

Report No.:

Test Time: 04.08.2020 16:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 24LED 0.3A 36W 5000K prozrachniy DALI

Number of Lamps: 1

Luminous Length (mm): 1262

Luminous Width (mm): 124

Luminous Height (mm): 85

Voltage: 221.3 V

Current: 0.168 A

Power: 35.99 W

Power Factor: 0.969

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4789.9 lm

Measurement Flux: 4789.9 lm

Efficiency: 100%

Downward Ratio: 98%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.1, 165.2, 165.3, 165.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.6, 91.5, 100.8, 101.6

Luminaire Efficacy Rating (LER): 133.14

Central Intensity: 1848.25 cd

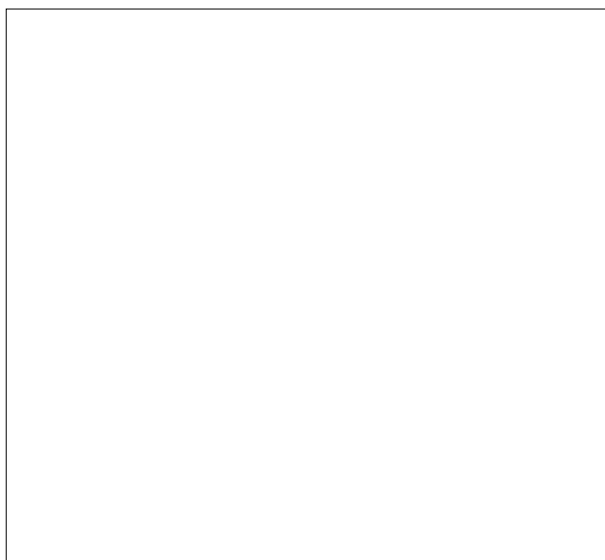
Max. Intensity: 2020.86 cd

Pos of Max. Intensity: H112.5 V18

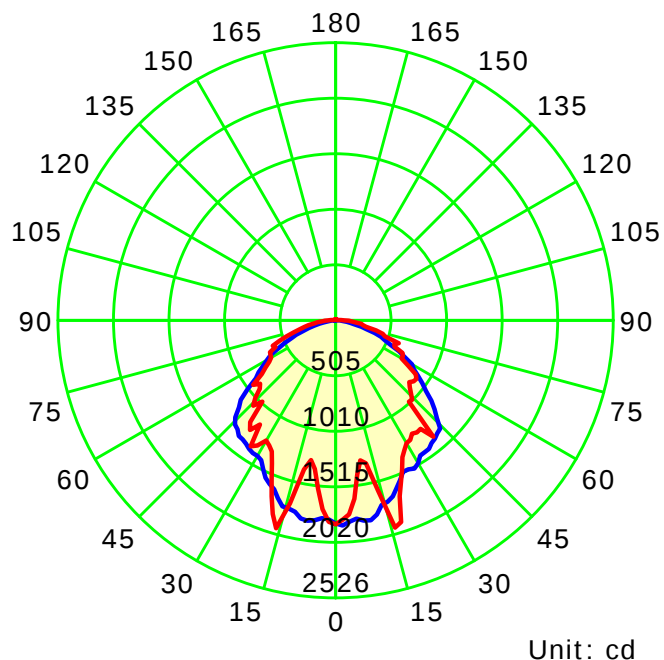
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.04

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

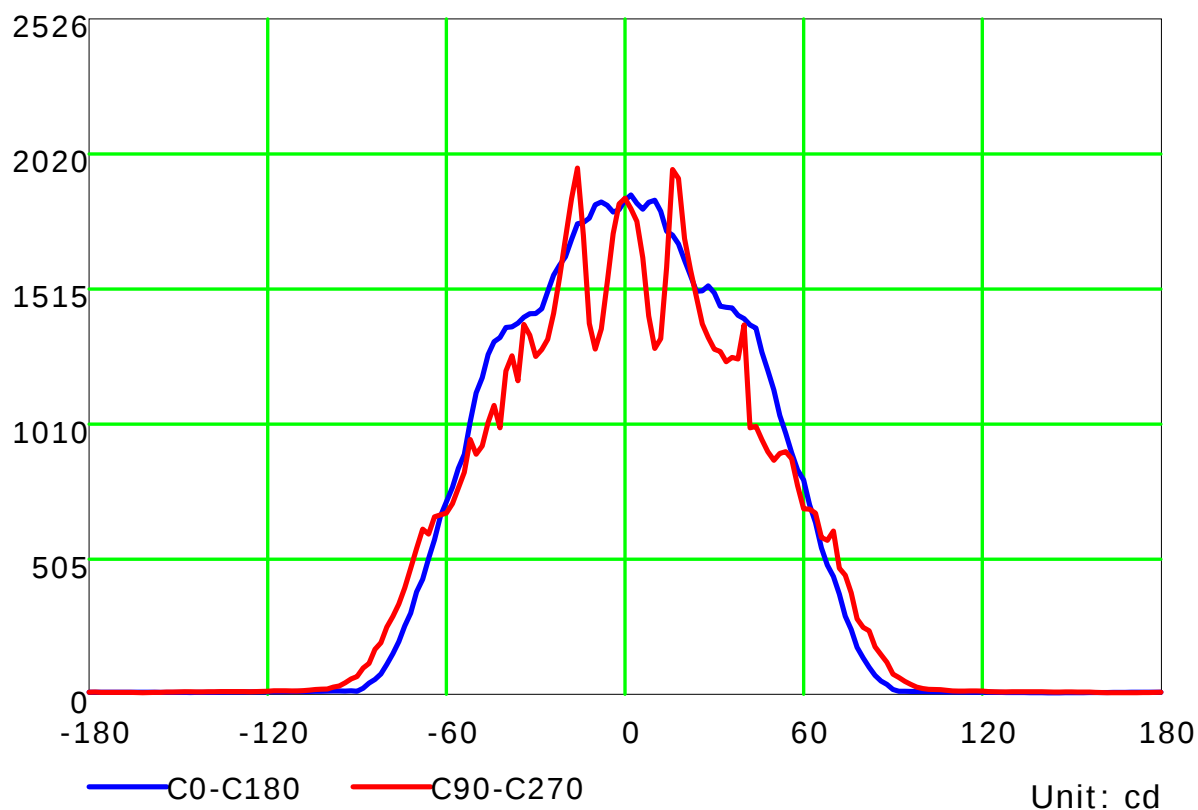
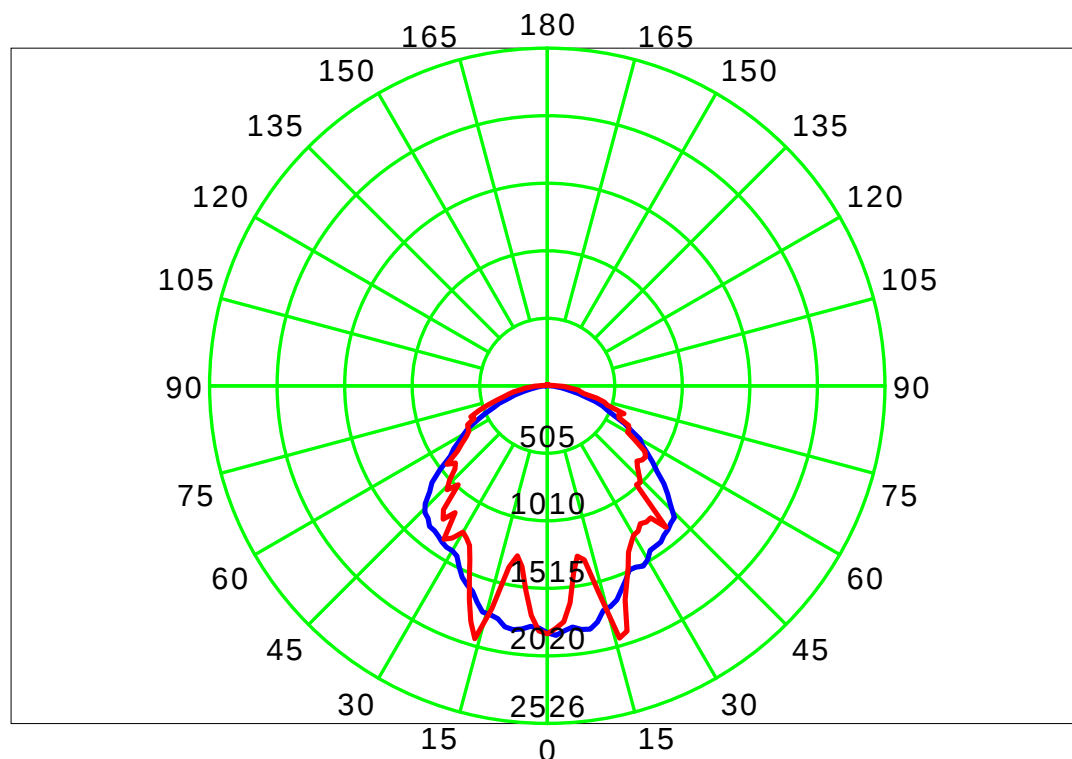
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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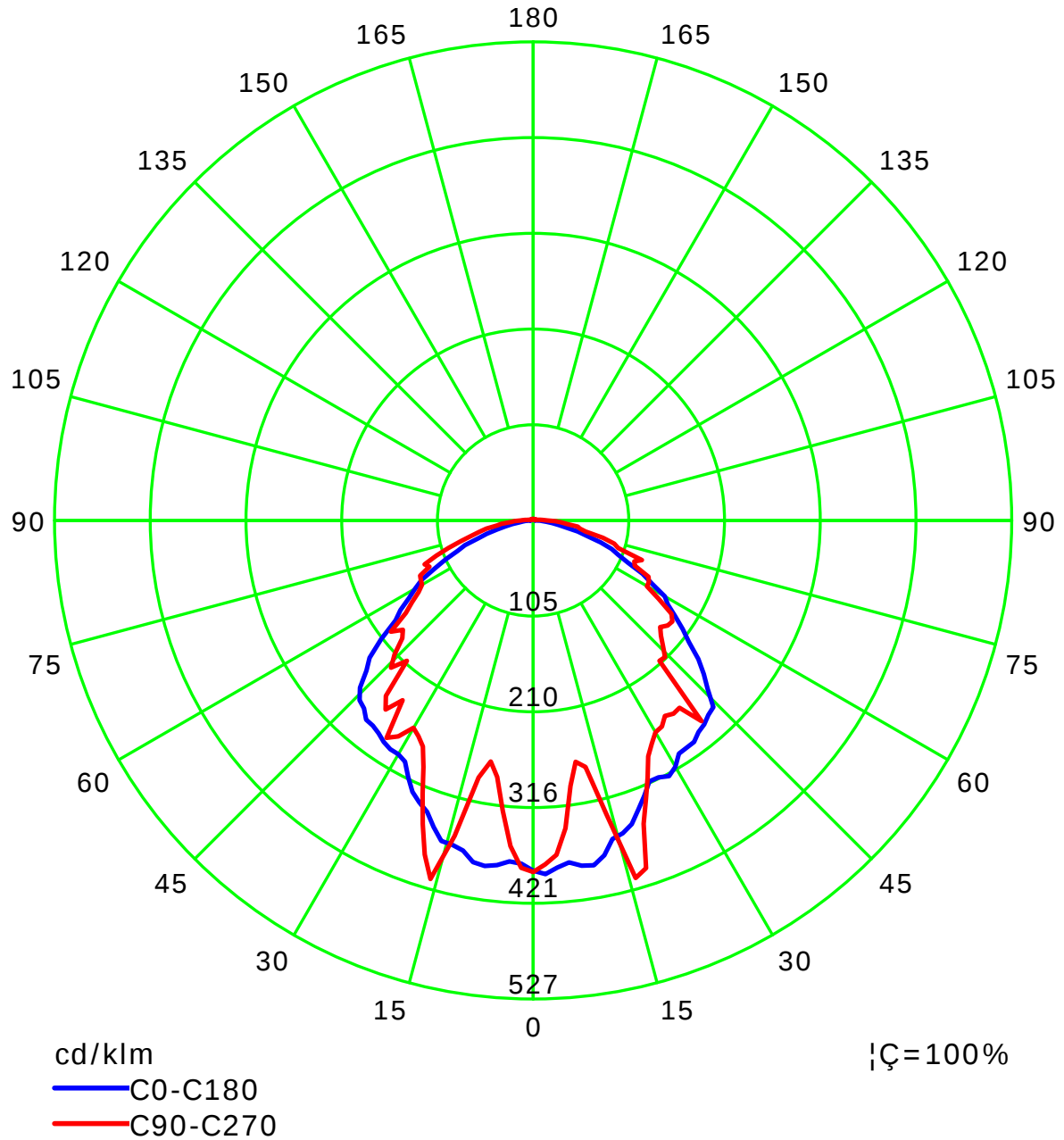
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

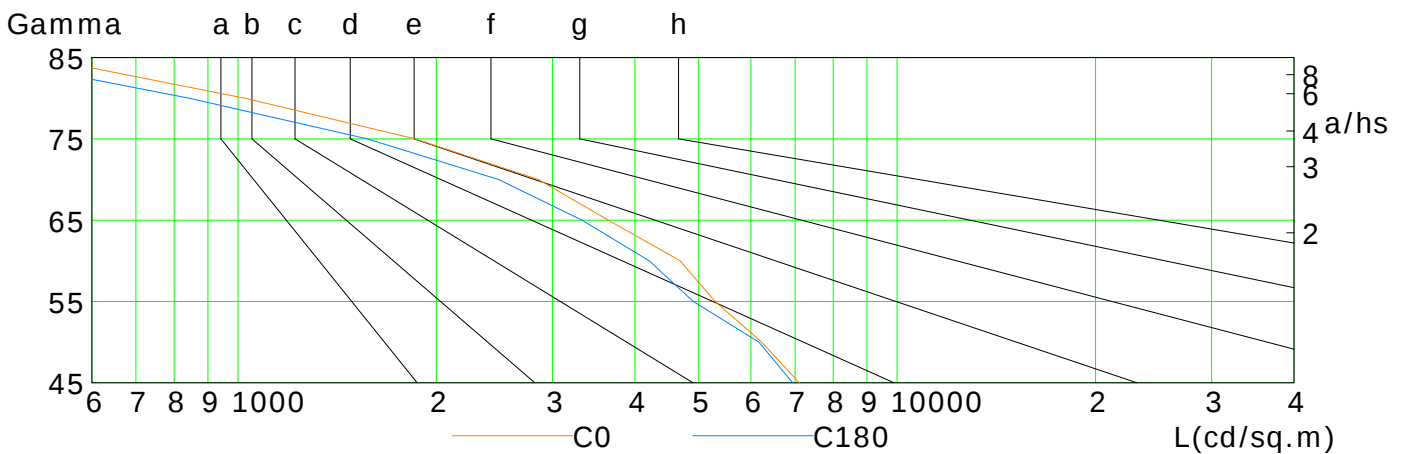
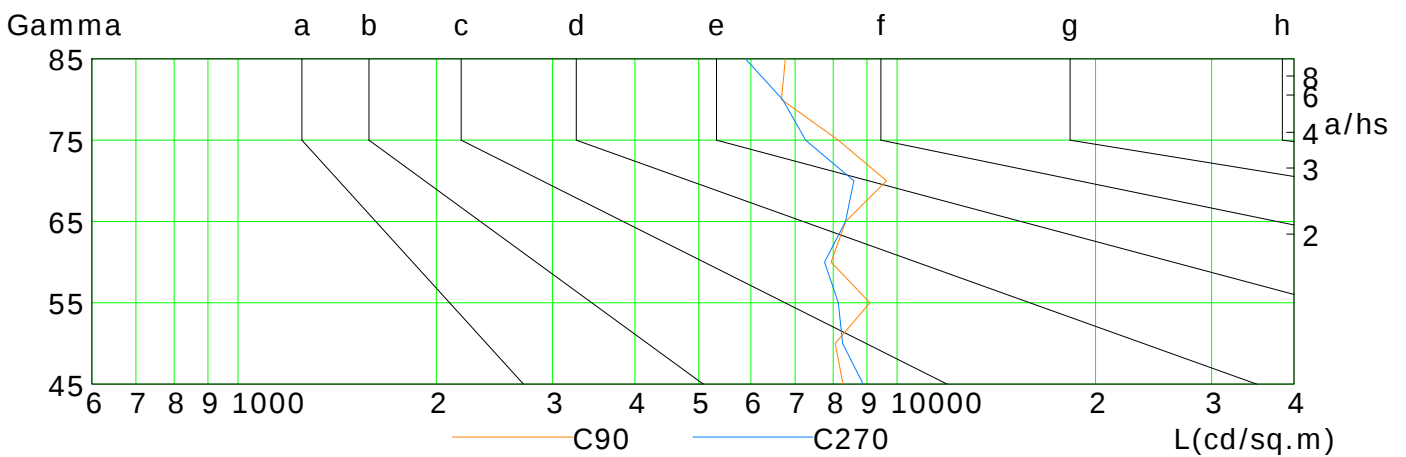
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7104	6229	5292	4686	3645	2856	1857	1025	500
C90	8275	8057	9092	7941	8356	9633	8144	6677	6768
C180	6944	6170	4907	4207	3326	2486	1571	843	407
C270	8882	8266	8144	7760	8348	8598	7264	6703	5887

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

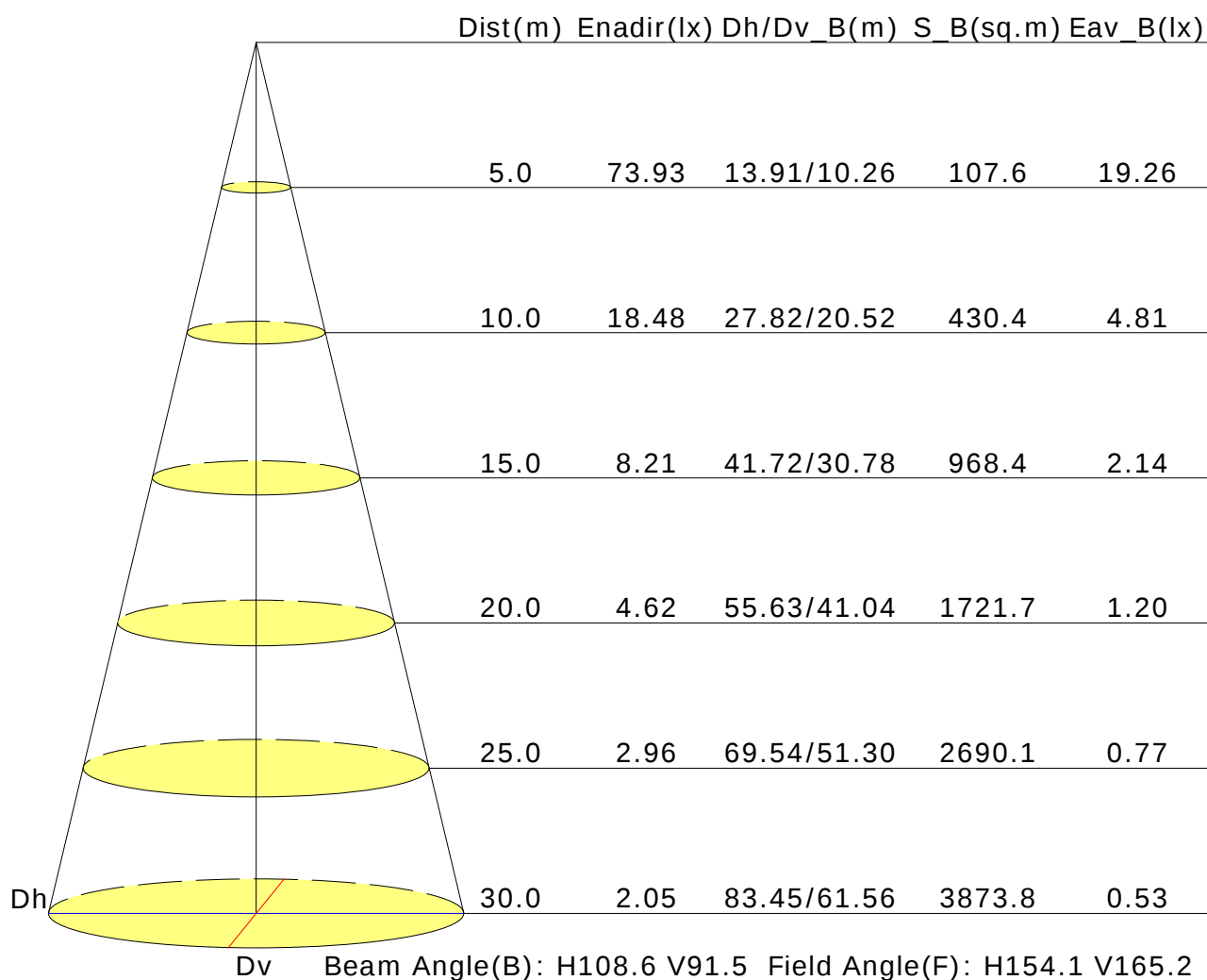
Test Device: LSG-1800B

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	18.1	19.4	18.4	19.7	20.0	18.8	20.2	19.1	20.4	20.7
3H	19.0	20.3	19.4	20.6	20.9	20.8	22.1	21.2	22.4	22.7
4H	19.3	20.5	19.7	20.8	21.2	21.6	22.8	22.0	23.1	23.5
6H	19.4	20.5	19.8	20.9	21.2	22.2	23.3	22.6	23.6	24.0
8H	19.4	20.5	19.8	20.9	21.2	22.4	23.5	22.8	23.9	24.2
12H	19.4	20.4	19.8	20.8	21.2	22.6	23.6	23.0	24.0	24.4
X=4H Y=2H	18.6	19.7	18.9	20.1	20.4	19.2	20.4	19.6	20.7	21.0
3H	19.7	20.7	20.1	21.1	21.5	21.4	22.4	21.8	22.8	23.2
4H	20.1	21.0	20.5	21.4	21.8	22.3	23.2	22.7	23.6	24.0
6H	20.3	21.1	20.7	21.5	22.0	23.0	23.8	23.4	24.2	24.7
8H	20.3	21.1	20.8	21.5	22.0	23.3	24.0	23.7	24.5	24.9
12H	20.3	21.0	20.8	21.5	22.0	23.5	24.2	24.0	24.7	25.2
X=8H Y=4H	20.4	21.2	20.9	21.6	22.1	22.4	23.2	22.9	23.6	24.1
6H	20.8	21.4	21.3	21.8	22.3	23.2	23.8	23.7	24.3	24.8
8H	20.9	21.4	21.4	21.9	22.4	23.6	24.1	24.1	24.6	25.2
12H	20.9	21.4	21.4	21.9	22.4	24.0	24.4	24.5	24.9	25.5
X=12H Y=4H	20.5	21.2	21.0	21.6	22.1	22.4	23.1	22.9	23.6	24.0
6H	20.9	21.4	21.4	21.9	22.4	23.3	23.8	23.8	24.3	24.8
8H	21.0	21.5	21.5	22.0	22.5	23.7	24.1	24.2	24.6	25.2
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.4					+0.1/-0.2				
S=1.5H	+0.8/-0.6					+0.4/-0.5				
S=2.0H	+1.5/-1.5					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 4790lm ($8\log(F/F_0) = 5.4$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.56	0.66	0.73	0.79	0.86	0.91	0.94	0.99	1.02	
	0.30		0.48	0.58	0.66	0.71	0.79	0.85	0.89	0.95	0.98	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.82	0.87	0.90	0.95	0.97	
	0.30		0.47	0.57	0.64	0.69	0.77	0.82	0.86	0.91	0.94	
	0.20		0.42	0.52	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.79	0.83	0.87	0.91	0.93	
	0.30		0.46	0.56	0.62	0.68	0.75	0.79	0.83	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.85	0.88	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.72	0.75	0.80	0.83	
Rating:36W 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	1.00	0.83	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.43	0.34	0.26	0.22	
	0.30		0.81	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.93	0.76	0.65	0.57	0.45	0.38	0.32	0.25	0.21	
	0.30		0.79	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
Rating:36W 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	0.18	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.18	0.20	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	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:36W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												