	24.9	24.9	26.0	25.3	26.3	26.7
8H	23.2	24.2	23.6	24.6	24.9	25.0	26.1	25.4	26.4	26.7
12H	23.2	24.2	23.6	24.5	24.9	25.0	26.0	25.4	26.4	26.7
X=4H Y=2H	22.1	23.3	22.5	23.6	23.9	23.1	24.2	23.4	24.5	24.9
3H	23.4	24.4	23.8	24.7	25.1	24.6	25.6	25.0	26.0	26.3
4H	23.8	24.7	24.2	25.1	25.5	25.2	26.1	25.6	26.5	26.9
6H	24.1	24.9	24.5	25.3	25.7	25.6	26.4	26.1	26.8	27.2
8H	24.1	24.9	24.6	25.3	25.7	25.7	26.5	26.2	26.9	27.3
12H	24.2	24.8	24.6	25.2	25.7	25.8	26.4	26.3	26.9	27.3
X=8H Y=4H	24.0	24.8	24.5	25.2	25.6	25.3	26.0	25.8	26.5	26.9
6H	24.4	25.0	24.9	25.4	25.9	25.8	26.4	26.3	26.8	27.3
8H	24.5	25.0	25.0	25.4	26.0	25.9	26.5	26.4	26.9	27.4
12H	24.5	24.9	25.0	25.4	26.0	26.0	26.5	26.5	27.0	27.5
X=12H Y=4H	24.0	24.7	24.5	25.1	25.6	25.3	26.0	25.8	26.4	26.8
6H	24.4	24.9	24.9	25.4	25.9	25.8	26.3	26.3	26.8	27.3
8H	24.5	24.9	25.0	25.4	26.0	26.0	26.4	26.5	26.9	27.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.7					+0.3/-0.4				
S=2.0H	+0.7/-1.3					+0.9/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 9831lm ( $8\log(F/F_0) = 7.9$ ).

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