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Report No.: Test Time: 26.03.2020 23:21

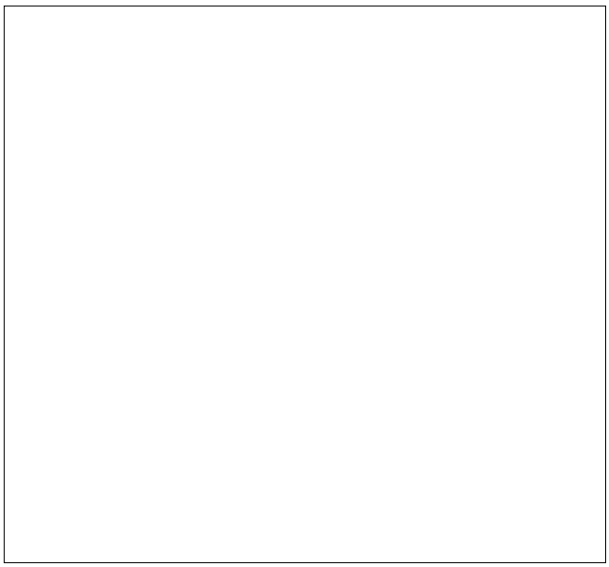
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FG 50 (1500) 4x70LED 112W 5000K прозрачный с линзой 90 гр. DALI
Luminous Length (mm): 1545 Luminous Width (mm): 55
Luminous Height (mm): 80 Voltage: 229.3 V
Current: 0.504 A Power: 113.19 W
Power Factor: 0.980

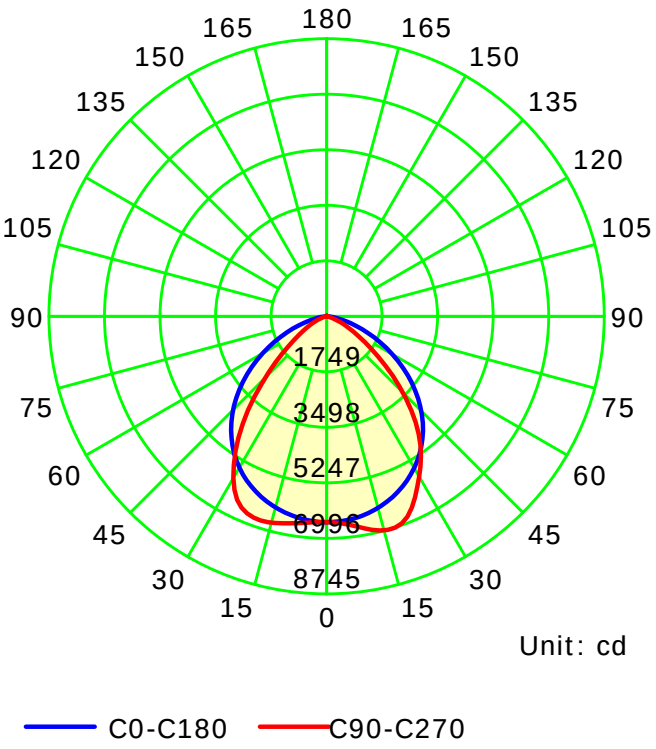
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 15231.7 lm
Measurement Flux: 15231.7 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.6, 124.0, 136.7, 136.9
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.1, 86.0, 97.1, 97.2
Luminaire Efficacy Rating (LER): 134.62 Central Intensity: 6485.23 cd
Max. Intensity: 6996.55 cd Pos of Max. Intensity: H90 V18
S/MH(C0/C180): 1.26 S/MH(C90/C270): 1.28

Picture Of Luminaire



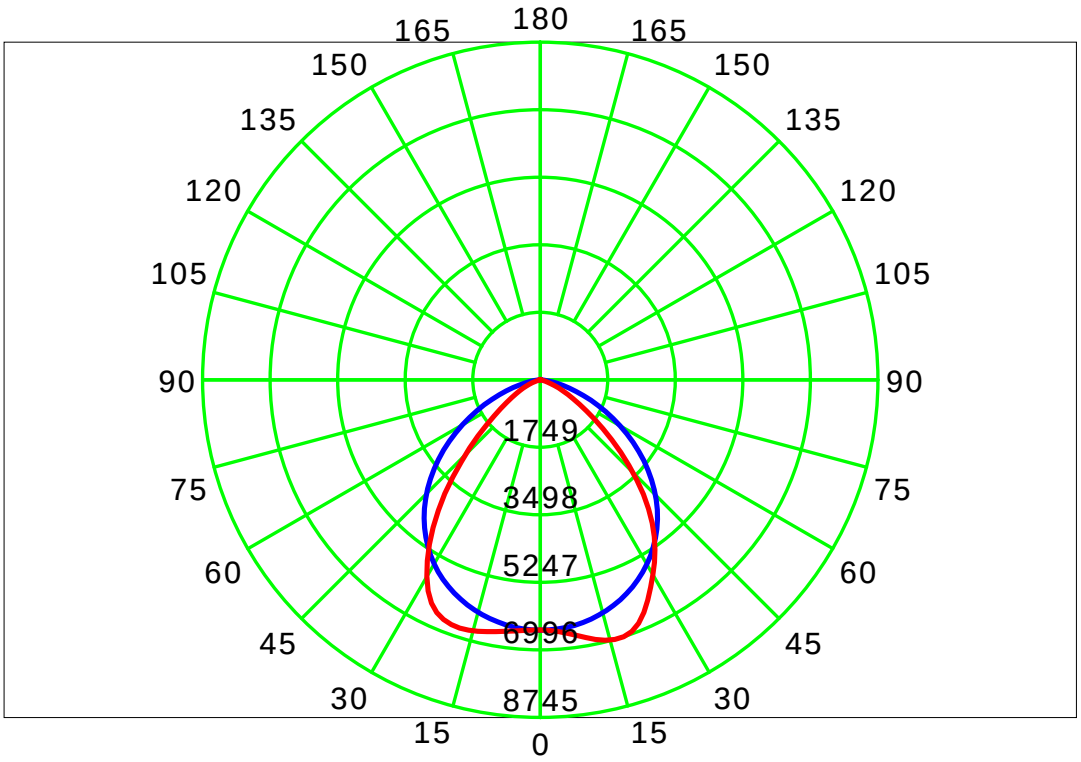
Luminous Intensity Distribution Curve

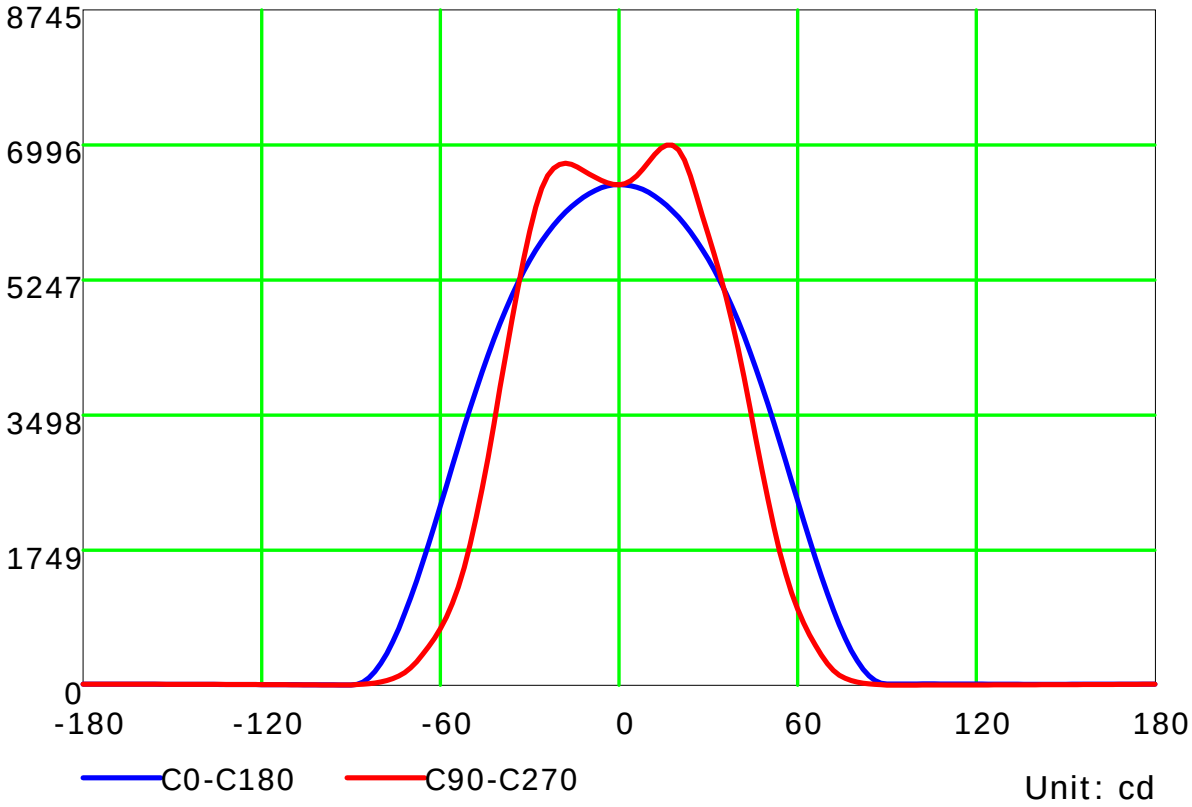


Unit: cd

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

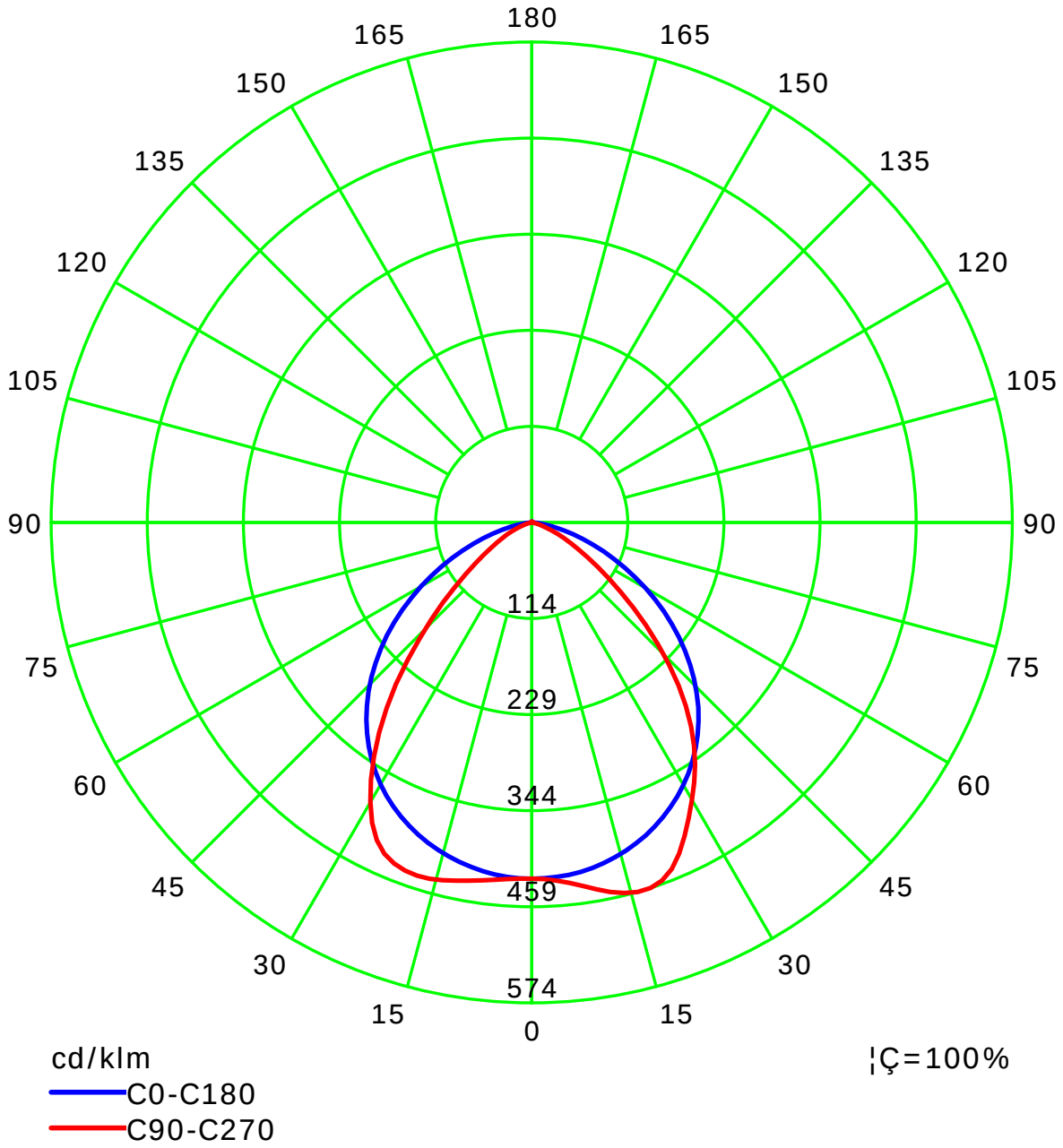




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



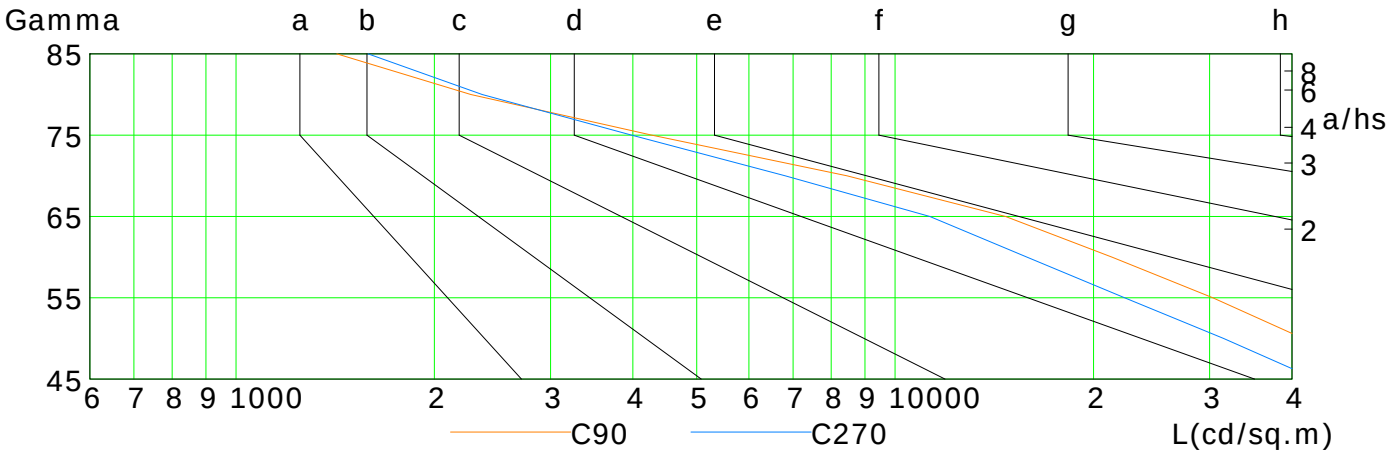
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

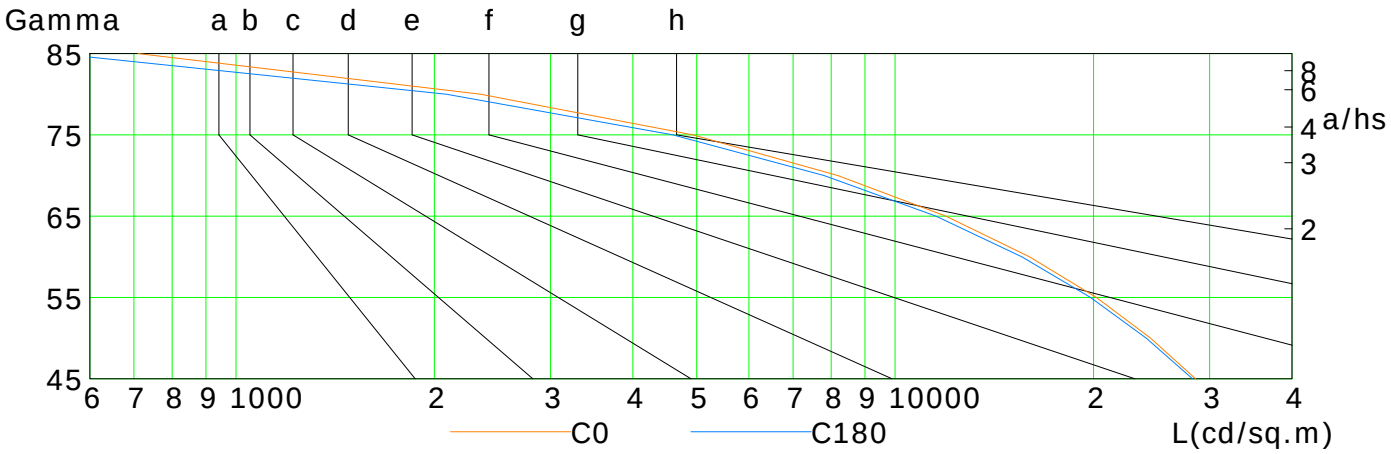
Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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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





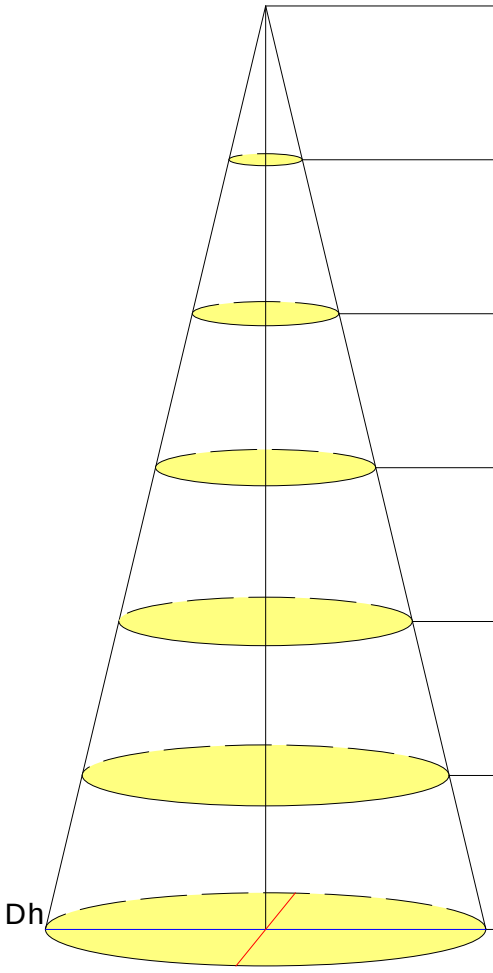
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	28564	24404	20199	15988	11945	8184	4932	2351	710
C90	53693	41642	30343	21333	14703	8452	4276	2272	1422
C180	28258	24046	19791	15564	11537	7798	4601	2086	535
C270	43456	31490	22294	15853	11288	6812	3984	2364	1587

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
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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	259.41	13.30/9.32	105.8	77.35
10.0	64.85	26.61/18.65	423.3	19.34
15.0	28.82	39.91/27.97	952.5	8.59
20.0	16.21	53.22/37.29	1693.3	4.83
25.0	10.38	66.52/46.62	2645.8	3.09
30.0	7.21	79.83/55.94	3810.0	2.15

Beam Angle(B): H106.1 V86.0 Field Angle(F): H150.6 V124.0

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:

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	23.4	24.6	23.7	24.8	25.1	22.2	23.4	22.5	23.6	23.9
3H	23.9	25.1	24.3	25.3	25.6	22.3	23.4	22.6	23.6	23.9
4H	24.1	25.1	24.4	25.4	25.7	22.2	23.3	22.6	23.6	23.9
6H	24.1	25.0	24.4	25.3	25.7	22.2	23.1	22.5	23.4	23.8
8H	24.0	25.0	24.4	25.3	25.6	22.1	23.1	22.5	23.4	23.7
12H	24.0	24.9	24.4	25.2	25.6	22.1	23.0	22.5	23.3	23.7
X=4H Y=2H	23.4	24.5	23.8	24.8	25.1	22.4	23.4	22.7	23.7	24.0
3H	24.1	25.0	24.5	25.3	25.7	22.5	23.4	22.9	23.7	24.1
4H	24.3	25.1	24.7	25.4	25.8	22.5	23.3	22.9	23.6	24.0
6H	24.3	25.0	24.8	25.4	25.8	22.4	23.1	22.9	23.5	23.9
8H	24.3	24.9	24.8	25.4	25.8	22.4	23.0	22.9	23.4	23.9
12H	24.3	24.9	24.7	25.3	25.7	22.4	22.9	22.8	23.4	23.8
X=8H Y=4H	24.2	24.8	24.7	25.2	25.7	22.5	23.1	22.9	23.5	23.9
6H	24.3	24.8	24.8	25.2	25.7	22.4	22.9	22.9	23.4	23.8
8H	24.3	24.7	24.8	25.2	25.7	22.4	22.8	22.9	23.3	23.8
12H	24.3	24.6	24.8	25.1	25.6	22.4	22.8	22.9	23.2	23.7
X=12H Y=4H	24.2	24.7	24.6	25.2	25.6	22.5	23.0	22.9	23.4	23.9
6H	24.3	24.7	24.7	25.2	25.6	22.4	22.8	22.9	23.3	23.8
8H	24.3	24.6	24.8	25.1	25.6	22.4	22.8	22.9	23.2	23.8
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.7					+0.7/-1.7				
S=1.5H	+0.8/-1.5					+2.1/-3.5				
S=2.0H	+1.9/-2.8					+3.7/-5.5				

Calculate in accordance with CIE Pub.117. The table is revised with 15232lm (8log(F/F0) = 9.5).

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	0.65	0.75	0.82	0.87	0.93	0.98	1.00	1.04	1.06
	0.30		0.58	0.69	0.76	0.81	0.88	0.93	0.96	1.01	1.04
	0.20		0.53	0.64	0.71	0.77	0.84	0.89	0.93	0.98	1.01
0.50	0.50	0.20	0.64	0.73	0.80	0.84	0.90	0.94	0.97	1.00	1.02
	0.30		0.58	0.68	0.75	0.79	0.86	0.90	0.93	0.97	1.00
	0.20		0.53	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98
0.30	0.50	0.20	0.62	0.72	0.78	0.82	0.87	0.91	0.93	0.96	0.98
	0.30		0.57	0.67	0.73	0.78	0.84	0.88	0.91	0.94	0.97
	0.20		0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95
0.00	0.00	0.00	0.51	0.60	0.67	0.71	0.78	0.82	0.84	0.88	0.90

Rating:113W 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 = 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	0.87	0.70	0.58	0.50	0.39	0.32	0.27	0.21	0.17
	0.30		0.72	0.60	0.51	0.44	0.36	0.30	0.25	0.20	0.16
	0.20		0.62	0.52	0.45	0.40	0.32	0.27	0.24	0.19	0.15
0.50	0.50	0.20	0.83	0.67	0.55	0.48	0.37	0.34	0.26	0.20	0.16
	0.30		0.70	0.58	0.49	0.43	0.34	0.28	0.24	0.19	0.15
	0.20		0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15
0.30	0.50	0.20	0.81	0.64	0.53	0.45	0.35	0.29	0.24	0.18	0.15
	0.30		0.69	0.56	0.47	0.41	0.33	0.27	0.23	0.18	0.14
	0.20		0.60	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14
0.00	0.00	0.00	0.49	0.39	0.33	0.28	0.22	0.18	0.15	0.12	0.10

Rating:113W 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	0.16	0.17	0.18	0.18	0.19	0.20	0.21	0.21	0.22
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	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	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Rating:113W 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: