

Report No.: 1

Test Time: 19.12.2019 18:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x40LED 0,47A 60W 5000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 350

Luminous Height (mm): 100

Voltage: 221.3 V

Current: 0.269 A

Power: 59.25 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Measurement Flux: 7452.8 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 7452.8 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.6, 219.5, 195.2, 196.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.3, 126.1, 115.9, 116.4

Luminaire Efficacy Rating (LER): 125.84

Central Intensity: 2182.76 cd

Max. Intensity: 2183.35 cd

Pos of Max. Intensity: H180 V1

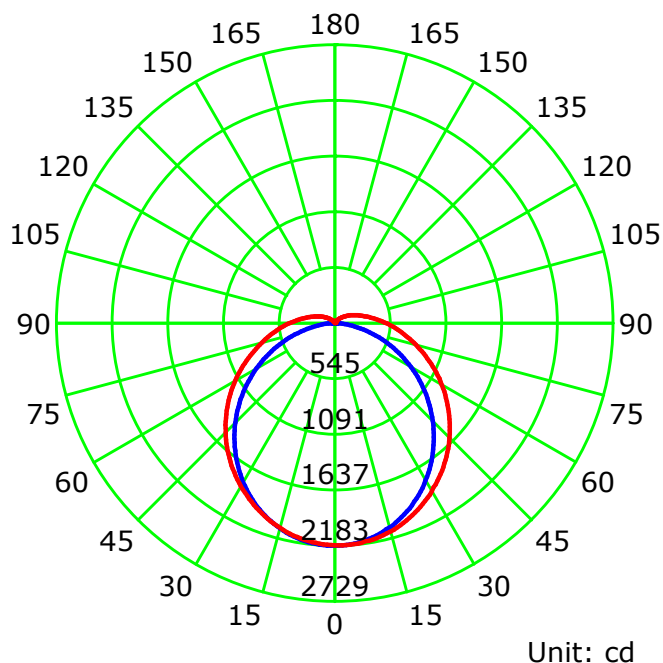
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.28

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 (°):0.0-180.0:1.0

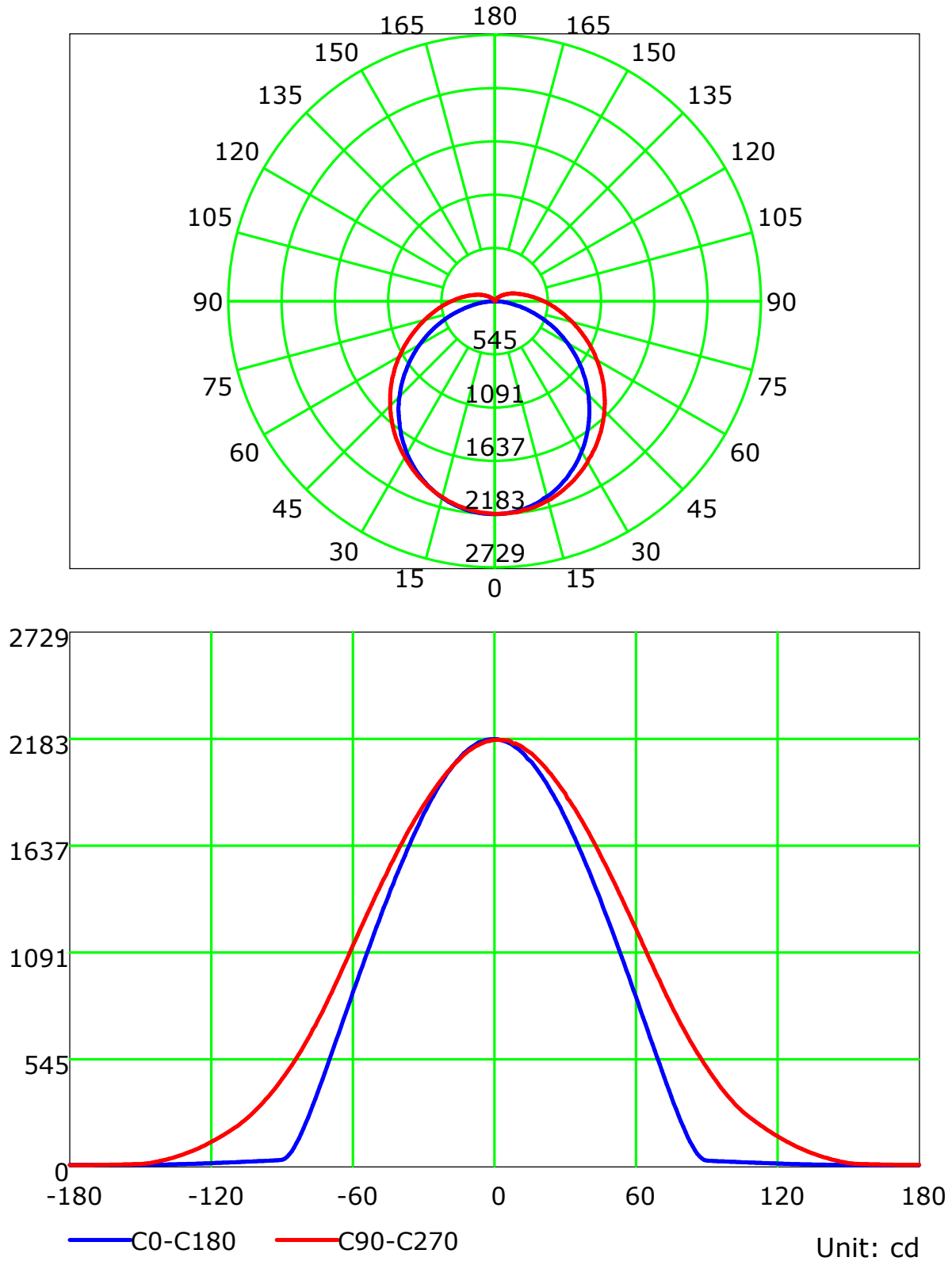
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

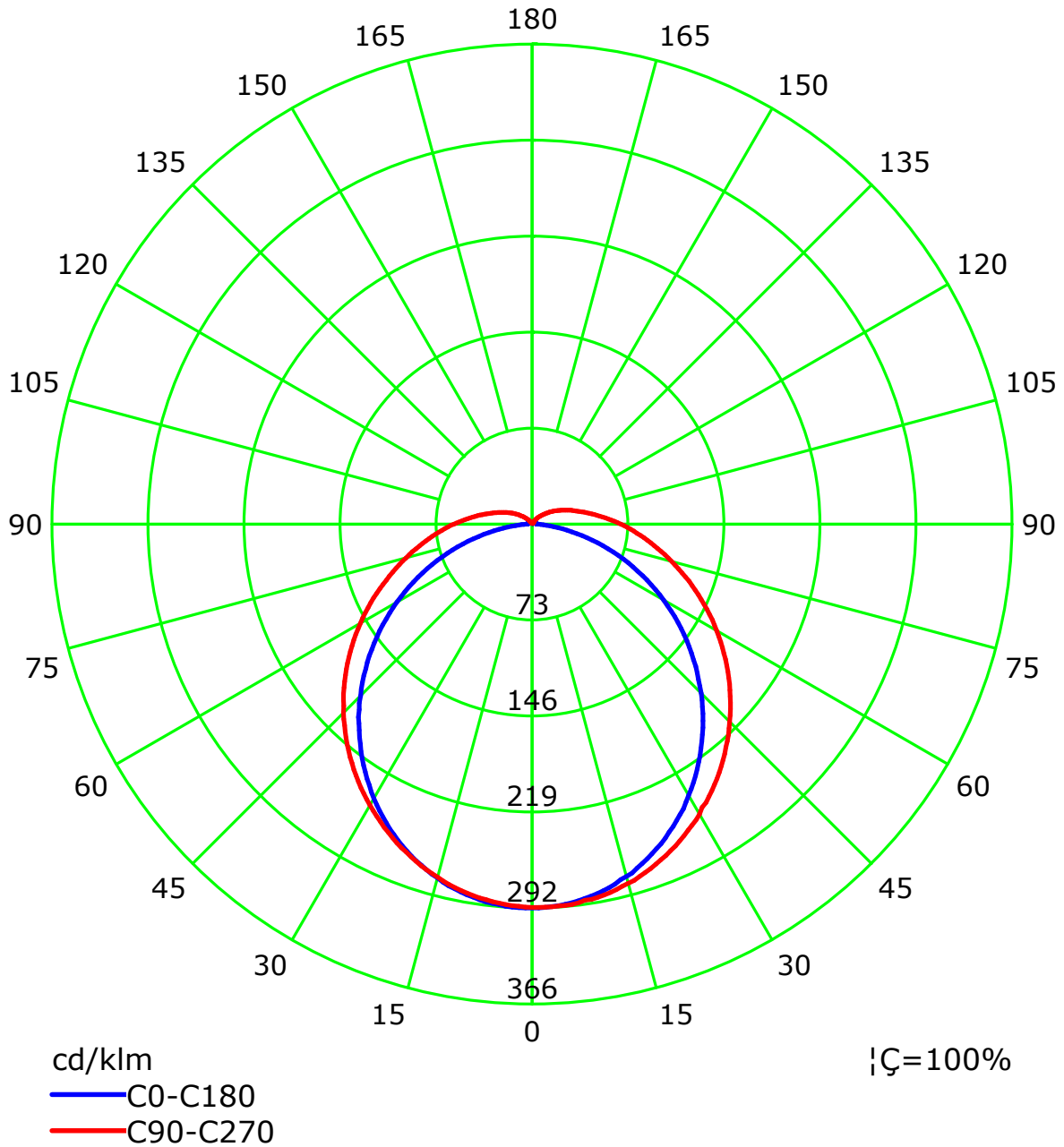
Luminous Intensity Distribution Curve



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)



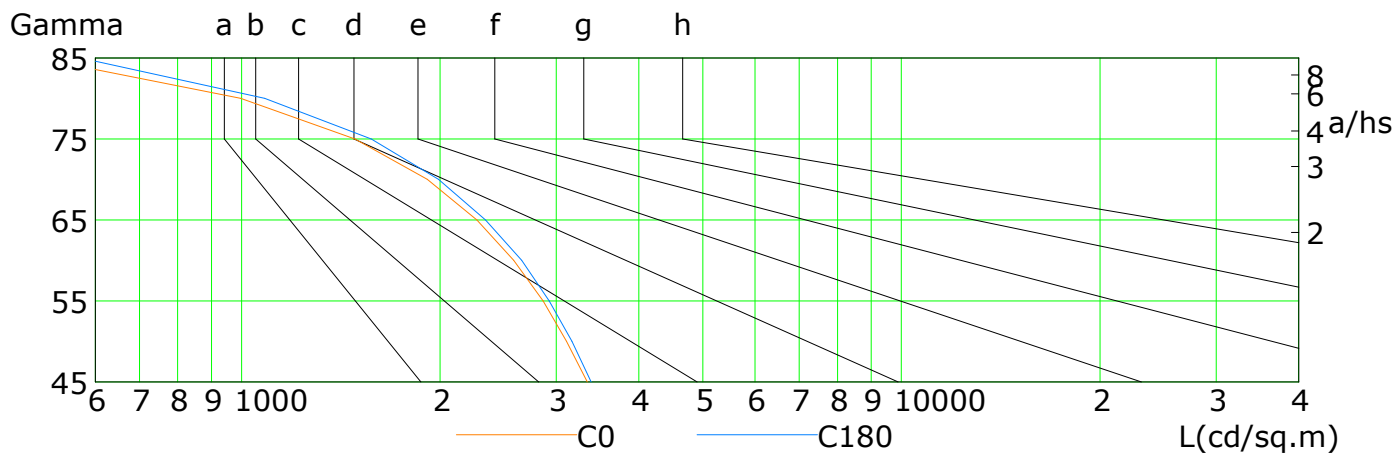
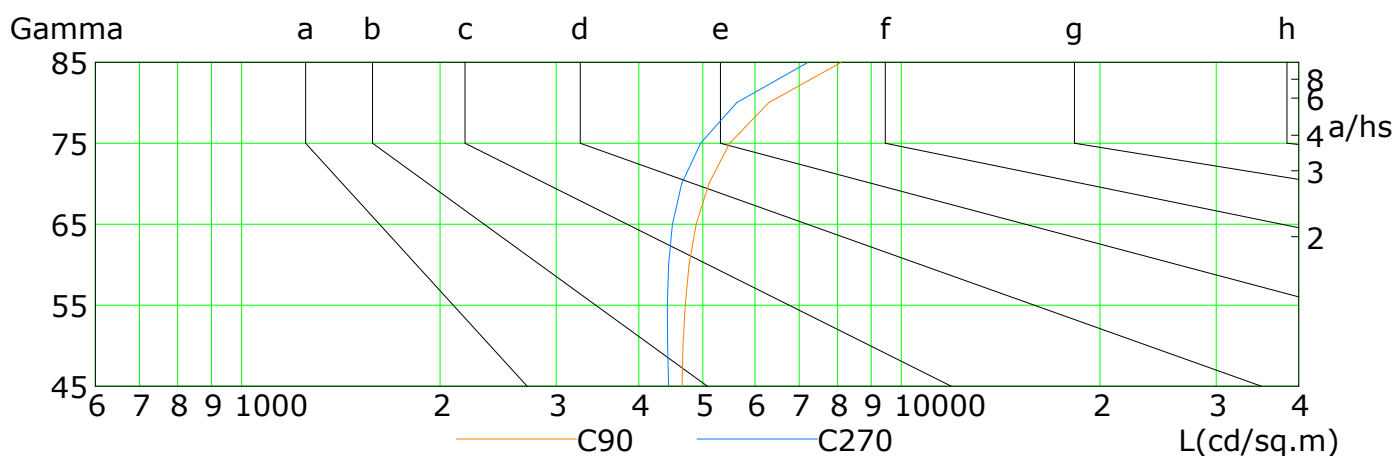
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

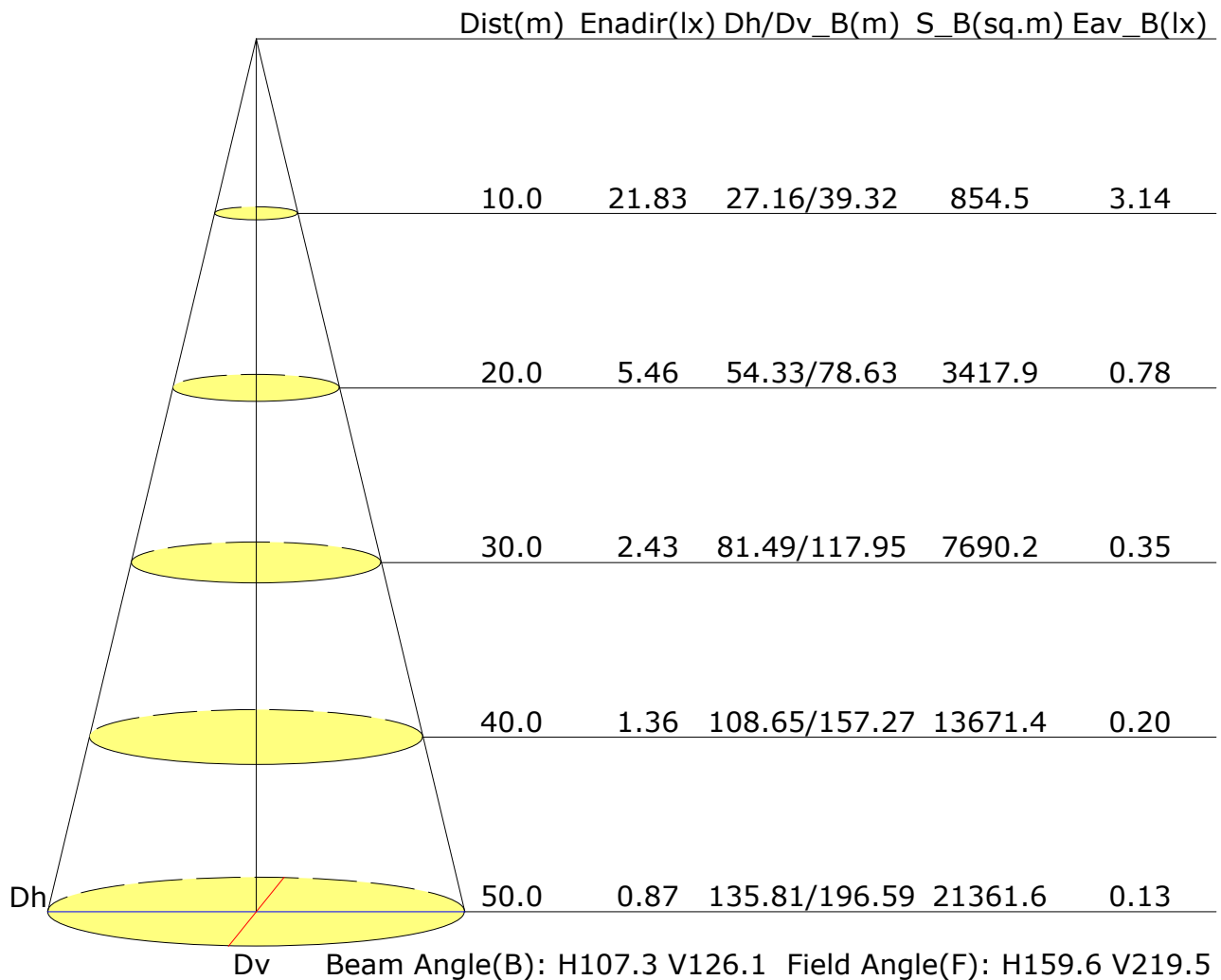


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3343	3108	2864	2584	2274	1911	1485	997	493
C90	4653	4666	4702	4768	4885	5107	5492	6292	8108
C180	3388	3168	2926	2657	2344	1988	1572	1084	572
C270	4440	4423	4418	4436	4499	4645	4961	5631	7224

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	15.4	16.7	15.8	17.1	17.5	17.1	18.5	17.5	18.9	19.3
3H	16.6	17.9	17.1	18.3	18.7	19.2	20.5	19.7	20.9	21.3
4H	17.1	18.2	17.5	18.7	19.1	20.3	21.5	20.8	21.9	22.4
6H	17.3	18.4	17.8	18.9	19.4	21.4	22.5	21.9	22.9	23.4
8H	17.4	18.4	17.9	18.9	19.4	22.0	23.0	22.5	23.5	24.0
12H	17.4	18.4	17.9	18.9	19.4	22.6	23.6	23.1	24.1	24.6
X=4H Y=2H	16.3	17.4	16.7	17.8	18.3	17.6	18.8	18.1	19.2	19.7
3H	17.7	18.7	18.2	19.2	19.7	19.9	20.9	20.4	21.4	21.9
4H	18.3	19.2	18.8	19.7	20.2	21.2	22.1	21.7	22.6	23.1
6H	18.7	19.5	19.2	20.0	20.6	22.4	23.3	23.0	23.8	24.4
8H	18.8	19.5	19.3	20.1	20.7	23.1	23.9	23.7	24.4	25.0
12H	18.8	19.5	19.4	20.1	20.7	23.8	24.5	24.4	25.1	25.7
X=8H Y=4H	18.9	19.6	19.5	20.2	20.8	21.4	22.1	21.9	22.7	23.2
6H	19.5	20.1	20.1	20.7	21.3	22.9	23.5	23.5	24.1	24.7
8H	19.7	20.3	20.3	20.8	21.5	23.7	24.2	24.3	24.8	25.5
12H	19.9	20.3	20.5	20.9	21.6	24.6	25.1	25.2	25.7	26.4
X=12H Y=4H	19.0	19.7	19.6	20.3	20.9	21.4	22.0	21.9	22.6	23.2
6H	19.8	20.3	20.4	20.9	21.6	22.9	23.5	23.5	24.1	24.7
8H	20.1	20.6	20.7	21.2	21.8	23.8	24.3	24.4	24.9	25.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.3/-0.5					+0.5/-0.5				
S=2.0H	+0.5/-1.0					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 7453lm ($8\log(F/F_0) = 7.0$).

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 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
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	0.52	0.61	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.30		0.44	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.94	
	0.20		0.38	0.47	0.54	0.60	0.68	0.75	0.79	0.85	0.90	
0.50	0.50	0.20	0.49	0.59	0.65	0.70	0.77	0.81	0.85	0.89	0.92	
	0.30		0.42	0.51	0.58	0.63	0.71	0.76	0.80	0.85	0.89	
	0.20		0.37	0.46	0.53	0.58	0.66	0.72	0.76	0.82	0.85	
0.30	0.50	0.20	0.47	0.56	0.62	0.66	0.73	0.77	0.80	0.84	0.87	
	0.30		0.41	0.50	0.56	0.61	0.68	0.73	0.76	0.81	0.84	
	0.20		0.36	0.45	0.51	0.56	0.64	0.69	0.73	0.78	0.81	
0.00	0.00	0.00	0.33	0.41	0.48	0.52	0.59	0.64	0.67	0.72	0.75	
Rating:59W 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 = 1.25									
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	1.03	0.86	0.75	0.66	0.54	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.49	0.42	0.36	0.29	0.25	
	0.20		0.74	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.98	0.82	0.71	0.62	0.51	0.46	0.37	0.29	0.25	
	0.30		0.83	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.24	
	0.20		0.72	0.63	0.56	0.51	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.93	0.78	0.67	0.59	0.48	0.40	0.35	0.28	0.23	
	0.30		0.80	0.68	0.60	0.53	0.44	0.38	0.33	0.27	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.36	0.31	0.25	0.22	
0.00	0.00	0.00	0.59	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:59W 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 = 1.25									
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	0.24	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30	
	0.30		0.17	0.19	0.20	0.21	0.23	0.24	0.24	0.26	0.26	
	0.20		0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.24	
0.50	0.50	0.20	0.23	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.28	
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.25	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.27	
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	
	0.20		0.12	0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22	
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Rating:59W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												