

Report No.: 1

Test Time: 25.10.2019 14:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 220LED 75W 4000K Edison 36-38lm

Luminous Length (mm): 1560

Luminous Width (mm): 80

Luminous Height (mm): 75

Voltage: 221.2 V

Current: 0.345 A

Power: 74.79 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 11158.6 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 11158.6 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.0, 157.0, 152.0, 151.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.7, 106.7, 116.9, 117.2

Luminaire Efficacy Rating (LER): 149.25

Central Intensity: 2260.37 cd

Max. Intensity: 5324.82 cd

Pos of Max. Intensity: H225 V9

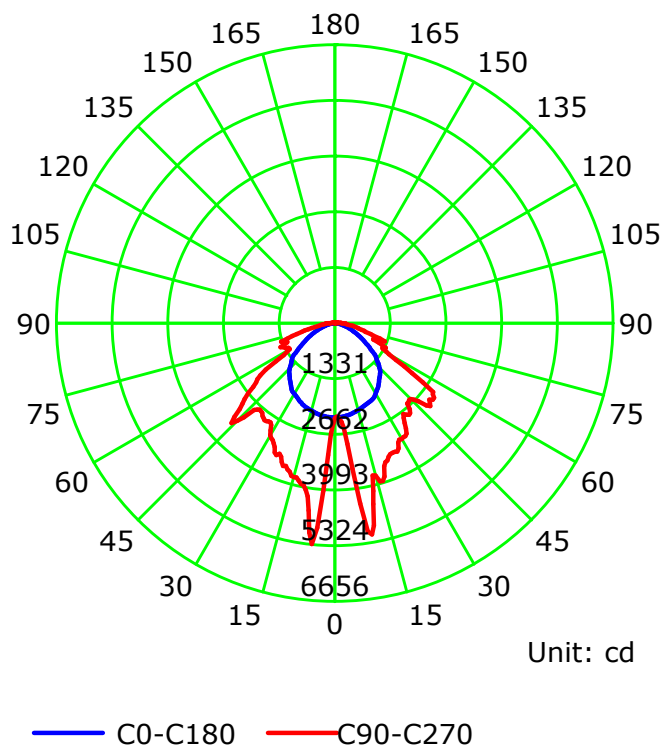
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.77

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

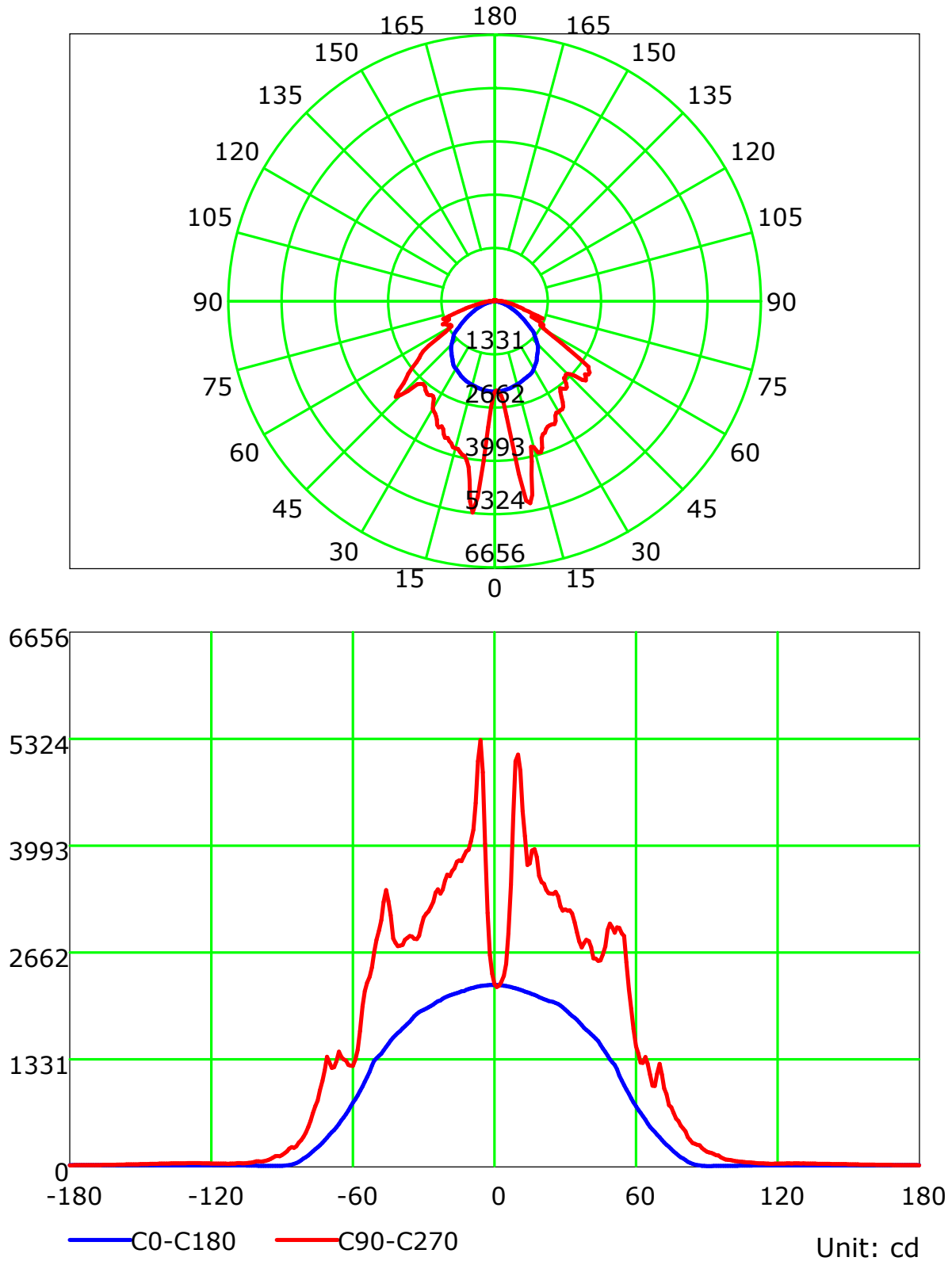
Test Device: LSG-1800B

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 (°):0.0-180.0:1.0

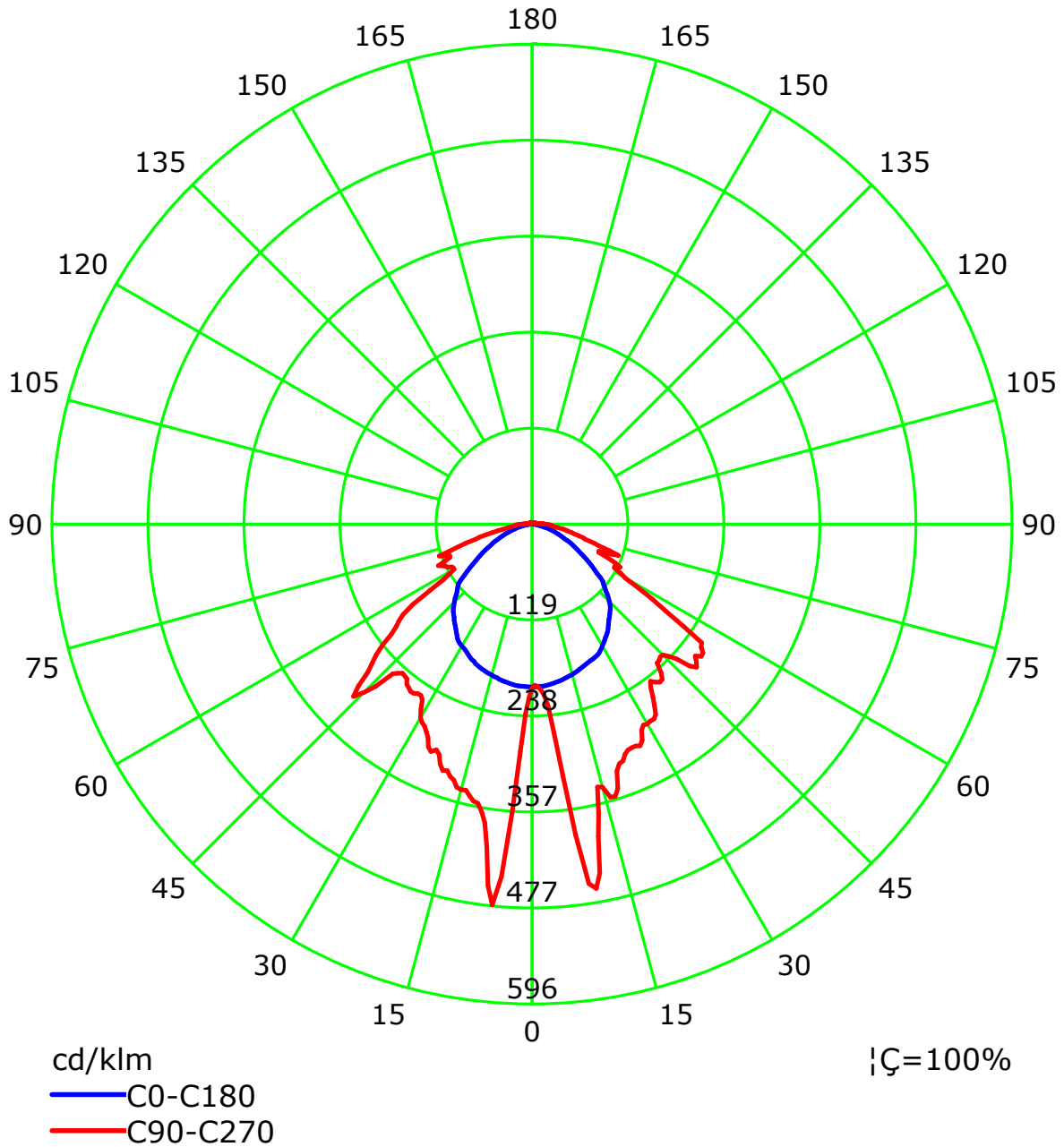
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



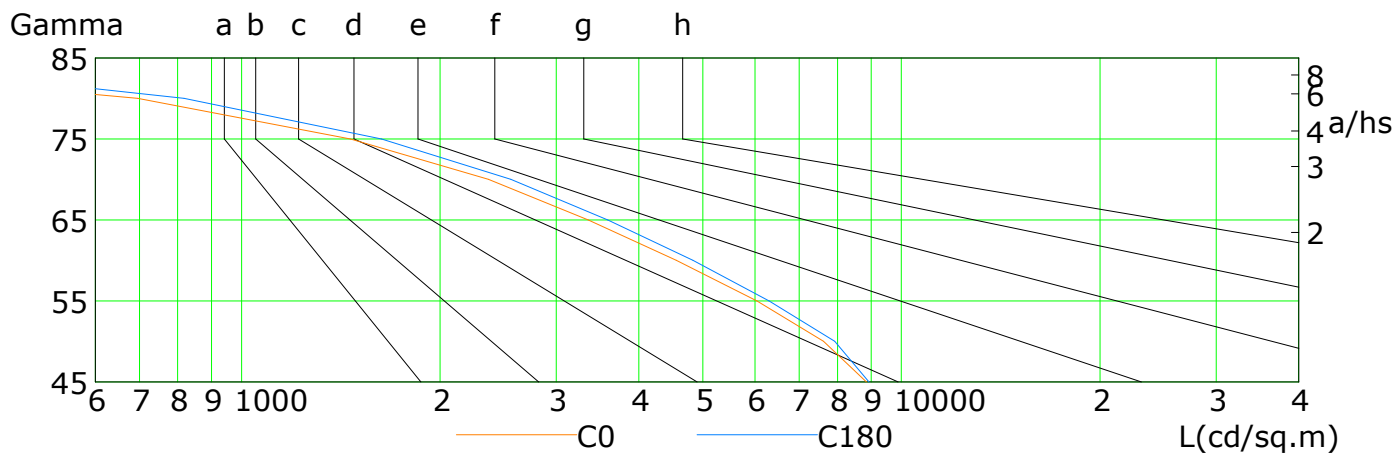
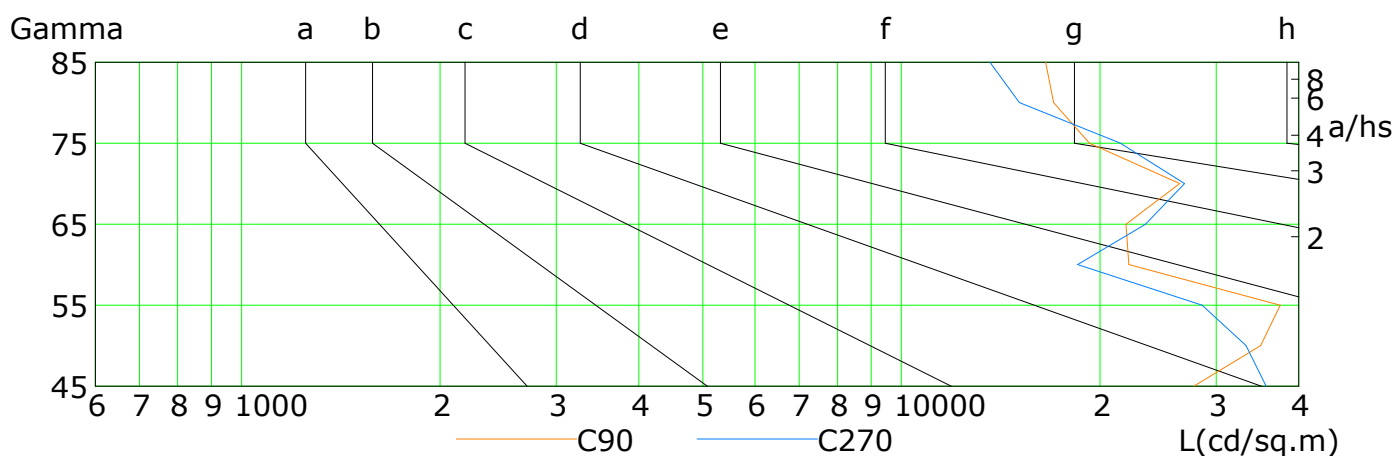
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
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

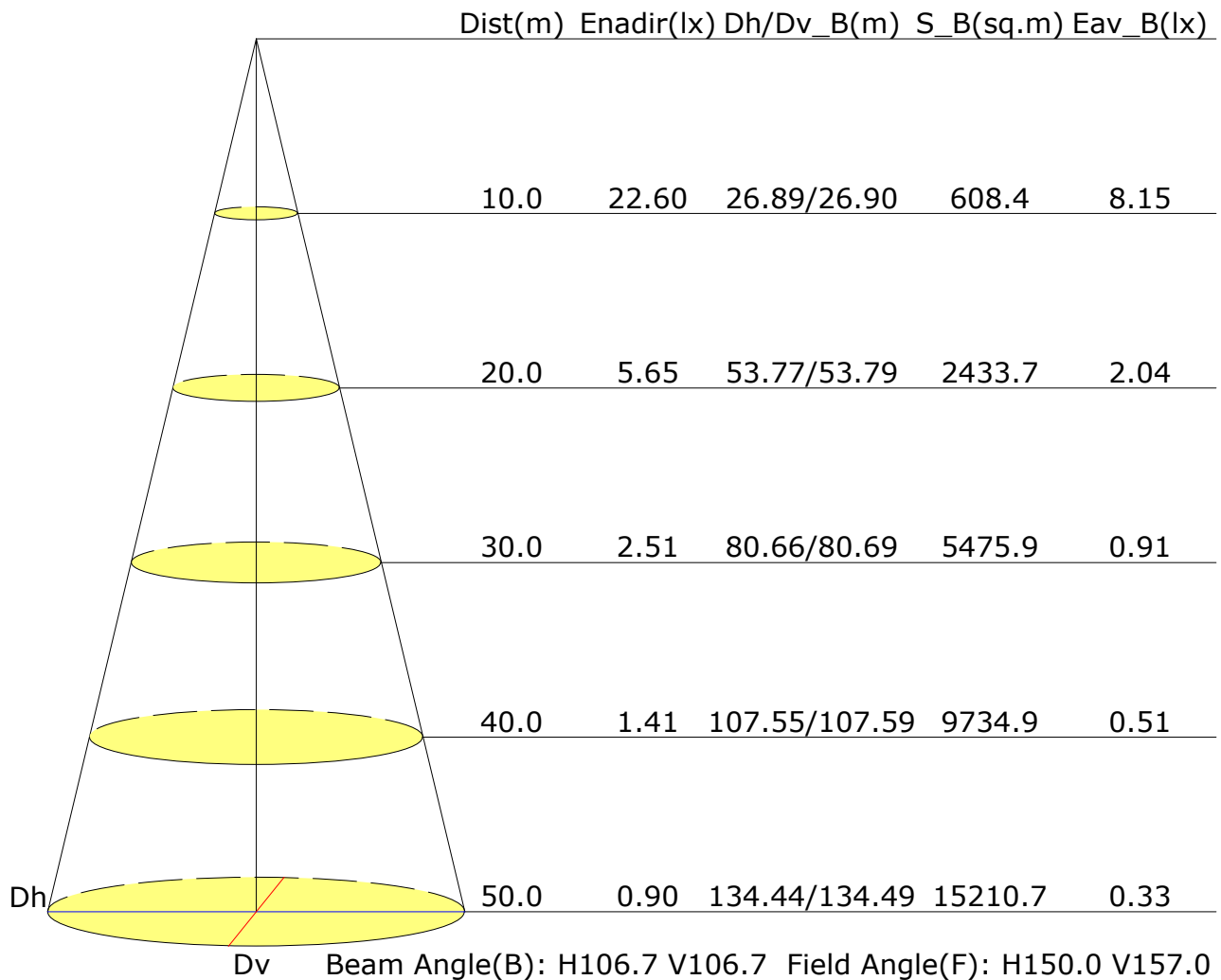


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8847	7620	6039	4558	3354	2366	1463	696	164
C90	27760	35046	37491	22113	21905	26407	19275	17003	16544
C180	8932	7921	6306	4829	3590	2560	1629	818	228
C270	35721	33274	28554	18505	23444	26848	21475	15101	13627

C Plane (°):0.0-360.0: 22.5
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 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	20.3	21.7	20.7	22.0	22.3	23.3	24.6	23.6	24.9	25.2
3H	21.3	22.6	21.7	22.9	23.2	24.6	25.9	25.0	26.2	26.5
4H	21.5	22.7	21.9	23.0	23.4	25.3	26.4	25.6	26.7	27.1
6H	21.5	22.6	21.9	22.9	23.3	25.6	26.7	26.0	27.0	27.4
8H	21.5	22.5	21.9	22.9	23.3	25.7	26.8	26.1	27.1	27.5
12H	21.4	22.4	21.8	22.8	23.2	25.8	26.8	26.2	27.2	27.6
X=4H Y=2H	21.4	22.6	21.8	22.9	23.3	23.6	24.8	24.0	25.1	25.4
3H	22.7	23.7	23.2	24.1	24.5	25.1	26.1	25.5	26.5	26.8
4H	23.1	24.0	23.5	24.4	24.8	25.8	26.7	26.2	27.1	27.5
6H	23.1	23.9	23.6	24.3	24.8	26.2	27.0	26.7	27.4	27.9
8H	23.1	23.8	23.6	24.3	24.7	26.4	27.1	26.8	27.5	28.0
12H	23.1	23.7	23.6	24.2	24.7	26.5	27.2	27.0	27.6	28.1
X=8H Y=4H	23.3	24.0	23.7	24.4	24.9	25.8	26.5	26.3	27.0	27.4
6H	23.4	24.0	23.9	24.4	24.9	26.3	26.9	26.8	27.4	27.9
8H	23.4	23.9	23.9	24.4	24.9	26.5	27.0	27.0	27.5	28.1
12H	23.3	23.8	23.9	24.3	24.9	26.7	27.1	27.2	27.7	28.2
X=12H Y=4H	23.3	23.9	23.8	24.4	24.9	25.8	26.4	26.3	26.9	27.4
6H	23.4	23.9	23.9	24.4	24.9	26.3	26.8	26.8	27.3	27.8
8H	23.4	23.9	23.9	24.4	24.9	26.5	27.0	27.0	27.5	28.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.2					+0.3/-0.3				
S=1.5H	+1.4/-1.9					+1.1/-1.3				
S=2.0H	+1.9/-3.3					+2.0/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with $11159 \ln(8 \log(F/F_0) = 8.4)$.

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 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.75									
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	NA	0.70	0.77	0.82	0.89	0.93	0.96	1.01	1.03	
	0.30		NA	0.63	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
	0.20		NA	0.57	0.64	0.70	0.78	0.84	0.88	0.93	0.97	
0.50	0.50	0.20	NA	0.68	0.74	0.79	0.85	0.89	0.92	0.96	0.99	
	0.30		NA	0.61	0.68	0.73	0.80	0.85	0.89	0.93	0.96	
	0.20		NA	0.57	0.63	0.69	0.76	0.81	0.85	0.90	0.94	
0.30	0.50	0.20	NA	0.66	0.72	0.76	0.82	0.86	0.89	0.92	0.95	
	0.30		NA	0.60	0.66	0.71	0.78	0.82	0.85	0.90	0.92	
	0.20		NA	0.56	0.62	0.67	0.75	0.79	0.83	0.87	0.90	
0.00	0.00	0.00	NA	0.53	0.59	0.64	0.71	0.75	0.78	0.83	0.85	
Rating:75W 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 = 1.75									
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	NA	0.77	0.65	0.57	0.45	0.38	0.32	0.25	0.21	
	0.30		NA	0.66	0.57	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		NA	0.57	0.51	0.45	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	NA	0.73	0.62	0.54	0.43	0.39	0.31	0.24	0.19	
	0.30		NA	0.64	0.55	0.48	0.39	0.33	0.29	0.22	0.19	
	0.20		NA	0.56	0.49	0.44	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	NA	0.70	0.59	0.51	0.41	0.34	0.29	0.22	0.18	
	0.30		NA	0.62	0.53	0.47	0.38	0.32	0.27	0.21	0.18	
	0.20		NA	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.98	0.45	0.38	0.34	0.27	0.23	0.20	0.15	0.13	
Rating:75W 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 = 1.75									
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	NA	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	
	0.30		NA	0.13	0.15	0.16	0.17	0.19	0.19	0.21	0.21	
	0.20		NA	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	NA	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		NA	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		NA	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.30	0.50	0.20	NA	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		NA	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		NA	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:75W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												