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

Report No.: 1 Test Time: 13.12.2017 09:52

Luminaire Property

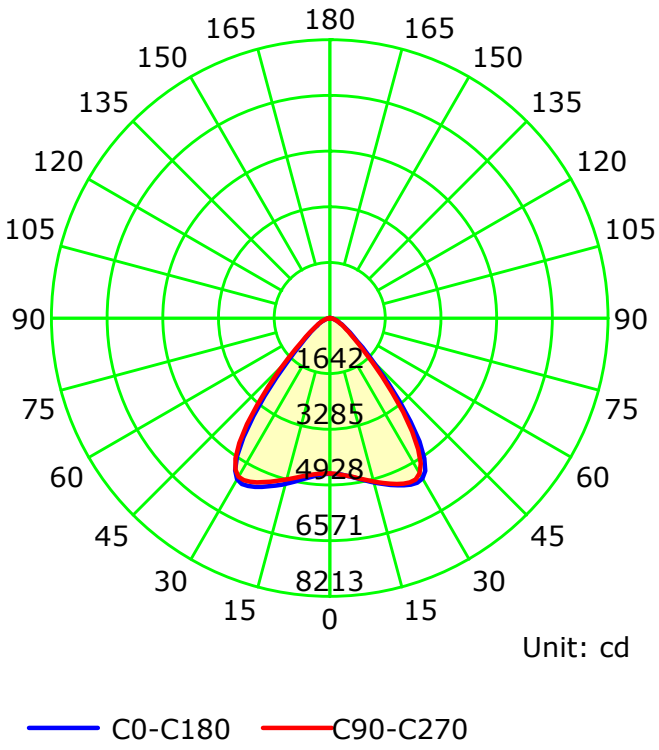
Luminaire Manufacturer: FAROS
Luminaire Description: FP 150 100W 5000K 90x90gr. NEMA
Number of Lamps: 1 Luminous Length (mm): 596
Luminous Width (mm): 153 Luminous Height (mm): 80
Voltage: 231.5 V Current: 0.416 A
Power: 93.57 W Power Factor: 0.970

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 11216.8 lm
Measurement Flux: 11216.8 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.5, 115.3, 124.5, 124.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 82.1, 82.6, 90.5, 90.5
Luminaire Efficacy Rating (LER): 119.93 Central Intensity: 4594.21 cd
Max. Intensity: 6571.03 cd Pos of Max. Intensity: H225 V34
S/MH(C0/C180): 1.46 S/MH(C90/C270): 1.46

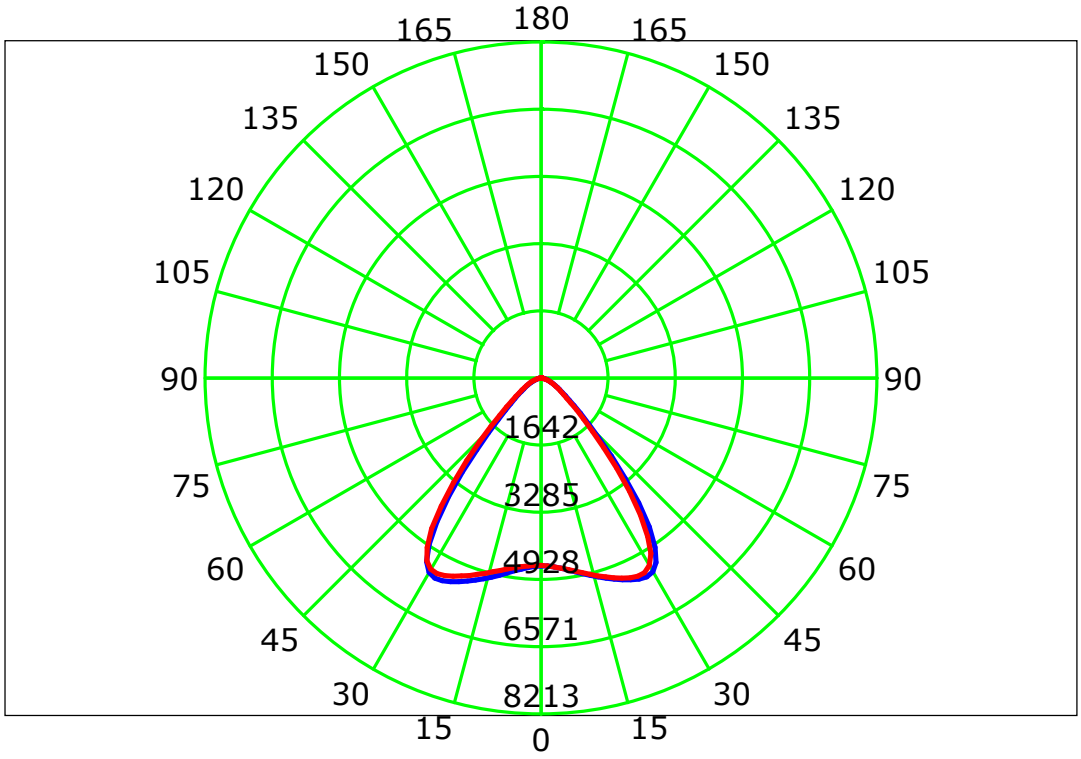
Picture Of Luminaire

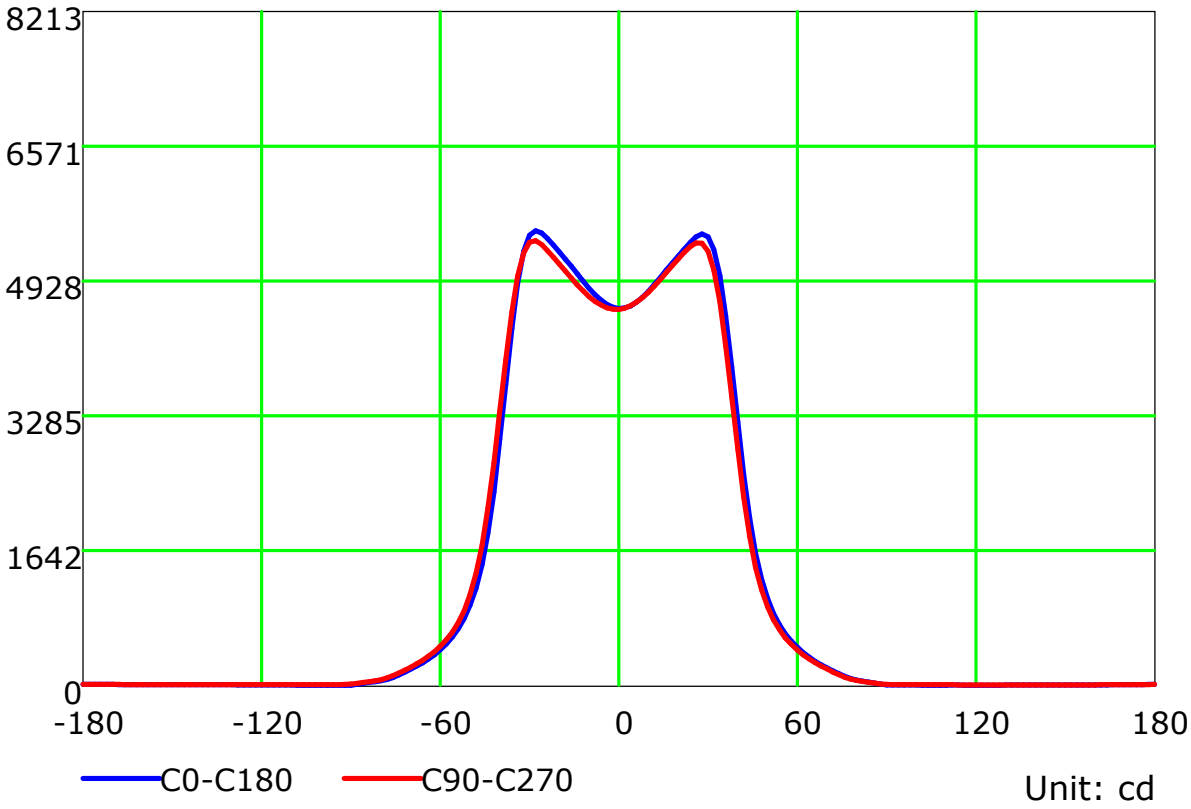
Luminous Intensity Distribution Curve



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: 12.606 m
Temperature: Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve

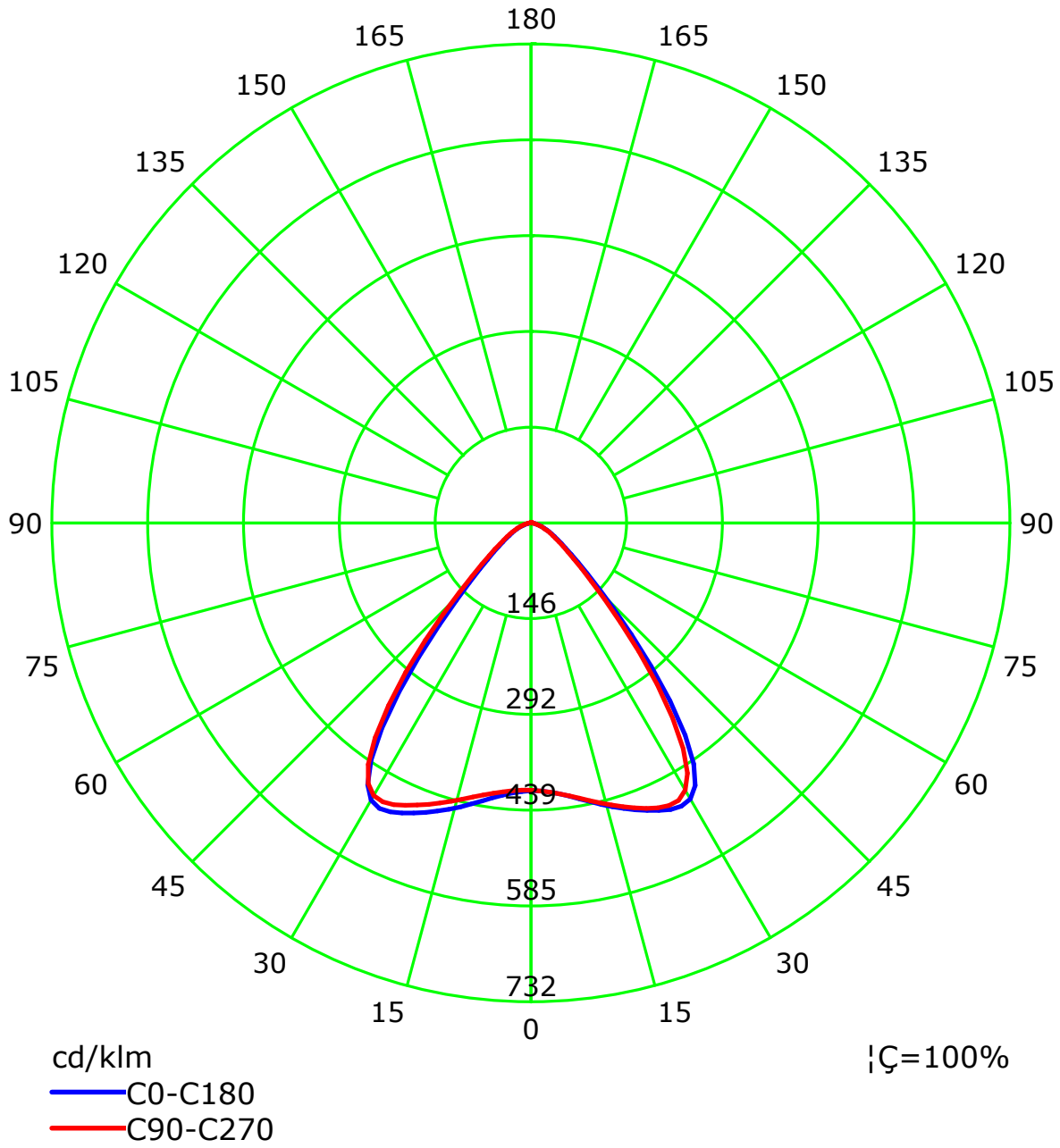




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.606 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



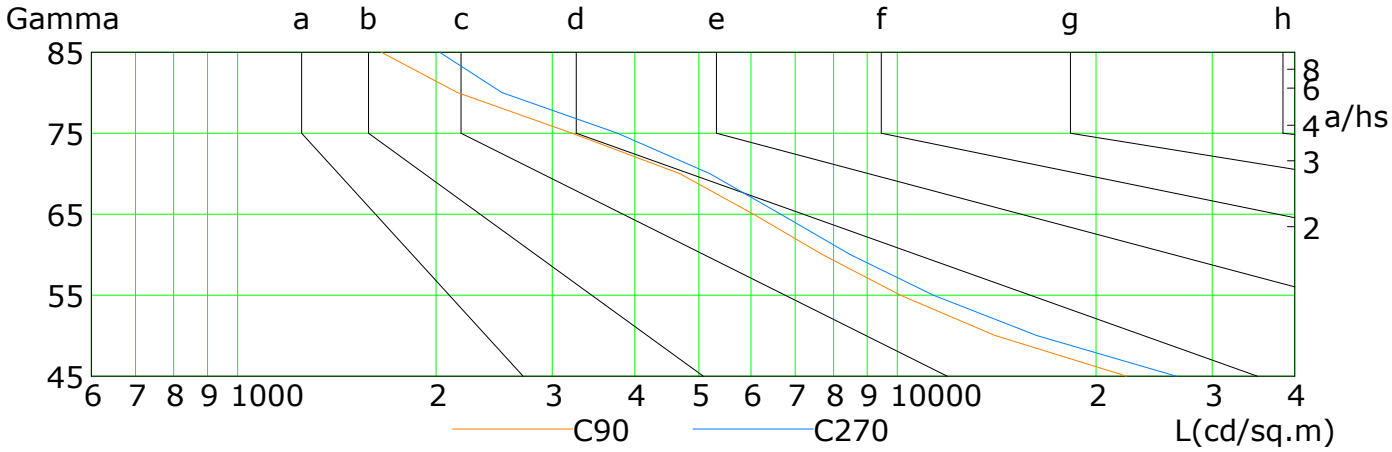
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

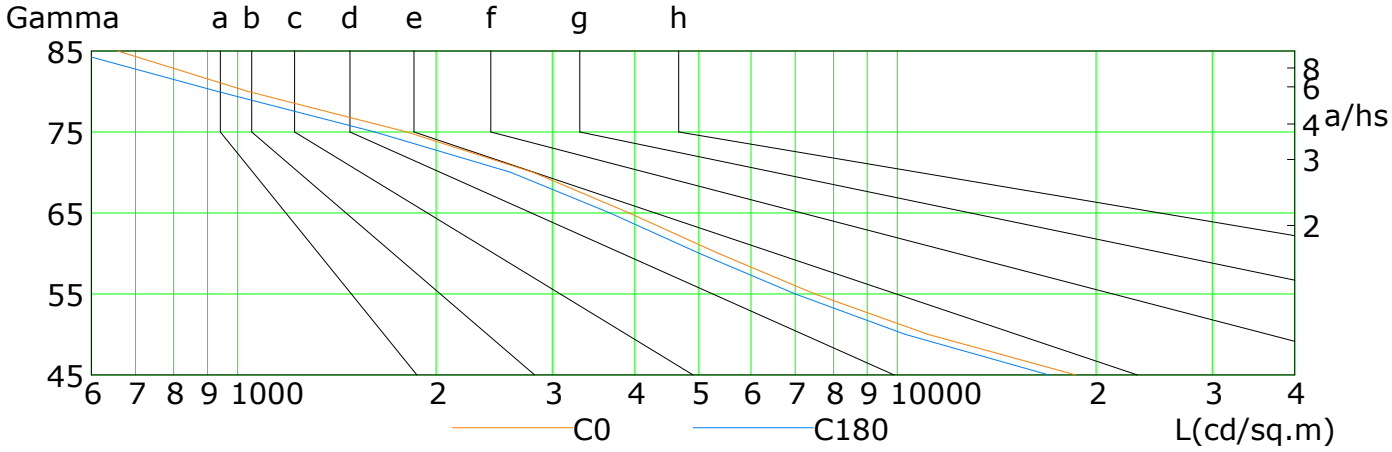
Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.606 m
Humidity:
Inspector:

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

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



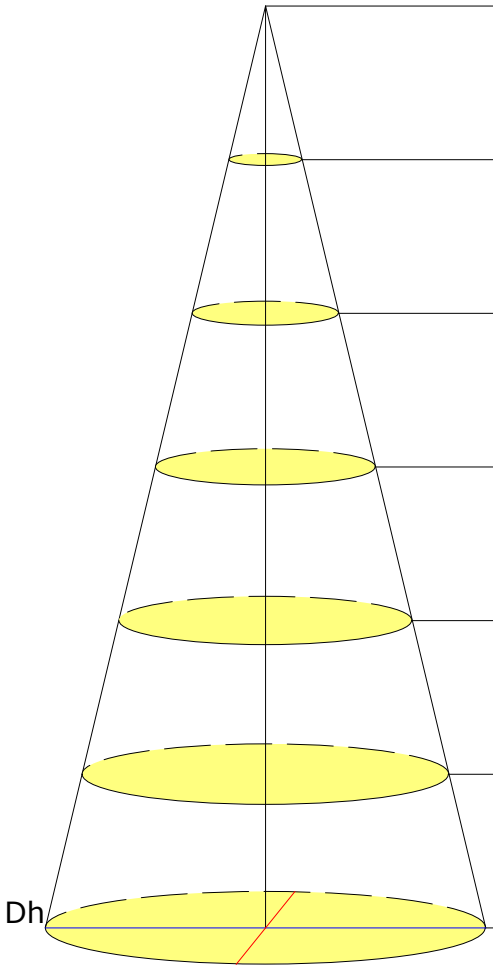


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	18617	11117	7495	5348	3921	2804	1804	1036	658
C90	22272	14067	10106	7696	6056	4677	3215	2154	1652
C180	16957	10269	7000	5008	3664	2592	1613	931	556
C270	26484	16265	11339	8487	6657	5193	3768	2515	2023

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: 12.606 m
Humidity:
Inspector:

Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	183.77	8.71/8.78	69.1	91.91
10.0	45.94	17.41/17.57	276.3	22.98
15.0	20.42	26.12/26.35	621.6	10.21
20.0	11.49	34.83/35.14	1105.1	5.74
25.0	7.35	43.53/43.92	1726.6	3.68
30.0	5.10	52.24/52.71	2486.4	2.55

Beam Angle(B): H82.1 V82.6 Field Angle(F): H114.5 V115.3

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: 12.606 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	20.9	22.0	21.2	22.3	22.5	21.3	22.4	21.6	22.7	22.9
3H	20.9	21.9	21.2	22.2	22.5	21.4	22.4	21.7	22.7	22.9
4H	20.9	21.9	21.2	22.1	22.4	21.4	22.3	21.7	22.6	22.9
6H	20.9	21.7	21.2	22.0	22.4	21.4	22.2	21.7	22.5	22.9
8H	20.8	21.7	21.2	22.0	22.3	21.3	22.2	21.7	22.5	22.8
12H	20.8	21.6	21.2	21.9	22.3	21.3	22.1	21.7	22.4	22.8
X=4H Y=2H	21.0	21.9	21.3	22.2	22.5	21.3	22.3	21.7	22.6	22.9
3H	21.1	21.9	21.5	22.2	22.6	21.5	22.3	21.9	22.6	23.0
4H	21.1	21.8	21.5	22.2	22.5	21.6	22.3	22.0	22.6	23.0
6H	21.1	21.7	21.5	22.1	22.5	21.6	22.2	22.0	22.6	23.0
8H	21.1	21.6	21.5	22.0	22.5	21.6	22.1	22.0	22.5	23.0
12H	21.0	21.6	21.5	22.0	22.4	21.5	22.1	22.0	22.5	22.9
X=8H Y=4H	21.1	21.7	21.5	22.1	22.5	21.5	22.1	22.0	22.5	23.0
6H	21.1	21.6	21.6	22.0	22.5	21.6	22.1	22.1	22.5	23.0
8H	21.1	21.5	21.6	22.0	22.5	21.6	22.0	22.1	22.5	22.9
12H	21.1	21.4	21.6	21.9	22.4	21.6	21.9	22.1	22.4	22.9
X=12H Y=4H	21.1	21.6	21.5	22.0	22.5	21.5	22.0	22.0	22.5	22.9
6H	21.1	21.5	21.6	22.0	22.5	21.6	22.0	22.1	22.4	22.9
8H	21.1	21.4	21.6	21.9	22.4	21.6	21.9	22.1	22.4	22.9
Variations with the observer position at spacings:										
S=1.0H	+2.6/-3.1					+2.2/-2.8				
S=1.5H	+3.5/-4.4					+3.1/-4.0				
S=2.0H	+5.2/-5.5					+4.8/-5.0				

Calculate in accordance with CIE Pub.117. The table is revised with 11217lm (8log(F/F0) = 8.4).

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: 12.606 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	0.72	0.81	0.87	0.91	0.97	1.00	1.03	1.06	1.08
	0.30		0.66	0.76	0.82	0.86	0.92	0.96	0.99	1.03	1.05
	0.20		0.62	0.71	0.78	0.82	0.89	0.93	0.96	1.00	1.03
0.50	0.50	0.20	0.71	0.79	0.85	0.89	0.94	0.97	0.99	1.02	1.04
	0.30		0.65	0.74	0.80	0.85	0.90	0.94	0.96	1.00	1.02
	0.20		0.61	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00
0.30	0.50	0.20	0.69	0.78	0.83	0.86	0.91	0.94	0.96	0.98	1.00
	0.30		0.65	0.73	0.79	0.83	0.88	0.91	0.93	0.96	0.98
	0.20		0.61	0.70	0.76	0.80	0.85	0.89	0.91	0.95	0.97
0.00	0.00	0.00	0.59	0.68	0.73	0.77	0.82	0.85	0.88	0.90	0.92

Rating:94W 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: 12.606 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	0.76	0.61	0.51	0.44	0.34	0.28	0.24	0.18	0.15
	0.30		0.63	0.52	0.44	0.39	0.31	0.26	0.22	0.17	0.14
	0.20		0.54	0.45	0.39	0.35	0.28	0.24	0.21	0.16	0.14
0.50	0.50	0.20	0.73	0.58	0.48	0.41	0.32	0.30	0.22	0.17	0.14
	0.30		0.62	0.50	0.42	0.37	0.29	0.24	0.21	0.16	0.13
	0.20		0.53	0.44	0.38	0.33	0.27	0.23	0.20	0.15	0.13
0.30	0.50	0.20	0.70	0.55	0.46	0.39	0.30	0.25	0.21	0.16	0.13
	0.30		0.60	0.49	0.41	0.35	0.28	0.23	0.20	0.15	0.12
	0.20		0.53	0.43	0.37	0.32	0.26	0.22	0.19	0.15	0.12
0.00	0.00	0.00	0.41	0.32	0.26	0.23	0.18	0.14	0.12	0.09	0.08

Rating:94W 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: 12.606 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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21
	0.30		0.09	0.11	0.12	0.13	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
0.30	0.50	0.20	0.14	0.15	0.16	0.16	0.18	0.18	0.19	0.19	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	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:94W 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: 12.606 m
Humidity:
Inspector: