Lisun Electronics Inc.
http://www.Lisungroup.com
Tel: +86(21)51083341
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Report No.: 1 Test Time: 21.01.2020 21:00

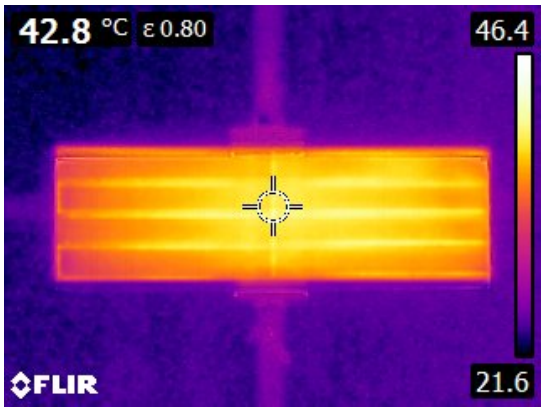
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FT 185 N 62W 3000K 2x25-90gr.
Luminous Length (mm): 587 Luminous Width (mm): 177
Luminous Height (mm): 102 Voltage: 221.4 V
Current: 0.287 A Power: 61.66 W
Power Factor: 0.969

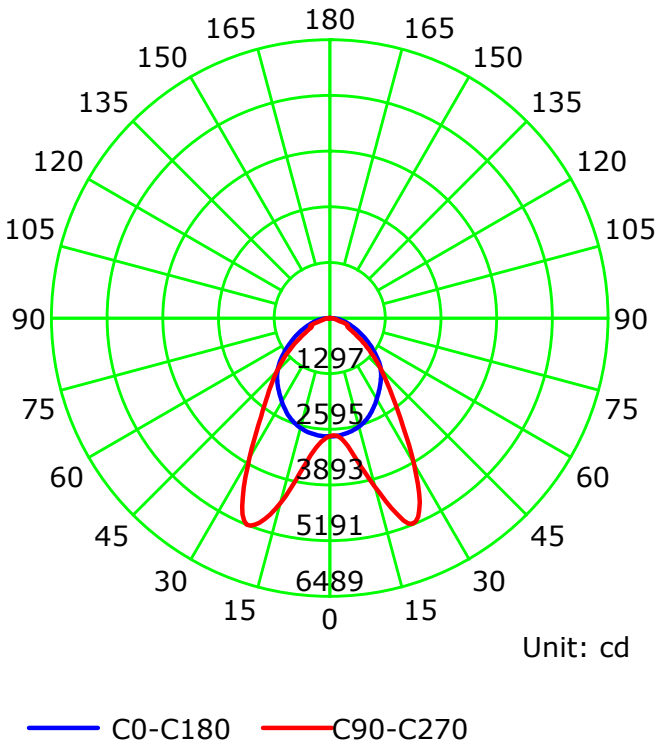
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 9043.4 lm
Measurement Flux: 9043.4 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.0, 124.2, 132.4, 132.5
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.7, 73.4, 87.4, 87.0
Luminaire Efficacy Rating (LER): 146.72 Central Intensity: 2758.81 cd
Max. Intensity: 5191.25 cd Pos of Max. Intensity: H270 V22
S/MH(C0/C180): 1.20 S/MH(C90/C270): 1.47

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Test Device: LSG-1800B
Test Type: TYPE C Distance: 12.677 m
Temperature: Humidity:
Operator: Inspector:

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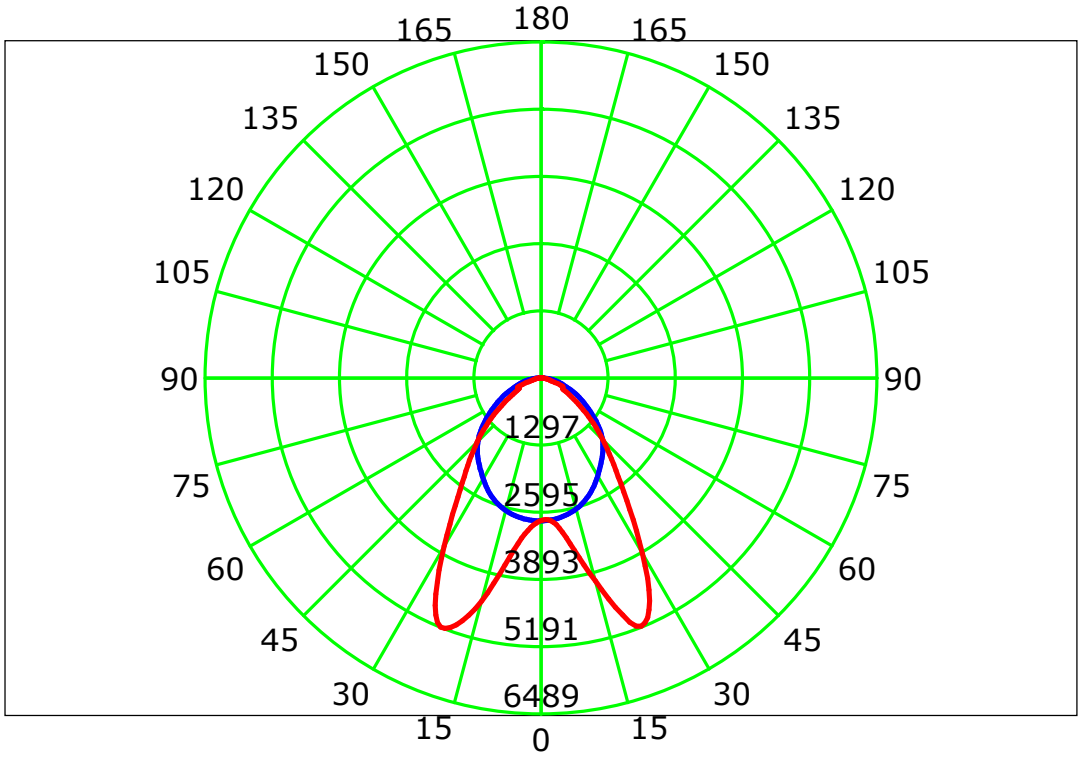
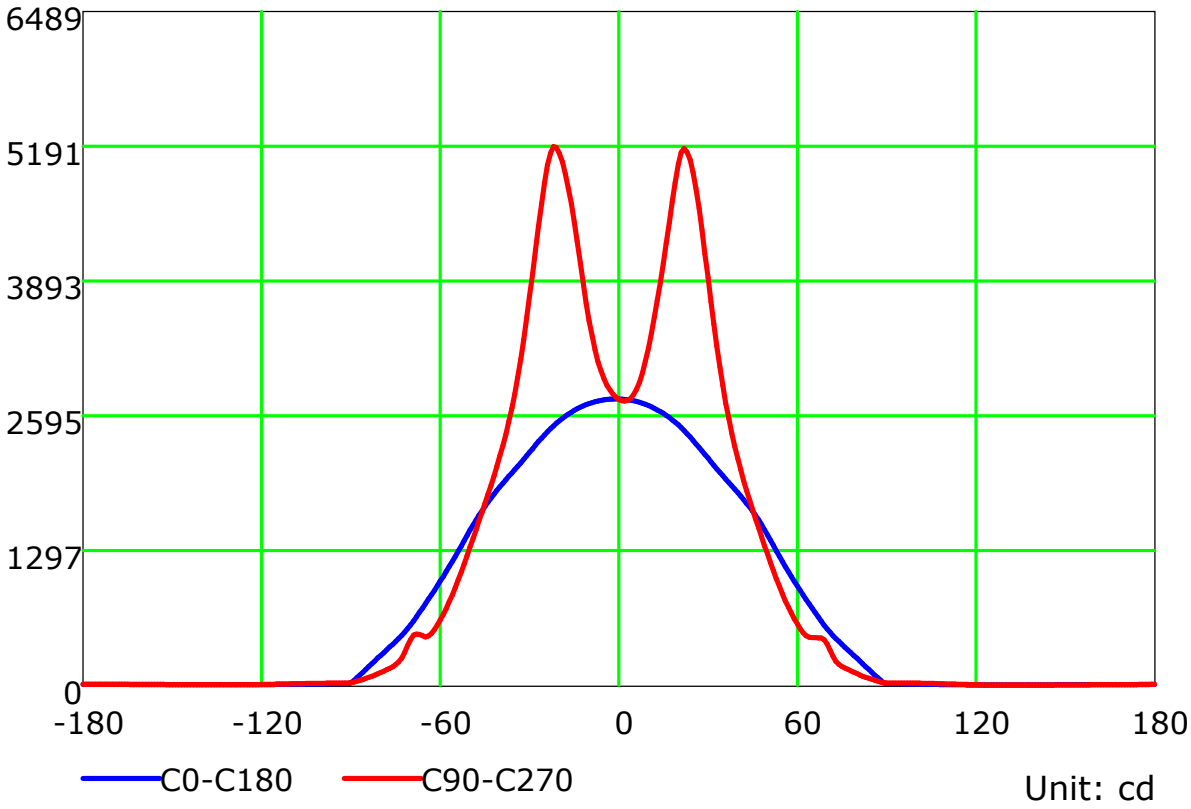
Luminous Intensity Distribution Curve





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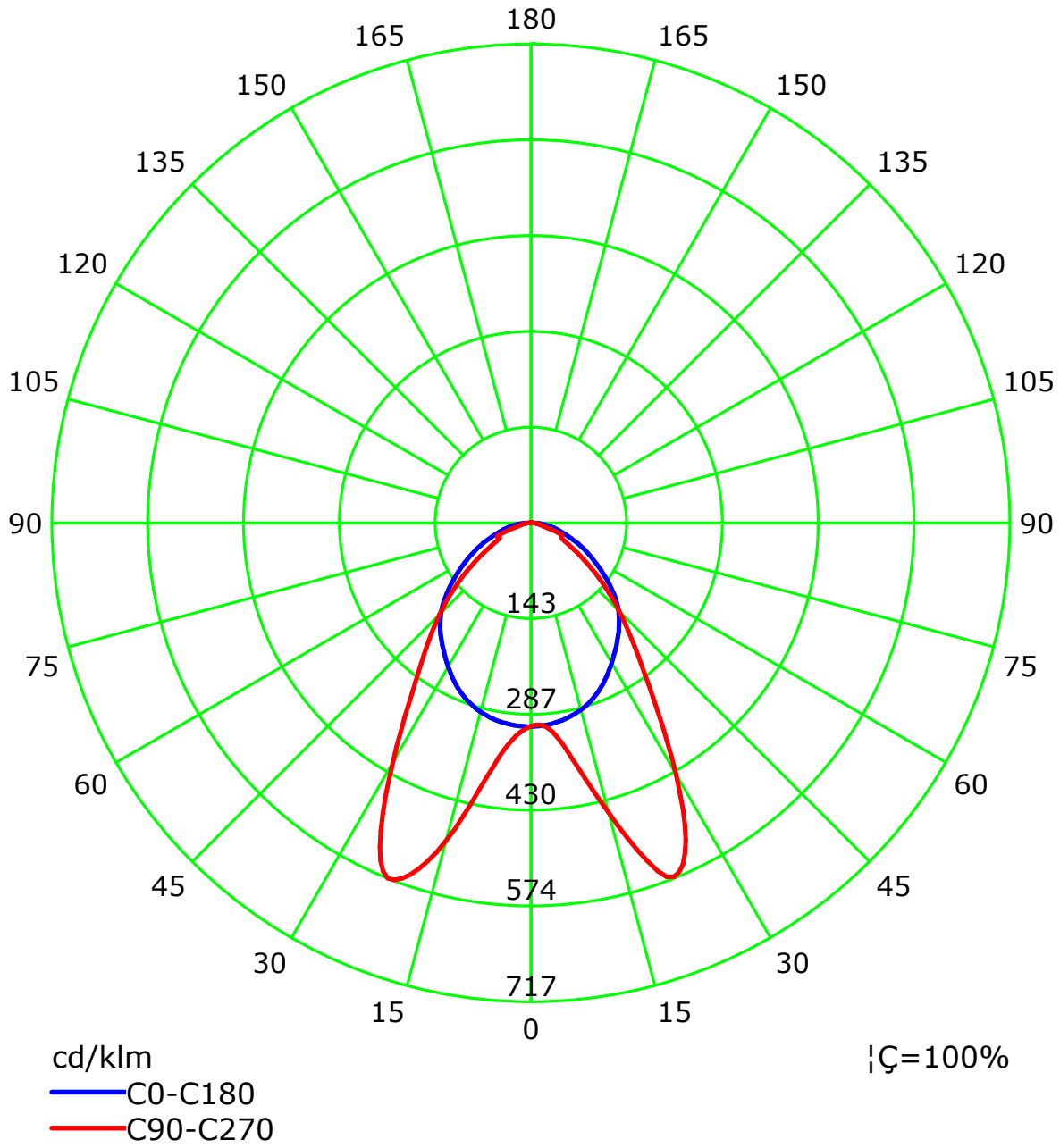
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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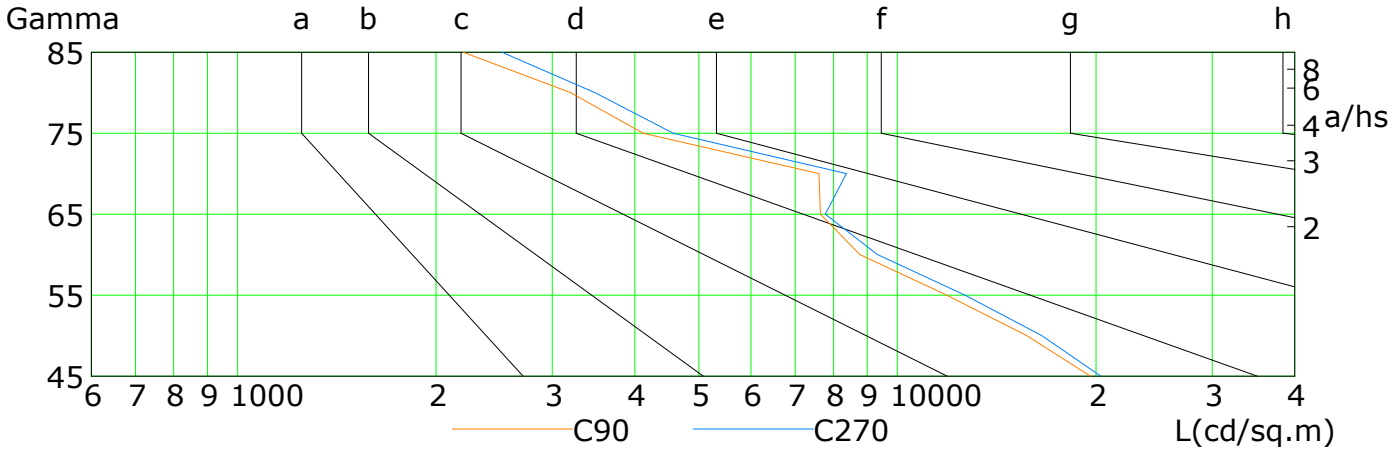
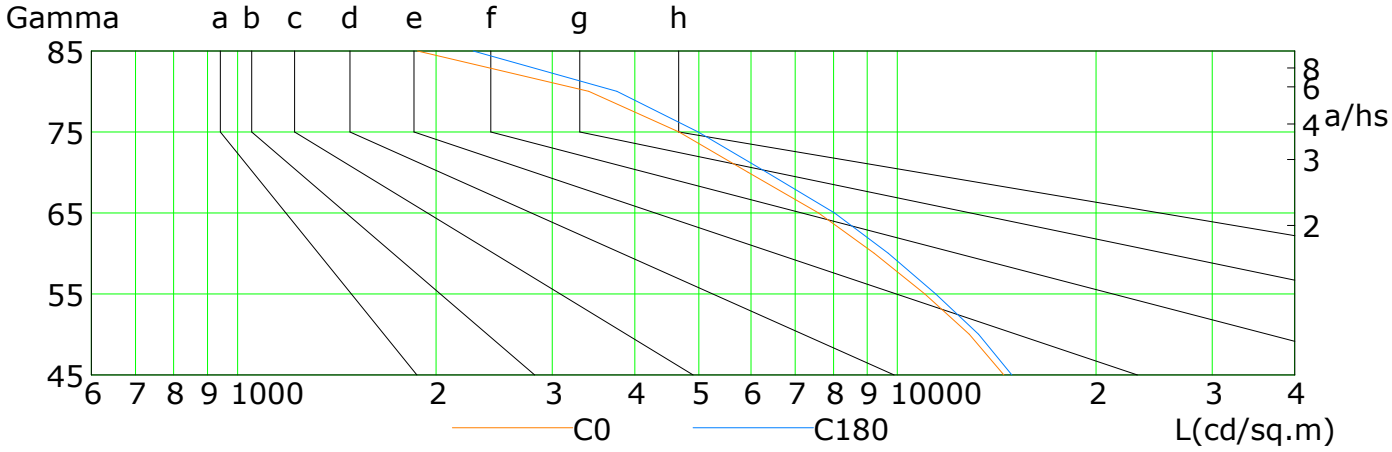
Lum Limit Curve

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	14502	12854	11009	9227	7595	5942	4667	3404	1874
C90	19628	15700	11886	8771	7648	7601	4117	3196	2199
C180	14907	13278	11424	9688	8027	6335	4991	3759	2276
C270	20350	16549	12673	9329	7771	8372	4574	3477	2515

C Plane (°):0.0-360.0: 22.5
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Test Device: LSG-1800B
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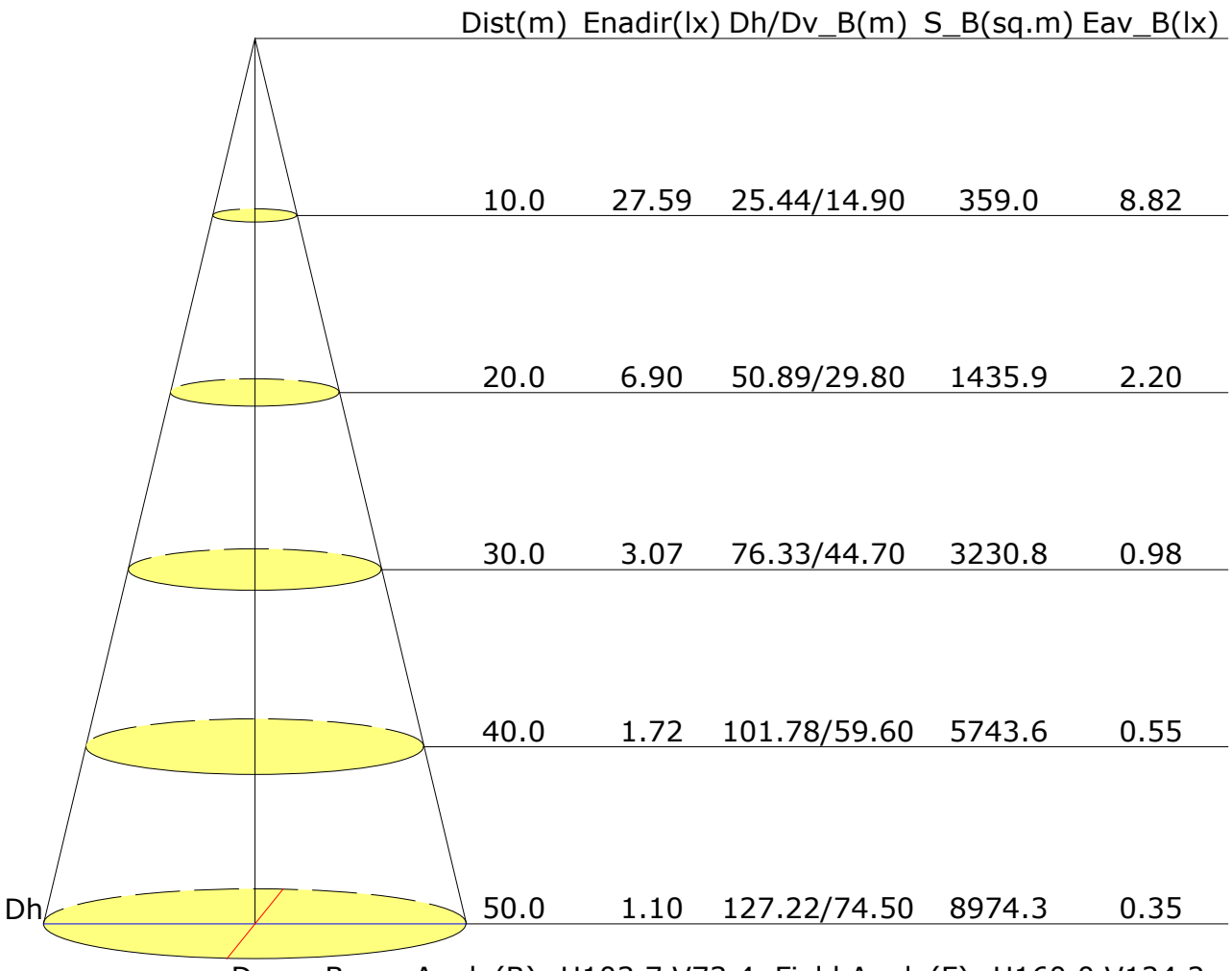
Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
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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	21.5	22.8	21.8	23.0	23.3	20.1	21.3	20.4	21.5	21.8
3H	22.1	23.2	22.4	23.5	23.8	20.7	21.8	21.0	22.1	22.4
4H	22.3	23.3	22.6	23.6	23.9	20.8	21.9	21.2	22.2	22.5
6H	22.4	23.4	22.8	23.7	24.0	20.9	21.9	21.3	22.2	22.5
8H	22.4	23.4	22.8	23.7	24.0	20.9	21.9	21.3	22.2	22.5
12H	22.4	23.3	22.8	23.7	24.0	20.9	21.8	21.3	22.2	22.5
X=4H Y=2H	21.6	22.6	21.9	22.9	23.2	20.3	21.3	20.6	21.6	21.9
3H	22.3	23.2	22.7	23.5	23.9	21.1	22.0	21.5	22.3	22.7
4H	22.6	23.4	23.0	23.7	24.1	21.3	22.1	21.7	22.5	22.9
6H	22.8	23.5	23.2	23.9	24.3	21.4	22.1	21.9	22.5	22.9
8H	22.9	23.5	23.3	23.9	24.4	21.5	22.1	21.9	22.5	23.0
12H	22.9	23.5	23.4	23.9	24.4	21.5	22.1	21.9	22.5	23.0
X=8H Y=4H	22.6	23.3	23.0	23.7	24.1	21.4	22.0	21.8	22.4	22.9
6H	22.9	23.4	23.4	23.9	24.3	21.6	22.1	22.0	22.5	23.0
8H	23.0	23.5	23.5	23.9	24.4	21.6	22.1	22.1	22.6	23.1
12H	23.1	23.5	23.6	24.0	24.5	21.7	22.1	22.2	22.6	23.1
X=12H Y=4H	22.6	23.2	23.0	23.6	24.0	21.4	22.0	21.8	22.4	22.8
6H	22.9	23.4	23.4	23.8	24.3	21.6	22.0	22.1	22.5	23.0
8H	23.0	23.4	23.5	23.9	24.4	21.7	22.1	22.2	22.6	23.1
Variations with the observer position at spacings:										
S=1.0H	+1.0/-0.9					+0.8/-0.8				
S=1.5H	+1.7/-1.7					+1.2/-2.2				
S=2.0H	+3.0/-2.3					+2.5/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 9043lm (8log(F/F0) = 7.7).

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
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Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50								
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	0.70	0.78	0.84	0.88	0.94	0.98	1.00	1.04	1.06
	0.30		0.64	0.71	0.78	0.83	0.89	0.93	0.97	1.01	1.03
	0.20		0.59	0.67	0.73	0.78	0.85	0.90	0.93	0.98	1.01
0.50	0.50	0.20	0.68	0.76	0.82	0.86	0.91	0.94	0.97	1.00	1.02
	0.30		0.63	0.70	0.76	0.81	0.87	0.91	0.94	0.97	1.00
	0.20		0.59	0.66	0.72	0.77	0.83	0.88	0.91	0.95	0.98
0.30	0.50	0.20	0.67	0.74	0.79	0.83	0.88	0.91	0.93	0.96	0.98
	0.30		0.62	0.69	0.75	0.79	0.85	0.88	0.91	0.94	0.96
	0.20		0.58	0.65	0.72	0.76	0.82	0.86	0.88	0.92	0.95
0.00	0.00	0.00	0.56	0.63	0.69	0.73	0.78	0.82	0.84	0.88	0.90

Rating:62W 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 (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
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Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50								
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	0.66	0.55	0.48	0.38	0.32	0.27	0.21	0.17
	0.30		0.66	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.19	0.15
0.50	0.50	0.20	0.76	0.63	0.53	0.45	0.36	0.33	0.25	0.20	0.16
	0.30		0.64	0.55	0.46	0.41	0.33	0.27	0.24	0.19	0.15
	0.20		0.56	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15
0.30	0.50	0.20	0.73	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15
	0.30		0.63	0.53	0.45	0.39	0.31	0.26	0.22	0.18	0.14
	0.20		0.55	0.47	0.41	0.36	0.29	0.25	0.21	0.17	0.14
0.00	0.00	0.00	0.43	0.36	0.30	0.26	0.21	0.17	0.15	0.12	0.10

Rating:62W 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 (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
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	0.18	0.20	0.20	0.21	0.21	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	0.19	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	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.30	0.50	0.20	0.14	0.16	0.16	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	0.18
	0.20		0.06	0.07	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:62W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980