OOO "FAROS"
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Report No.: 1 Test Time: 26.03.2020 21:14

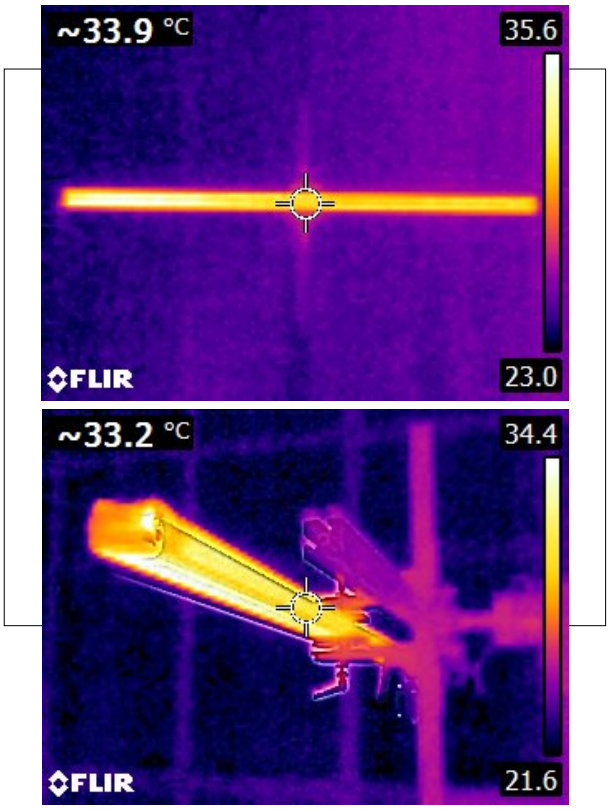
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FG 50 (1500) 4x70LED 76W 5000K прозрачный с линзой 30 гр. DALI
Luminous Length (mm): 1545 Luminous Width (mm): 55
Luminous Height (mm): 80 Voltage: 228.9 V
Current: 0.336 A Power: 75.30 W
Power Factor: 0.978

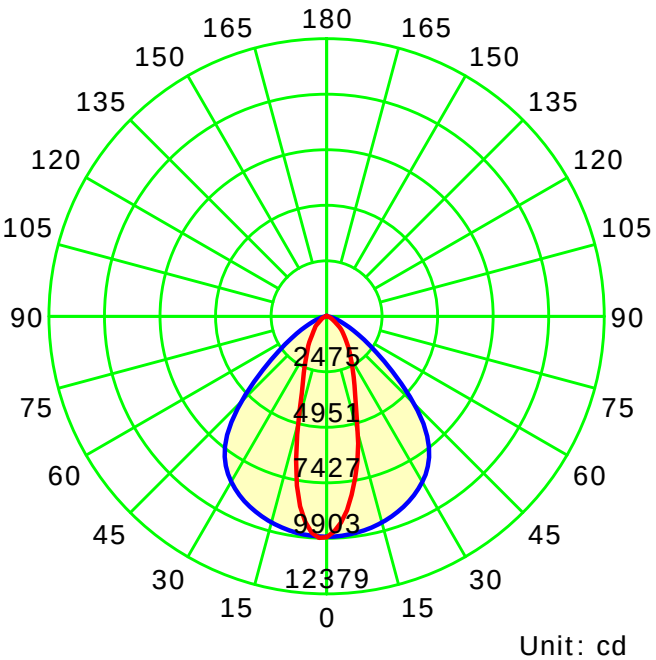
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 10337.2 lm
Measurement Flux: 10337.2 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 130.2, 84.8, 101.2, 101.1
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 93.1, 30.9, 40.3, 40.3
Luminaire Efficacy Rating (LER): 137.33 Central Intensity: 9826.29 cd
Max. Intensity: 9903.52 cd Pos of Max. Intensity: H225 V2
S/MH(C0/C180): 1.28 S/MH(C90/C270): 0.51

Termogramma

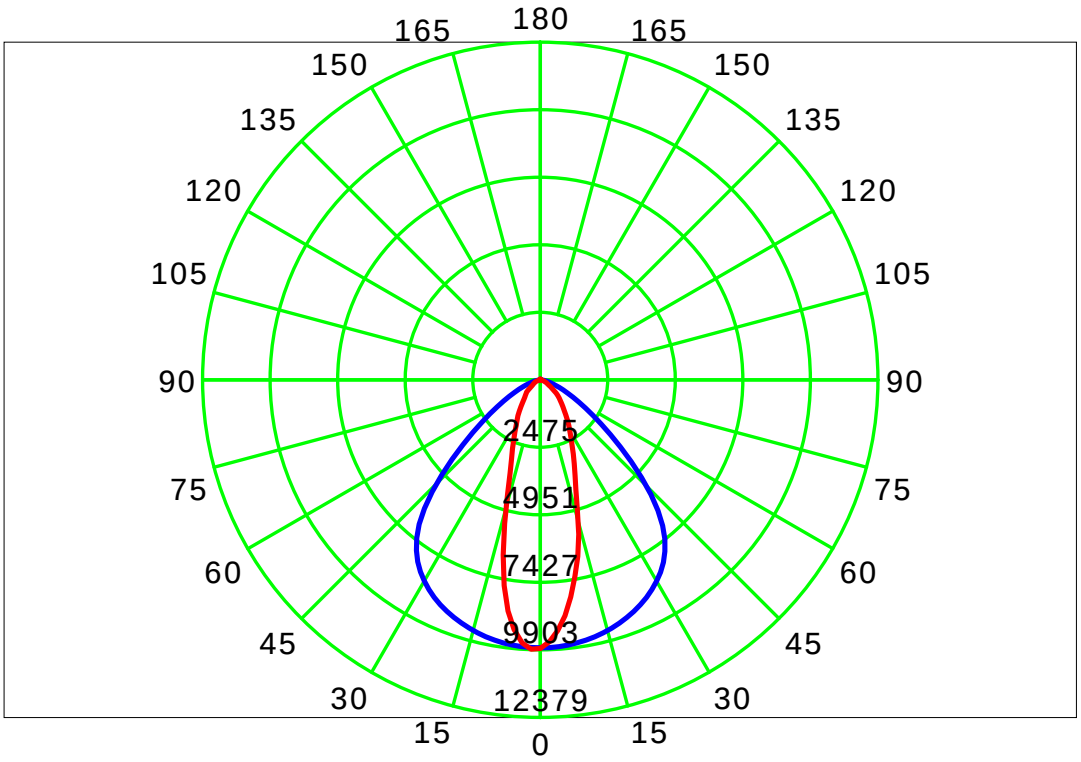


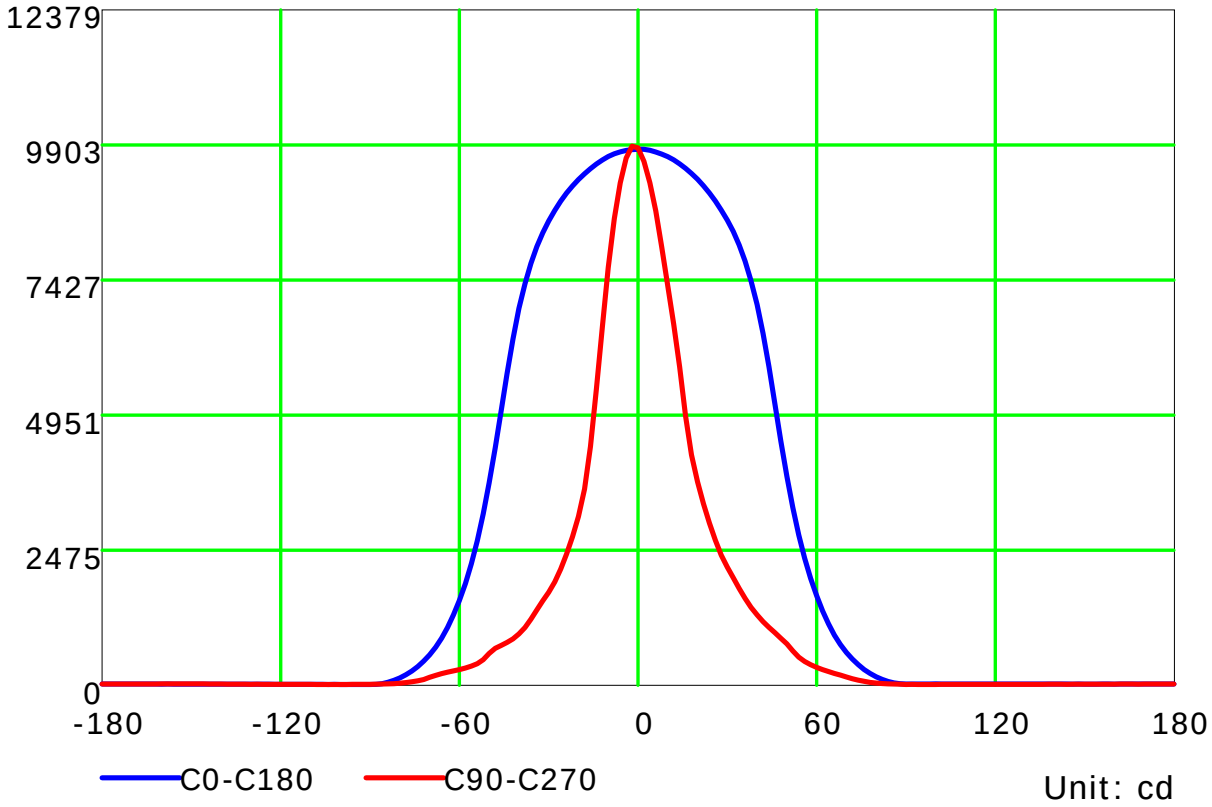
Luminous Intensity Distribution Curve



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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Operator:

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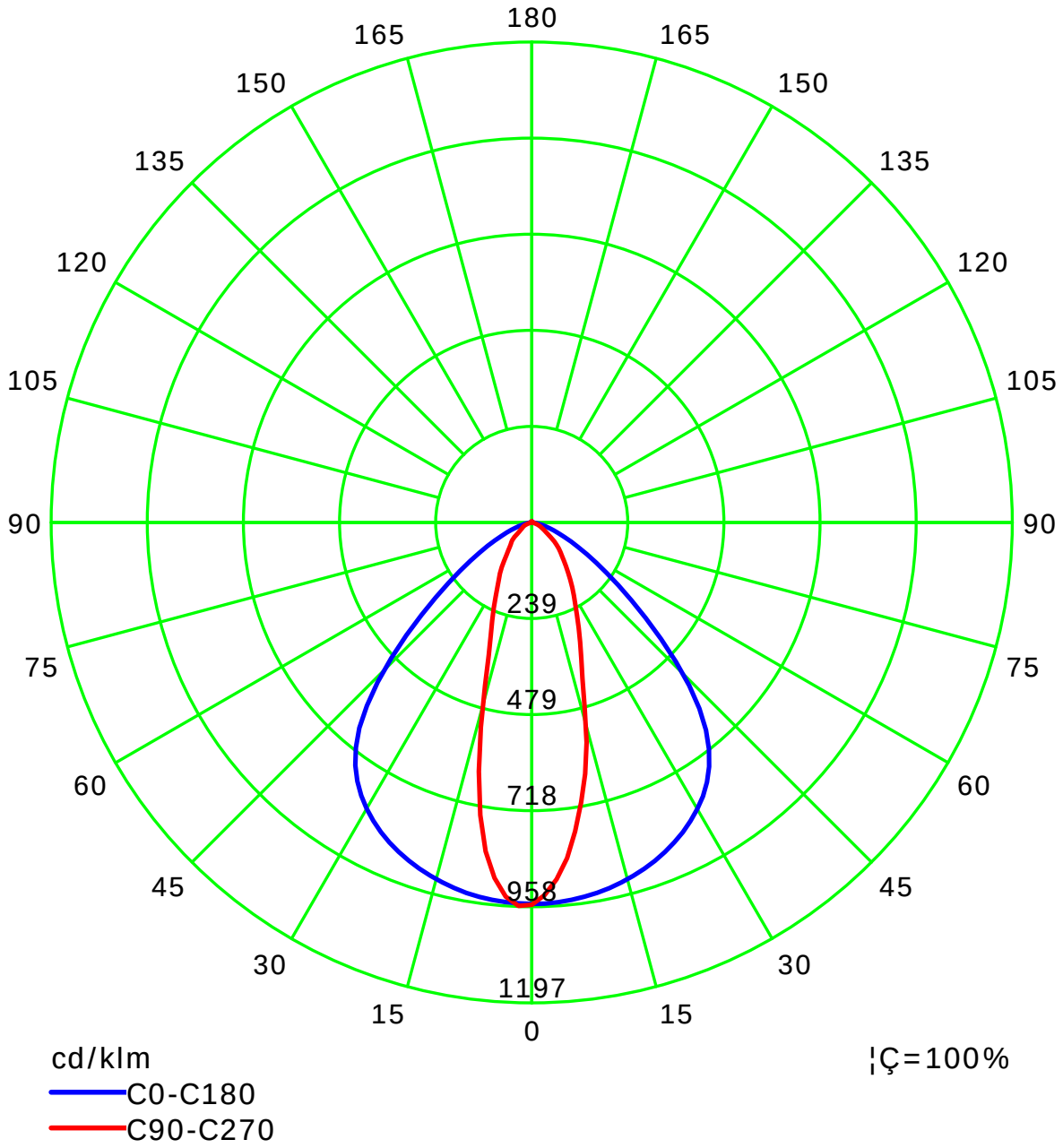
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
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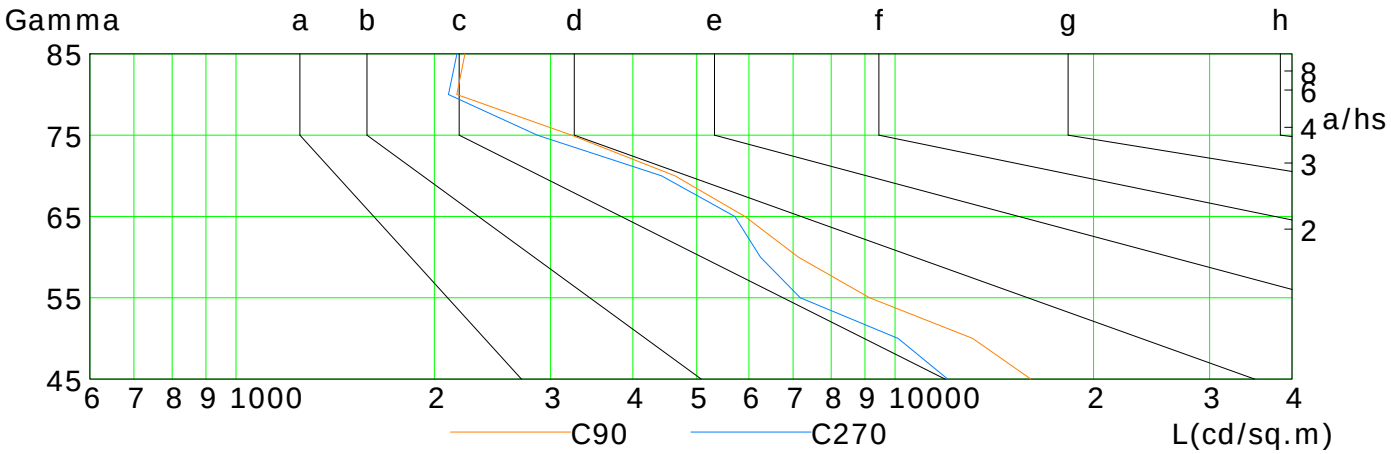
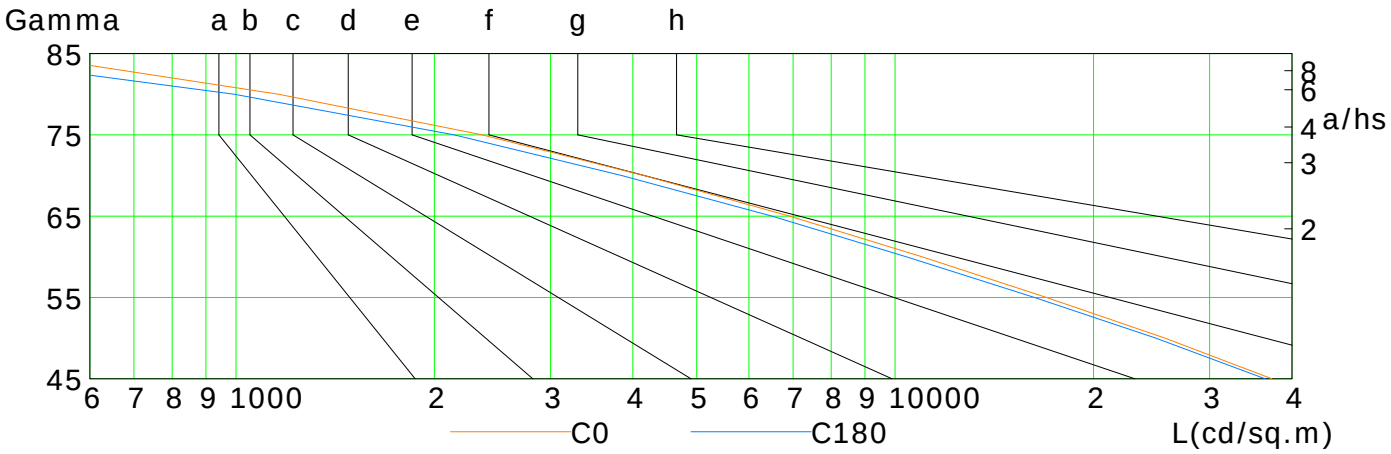
Lum Limit Curve

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	37295	25666	16969	10990	6918	4159	2363	1160	460
C90	16064	13114	9148	7131	5918	4635	3229	2162	2225
C180	36431	24855	16271	10401	6505	3847	2143	994	341
C270	12018	10105	7180	6246	5711	4422	2864	2100	2163

C Plane (°):0.0-360.0: 22.5
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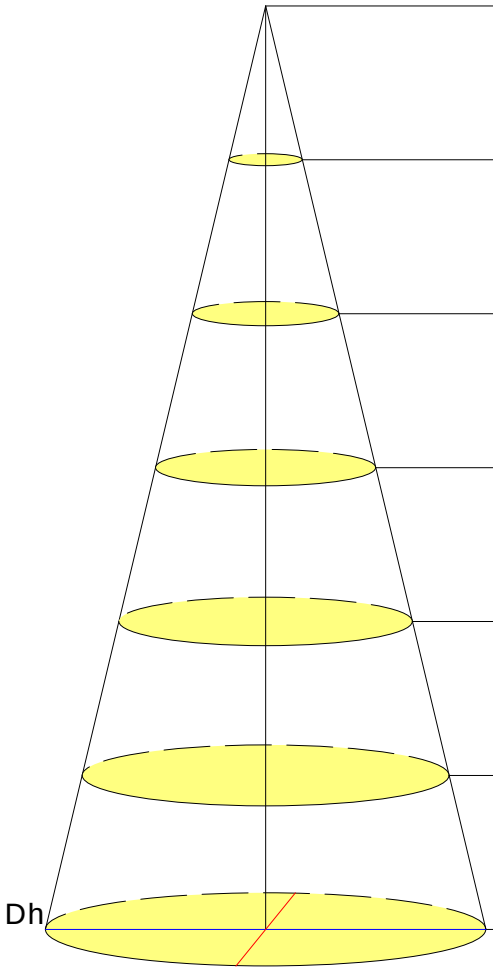
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	393.05	10.55/2.77	21.3	197.43
10.0	98.26	21.10/5.53	85.1	49.36
15.0	43.67	31.65/8.30	191.4	21.94
20.0	24.57	42.20/11.06	340.3	12.34
25.0	15.72	52.75/13.83	531.7	7.90
30.0	10.92	63.30/16.59	765.6	5.48

Beam Angle(B): H93.1 V30.9 Field Angle(F): H130.2 V84.8

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:

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	22.1	23.2	22.4	23.4	23.7	15.8	16.9	16.1	17.1	17.3
3H	22.4	23.4	22.8	23.7	24.0	16.2	17.1	16.5	17.4	17.7
4H	22.5	23.4	22.8	23.7	24.0	16.2	17.1	16.6	17.4	17.8
6H	22.5	23.3	22.8	23.6	24.0	16.2	17.1	16.6	17.4	17.7
8H	22.4	23.3	22.8	23.6	23.9	16.2	17.1	16.6	17.4	17.7
12H	22.4	23.2	22.8	23.5	23.9	16.2	17.0	16.6	17.3	17.7
X=4H Y=2H	22.0	22.9	22.3	23.2	23.5	16.3	17.2	16.6	17.5	17.8
3H	22.4	23.2	22.8	23.5	23.9	16.7	17.5	17.1	17.8	18.2
4H	22.5	23.2	22.9	23.6	24.0	16.8	17.5	17.2	17.9	18.3
6H	22.5	23.1	23.0	23.5	24.0	16.8	17.4	17.3	17.8	18.3
8H	22.5	23.1	23.0	23.5	23.9	16.8	17.4	17.3	17.8	18.2
12H	22.5	23.0	22.9	23.4	23.9	16.8	17.3	17.3	17.8	18.2
X=8H Y=4H	22.4	23.0	22.9	23.4	23.8	16.9	17.5	17.3	17.9	18.3
6H	22.5	22.9	22.9	23.4	23.8	16.9	17.4	17.4	17.8	18.3
8H	22.4	22.8	22.9	23.3	23.8	16.9	17.3	17.4	17.8	18.3
12H	22.4	22.8	22.9	23.3	23.8	17.0	17.3	17.5	17.8	18.3
X=12H Y=4H	22.4	22.9	22.9	23.3	23.8	16.9	17.4	17.3	17.8	18.3
6H	22.4	22.8	22.9	23.3	23.8	16.9	17.3	17.4	17.8	18.3
8H	22.4	22.8	22.9	23.2	23.8	16.9	17.3	17.4	17.8	18.3
Variations with the observer position at spacings:										
S=1.0H	+1.3/-1.1					+0.7/-1.3				
S=1.5H	+3.1/-2.2					+1.6/-2.4				
S=2.0H	+4.8/-3.6					+2.4/-3.5				

Calculate in accordance with CIE Pub.117. The table is revised with 10337lm (8log(F/F0) = 8.1).

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 = 0.75								
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	0.69	0.78	0.84	0.89	0.95	0.99	1.01	1.05	1.07
	0.30		0.63	0.72	0.78	0.83	0.90	0.94	0.98	1.02	1.04
	0.20		0.58	0.67	0.74	0.79	0.86	0.91	0.94	0.99	1.02
0.50	0.50	0.20	0.67	0.76	0.82	0.86	0.92	0.95	0.98	1.01	1.03
	0.30		0.62	0.70	0.77	0.81	0.88	0.92	0.94	0.98	1.01
	0.20		0.57	0.66	0.73	0.77	0.84	0.89	0.92	0.96	0.99
0.30	0.50	0.20	0.66	0.74	0.80	0.83	0.89	0.92	0.94	0.97	0.99
	0.30		0.61	0.69	0.75	0.80	0.85	0.89	0.92	0.95	0.97
	0.20		0.57	0.66	0.72	0.76	0.82	0.86	0.89	0.93	0.95
0.00	0.00	0.00	0.55	0.63	0.69	0.73	0.79	0.83	0.85	0.88	0.91

Rating:75W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75								
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	0.81	0.66	0.56	0.48	0.38	0.31	0.26	0.20	0.16
	0.30		0.68	0.57	0.48	0.42	0.34	0.28	0.24	0.19	0.16
	0.20		0.58	0.49	0.43	0.38	0.31	0.26	0.23	0.18	0.15
0.50	0.50	0.20	0.78	0.63	0.53	0.45	0.35	0.33	0.25	0.19	0.15
	0.30		0.66	0.55	0.47	0.41	0.32	0.27	0.23	0.18	0.15
	0.20		0.57	0.48	0.42	0.37	0.30	0.25	0.22	0.17	0.14
0.30	0.50	0.20	0.75	0.60	0.50	0.43	0.33	0.27	0.23	0.18	0.14
	0.30		0.64	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14
	0.20		0.56	0.47	0.41	0.36	0.29	0.24	0.21	0.16	0.13
0.00	0.00	0.00	0.44	0.36	0.30	0.26	0.20	0.17	0.14	0.11	0.09

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 = 0.75								
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	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.23
	0.30		0.10	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.18
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Rating:75W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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: