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www.farosled.ru
Tel: +7 (8422) 583-386, 583-387
E-mail: info@farosled.ru

Report No.: Test Time: 06.08.2020 10:05

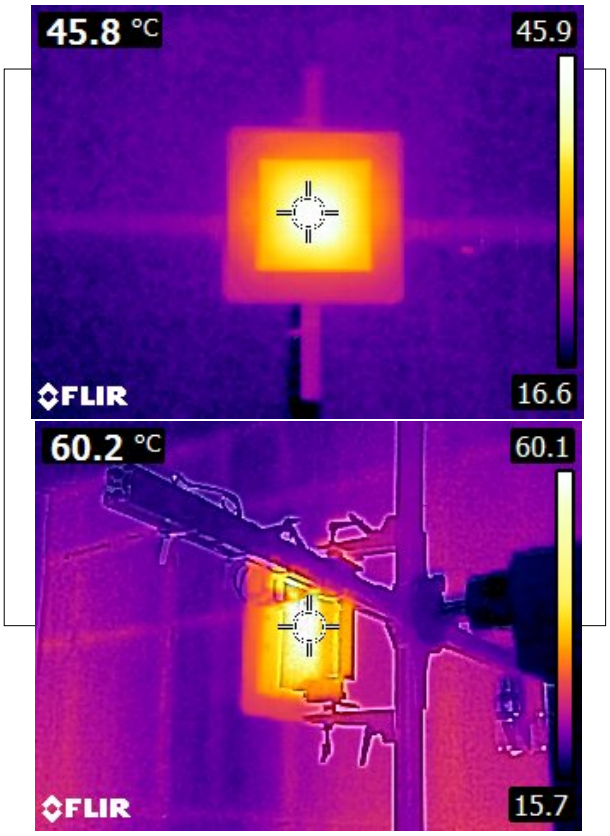
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FI 350 100W IP65 zacalenoe matovoe steclo
Luminous Length (mm): 350 Luminous Width (mm): 350
Luminous Height (mm): 100 Voltage: 220.8 V
Current: 0.452 A Power: 98.94 W
Power Factor: 0.990

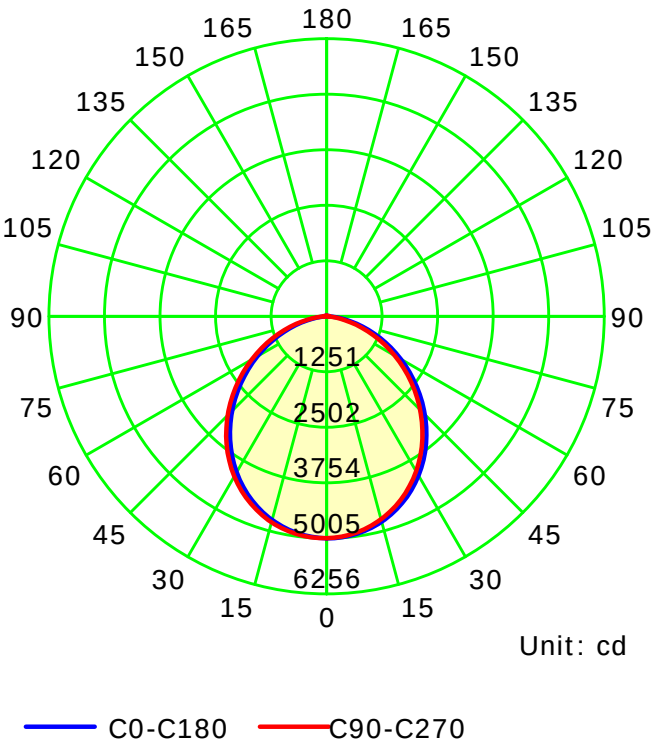
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 13179.6 lm
Measurement Flux: 13179.6 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.3, 155.9, 156.5, 156.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 104.4, 104.4, 104.6, 104.7
Luminaire Efficacy Rating (LER): 133.26 Central Intensity: 5003.37 cd
Max. Intensity: 5005.48 cd Pos of Max. Intensity: H157.5 V0
S/MH(C0/C180): 1.22 S/MH(C90/C270): 1.22

Termogramma

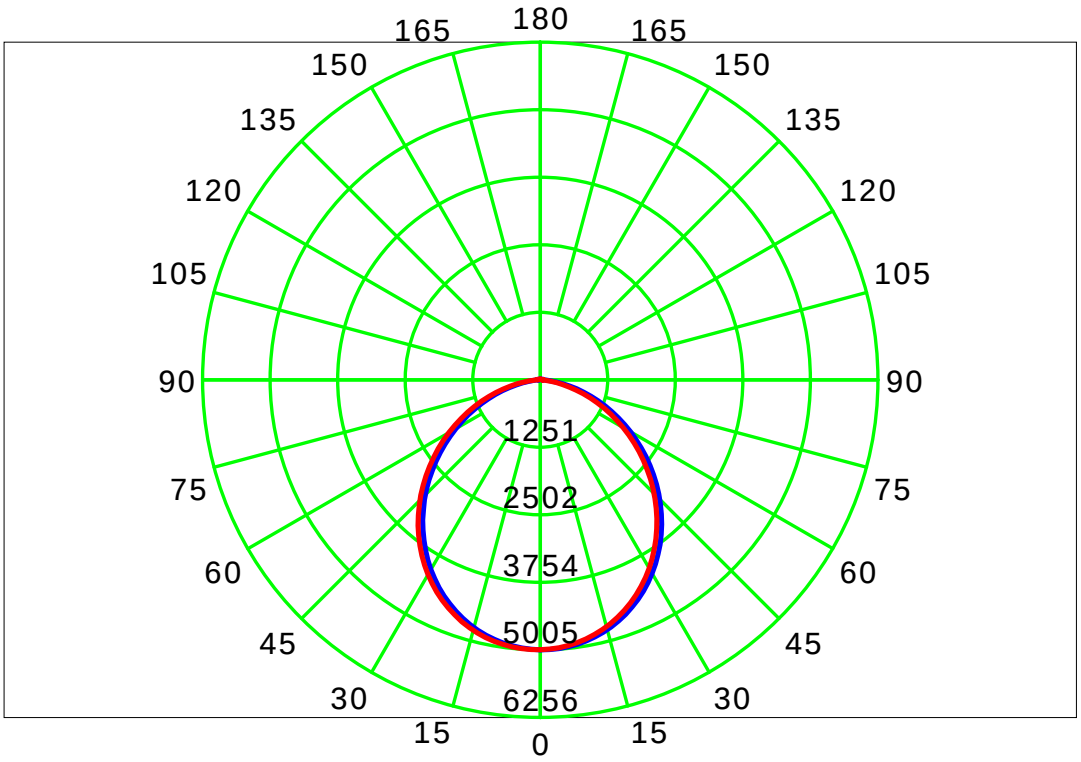


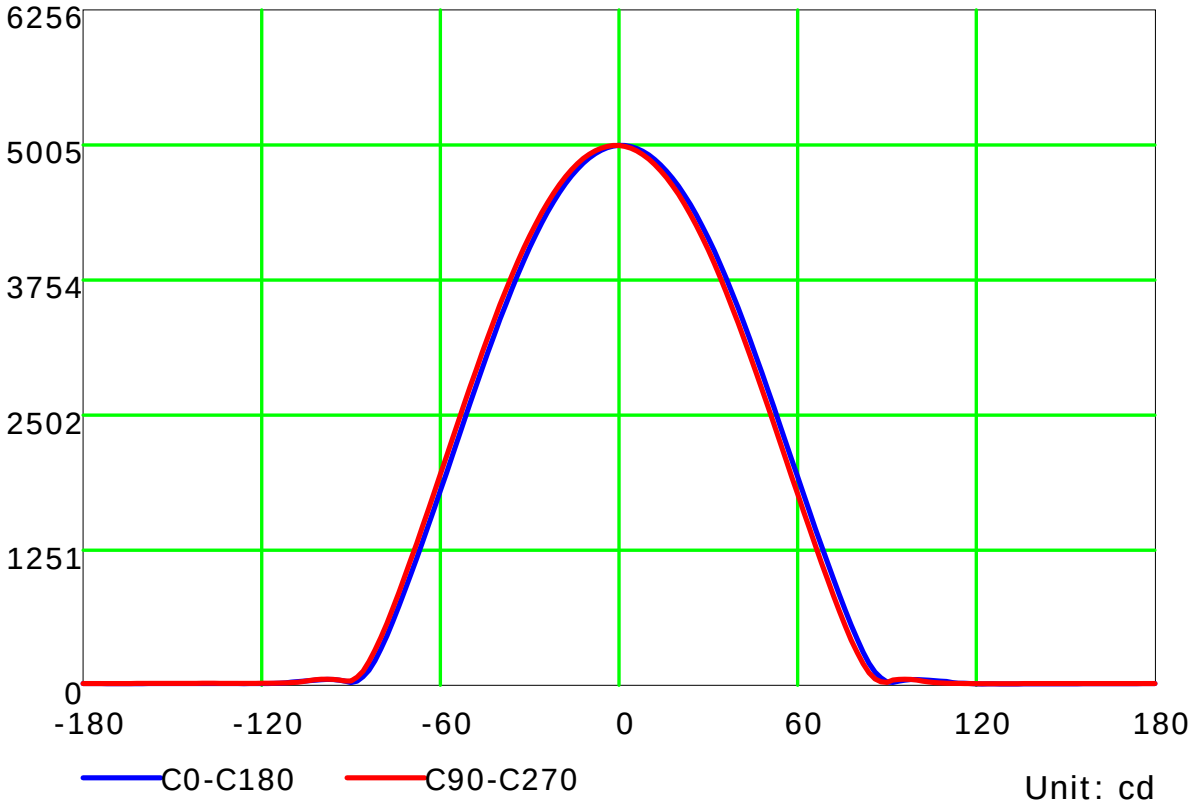
Luminous Intensity Distribution Curve



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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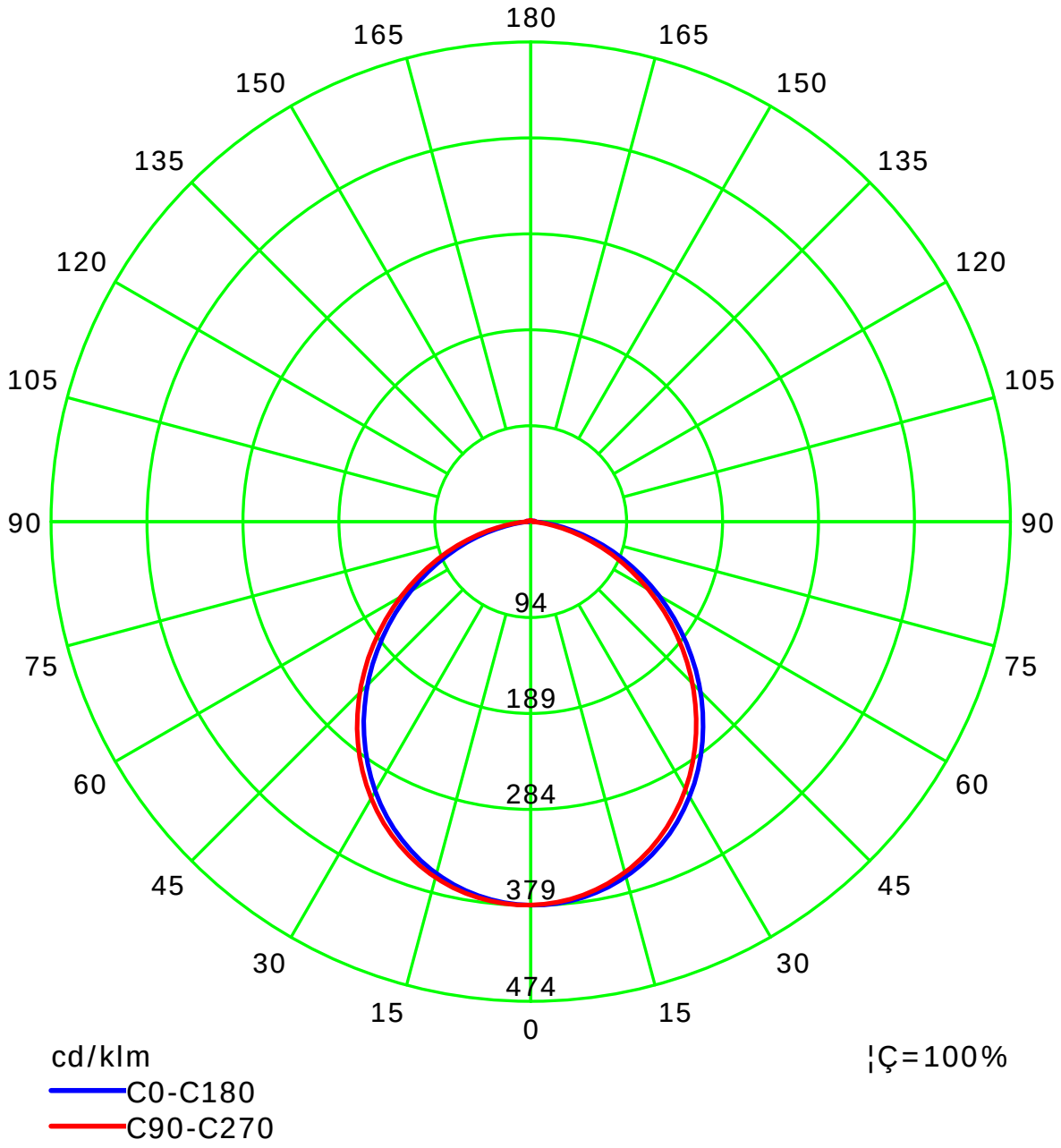
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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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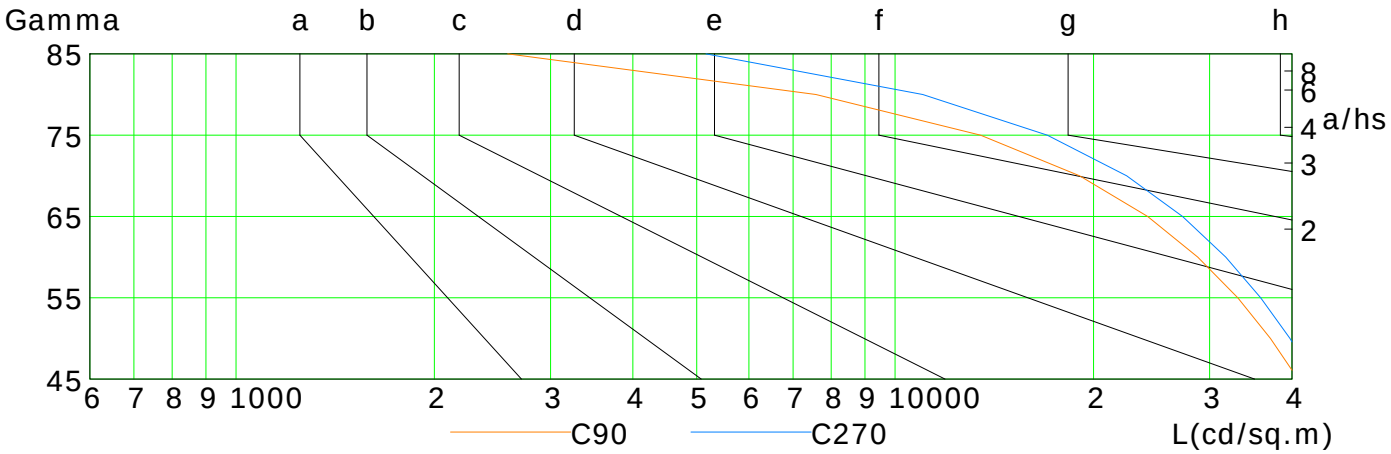
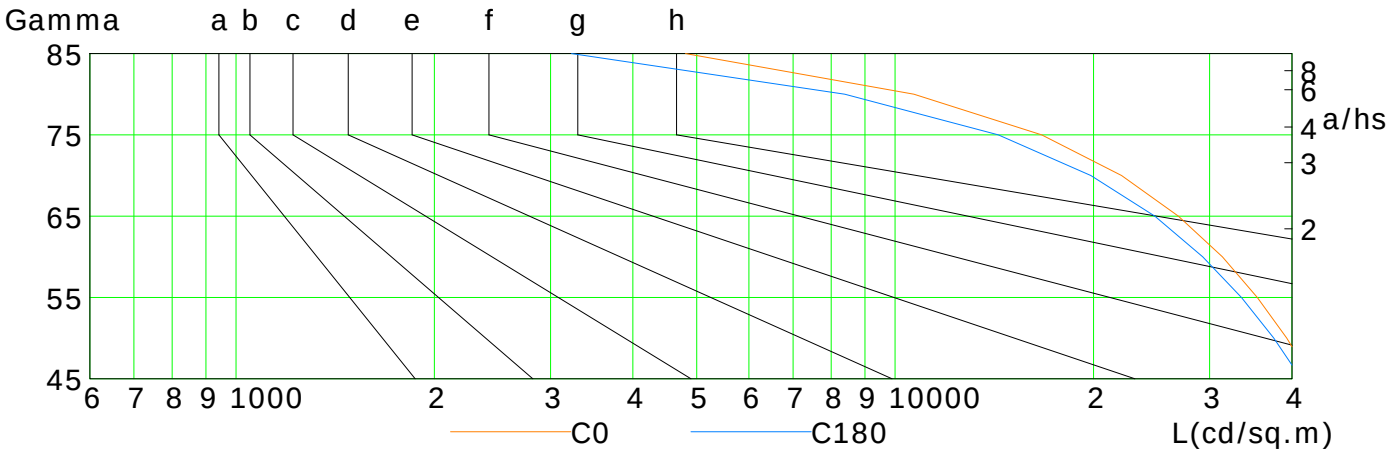
Lum Limit Curve

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	42895	39279	35433	31369	26899	22055	16682	10677	4808
C90	40881	37104	33098	28780	24156	19053	13475	7586	2583
C180	41321	37545	33538	29291	24772	19814	14341	8386	3229
C270	43283	39716	35859	31746	27299	22451	17016	11015	5165

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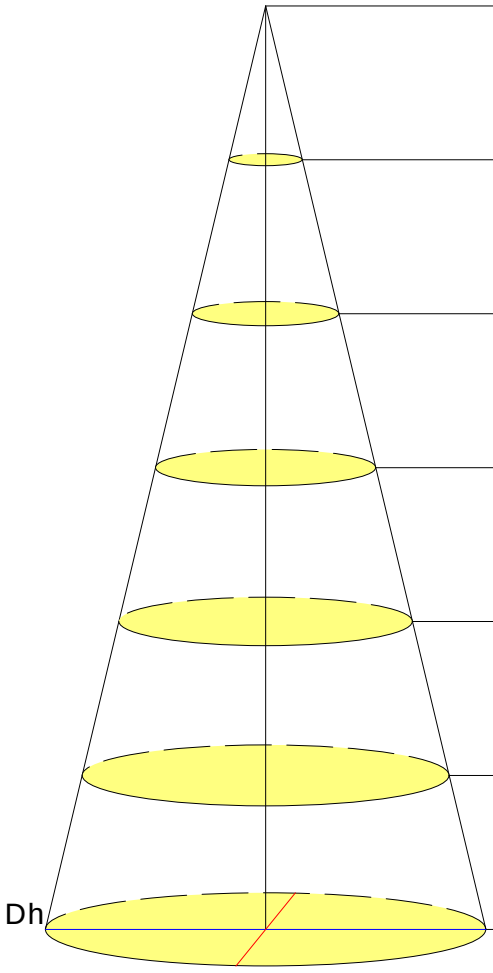
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	200.13	12.89/12.88	131.3	48.66
10.0	50.03	25.78/25.76	525.3	12.17
15.0	22.24	38.66/38.64	1182.0	5.41
20.0	12.51	51.55/51.53	2101.4	3.04
25.0	8.01	64.44/64.41	3283.4	1.95
30.0	5.56	77.33/77.29	4728.1	1.35

Beam Angle(B): H104.4 V104.4 Field Angle(F): H156.3 V155.9

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	24.6	26.0	24.9	26.2	26.5	24.5	25.8	24.8	26.1	26.4
3H	25.7	27.0	26.1	27.2	27.5	25.6	26.8	25.9	27.1	27.4
4H	26.1	27.3	26.5	27.6	27.9	25.9	27.1	26.3	27.4	27.7
6H	26.3	27.4	26.7	27.7	28.1	26.1	27.1	26.5	27.5	27.8
8H	26.3	27.4	26.7	27.7	28.1	26.1	27.1	26.5	27.5	27.8
12H	26.3	27.3	26.7	27.7	28.0	26.1	27.1	26.5	27.4	27.8
X=4H Y=2H	25.1	26.2	25.4	26.5	26.9	25.0	26.1	25.4	26.4	26.8
3H	26.4	27.3	26.8	27.7	28.1	26.2	27.2	26.6	27.6	27.9
4H	26.8	27.7	27.2	28.1	28.5	26.6	27.5	27.1	27.9	28.3
6H	27.1	27.9	27.5	28.3	28.7	26.9	27.7	27.3	28.1	28.5
8H	27.1	27.9	27.6	28.3	28.7	26.9	27.6	27.4	28.1	28.5
12H	27.2	27.8	27.6	28.2	28.7	26.9	27.6	27.4	28.0	28.5
X=8H Y=4H	26.9	27.7	27.4	28.1	28.5	26.8	27.5	27.2	27.9	28.4
6H	27.3	27.9	27.8	28.3	28.8	27.1	27.7	27.6	28.1	28.6
8H	27.4	27.9	27.9	28.4	28.9	27.2	27.7	27.7	28.2	28.7
12H	27.4	27.9	27.9	28.3	28.9	27.2	27.6	27.7	28.1	28.7
X=12H Y=4H	26.9	27.6	27.4	28.0	28.5	26.8	27.4	27.2	27.9	28.3
6H	27.3	27.8	27.8	28.3	28.8	27.1	27.6	27.6	28.1	28.6
8H	27.4	27.8	27.9	28.3	28.9	27.2	27.6	27.7	28.1	28.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.6					+0.4/-0.6				
S=2.0H	+0.8/-1.2					+0.9/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 13180lm (8log(F/F0) = 9.0).

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 = 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	0.58	0.69	0.76	0.81	0.88	0.93	0.97	1.01	1.04
	0.30		0.51	0.61	0.69	0.74	0.82	0.88	0.92	0.97	1.00
	0.20		0.45	0.56	0.63	0.69	0.77	0.83	0.88	0.94	0.97
0.50	0.50	0.20	0.57	0.66	0.73	0.78	0.85	0.89	0.93	0.97	0.99
	0.30		0.50	0.60	0.67	0.72	0.80	0.85	0.89	0.93	0.97
	0.20		0.45	0.55	0.62	0.68	0.76	0.81	0.85	0.91	0.94
0.30	0.50	0.20	0.55	0.64	0.71	0.76	0.82	0.86	0.89	0.93	0.95
	0.30		0.49	0.59	0.66	0.71	0.78	0.82	0.86	0.90	0.93
	0.20		0.44	0.54	0.61	0.67	0.74	0.79	0.83	0.88	0.91
0.00	0.00	0.00	0.42	0.52	0.58	0.63	0.70	0.75	0.79	0.83	0.86

Rating:99W 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	0.97	0.79	0.67	0.58	0.46	0.38	0.33	0.25	0.21
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20
	0.20		0.69	0.59	0.52	0.46	0.38	0.33	0.28	0.22	0.19
0.50	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.40	0.31	0.24	0.19
	0.30		0.79	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.22	0.18
0.30	0.50	0.20	0.90	0.73	0.62	0.53	0.42	0.35	0.30	0.23	0.19
	0.30		0.77	0.64	0.55	0.48	0.39	0.32	0.28	0.22	0.18
	0.20		0.67	0.57	0.50	0.44	0.36	0.30	0.26	0.21	0.17
0.00	0.00	0.00	0.57	0.47	0.40	0.35	0.28	0.24	0.20	0.16	0.13

Rating:99W 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 = 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	0.17	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21
	0.20		0.06	0.08	0.09	0.10	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	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	0.13	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:99W 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:
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