

Report No.: 1

Test Time: 18.12.2019 15:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x24LED 0,35A 37W 4000K matovoe

Luminous Length (mm): 1262

Luminous Width (mm): 124

Luminous Height (mm): 85

Voltage: 221.3 V

Current: 0.182 A

Power: 39.54 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 5055.3 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 5055.3 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.7, 216.3, 196.5, 193.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.1, 125.0, 116.0, 114.9

Luminaire Efficacy Rating (LER): 127.90

Central Intensity: 1493.68 cd

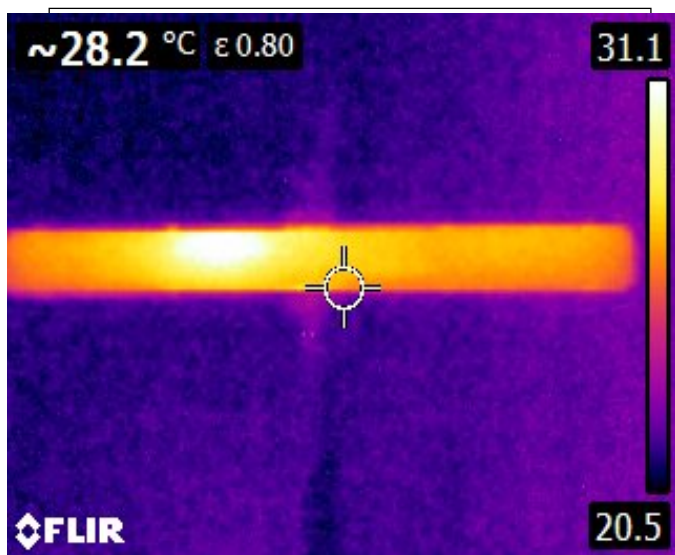
Max. Intensity: 1494.21 cd

Pos of Max. Intensity: H225 V2

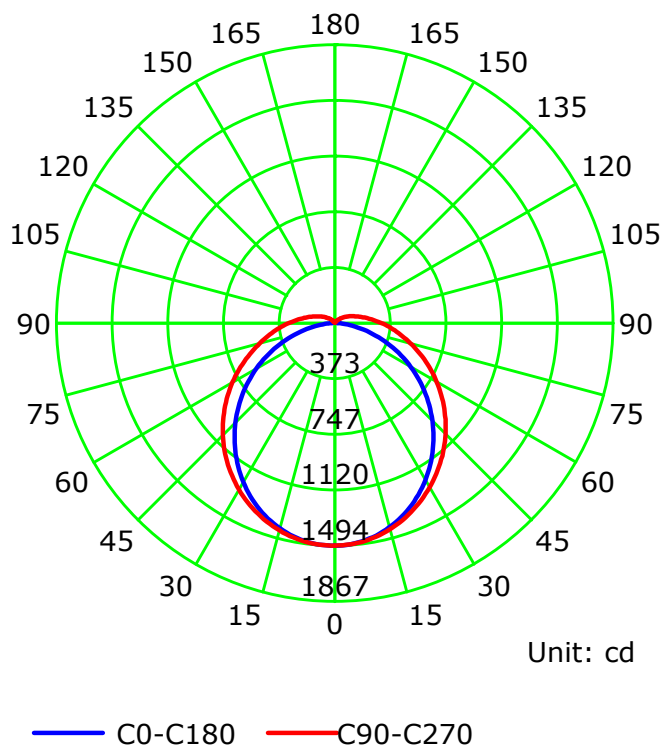
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.28

Termogramma



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

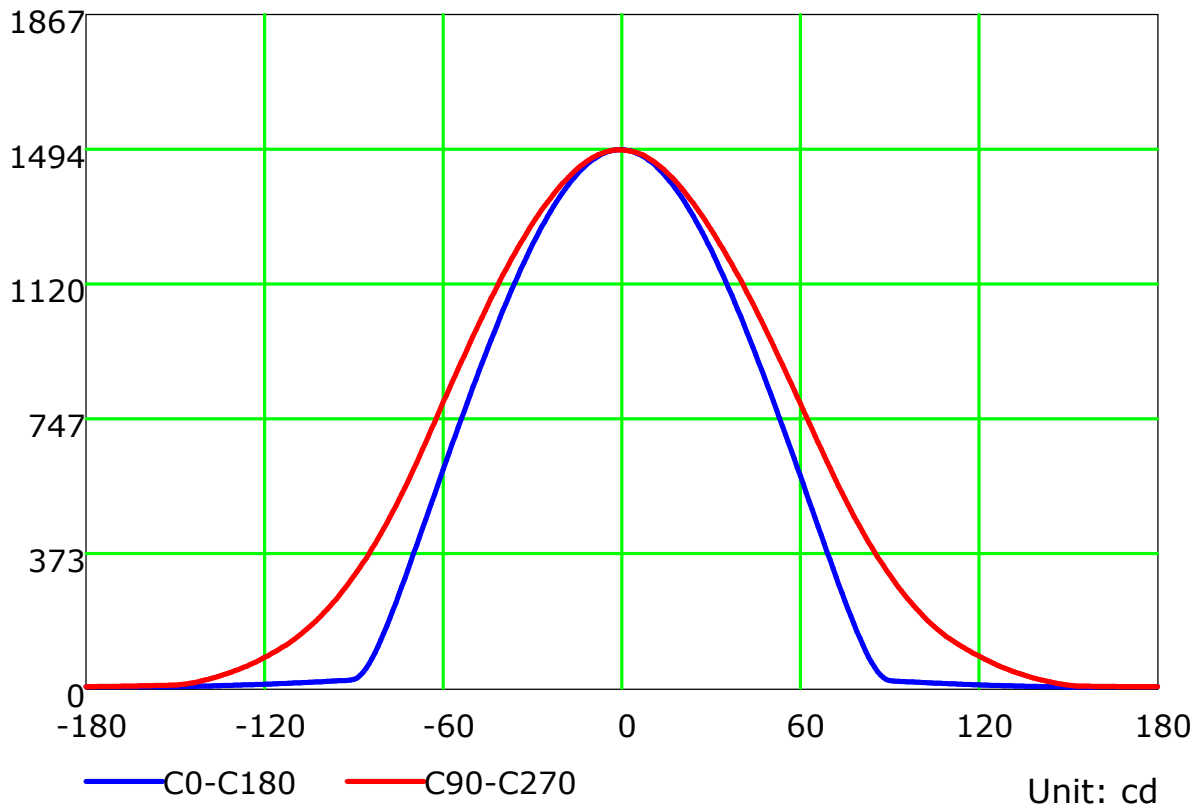
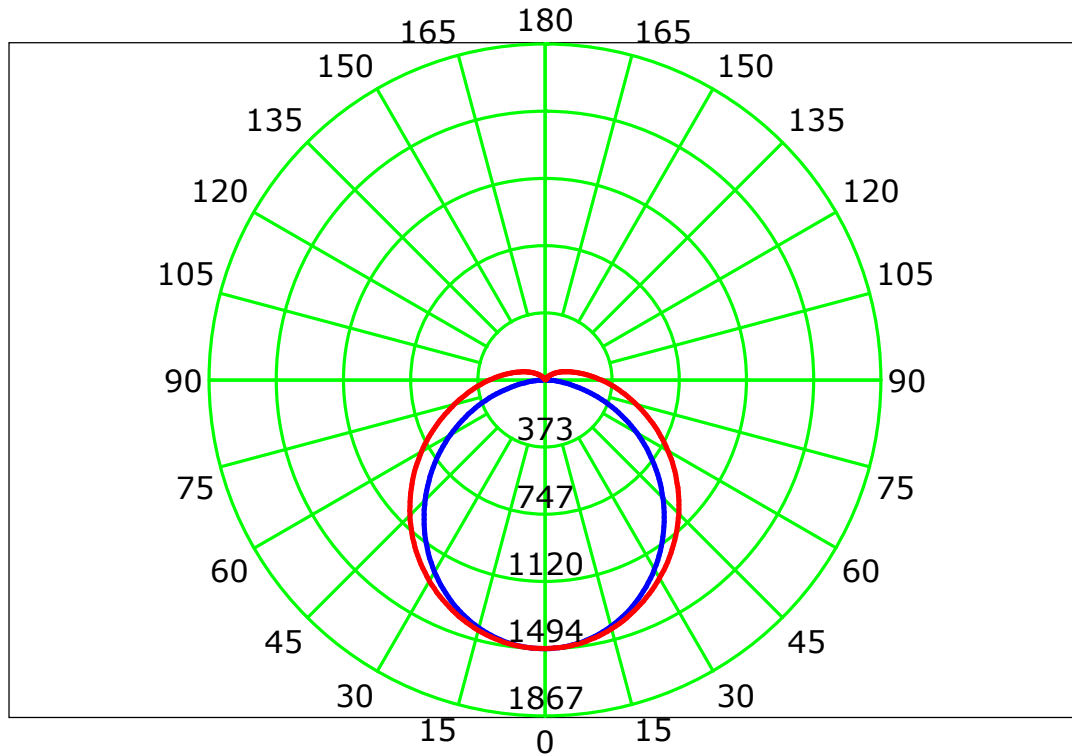
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

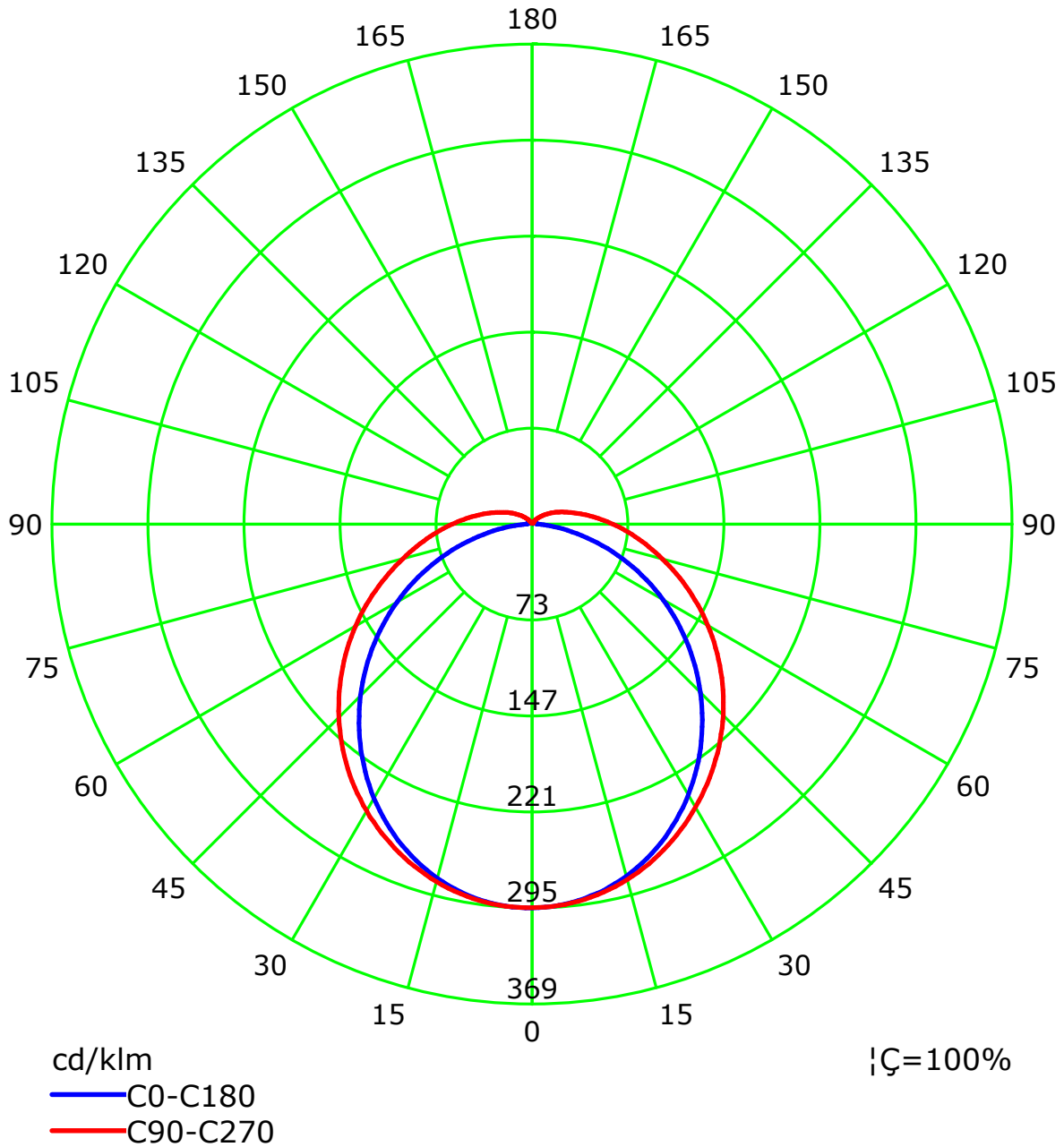
Luminous Intensity Distribution Curve



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

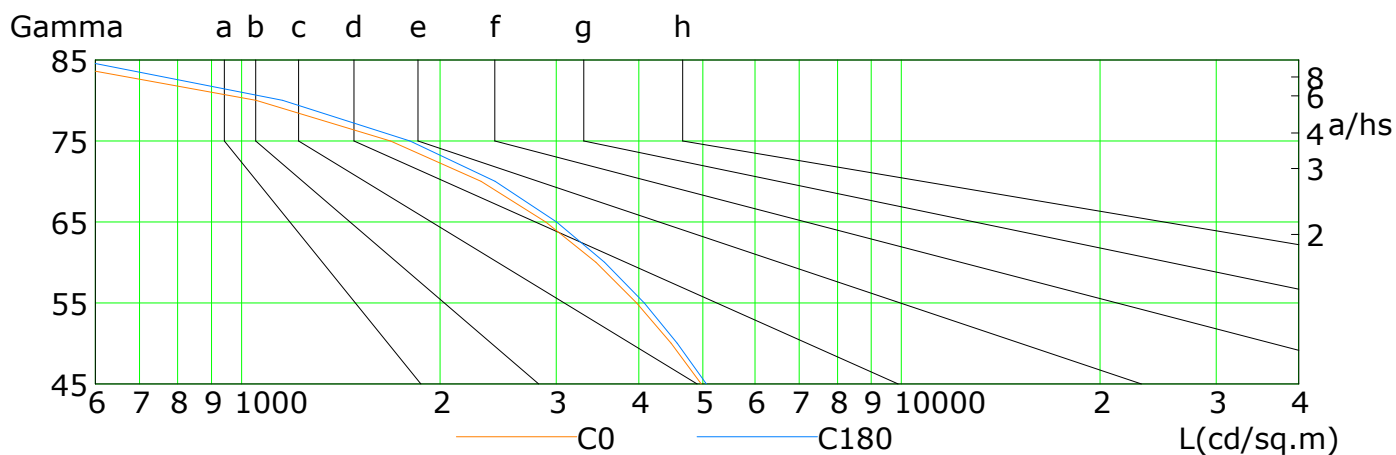
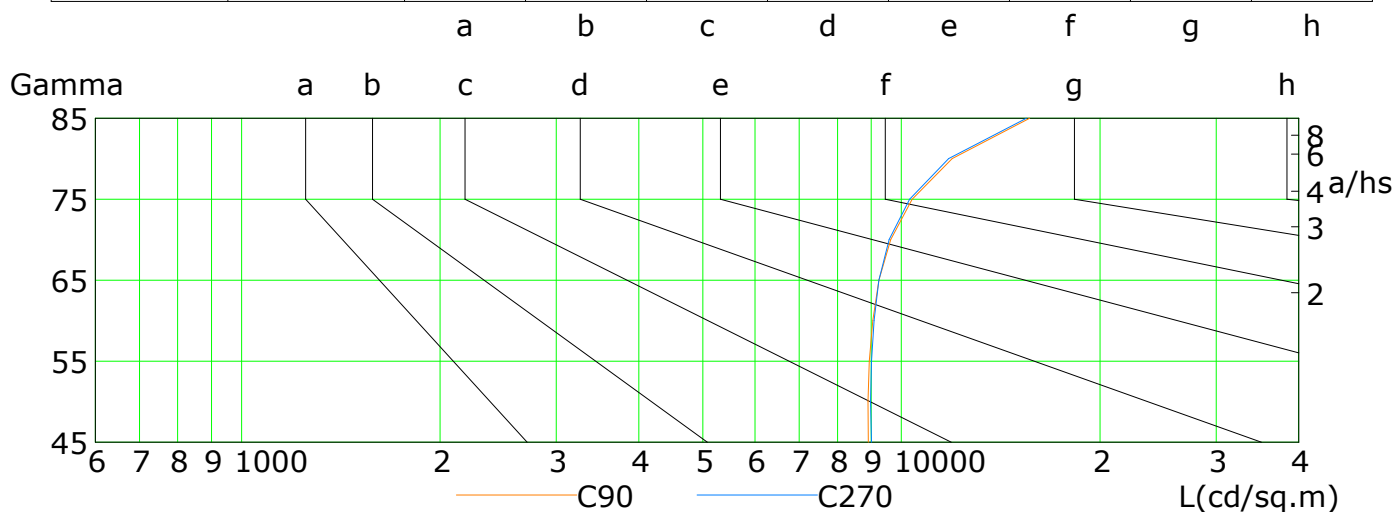
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

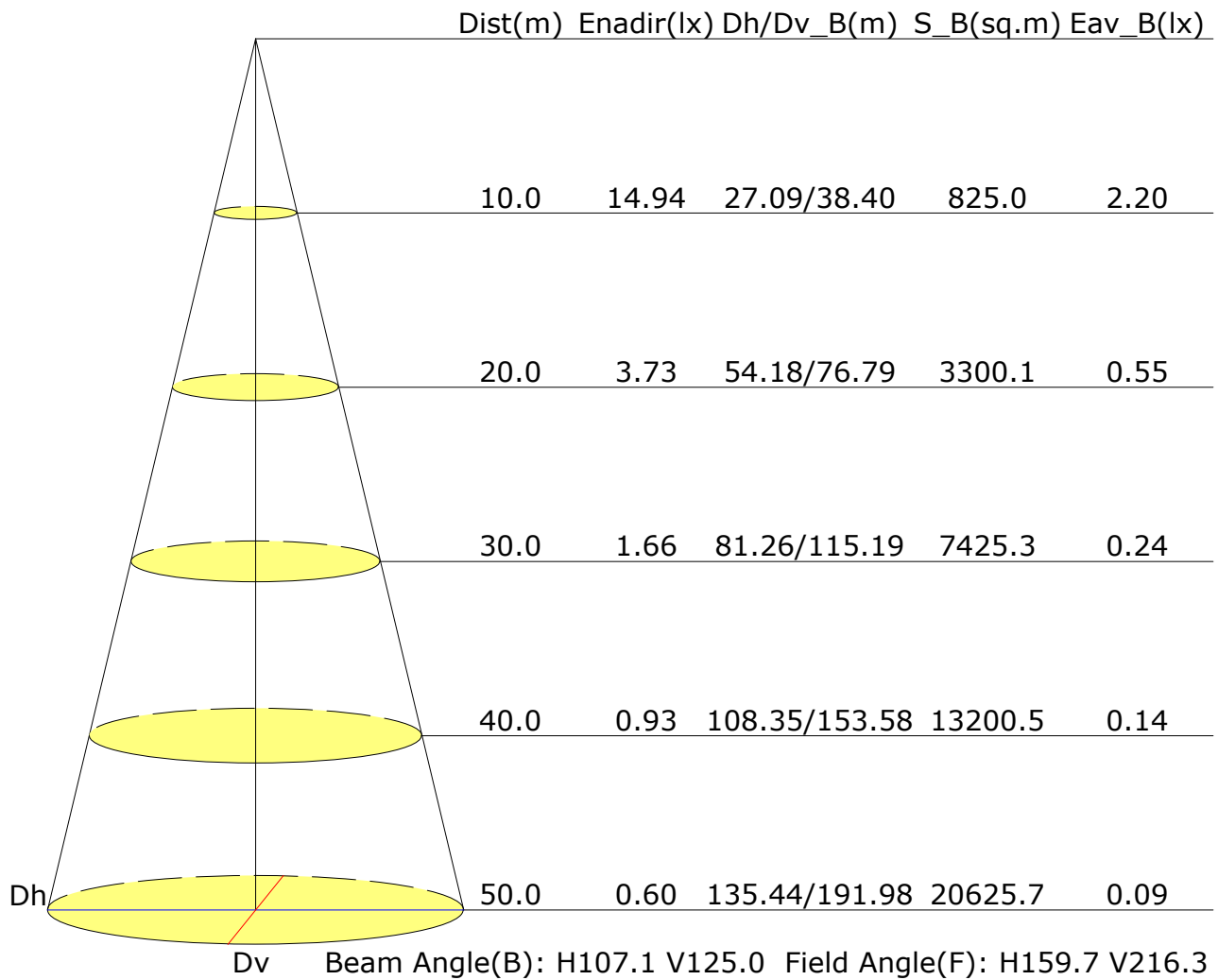


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4971	4476	3969	3445	2892	2306	1681	1051	487
C90	8907	8895	8940	9046	9240	9636	10382	11942	15644
C180	5065	4574	4076	3549	3001	2422	1800	1154	566
C270	9006	8983	9014	9090	9240	9577	10295	11797	15472

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Gamma Plane (°):0.0-180.0:1.0
 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	16.7	18.0	17.1	18.4	18.8	19.0	20.4	19.4	20.8	21.2
3H	17.7	19.0	18.2	19.4	19.8	21.1	22.4	21.6	22.8	23.2
4H	18.1	19.3	18.6	19.7	20.1	22.2	23.4	22.7	23.8	24.3
6H	18.3	19.4	18.8	19.8	20.3	23.3	24.4	23.8	24.8	25.3
8H	18.3	19.4	18.8	19.8	20.3	23.9	24.9	24.4	25.4	25.9
12H	18.3	19.3	18.8	19.8	20.3	24.5	25.5	25.0	26.0	26.5
X=4H Y=2H	17.5	18.7	18.0	19.1	19.6	19.4	20.5	19.8	21.0	21.4
3H	18.8	19.8	19.3	20.3	20.8	21.7	22.7	22.2	23.1	23.6
4H	19.3	20.2	19.8	20.7	21.2	22.9	23.8	23.4	24.3	24.8
6H	19.6	20.4	20.1	20.9	21.5	24.2	25.0	24.7	25.5	26.1
8H	19.7	20.4	20.2	20.9	21.5	24.8	25.6	25.4	26.1	26.7
12H	19.7	20.4	20.3	20.9	21.5	25.6	26.2	26.1	26.8	27.4
X=8H Y=4H	19.9	20.6	20.4	21.1	21.7	23.0	23.8	23.6	24.3	24.9
6H	20.4	21.0	20.9	21.5	22.2	24.5	25.1	25.1	25.6	26.3
8H	20.5	21.1	21.1	21.7	22.3	25.3	25.8	25.9	26.4	27.0
12H	20.6	21.1	21.2	21.7	22.4	26.2	26.6	26.8	27.2	27.9
X=12H Y=4H	20.0	20.7	20.6	21.2	21.8	23.0	23.7	23.6	24.2	24.8
6H	20.6	21.2	21.2	21.7	22.4	24.5	25.0	25.1	25.6	26.3
8H	20.9	21.3	21.5	21.9	22.6	25.3	25.8	26.0	26.4	27.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.6					+0.4/-0.4				
S=2.0H	+0.5/-1.1					+0.7/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5055lm ($8\log(F/F_0) = 5.6$).

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Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 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	0.62	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.66	0.74	0.80	0.84	0.90	0.94	
	0.20		0.38	0.47	0.55	0.60	0.69	0.75	0.79	0.86	0.90	
0.50	0.50	0.20	0.50	0.59	0.65	0.70	0.77	0.82	0.85	0.89	0.92	
	0.30		0.42	0.52	0.58	0.64	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	0.86	
0.30	0.50	0.20	0.47	0.56	0.62	0.67	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	0.52	0.57	0.64	0.69	0.73	0.78	0.82	
0.00	0.00	0.00	0.33	0.42	0.48	0.52	0.59	0.64	0.67	0.72	0.75	
Rating:40W 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	0.48	0.42	0.36	0.29	0.25	
	0.20		0.74	0.64	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	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.51	0.43	0.37	0.33	0.27	0.22	
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	0.35	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:40W 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	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29	
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.26	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.50	0.50	0.20	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28	
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.23	0.25	0.25	
	0.20		0.12	0.13	0.14	0.16	0.17	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27	
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.20		0.12	0.13	0.14	0.15	0.17	0.18	0.19	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:40W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												