

Report No.: 6

Test Time: 06.12.2017 16:07

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FP 150 50W 5000K 2x40-100gr. NEMA

Number of Lamps: 1

Luminous Length (mm): 396

Luminous Width (mm): 153

Luminous Height (mm): 80

Voltage: 231.6 V

Current: 0.213 A

Power: 48.40 W

Power Factor: 0.976

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5611.6 lm

Measurement Flux: 5611.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 123.8, 138.8, 140.7, 140.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.0, 117.8, 124.7, 124.0

Luminaire Efficacy Rating (LER): 115.99

Central Intensity: 915.95 cd

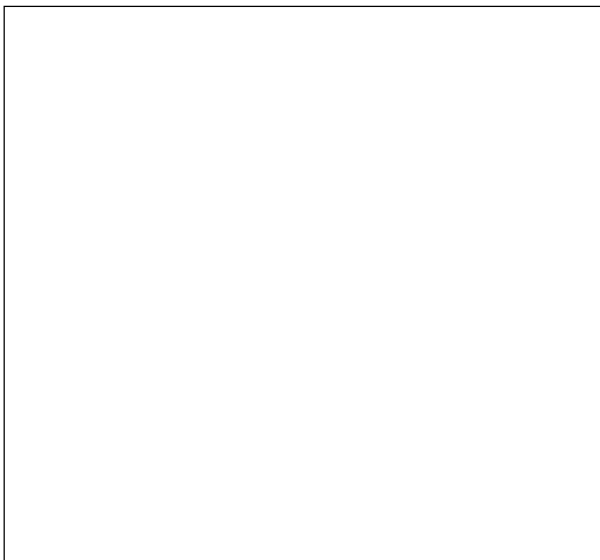
Max. Intensity: 2507.71 cd

Pos of Max. Intensity: H180 V38

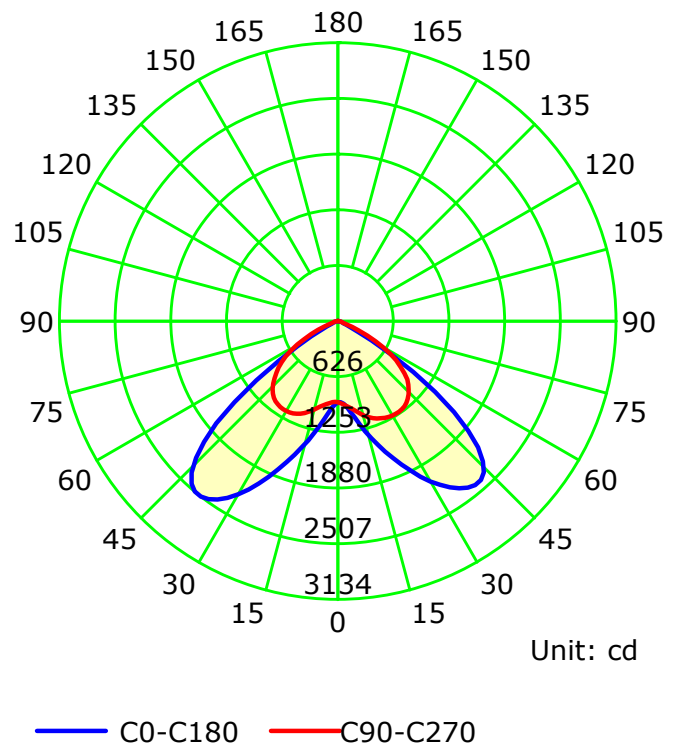
S/MH(C0/C180): 2.43

S/MH(C90/C270): 1.82

Picture Of Luminaire



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

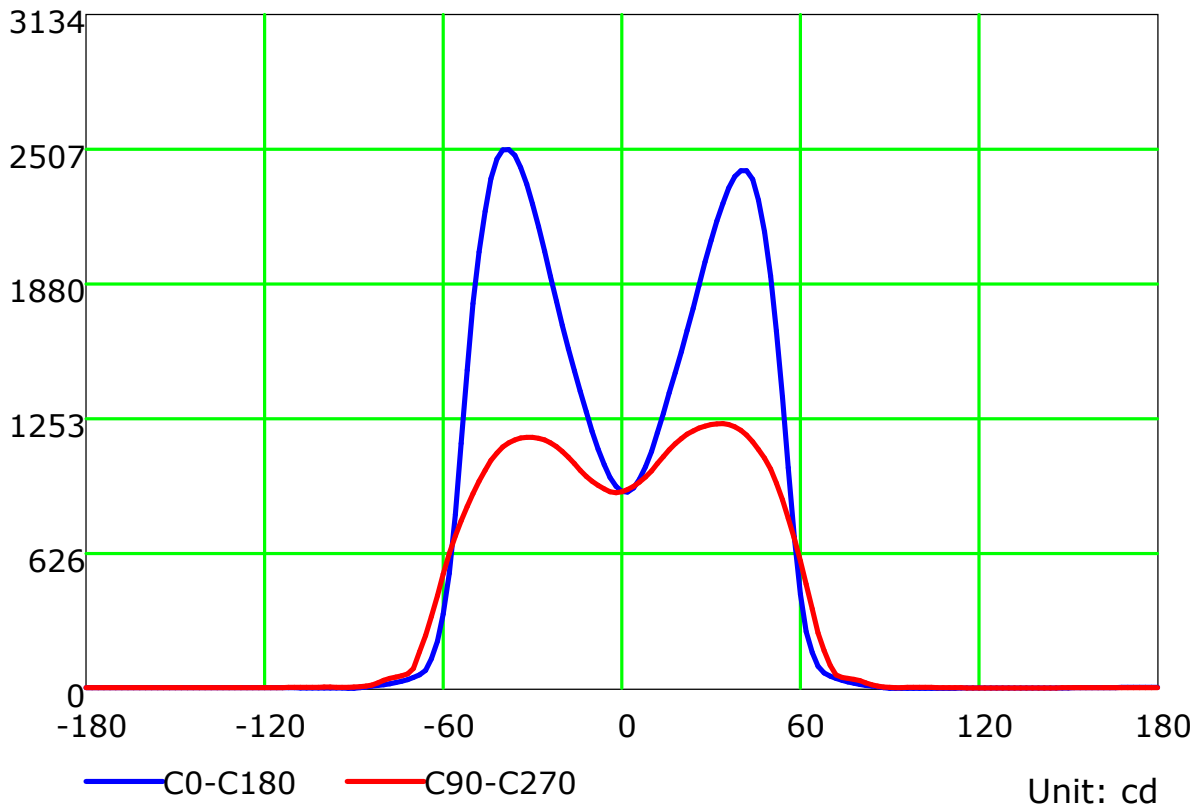
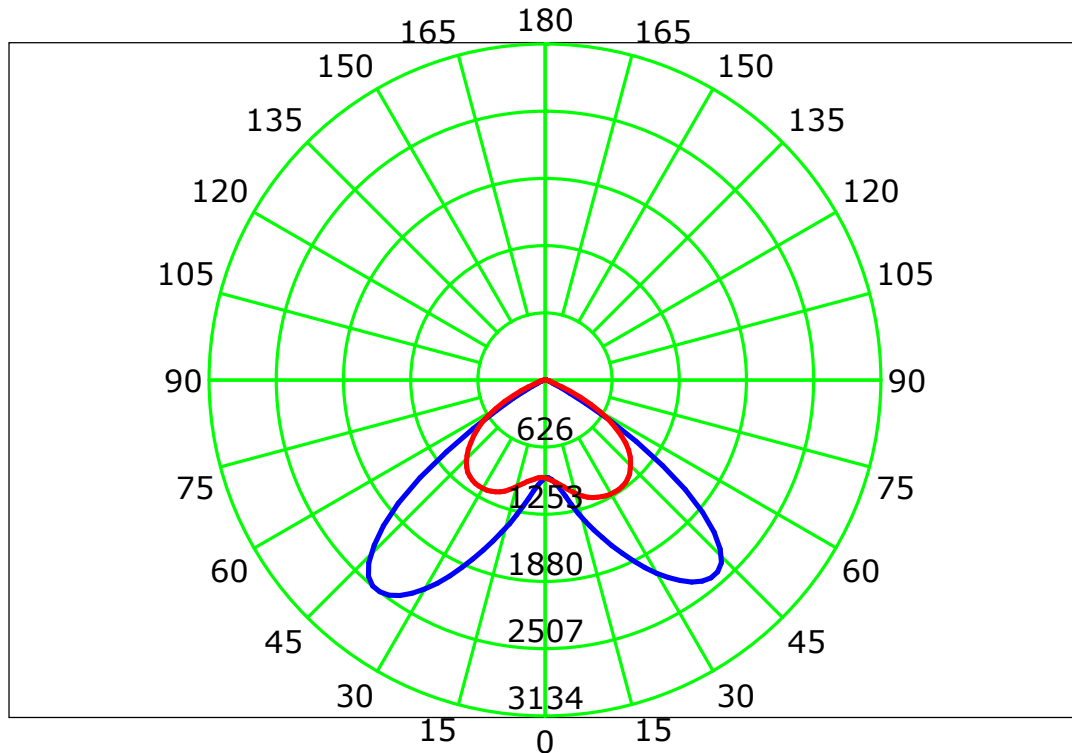
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

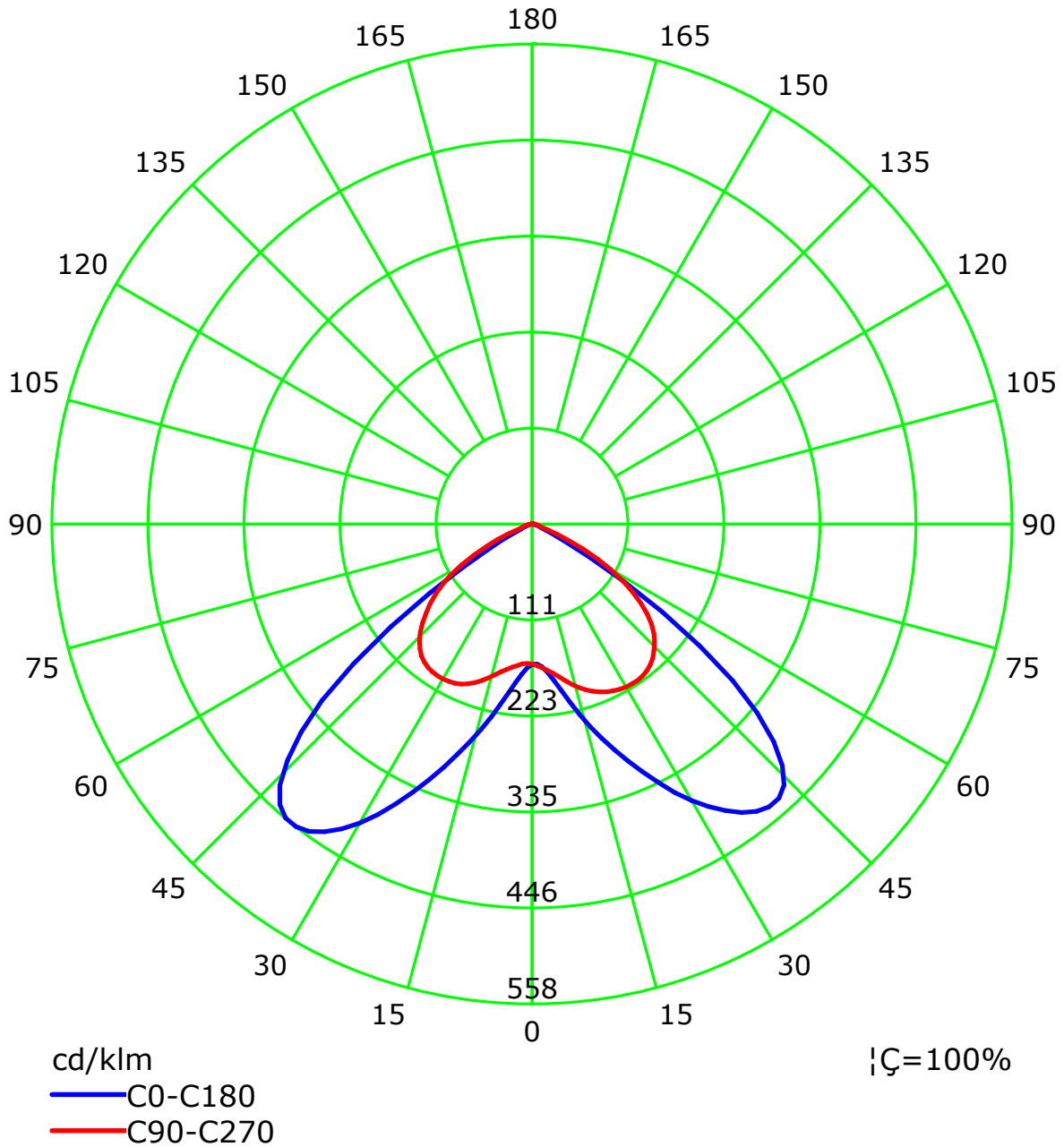
Luminous Intensity Distribution Curve



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

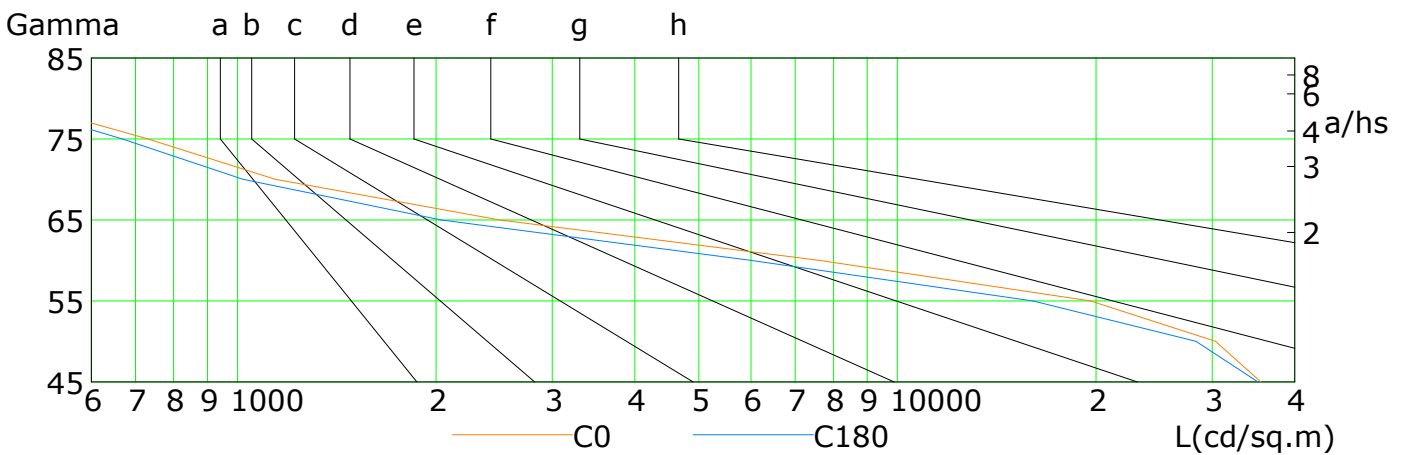
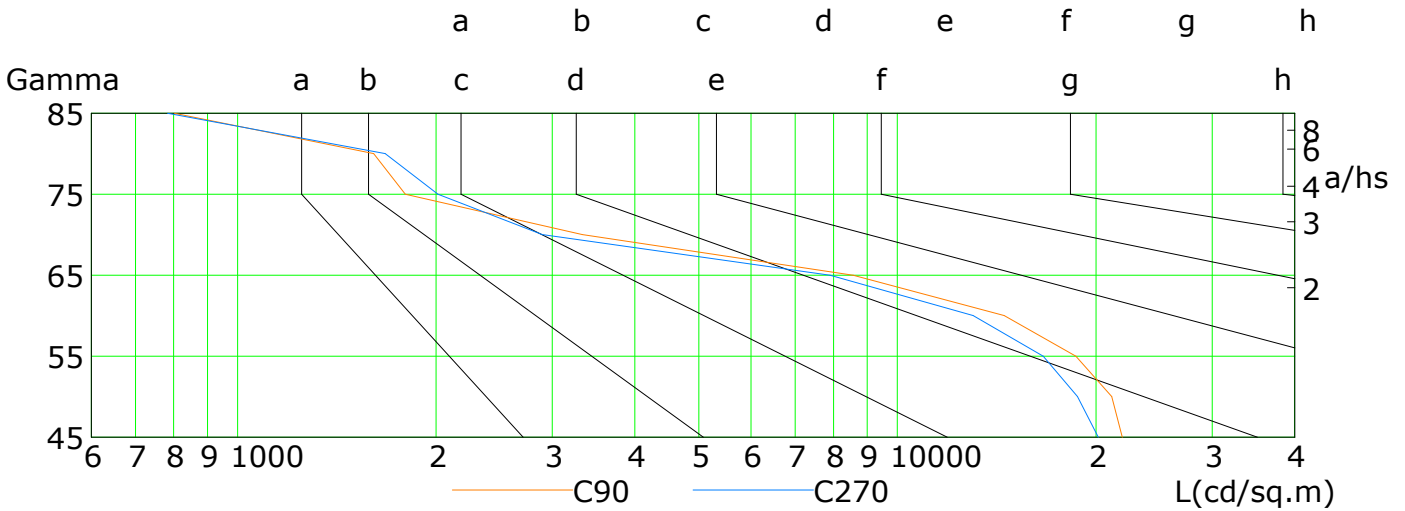
Gamma Plane (°):0.0-180.0:2.0
 Test Device: LSG-1800B
 Distance: 12.606 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	35566	30346	19627	7600	2497	1141	731	445	254
C90	21926	21129	18638	14519	8567	3330	1795	1608	801
C180	35184	28338	16051	5985	2036	1019	669	420	249
C270	20158	18756	16637	13019	7910	2895	2013	1674	783

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

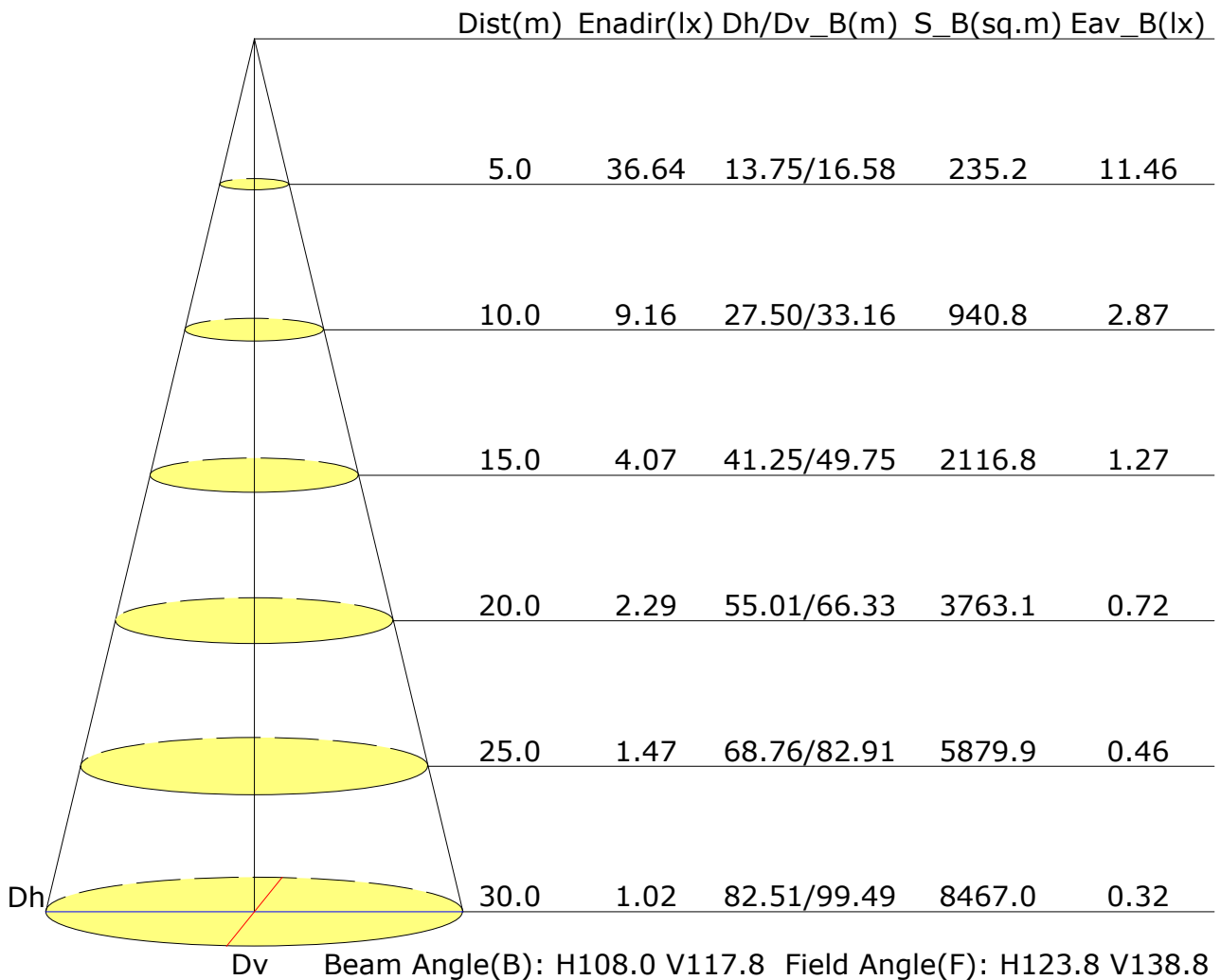
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Illuminance at a Distance



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	24.1	25.4	24.4	25.7	25.9	23.7	25.1	24.0	25.3	25.6
3H	23.9	25.2	24.3	25.4	25.7	23.9	25.1	24.2	25.4	25.6
4H	23.9	25.0	24.2	25.3	25.6	23.8	24.9	24.1	25.2	25.5
6H	23.8	24.8	24.1	25.1	25.5	23.7	24.8	24.1	25.1	25.4
8H	23.7	24.8	24.1	25.1	25.4	23.7	24.7	24.1	25.0	25.4
12H	23.7	24.7	24.1	25.0	25.4	23.7	24.6	24.0	25.0	25.3
X=4H Y=2H	24.6	25.7	24.9	26.0	26.3	24.3	25.5	24.7	25.8	26.1
3H	24.5	25.4	24.9	25.8	26.1	24.5	25.5	24.9	25.8	26.2
4H	24.4	25.3	24.8	25.6	26.0	24.5	25.3	24.9	25.7	26.1
6H	24.3	25.1	24.8	25.5	25.9	24.4	25.2	24.9	25.6	26.0
8H	24.3	25.0	24.7	25.4	25.8	24.4	25.1	24.9	25.5	25.9
12H	24.3	24.9	24.7	25.3	25.8	24.4	25.0	24.8	25.4	25.9
X=8H Y=4H	24.3	25.0	24.8	25.4	25.9	24.4	25.1	24.8	25.5	25.9
6H	24.3	24.8	24.8	25.3	25.7	24.4	24.9	24.8	25.3	25.8
8H	24.3	24.7	24.7	25.2	25.7	24.3	24.8	24.8	25.3	25.8
12H	24.2	24.6	24.7	25.1	25.6	24.3	24.7	24.8	25.2	25.7
X=12H Y=4H	24.3	24.9	24.8	25.3	25.8	24.4	25.0	24.8	25.4	25.9
6H	24.3	24.7	24.7	25.2	25.7	24.3	24.8	24.8	25.3	25.8
8H	24.2	24.6	24.7	25.1	25.6	24.3	24.7	24.8	25.2	25.7
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.3					+0.3/-0.4				
S=1.5H	+2.5/-6.8					+2.0/-2.9				
S=2.0H	+3.4/-11.9					+3.4/-6.6				

Calculate in accordance with CIE Pub.117. The table is revised with 5612lm ($8\log(F/F_0) = 6.0$).

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 2.00									
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	NA	0.77	0.83	0.88	0.95	0.99	1.01	1.05	1.07	
	0.30		NA	0.71	0.77	0.82	0.90	0.95	0.98	1.02	1.04	
	0.20		NA	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
0.50	0.50	0.20	NA	0.75	0.81	0.85	0.92	0.95	0.98	1.01	1.03	
	0.30		NA	0.70	0.76	0.81	0.88	0.92	0.95	0.98	1.01	
	0.20		NA	0.66	0.72	0.77	0.84	0.89	0.92	0.96	0.99	
0.30	0.50	0.20	NA	0.74	0.79	0.83	0.89	0.92	0.94	0.97	0.99	
	0.30		NA	0.69	0.74	0.79	0.86	0.90	0.92	0.95	0.97	
	0.20		NA	0.65	0.71	0.76	0.83	0.87	0.90	0.94	0.96	
0.00	0.00	0.00	NA	0.63	0.68	0.73	0.79	0.83	0.86	0.89	0.91	
<p>Rating:48W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 2.00									
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	NA	0.67	0.56	0.48	0.37	0.30	0.26	0.20	0.16	
	0.30		NA	0.57	0.49	0.43	0.33	0.28	0.24	0.19	0.15	
	0.20		NA	0.50	0.44	0.38	0.30	0.26	0.22	0.17	0.14	
0.50	0.50	0.20	NA	0.64	0.54	0.46	0.35	0.32	0.24	0.18	0.15	
	0.30		NA	0.55	0.48	0.41	0.32	0.26	0.23	0.17	0.14	
	0.20		NA	0.49	0.43	0.37	0.29	0.24	0.21	0.17	0.14	
0.30	0.50	0.20	NA	0.61	0.51	0.44	0.33	0.27	0.23	0.17	0.14	
	0.30		NA	0.54	0.46	0.39	0.30	0.25	0.21	0.16	0.13	
	0.20		NA	0.48	0.42	0.36	0.28	0.23	0.20	0.16	0.13	
0.00	0.00	0.00	1.00	0.37	0.31	0.27	0.20	0.16	0.14	0.11	0.09	
<p>Rating:48W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 2.00									
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	NA	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.22	
	0.30		NA	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	NA	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	NA	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		NA	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	
<p>Rating:48W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												