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Report No.: Test Time: 26.03.2020 21:14

Luminaire Property

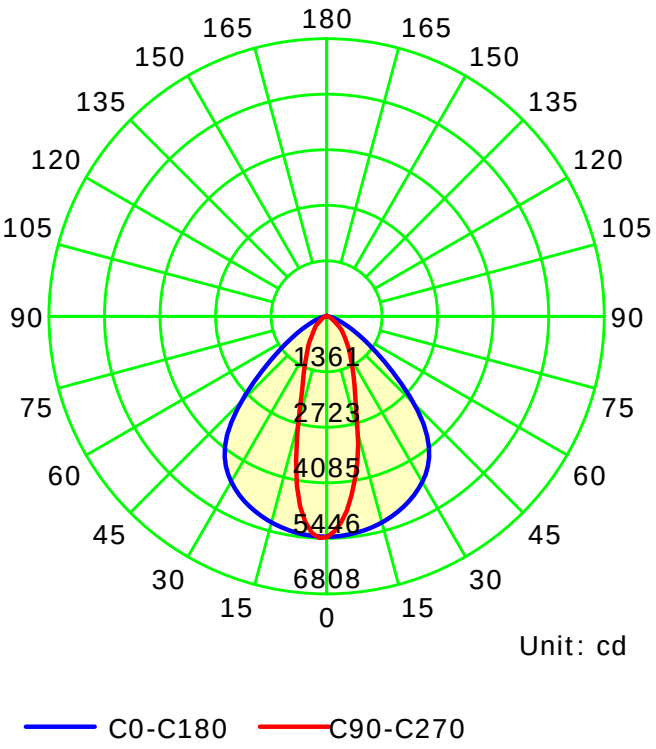
Luminaire Manufacturer:
Luminaire Description: FG 50 (900) 3x39LED 42W 5000K прозрачный с линзой 30 гр. DALI
Luminous Length (mm): 945 Luminous Width (mm): 55
Luminous Height (mm): 80 Voltage: 228.9 V
Current: 0.185 A Power: 41.35 W
Power Factor: 0.979

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 5685.5 lm
Measurement Flux: 5685.5 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): 137.55 Central Intensity: 5404.46 cd
Max. Intensity: 5446.94 cd Pos of Max. Intensity: H225 V2
S/MH(C0/C180): 1.28 S/MH(C90/C270): 0.51

Picture Of Luminaire

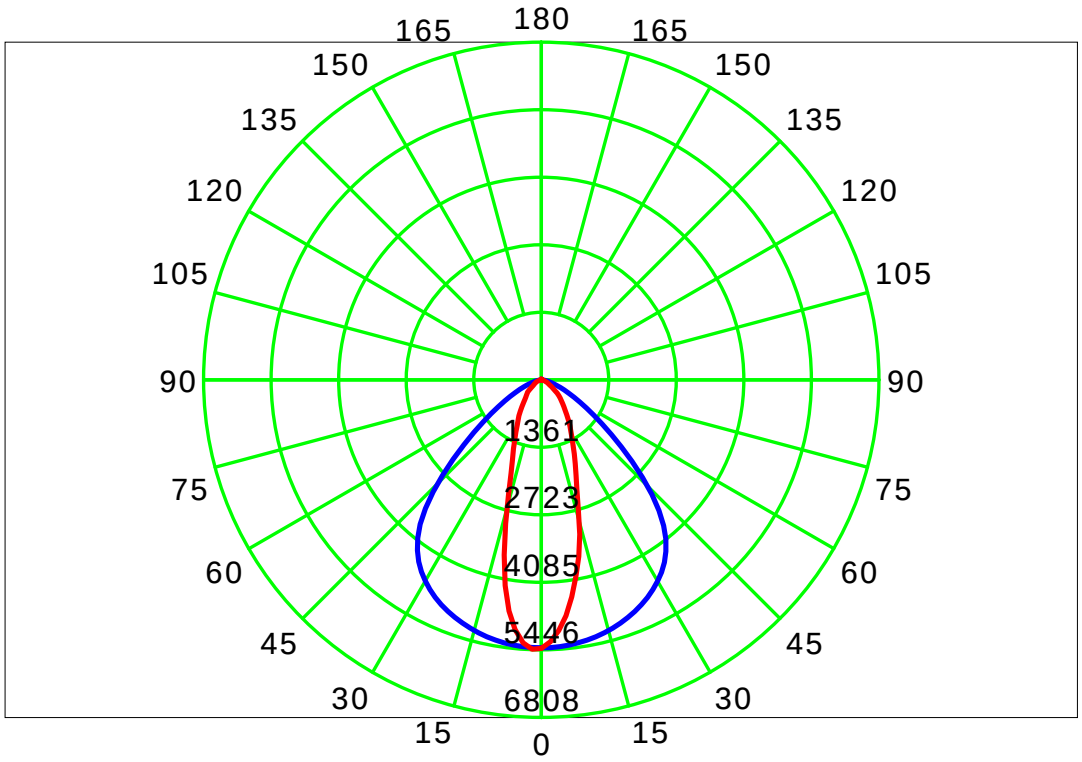
Luminous Intensity Distribution Curve

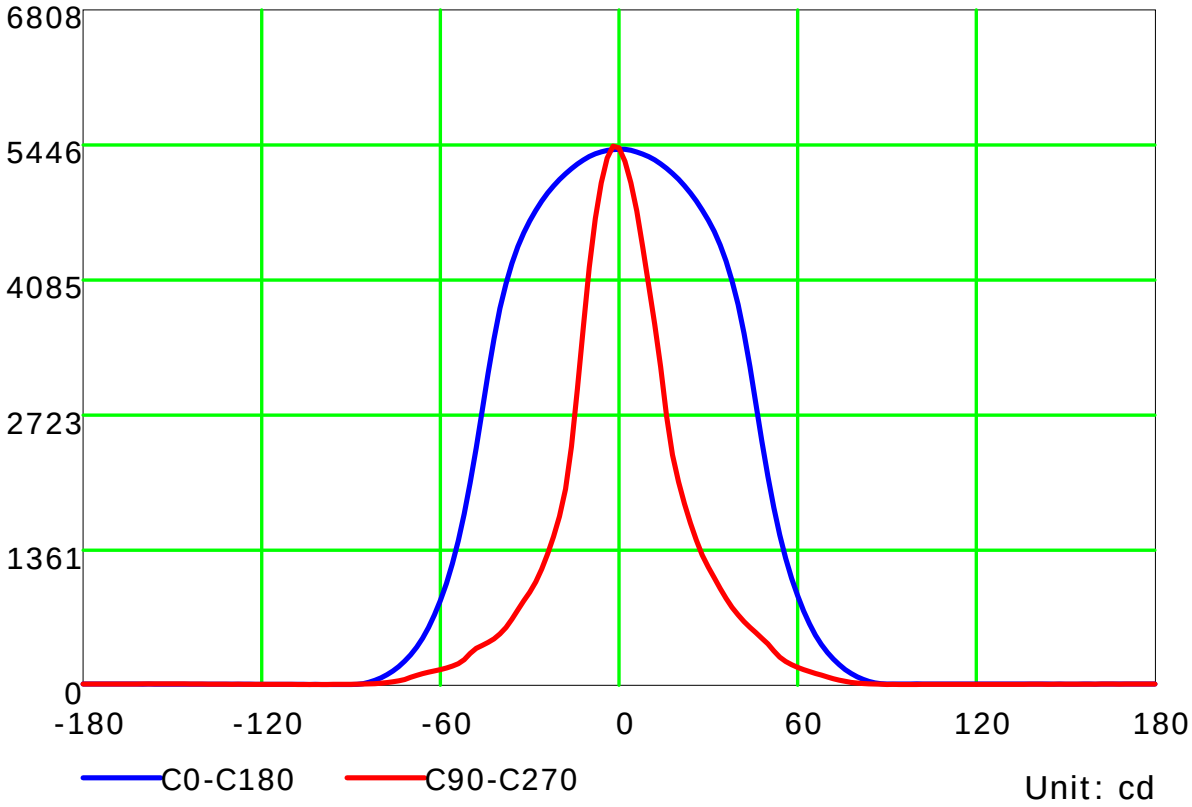


Unit: cd

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

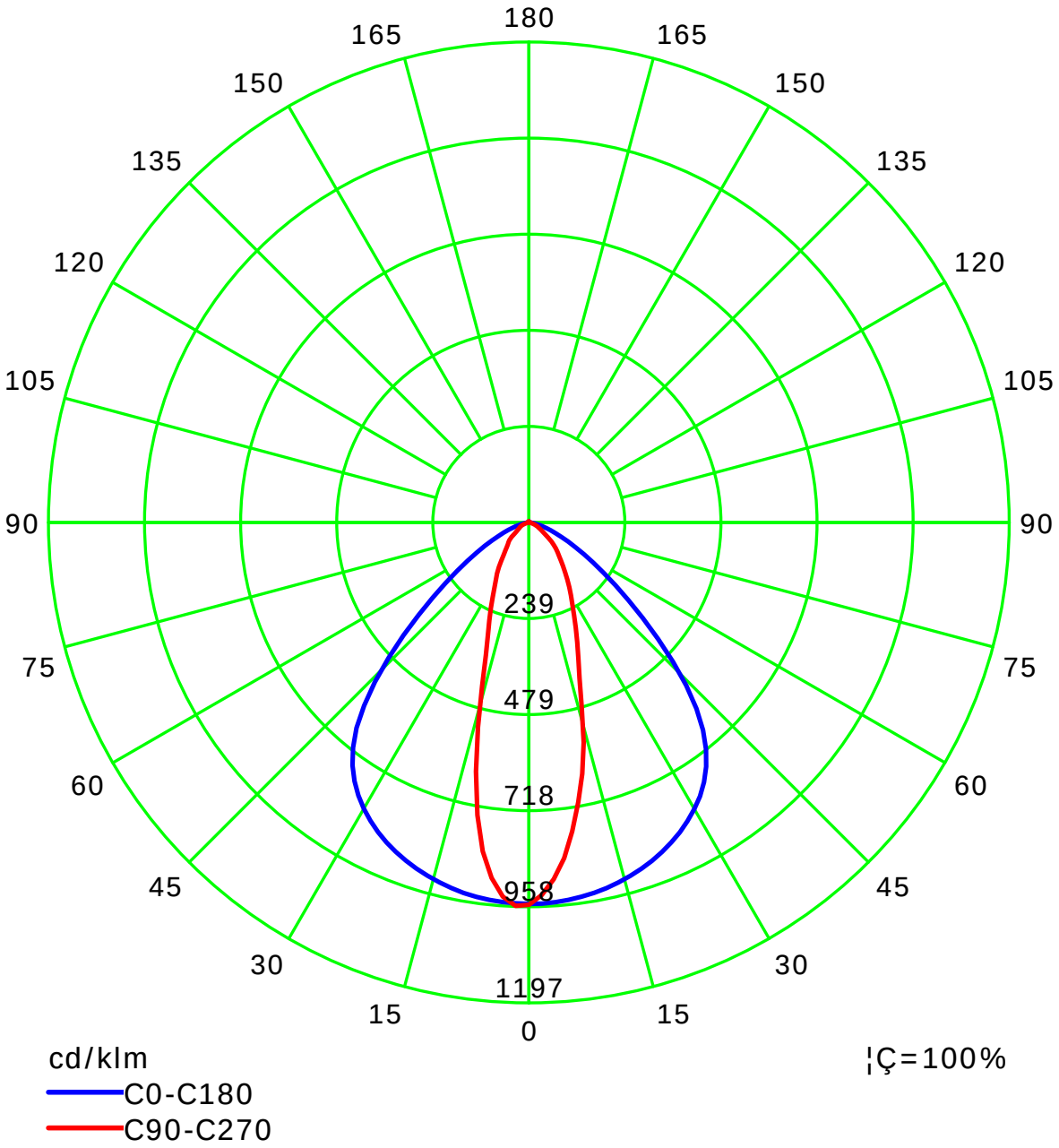




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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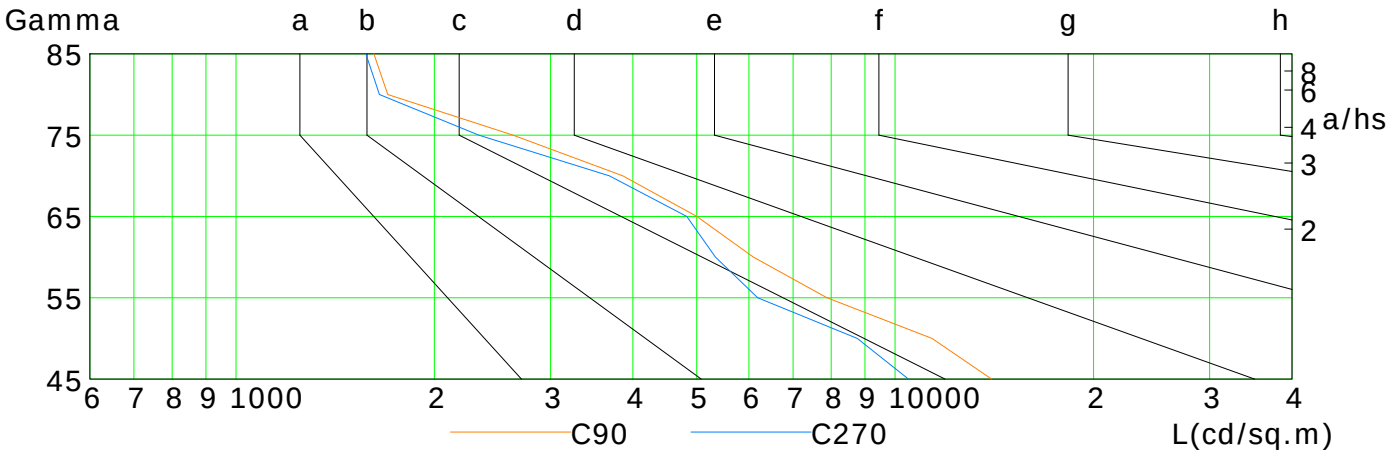
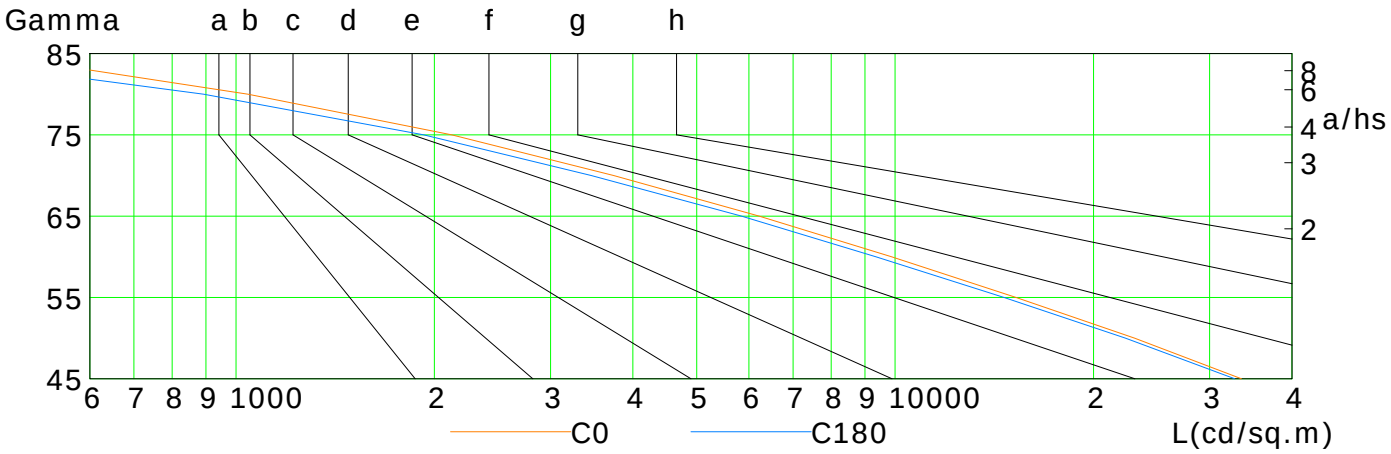
Lum Limit Curve

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	33536	23079	15258	9883	6221	3740	2125	1043	413
C90	14007	11373	7882	6094	5004	3862	2633	1699	1619
C180	32759	22350	14631	9353	5849	3459	1927	893	307
C270	10479	8763	6186	5337	4829	3685	2336	1651	1574

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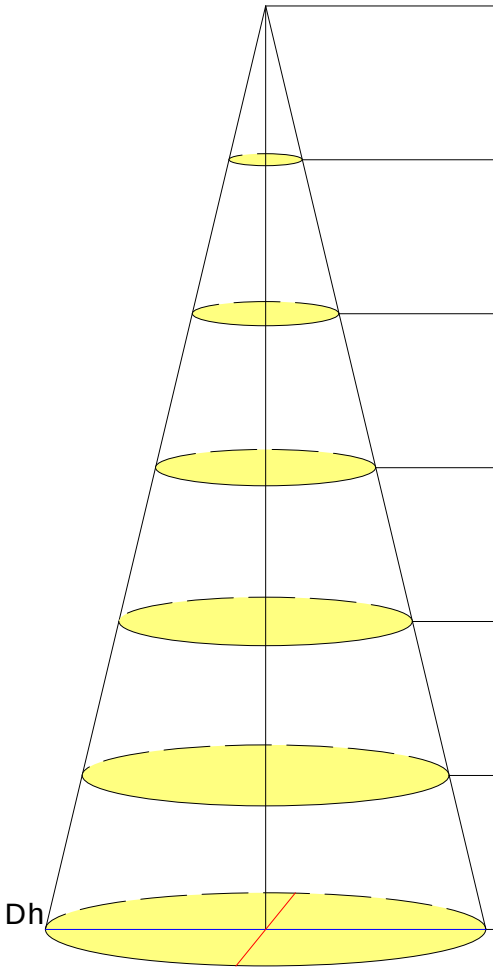
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	216.18	10.55/2.77	21.3	108.59
10.0	54.04	21.10/5.53	85.1	27.15
15.0	24.02	31.65/8.30	191.4	12.07
20.0	13.51	42.20/11.06	340.3	6.79
25.0	8.65	52.75/13.83	531.7	4.34
30.0	6.00	63.30/16.59	765.6	3.02

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	21.7	22.8	22.0	23.0	23.3	15.3	16.4	15.6	16.7	16.9
3H	22.1	23.0	22.4	23.3	23.6	15.7	16.7	16.0	17.0	17.2
4H	22.1	23.0	22.5	23.3	23.6	15.8	16.7	16.1	17.0	17.3
6H	22.1	22.9	22.4	23.3	23.6	15.8	16.6	16.1	16.9	17.3
8H	22.1	22.9	22.4	23.2	23.5	15.8	16.6	16.1	16.9	17.3
12H	22.0	22.8	22.4	23.1	23.5	15.7	16.5	16.1	16.9	17.2
X=4H Y=2H	21.6	22.5	21.9	22.8	23.1	15.9	16.8	16.2	17.1	17.4
3H	22.0	22.8	22.4	23.2	23.5	16.3	17.0	16.6	17.4	17.7
4H	22.1	22.8	22.6	23.2	23.6	16.3	17.0	16.8	17.4	17.8
6H	22.1	22.8	22.6	23.2	23.6	16.4	17.0	16.8	17.4	17.8
8H	22.1	22.7	22.6	23.1	23.5	16.4	16.9	16.8	17.3	17.8
12H	22.1	22.6	22.6	23.0	23.5	16.4	16.9	16.8	17.3	17.8
X=8H Y=4H	22.0	22.6	22.5	23.0	23.5	16.4	17.0	16.9	17.4	17.9
6H	22.1	22.5	22.6	23.0	23.5	16.5	16.9	17.0	17.4	17.9
8H	22.1	22.5	22.6	22.9	23.4	16.5	16.9	17.0	17.4	17.9
12H	22.0	22.4	22.5	22.9	23.4	16.5	16.8	17.0	17.3	17.9
X=12H Y=4H	22.0	22.5	22.5	22.9	23.4	16.4	16.9	16.9	17.4	17.8
6H	22.0	22.4	22.5	22.9	23.4	16.5	16.9	17.0	17.3	17.8
8H	22.0	22.4	22.5	22.9	23.4	16.5	16.8	17.0	17.3	17.8
Variations with the observer position at spacings:										
S=1.0H	+1.3/-1.1					+0.8/-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 5685lm (8log(F/F0) = 6.0).

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:41W 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:41W 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:41W 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: