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Report No.: 1 Test Time: 03.04.2020 10:54

Luminaire Property

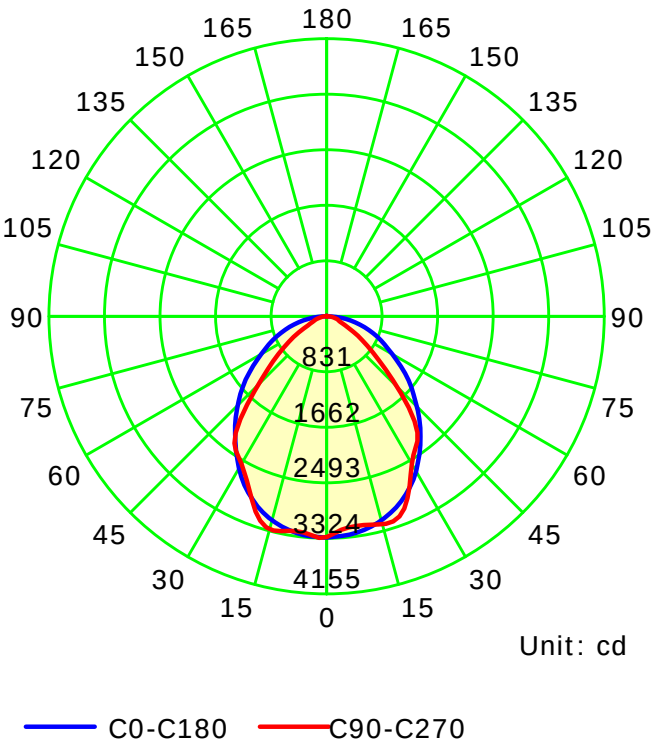
Luminaire Manufacturer:
Luminaire Description: FT 185 47W 3000K linza 104x90 gr. N IPS 50-382
Luminous Length (mm): 587 Luminous Width (mm): 177
Luminous Height (mm): 73 Voltage: 229.0 V
Current: 0.224 A Power: 50.25 W
Power Factor: 0.977

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 6975.6 lm
Measurement Flux: 6975.6 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.5, 126.7, 136.8, 136.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 99.7, 86.6, 85.1, 85.5
Luminaire Efficacy Rating (LER): 138.87 Central Intensity: 3311.74 cd
Max. Intensity: 3324.38 cd Pos of Max. Intensity: H225 V2
S/MH(C0/C180): 1.19 S/MH(C90/C270): 1.16

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:

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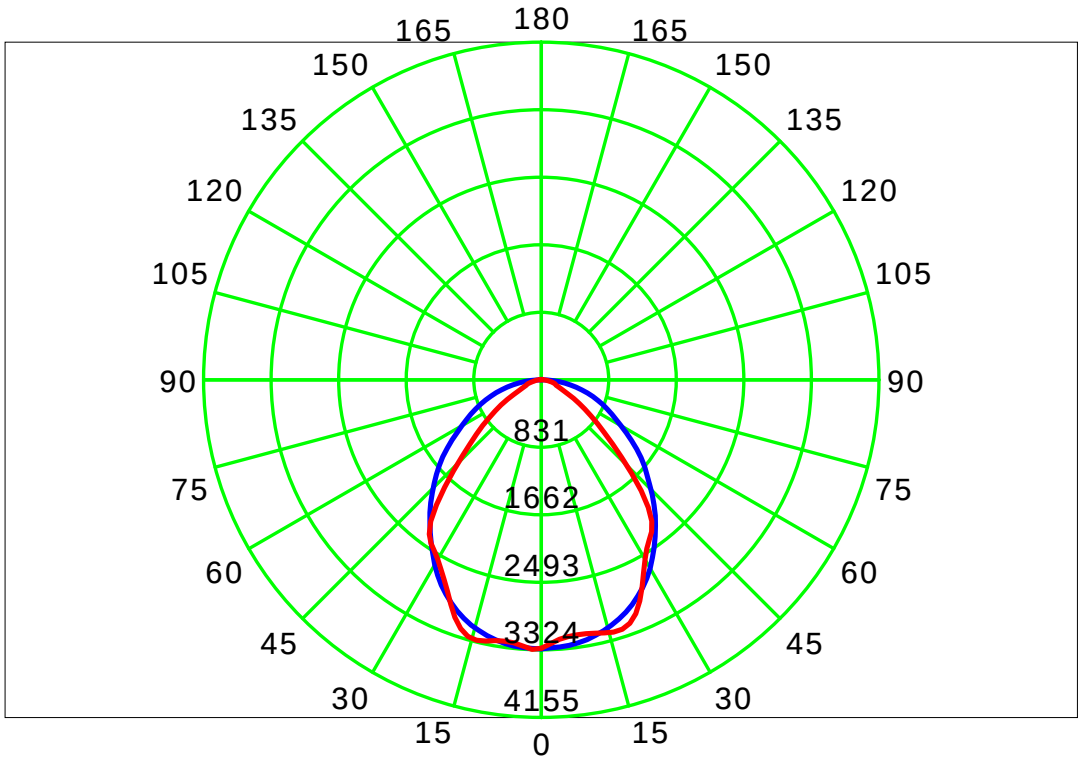
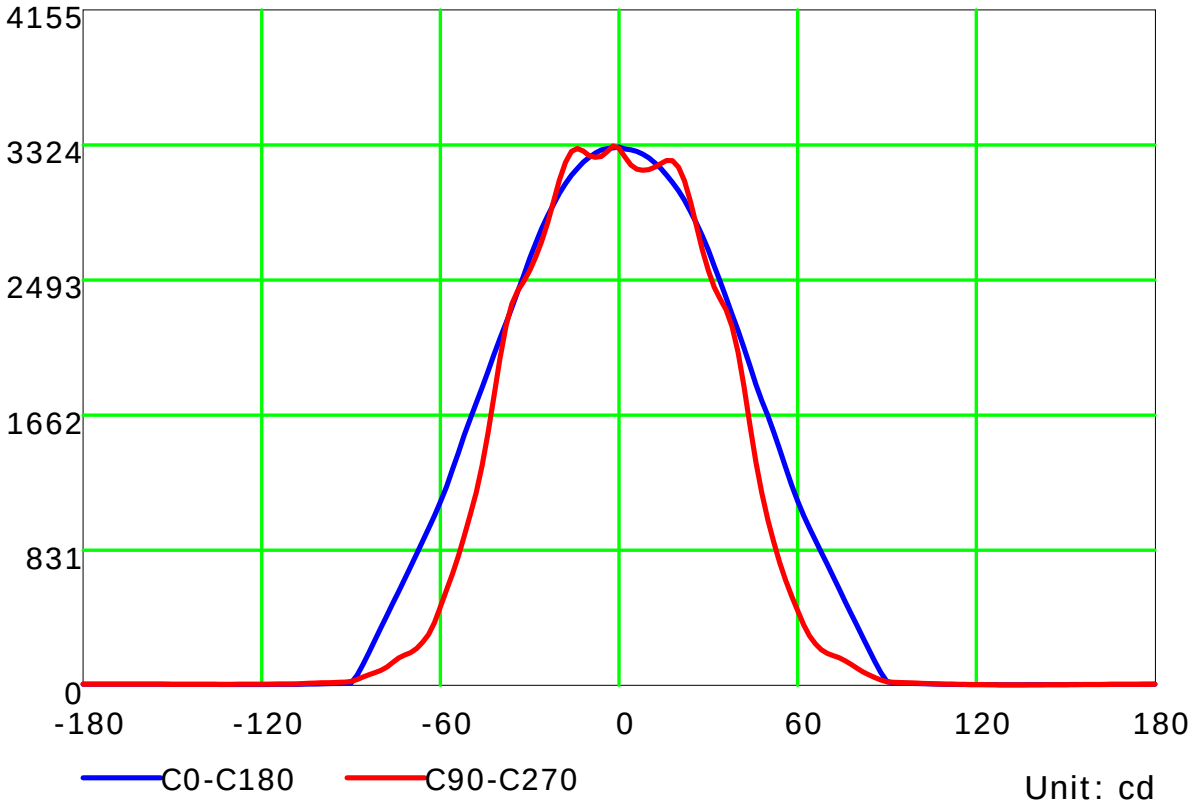
Luminous Intensity Distribution Curve

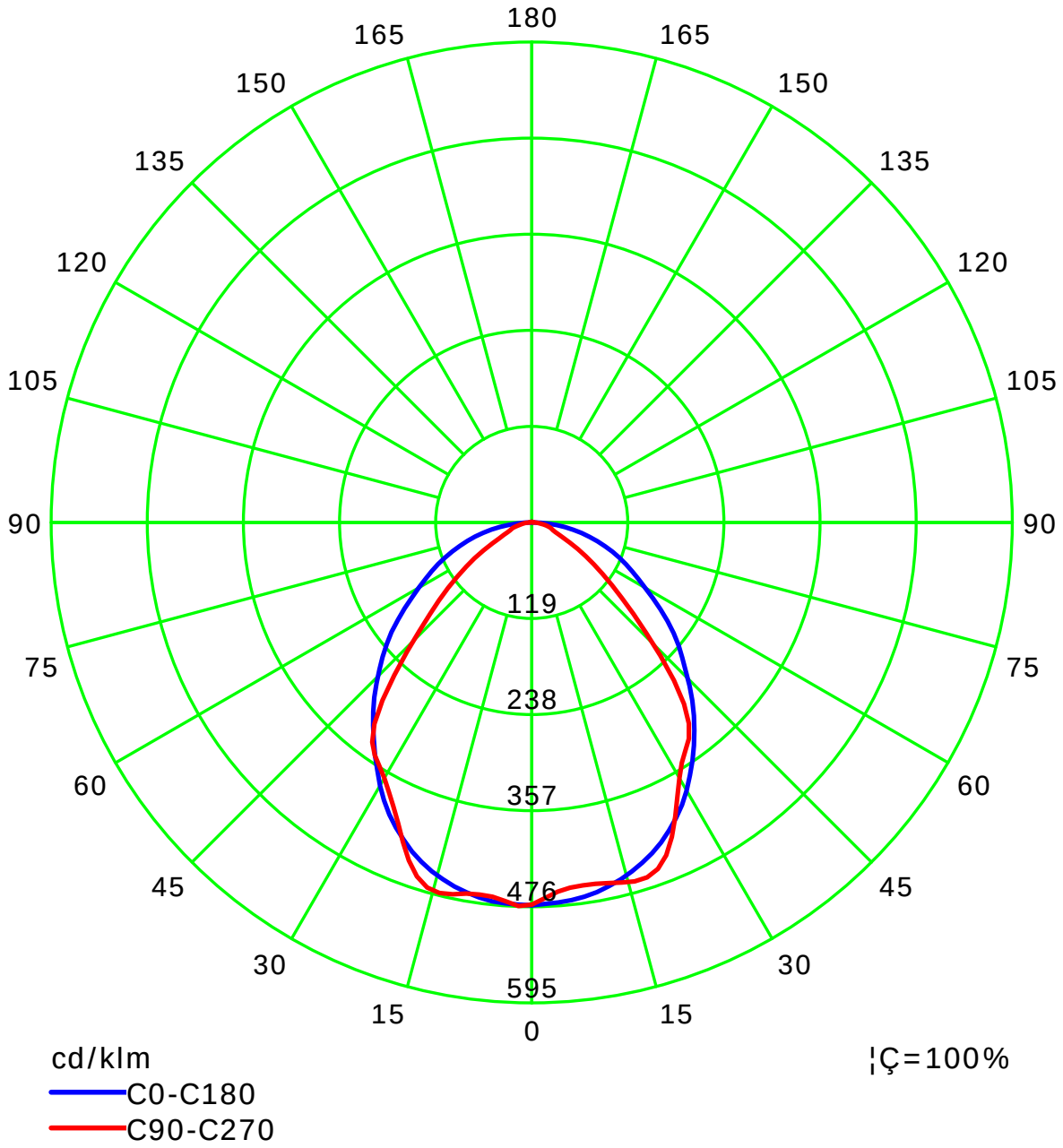




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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:
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Test Device: LSG-1800B
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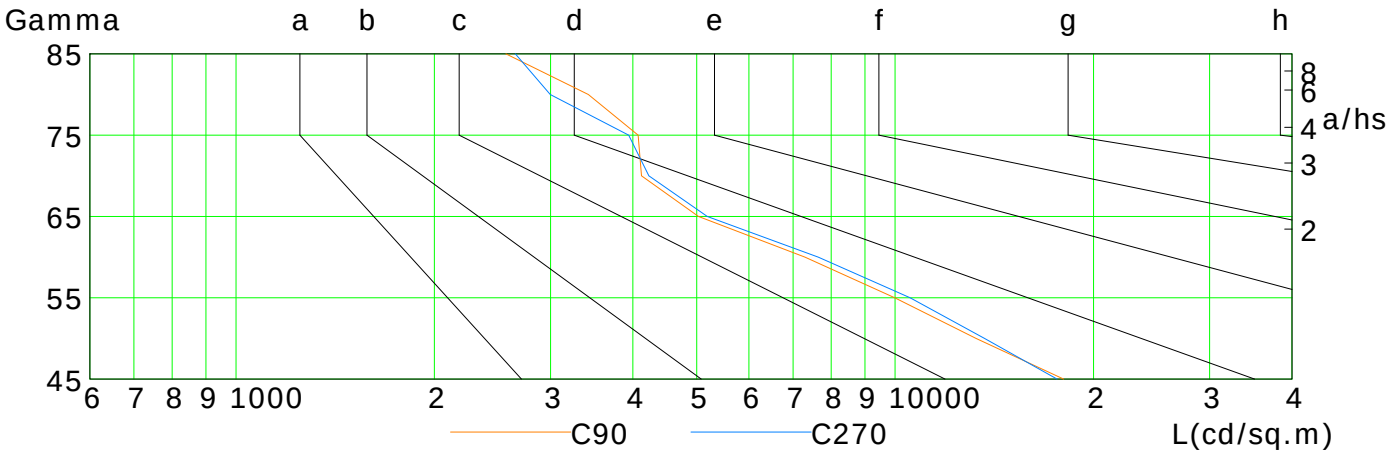
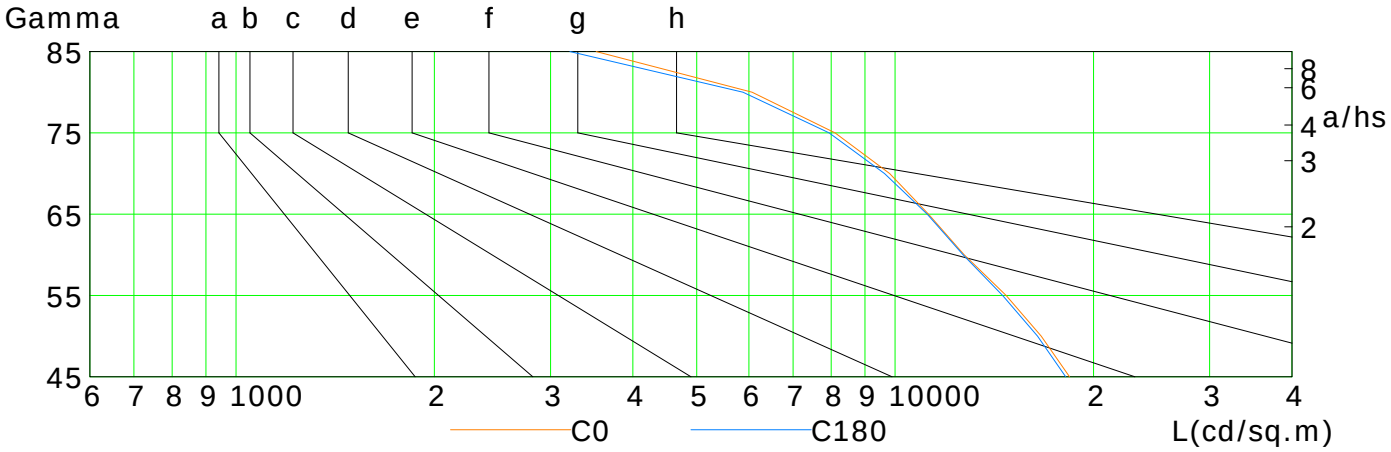
Lum Limit Curve

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



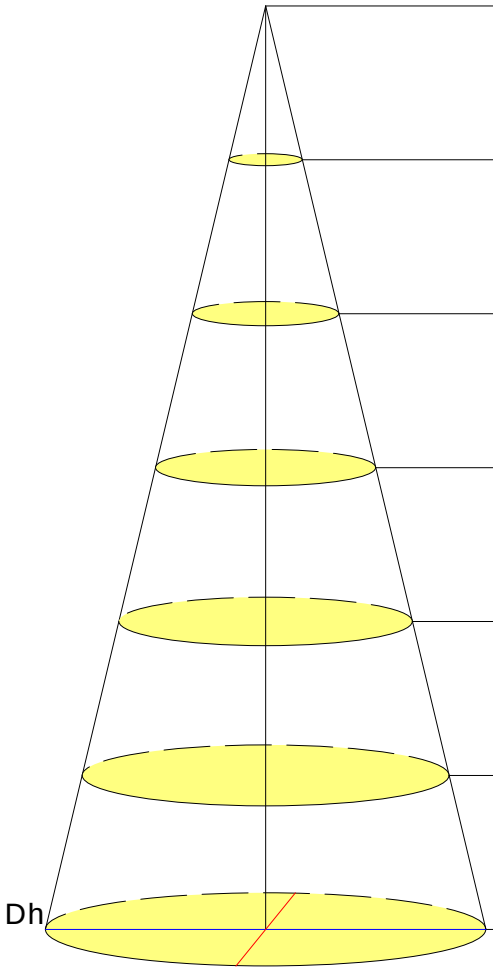


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	18395	16656	14741	12733	11235	9808	8105	6069	3519
C90	18012	13270	9987	7297	5030	4122	4075	3424	2568
C180	18144	16444	14554	12679	11189	9636	7938	5878	3211
C270	17603	13666	10536	7642	5189	4230	3942	2998	2653

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:

Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	132.47	11.86/9.42	77.3	45.88
10.0	33.12	23.71/18.84	309.2	11.47
15.0	14.72	35.57/28.26	695.8	5.10
20.0	8.28	47.42/37.67	1236.9	2.87
25.0	5.30	59.28/47.09	1932.7	1.84
30.0	3.68	71.13/56.51	2783.1	1.27

Beam Angle(B): H99.7 V86.6 Field Angle(F): H161.5 V126.7

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	21.0	22.3	21.3	22.5	22.8	19.7	20.9	20.0	21.2	21.4
3H	22.3	23.4	22.6	23.7	24.0	19.9	21.0	20.3	21.3	21.6
4H	22.8	23.9	23.2	24.2	24.5	20.0	21.1	20.4	21.4	21.7
6H	23.2	24.2	23.6	24.5	24.8	20.1	21.1	20.5	21.4	21.8
8H	23.3	24.3	23.7	24.6	24.9	20.2	21.1	20.5	21.4	21.8
12H	23.4	24.3	23.8	24.6	25.0	20.2	21.1	20.6	21.4	21.8
X=4H Y=2H	21.2	22.2	21.5	22.5	22.8	20.0	21.0	20.3	21.3	21.6
3H	22.5	23.4	22.9	23.8	24.1	20.3	21.2	20.7	21.5	21.9
4H	23.1	24.0	23.6	24.3	24.7	20.5	21.3	20.9	21.6	22.0
6H	23.6	24.4	24.1	24.7	25.2	20.6	21.3	21.1	21.7	22.1
8H	23.8	24.5	24.3	24.9	25.3	20.7	21.3	21.1	21.8	22.2
12H	23.9	24.5	24.4	24.9	25.4	20.7	21.3	21.2	21.8	22.2
X=8H Y=4H	23.1	23.8	23.6	24.2	24.6	20.6	21.2	21.0	21.6	22.1
6H	23.7	24.2	24.2	24.6	25.1	20.8	21.3	21.3	21.7	22.2
8H	23.9	24.4	24.4	24.8	25.3	20.9	21.3	21.4	21.8	22.3
12H	24.0	24.4	24.6	24.9	25.4	20.9	21.3	21.4	21.8	22.3
X=12H Y=4H	23.1	23.7	23.6	24.1	24.6	20.6	21.2	21.0	21.6	22.0
6H	23.7	24.1	24.1	24.6	25.1	20.8	21.2	21.3	21.7	22.2
8H	23.9	24.3	24.4	24.8	25.3	20.9	21.3	21.4	21.8	22.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.4					+0.6/-0.9				
S=1.5H	+0.7/-1.0					+1.5/-2.2				
S=2.0H	+1.5/-1.8					+2.8/-3.6				

Calculate in accordance with CIE Pub.117. The table is revised with 6976lm (8log(F/F0) = 6.7).

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	0.86	0.92	0.97	0.99	1.03	1.06
	0.30		0.59	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03
	0.20		0.54	0.64	0.70	0.76	0.83	0.88	0.92	0.97	1.00
0.50	0.50	0.20	0.64	0.73	0.79	0.83	0.89	0.93	0.96	0.99	1.01
	0.30		0.58	0.67	0.74	0.78	0.85	0.89	0.92	0.96	0.99
	0.20		0.53	0.63	0.69	0.74	0.81	0.86	0.89	0.94	0.97
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.86	0.90	0.92	0.95	0.97
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.89	0.93	0.96
	0.20		0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.91	0.94
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.87	0.89

Rating:50W 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	0.86	0.70	0.59	0.51	0.41	0.34	0.29	0.22	0.18
	0.30		0.72	0.60	0.52	0.45	0.37	0.31	0.27	0.21	0.17
	0.20		0.62	0.52	0.46	0.41	0.34	0.28	0.25	0.20	0.16
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.39	0.35	0.27	0.21	0.17
	0.30		0.70	0.58	0.50	0.44	0.35	0.29	0.25	0.20	0.16
	0.20		0.61	0.51	0.45	0.40	0.32	0.27	0.24	0.19	0.16
0.30	0.50	0.20	0.80	0.64	0.54	0.46	0.37	0.30	0.26	0.20	0.16
	0.30		0.68	0.56	0.48	0.42	0.34	0.28	0.24	0.19	0.16
	0.20		0.60	0.50	0.44	0.39	0.31	0.26	0.23	0.18	0.15
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.17	0.13	0.11

Rating:50W 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	0.16	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	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	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		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	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:50W 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: