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Report No.: Test Time: 17.04.2020 15:00

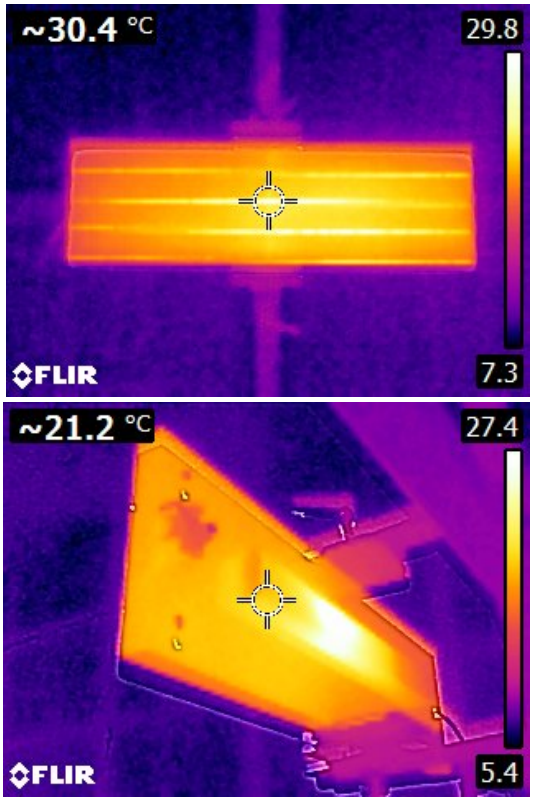
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FT 185 47W 3000K linza 96x55 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: 50.27 W
Power Factor: 0.978

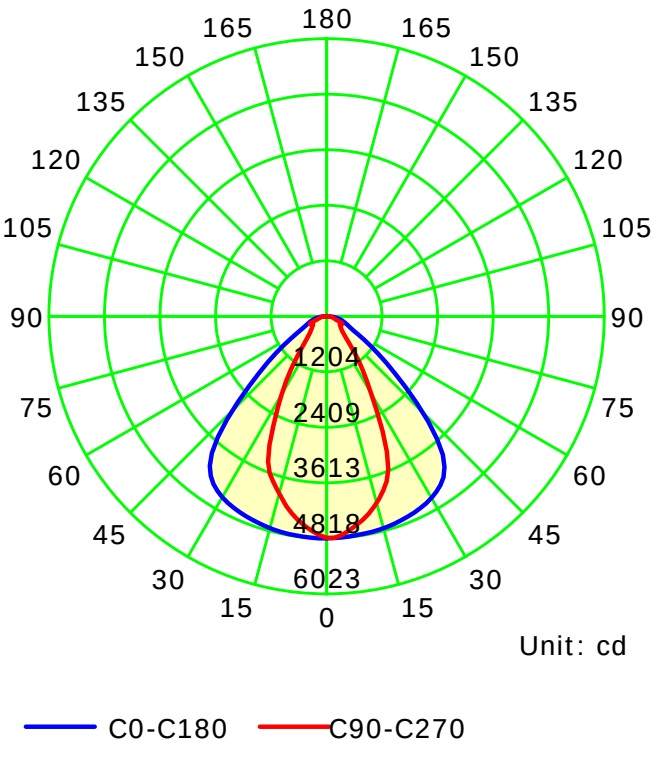
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 6952.0 lm
Measurement Flux: 6952 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 134.6, 93.2, 110.2, 109.8
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.9, 54.9, 63.8, 63.7
Luminaire Efficacy Rating (LER): 138.34 Central Intensity: 4817.13 cd
Max. Intensity: 4818.42 cd Pos of Max. Intensity: H22.5 V2
S/MH(C0/C180): 1.39 S/MH(C90/C270): 0.89

Termogramma

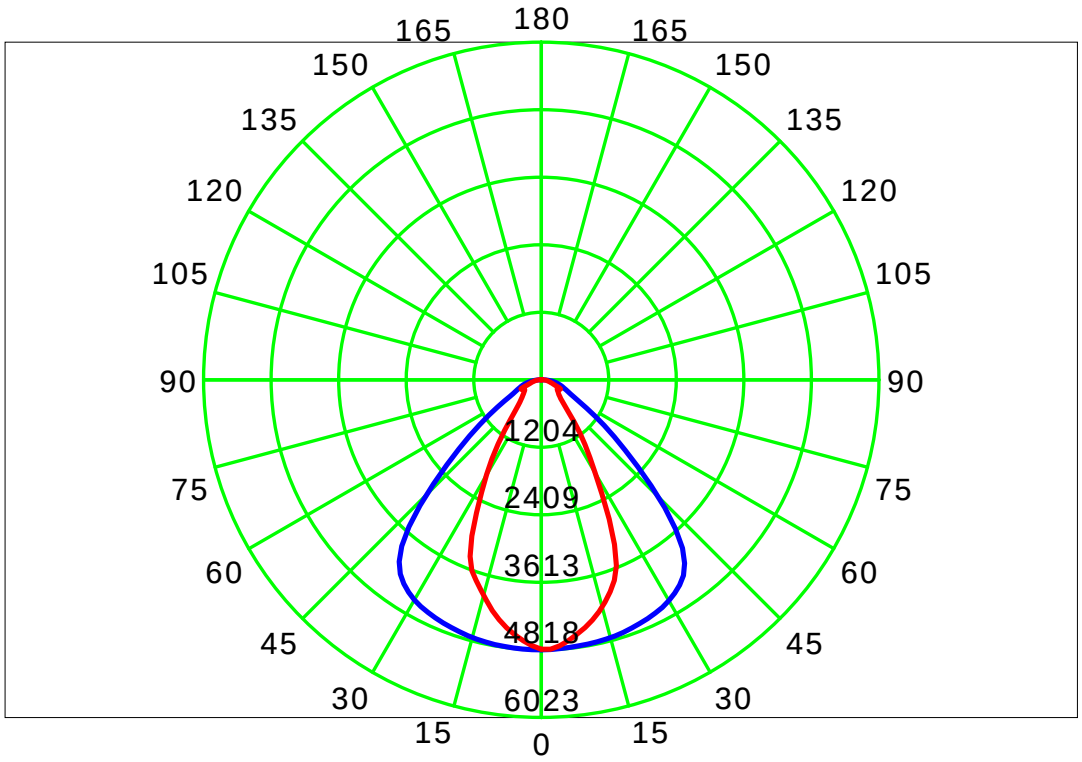


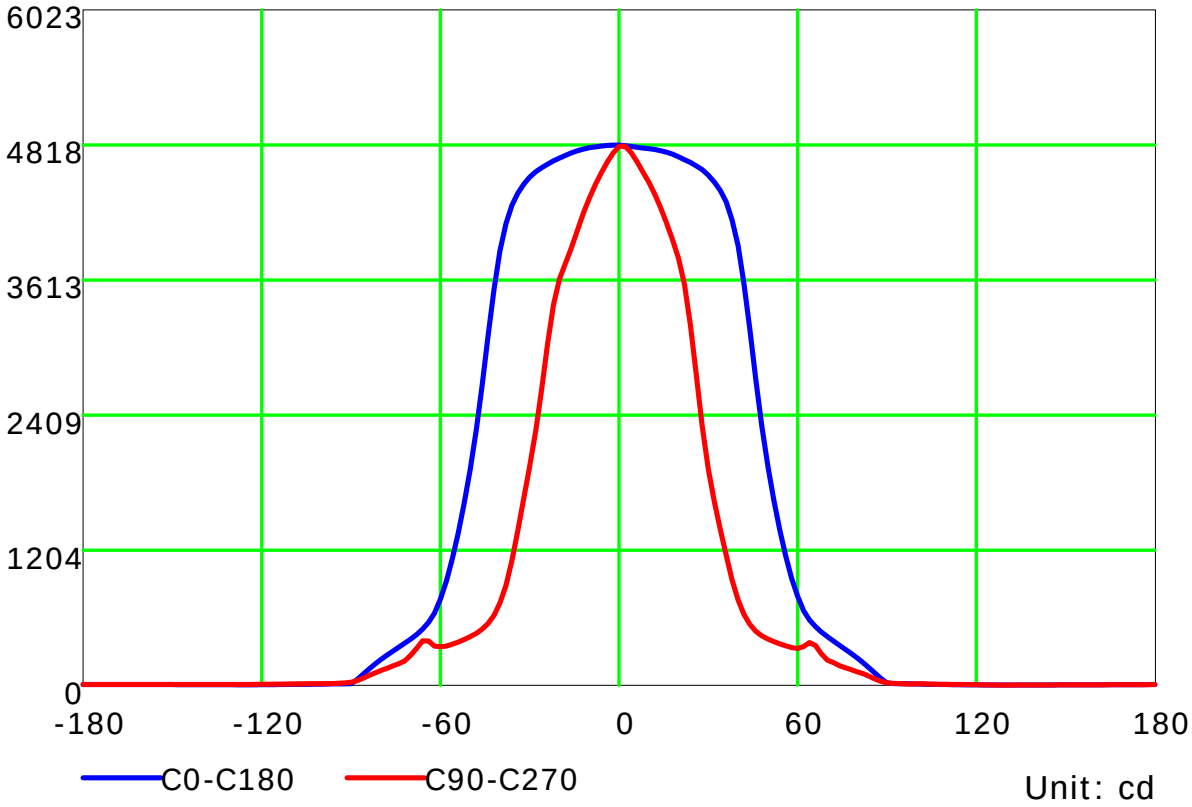
Luminous Intensity Distribution Curve



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 Type: TYPE C
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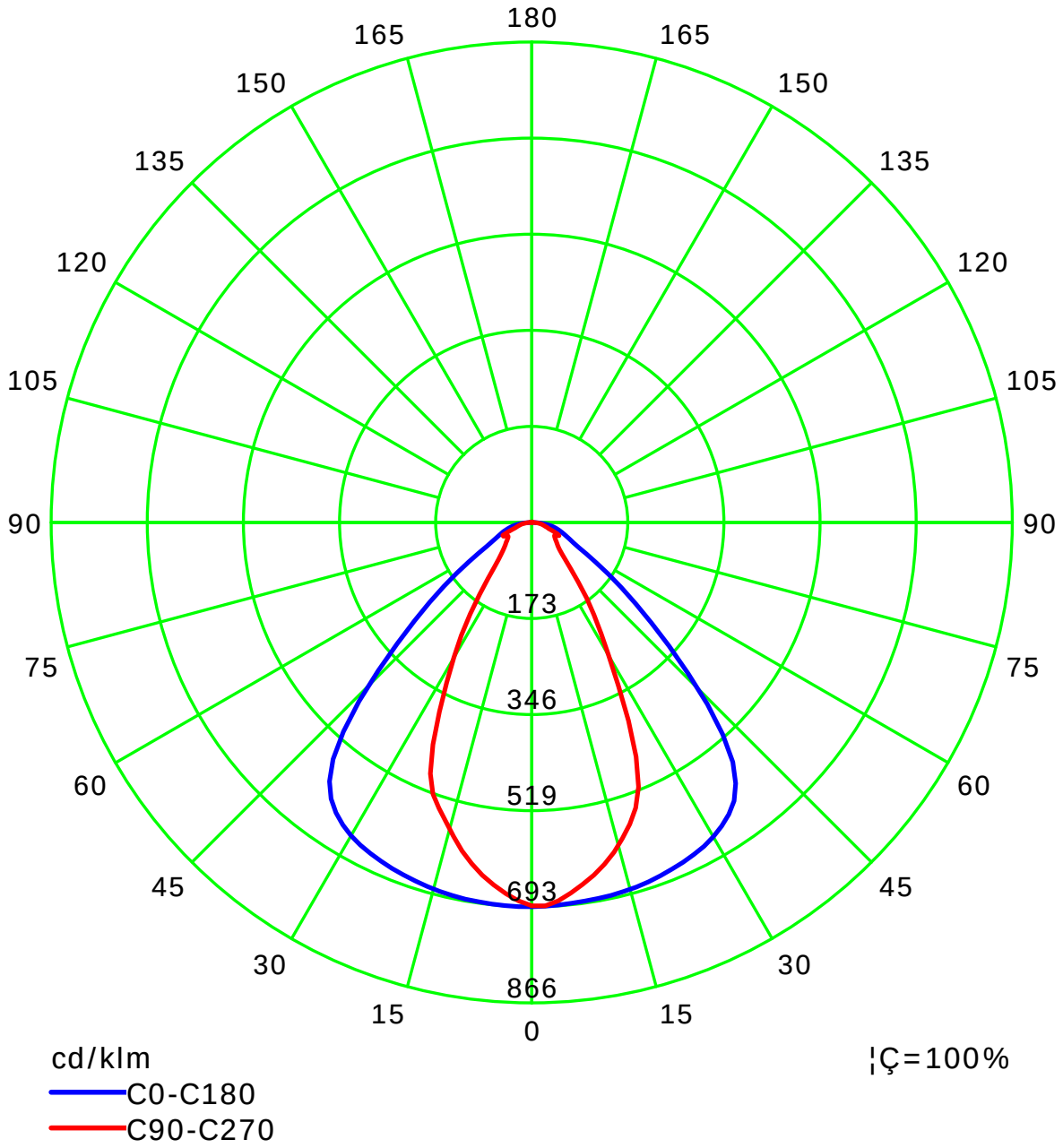
Operator:

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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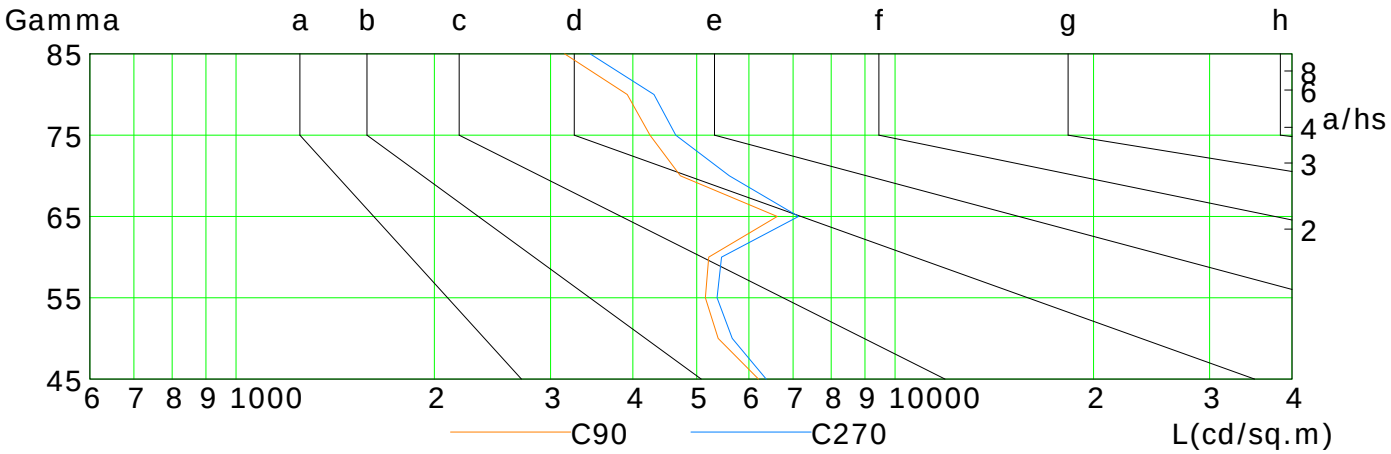
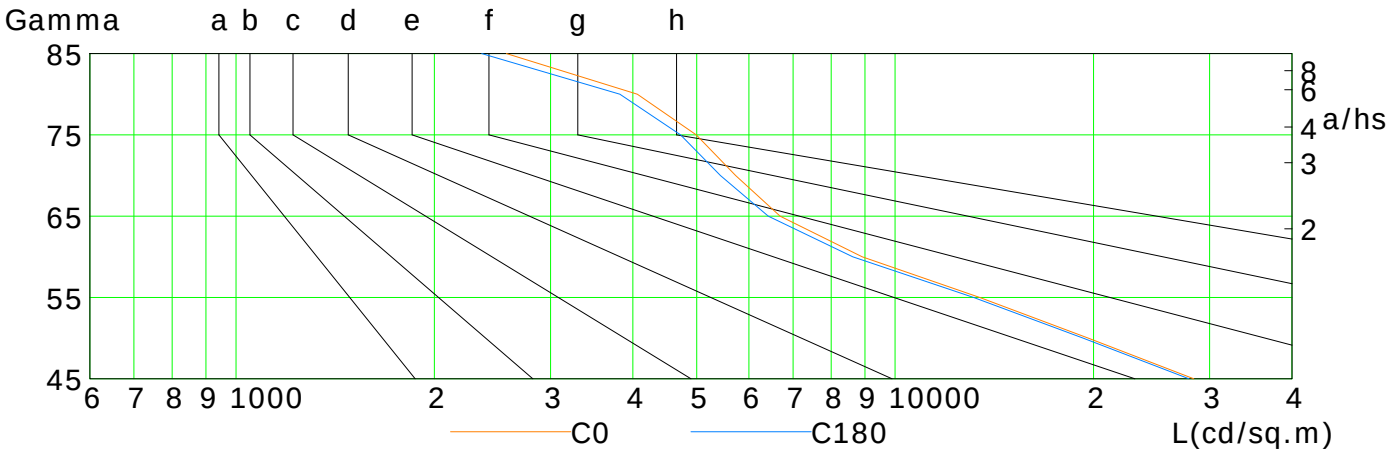
Lum Limit Curve

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	28387	19631	13440	8913	6689	5728	4992	4063	2572
C90	6204	5389	5153	5213	6623	4724	4246	3923	3152
C180	27910	19288	13158	8626	6421	5431	4726	3822	2360
C270	6373	5660	5368	5453	7137	5603	4647	4307	3446

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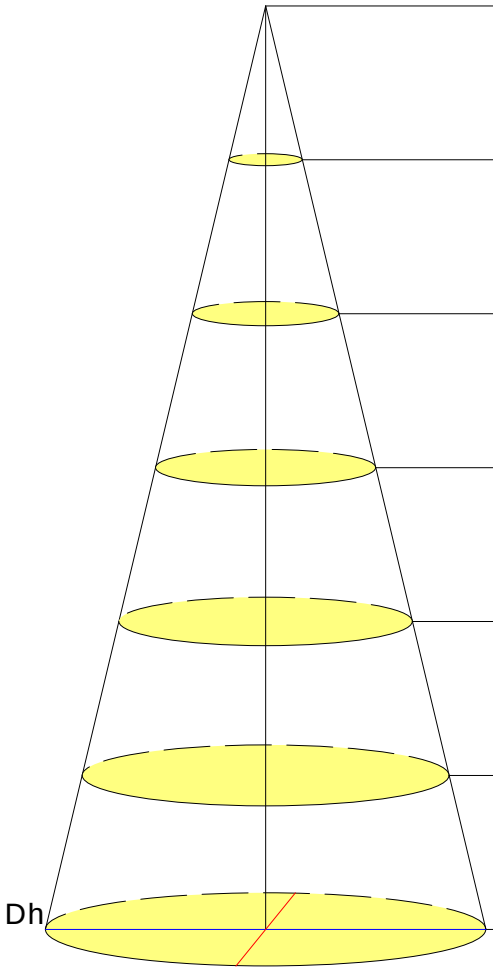
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	192.69	10.89/5.19	39.3	93.36
10.0	48.17	21.77/10.38	157.3	23.34
15.0	21.41	32.66/15.57	354.0	10.37
20.0	12.04	43.54/20.76	629.3	5.84
25.0	7.71	54.43/25.95	983.3	3.73
30.0	5.35	65.32/31.14	1415.9	2.59

Beam Angle(B): H94.9 V54.9 Field Angle(F): H134.6 V93.2

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	20.4	21.5	20.7	21.7	22.0	15.5	16.6	15.7	16.8	17.0
3H	21.0	22.0	21.3	22.3	22.5	17.2	18.2	17.5	18.5	18.7
4H	21.3	22.3	21.6	22.6	22.8	17.7	18.6	18.0	18.9	19.2
6H	21.6	22.5	21.9	22.8	23.1	18.1	19.0	18.5	19.3	19.6
8H	21.7	22.5	22.1	22.9	23.2	18.3	19.1	18.6	19.5	19.8
12H	21.7	22.6	22.1	22.9	23.2	18.4	19.2	18.8	19.6	19.9
X=4H Y=2H	20.4	21.3	20.7	21.6	21.9	16.1	17.1	16.5	17.4	17.7
3H	21.1	22.0	21.5	22.3	22.6	17.9	18.8	18.3	19.1	19.4
4H	21.6	22.3	22.0	22.7	23.1	18.5	19.3	18.9	19.6	20.0
6H	22.0	22.6	22.4	23.0	23.5	19.1	19.7	19.5	20.1	20.5
8H	22.2	22.8	22.6	23.2	23.6	19.3	19.9	19.7	20.3	20.7
12H	22.3	22.8	22.7	23.2	23.7	19.5	20.0	19.9	20.4	20.9
X=8H Y=4H	21.6	22.2	22.1	22.6	23.1	18.8	19.4	19.2	19.8	20.2
6H	22.1	22.6	22.6	23.1	23.5	19.4	19.9	19.9	20.4	20.8
8H	22.4	22.8	22.8	23.2	23.7	19.7	20.2	20.2	20.6	21.1
12H	22.5	22.9	23.0	23.4	23.9	20.0	20.3	20.5	20.8	21.3
X=12H Y=4H	21.6	22.2	22.1	22.6	23.0	18.8	19.4	19.3	19.8	20.2
6H	22.1	22.6	22.6	23.0	23.5	19.5	19.9	20.0	20.4	20.9
8H	22.4	22.7	22.9	23.2	23.7	19.8	20.2	20.3	20.7	21.2
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.0					+0.5/-0.3				
S=1.5H	+2.7/-1.7					+1.3/-0.8				
S=2.0H	+4.2/-2.3					+1.8/-0.6				

Calculate in accordance with CIE Pub.117. The table is revised with 6952lm (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 = 1.00								
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	0.71	0.79	0.85	0.89	0.95	0.98	1.01	1.05	1.07
	0.30		0.64	0.73	0.79	0.83	0.90	0.94	0.97	1.01	1.04
	0.20		0.60	0.68	0.74	0.79	0.86	0.90	0.94	0.98	1.01
0.50	0.50	0.20	0.69	0.77	0.82	0.86	0.92	0.95	0.97	1.01	1.02
	0.30		0.63	0.72	0.77	0.82	0.87	0.91	0.94	0.98	1.00
	0.20		0.59	0.68	0.74	0.78	0.84	0.88	0.91	0.95	0.98
0.30	0.50	0.20	0.68	0.75	0.80	0.84	0.89	0.92	0.94	0.97	0.99
	0.30		0.63	0.71	0.76	0.80	0.85	0.89	0.91	0.95	0.97
	0.20		0.59	0.67	0.73	0.77	0.82	0.86	0.89	0.93	0.95
0.00	0.00	0.00	0.57	0.65	0.70	0.74	0.79	0.82	0.85	0.88	0.90

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 = 1.00
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	0.79	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17
	0.30		0.66	0.55	0.48	0.42	0.34	0.29	0.25	0.20	0.16
	0.20		0.57	0.48	0.42	0.38	0.31	0.27	0.23	0.19	0.16
0.50	0.50	0.20	0.76	0.62	0.52	0.45	0.36	0.33	0.25	0.20	0.16
	0.30		0.64	0.53	0.46	0.41	0.33	0.27	0.24	0.19	0.15
	0.20		0.56	0.47	0.41	0.37	0.30	0.26	0.22	0.18	0.15
0.30	0.50	0.20	0.73	0.59	0.50	0.43	0.34	0.28	0.24	0.18	0.15
	0.30		0.62	0.52	0.44	0.39	0.31	0.26	0.22	0.18	0.15
	0.20		0.55	0.46	0.40	0.36	0.29	0.25	0.21	0.17	0.14
0.00	0.00	0.00	0.43	0.35	0.30	0.26	0.21	0.17	0.15	0.12	0.10

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 = 1.00								
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	0.15	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	0.09	0.11	0.13	0.14	0.15	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	0.11	0.13	0.14	0.15	0.16	0.17	0.19	0.19
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.14	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	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
0.00	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
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Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
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