OOO "FAROS"
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Report No.: Test Time: 26.06.2020 17:40

Luminaire Property

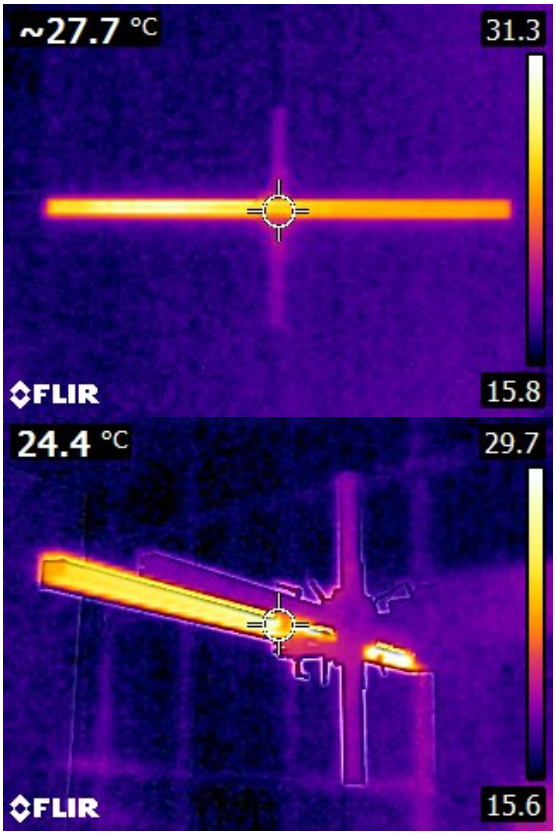
Luminaire Manufacturer:
Luminaire Description: FG 50 75W 5000K прозрачный 30 gr. IP65 ШИМ

Luminous Width (mm): 55
Luminous Length (mm): 1545
Luminous Height (mm): 80
Current: 0.347 A
Voltage: 221.7 V
Power: 74.97 W
Power Factor: 0.972

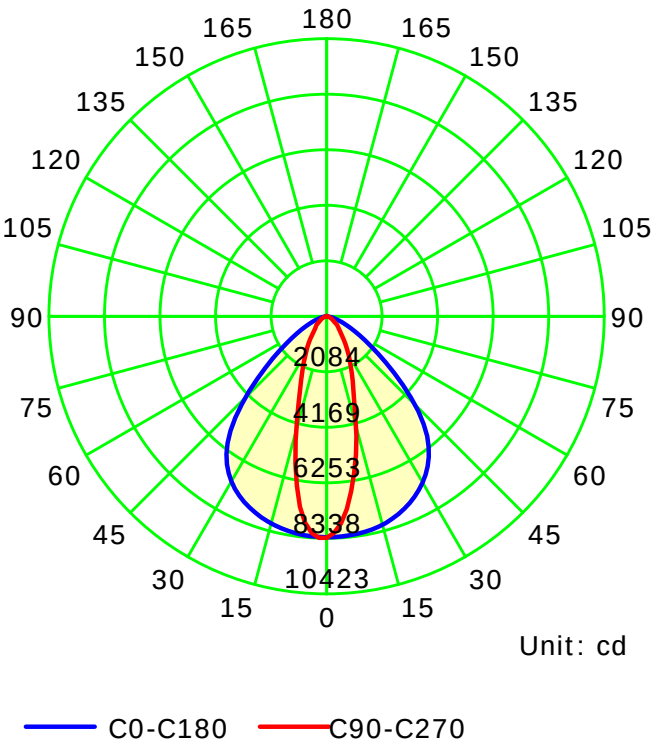
Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 8584.9 lm
Measurement Flux: 8584.9 lm
Efficiency: 100%
Downward Ratio: 99%
Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 130.8, 79.4, 97.3, 97.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 92.6, 31.0, 40.4, 40.8
Luminaire Efficacy Rating (LER): 114.56
Central Intensity: 8292.29 cd
Max. Intensity: 8338.58 cd
Pos of Max. Intensity: H337.5 V2
S/MH(C0/C180): 1.28
S/MH(C90/C270): 0.51

Termogramma



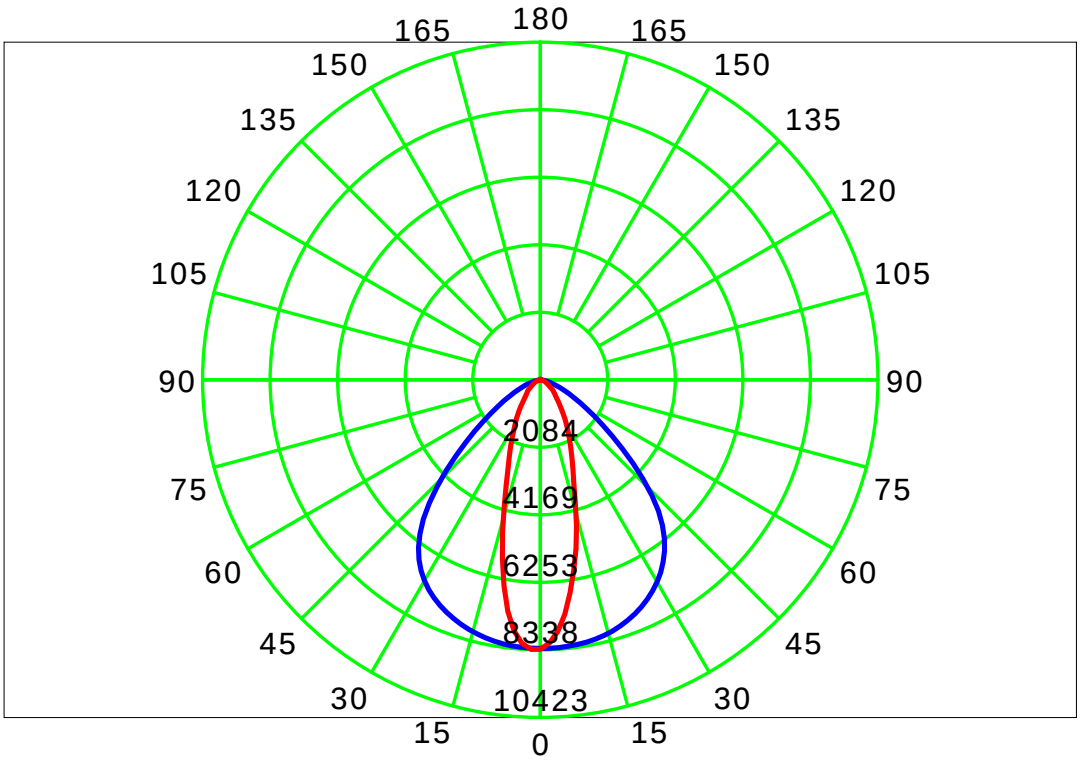
Luminous Intensity Distribution Curve

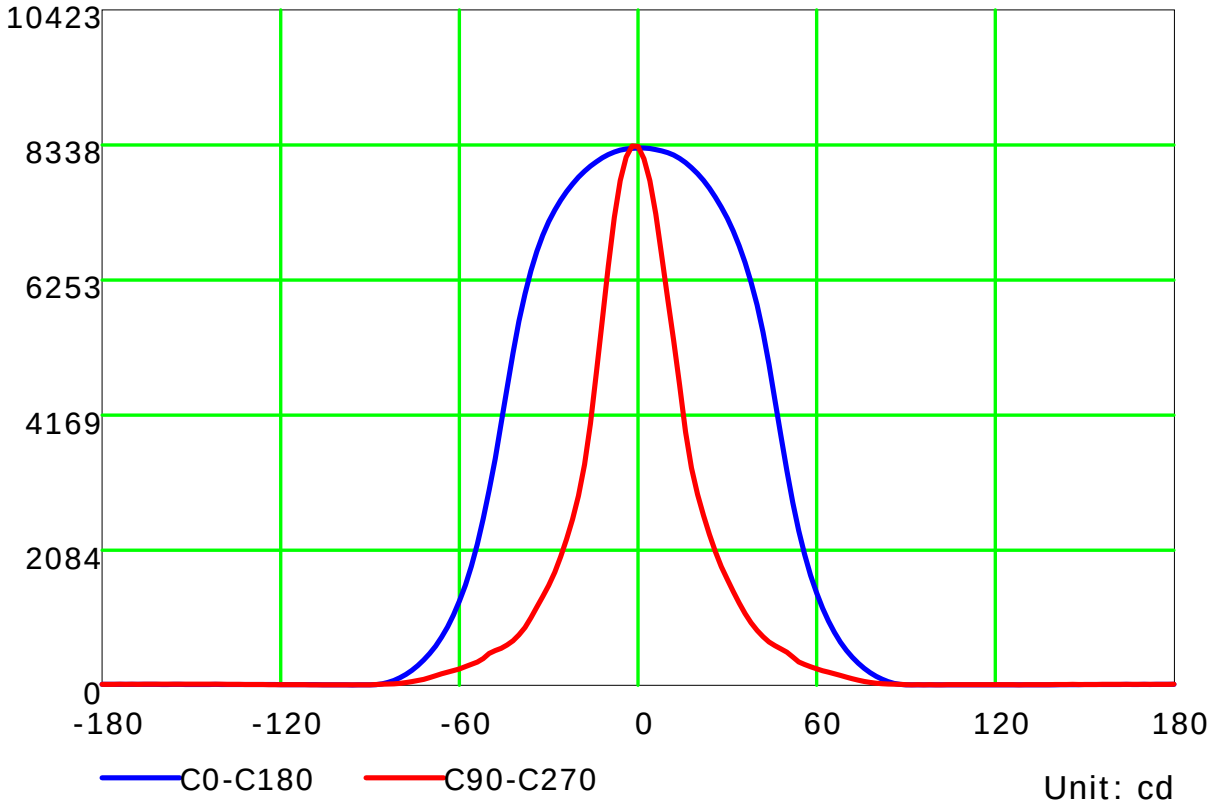


Unit: cd

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

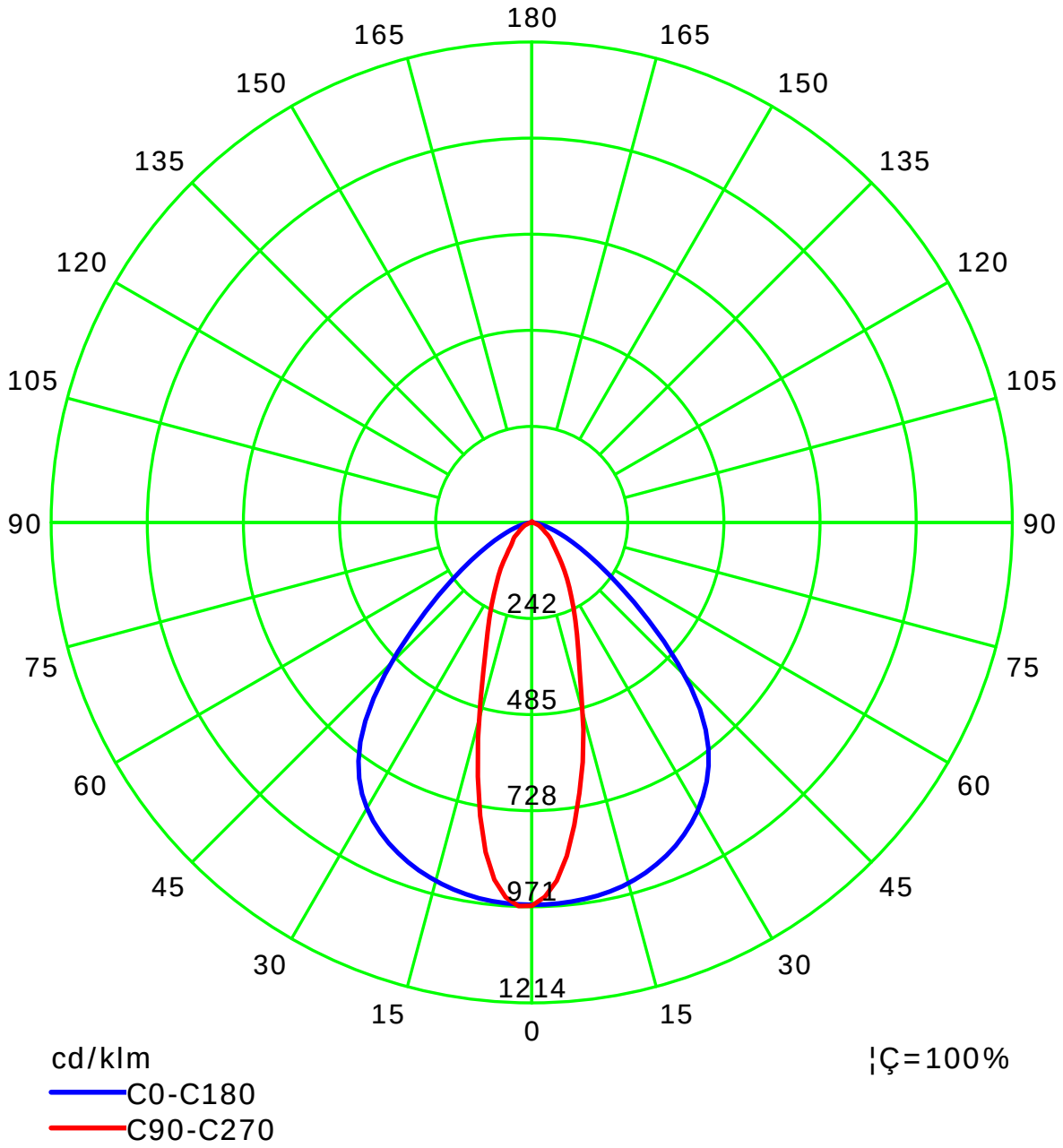




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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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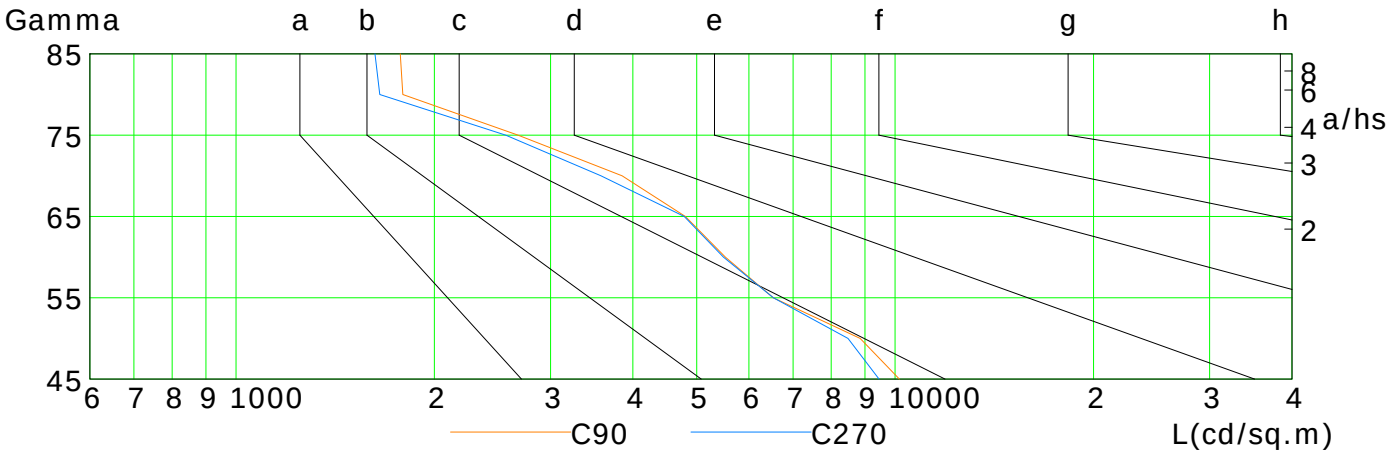
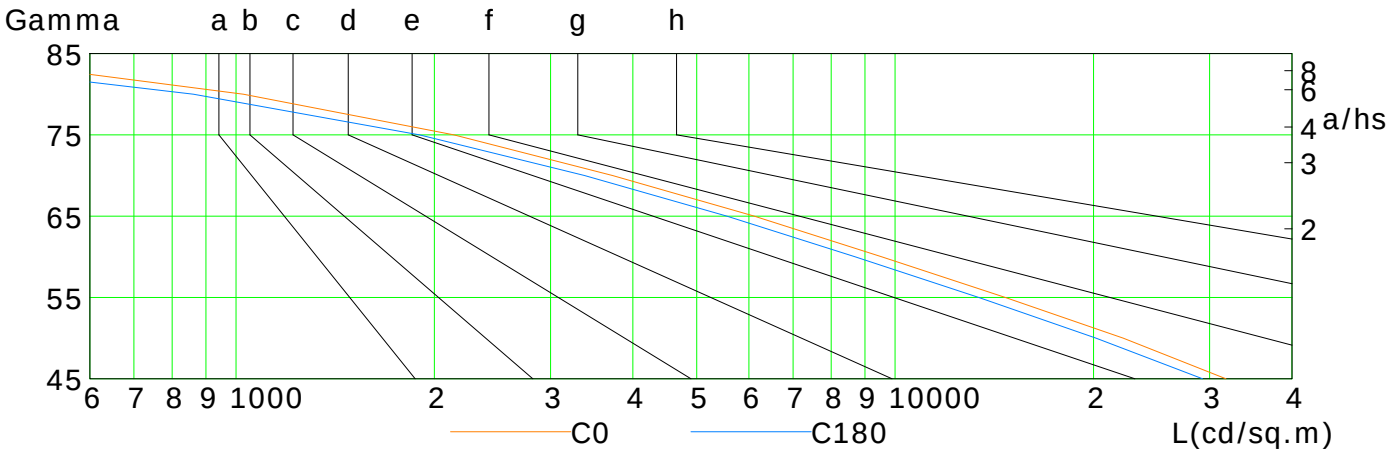
Lum Limit Curve

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	31757	22185	14696	9545	6114	3725	2141	1026	342
C90	10152	8850	6532	5526	4806	3854	2679	1791	1775
C180	29269	20168	13394	8700	5558	3378	1898	862	257
C270	9452	8484	6535	5488	4787	3578	2567	1652	1625

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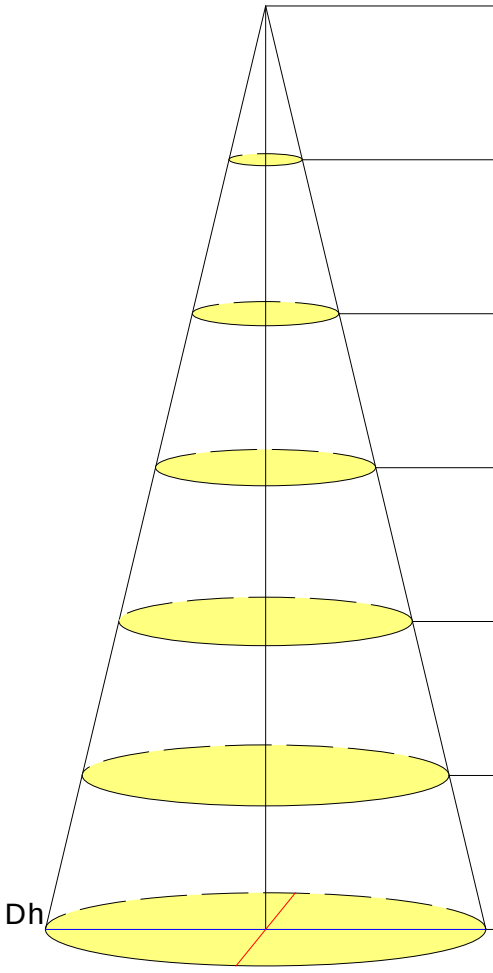
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	331.69	10.46/2.77	21.3	168.42
10.0	82.92	20.92/5.55	85.2	42.10
15.0	36.85	31.39/8.32	191.7	18.71
20.0	20.73	41.85/11.09	340.7	10.53
25.0	13.27	52.31/13.87	532.4	6.74
30.0	9.21	62.77/16.64	766.7	4.68

Beam Angle(B): H92.6 V31.0 Field Angle(F): H130.8 V79.4

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:

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	21.6	22.7	21.9	22.9	23.1	14.6	15.6	14.9	15.9	16.1
3H	22.0	22.9	22.3	23.2	23.5	15.0	16.0	15.4	16.3	16.6
4H	22.0	22.9	22.3	23.2	23.5	15.1	16.1	15.5	16.3	16.6
6H	22.0	22.8	22.3	23.1	23.5	15.2	16.0	15.5	16.3	16.7
8H	22.0	22.8	22.3	23.1	23.4	15.2	16.0	15.5	16.3	16.6
12H	21.9	22.7	22.3	23.0	23.4	15.1	15.9	15.5	16.3	16.6
X=4H Y=2H	21.4	22.4	21.8	22.7	22.9	15.1	16.0	15.5	16.3	16.6
3H	21.9	22.7	22.3	23.0	23.4	15.6	16.4	16.0	16.7	17.1
4H	22.0	22.7	22.4	23.1	23.4	15.7	16.4	16.2	16.8	17.2
6H	22.0	22.6	22.4	23.0	23.4	15.8	16.4	16.2	16.8	17.2
8H	22.0	22.6	22.4	23.0	23.4	15.8	16.3	16.2	16.8	17.2
12H	22.0	22.5	22.4	22.9	23.3	15.8	16.3	16.2	16.7	17.2
X=8H Y=4H	21.9	22.5	22.4	22.9	23.3	15.8	16.4	16.3	16.8	17.2
6H	21.9	22.4	22.4	22.8	23.3	15.9	16.3	16.4	16.8	17.3
8H	21.9	22.3	22.4	22.8	23.3	15.9	16.3	16.4	16.8	17.3
12H	21.9	22.2	22.4	22.7	23.2	15.9	16.3	16.4	16.7	17.3
X=12H Y=4H	21.9	22.4	22.3	22.8	23.3	15.8	16.3	16.3	16.8	17.2
6H	21.9	22.3	22.4	22.8	23.3	15.9	16.3	16.4	16.7	17.2
8H	21.9	22.2	22.4	22.7	23.2	15.9	16.2	16.4	16.7	17.2
Variations with the observer position at spacings:										
S=1.0H	+1.3/-1.1					+1.0/-1.3				
S=1.5H	+3.2/-2.3					+1.9/-2.4				
S=2.0H	+4.9/-3.7					+2.8/-3.5				

Calculate in accordance with CIE Pub.117. The table is revised with 8585lm (8log(F/F0) = 7.5).

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 = 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	0.85	0.89	0.95	0.99	1.02	1.05	1.07
	0.30		0.63	0.72	0.79	0.84	0.90	0.95	0.98	1.02	1.05
	0.20		0.58	0.68	0.74	0.79	0.86	0.91	0.95	0.99	1.02
0.50	0.50	0.20	0.68	0.76	0.82	0.86	0.92	0.95	0.98	1.01	1.03
	0.30		0.62	0.71	0.77	0.82	0.88	0.92	0.95	0.99	1.01
	0.20		0.58	0.67	0.73	0.78	0.85	0.89	0.92	0.96	0.99
0.30	0.50	0.20	0.66	0.75	0.80	0.84	0.89	0.92	0.95	0.97	0.99
	0.30		0.61	0.70	0.76	0.80	0.86	0.89	0.92	0.95	0.97
	0.20		0.58	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.96
0.00	0.00	0.00	0.56	0.64	0.70	0.74	0.79	0.83	0.86	0.89	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	0.55	0.48	0.37	0.31	0.26	0.20	0.16
	0.30		0.67	0.56	0.48	0.42	0.34	0.28	0.24	0.19	0.15
	0.20		0.58	0.49	0.43	0.38	0.31	0.26	0.22	0.18	0.15
0.50	0.50	0.20	0.78	0.63	0.52	0.45	0.35	0.33	0.24	0.19	0.15
	0.30		0.66	0.54	0.46	0.40	0.32	0.27	0.23	0.18	0.15
	0.20		0.57	0.48	0.41	0.37	0.30	0.25	0.21	0.17	0.14
0.30	0.50	0.20	0.75	0.60	0.50	0.43	0.33	0.27	0.23	0.17	0.14
	0.30		0.64	0.53	0.45	0.39	0.31	0.25	0.22	0.17	0.14
	0.20		0.56	0.47	0.40	0.35	0.29	0.24	0.20	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

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(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	0.20	0.21	0.22	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
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.19
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
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		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17
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
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