Lisun Electronics Inc.
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Report No.: 1 Test Time: 18.11.2019 16:27

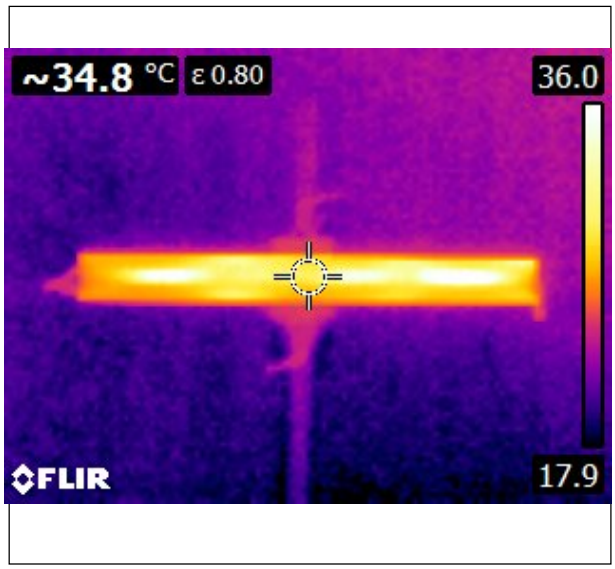
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FL 58_750 152LED 0,6A 36W 4000K microprisma
Luminous Length (mm): 750 Luminous Width (mm): 70
Luminous Height (mm): 65 Voltage: 221.4 V
Current: 0.177 A Power: 37.61 W
Power Factor: 0.959

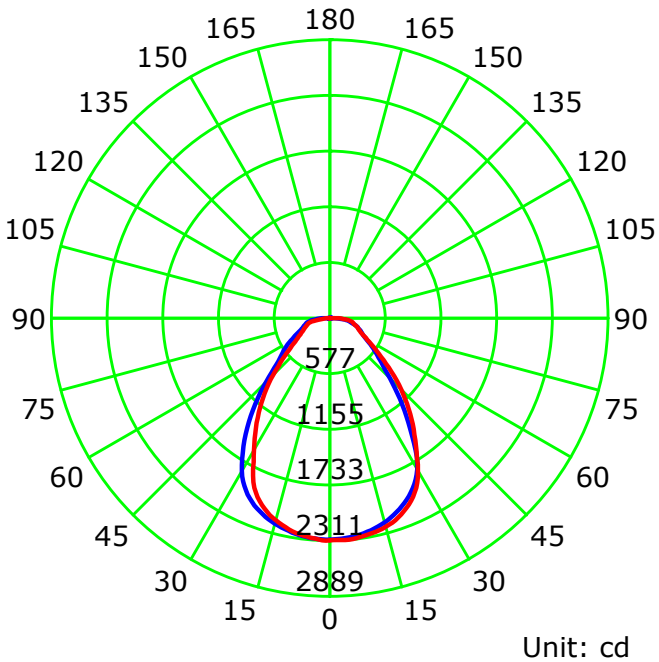
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 4638.5 lm
Measurement Flux: 4638.5 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.9, 156.6, 148.5, 148.9
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.9, 81.4, 79.6, 79.6
Luminaire Efficacy Rating (LER): 123.38 Central Intensity: 2298.59 cd
Max. Intensity: 2311.36 cd Pos of Max. Intensity: H112.5 V3
S/MH(C0/C180): 1.18 S/MH(C90/C270): 1.12

Termogramma



Luminous Intensity Distribution Curve



Unit: cd

C0-C180 C90-C270

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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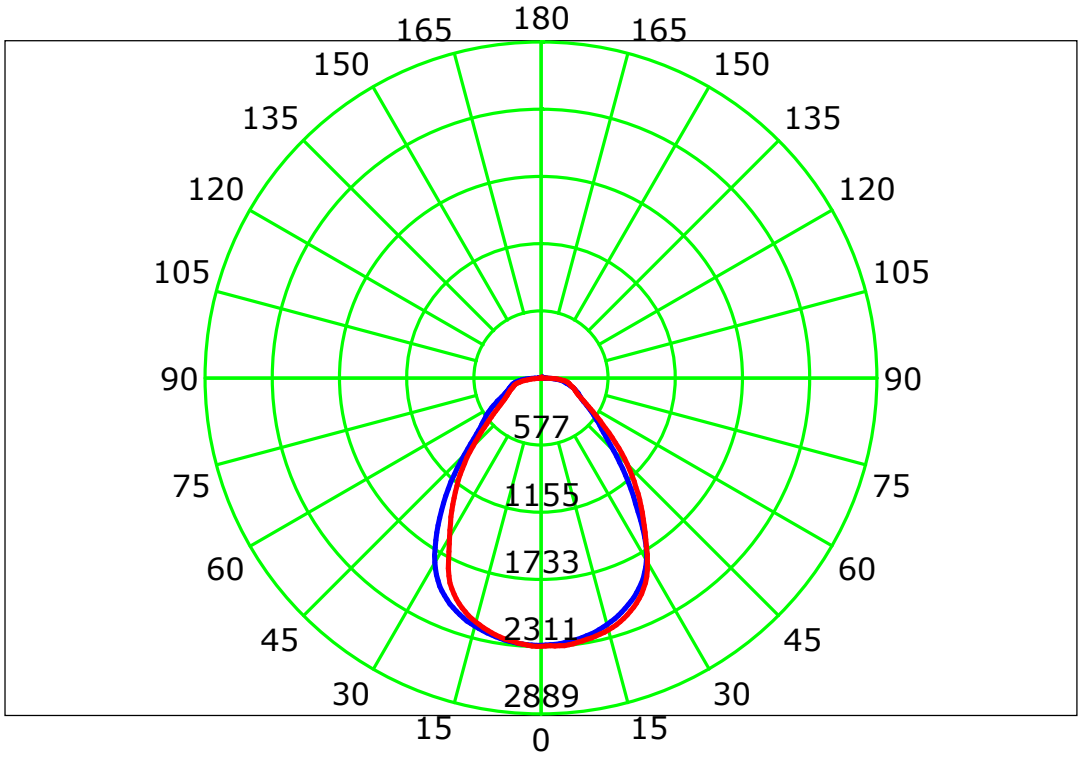
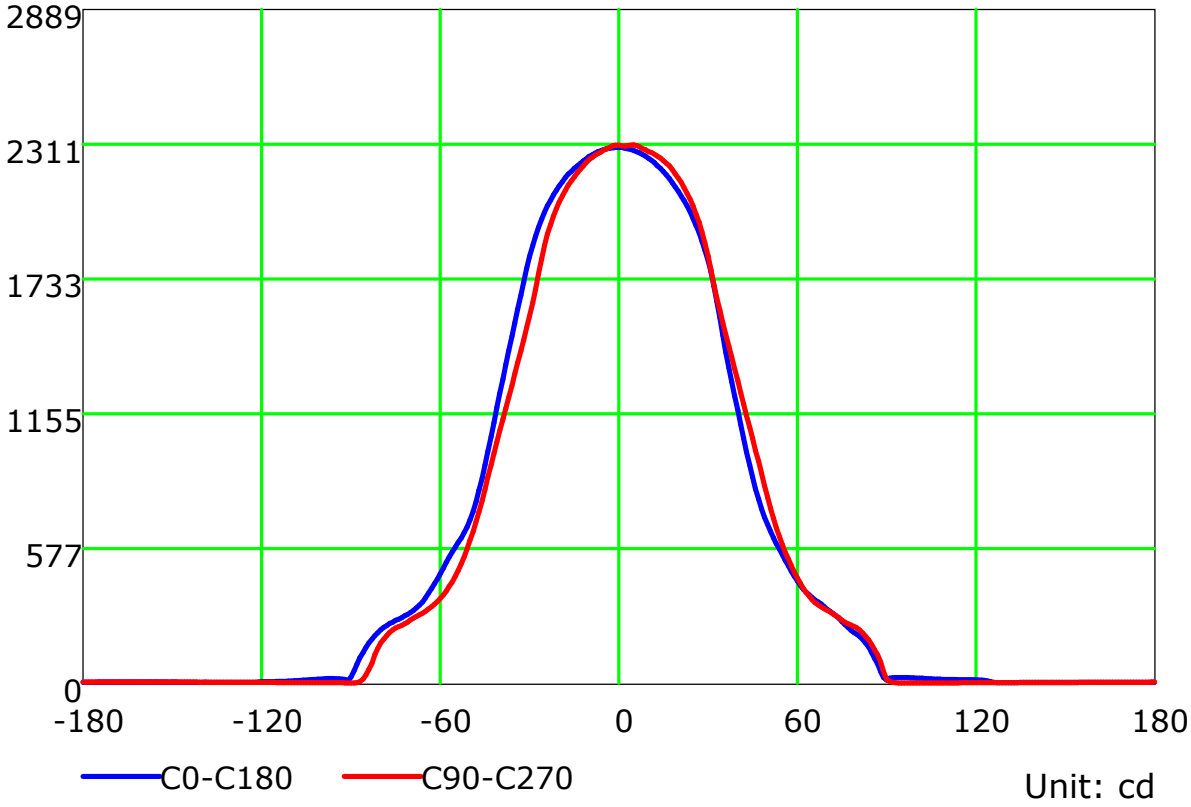
Luminous Intensity Distribution Curve

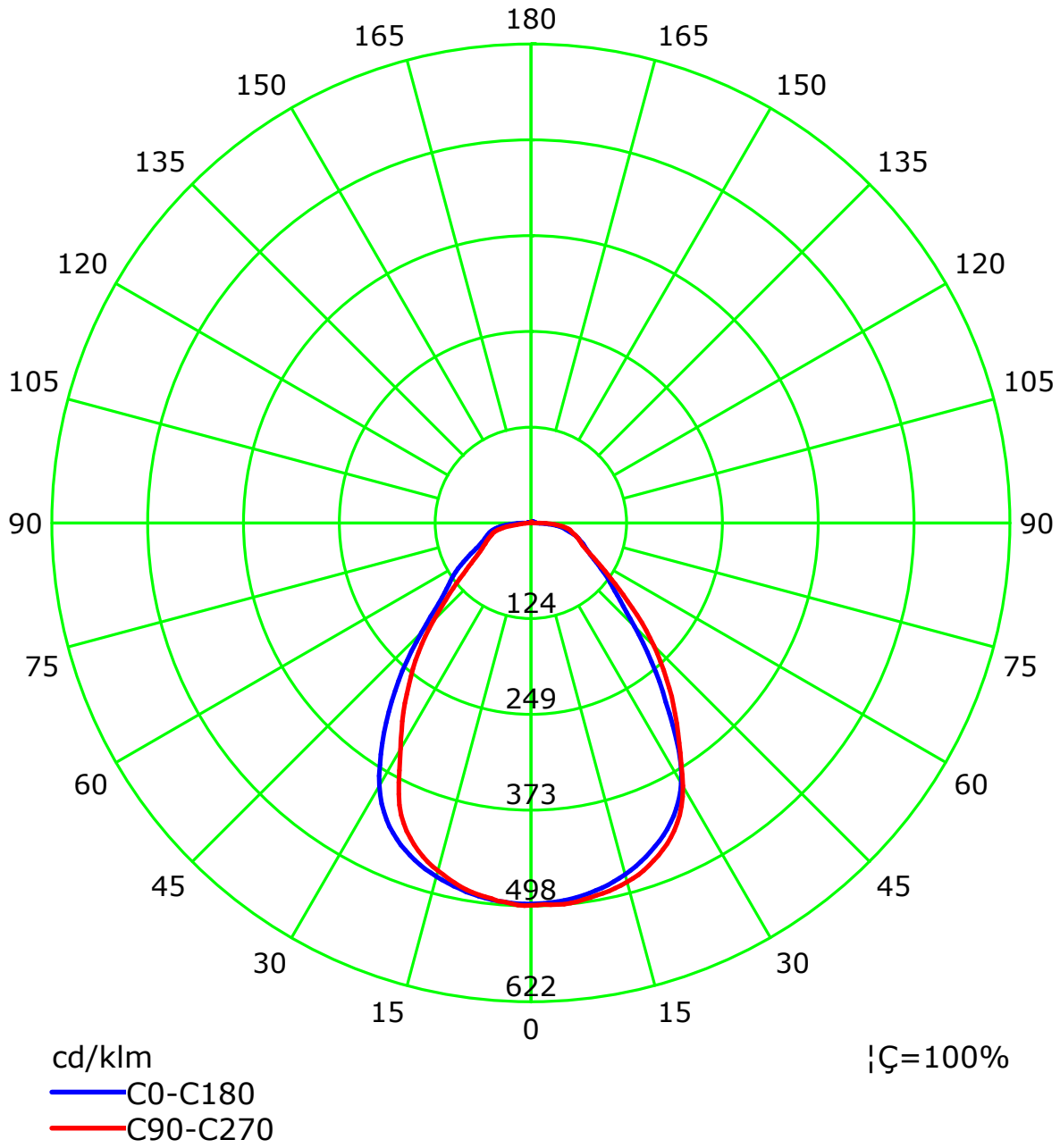




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



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

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

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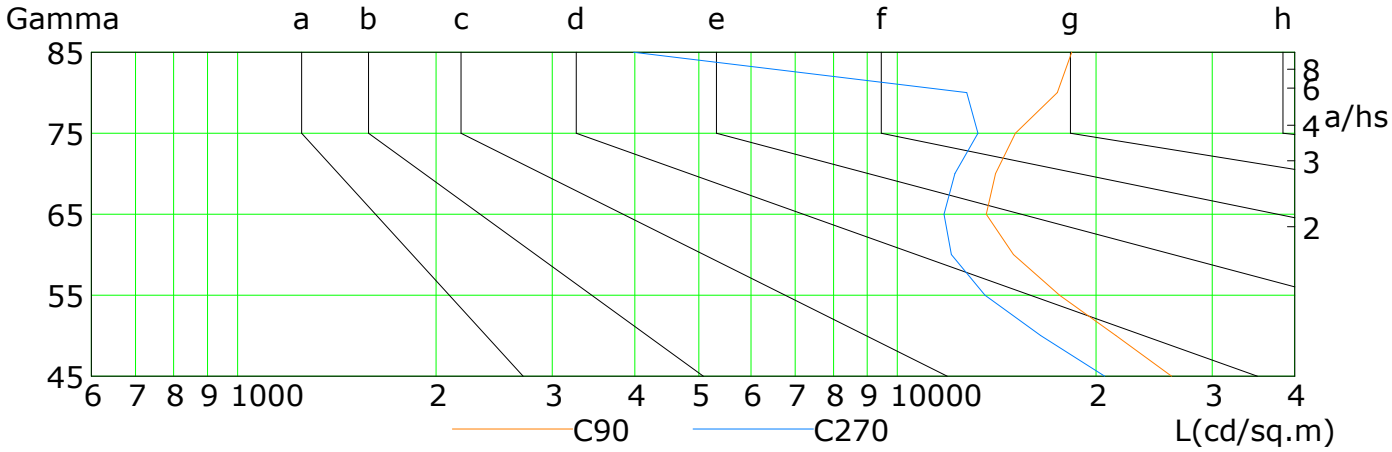
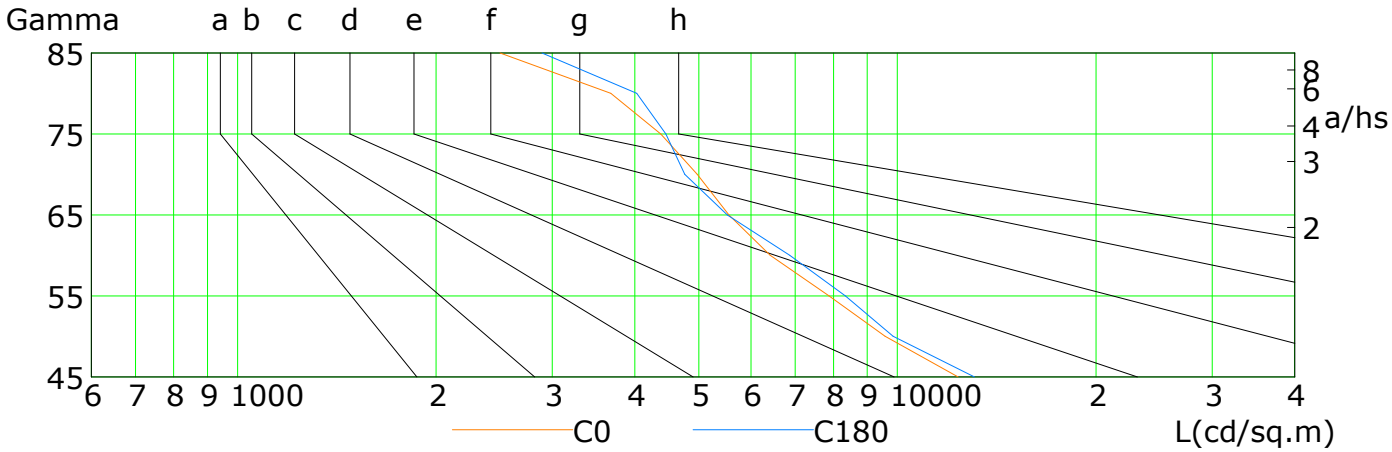
Lum Limit Curve

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	12359	9578	7881	6417	5552	4975	4381	3678	2498
C90	26036	21430	17601	14986	13641	14080	15099	17464	18366
C180	13082	9856	8343	6869	5527	4760	4458	4027	2893
C270	20624	16480	13576	12068	11772	12226	13244	12733	3984

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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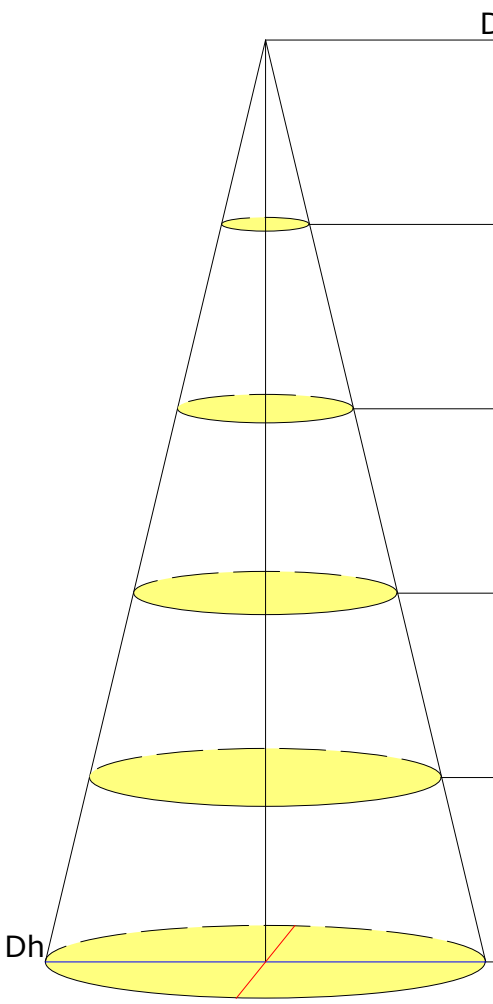
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	22.99	17.35/17.20	228.6	6.79
20.0	5.75	34.69/34.40	914.2	1.70
30.0	2.55	52.04/51.60	2057.0	0.75
40.0	1.44	69.39/68.80	3656.8	0.42
50.0	0.92	86.74/86.00	5713.8	0.27

Beam Angle(B): H81.9 V81.4 Field Angle(F): H157.9 V156.6

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:

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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	19.2	20.4	19.5	20.6	20.9	20.3	21.5	20.6	21.8	22.0
3H	20.1	21.3	20.5	21.5	21.8	21.5	22.6	21.8	22.9	23.2
4H	20.6	21.7	21.0	22.0	22.3	22.2	23.3	22.6	23.6	23.9
6H	21.0	22.0	21.4	22.3	22.7	23.0	24.0	23.4	24.3	24.7
8H	21.2	22.1	21.6	22.5	22.8	23.4	24.3	23.8	24.7	25.0
12H	21.3	22.2	21.7	22.6	22.9	23.6	24.6	24.0	24.9	25.3
X=4H Y=2H	19.5	20.6	19.9	20.9	21.2	20.5	21.6	20.9	21.9	22.2
3H	20.7	21.6	21.1	22.0	22.3	21.9	22.8	22.3	23.2	23.5
4H	21.3	22.2	21.8	22.5	22.9	22.8	23.6	23.2	24.0	24.4
6H	21.9	22.6	22.3	23.0	23.4	23.7	24.4	24.1	24.8	25.3
8H	22.1	22.8	22.6	23.2	23.6	24.1	24.8	24.6	25.2	25.7
12H	22.3	22.9	22.7	23.3	23.8	24.5	25.1	24.9	25.5	26.0
X=8H Y=4H	21.6	22.2	22.0	22.7	23.1	22.9	23.6	23.3	24.0	24.4
6H	22.2	22.8	22.7	23.2	23.7	23.9	24.5	24.4	24.9	25.4
8H	22.5	23.0	23.0	23.5	24.0	24.4	24.9	24.9	25.4	25.9
12H	22.8	23.2	23.3	23.7	24.2	24.8	25.2	25.3	25.7	26.3
X=12H Y=4H	21.6	22.2	22.1	22.6	23.1	22.9	23.5	23.4	23.9	24.4
6H	22.3	22.8	22.8	23.3	23.8	24.0	24.4	24.4	24.9	25.4
8H	22.6	23.0	23.1	23.5	24.1	24.5	24.9	25.0	25.4	25.9
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.5					+0.3/-0.4				
S=1.5H	+0.7/-1.0					+0.6/-0.7				
S=2.0H	+1.4/-1.4					+1.3/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 4639lm (8log(F/F0) = 5.3).

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:

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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	0.63	0.72	0.79	0.84	0.90	0.94	0.98	1.02	1.04
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.93	0.98	1.01
	0.20		0.51	0.60	0.67	0.72	0.80	0.85	0.89	0.94	0.98
0.50	0.50	0.20	0.61	0.70	0.76	0.81	0.87	0.91	0.94	0.97	1.00
	0.30		0.55	0.64	0.71	0.75	0.82	0.87	0.90	0.94	0.97
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.87	0.92	0.95
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.84	0.88	0.90	0.94	0.96
	0.30		0.54	0.63	0.69	0.74	0.80	0.84	0.87	0.91	0.94
	0.20		0.50	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92
0.00	0.00	0.00	0.48	0.56	0.62	0.67	0.73	0.77	0.80	0.84	0.87

Rating:38W 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:

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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	0.90	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.20
	0.30		0.75	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19
	0.20		0.64	0.55	0.49	0.44	0.36	0.31	0.27	0.22	0.18
0.50	0.50	0.20	0.87	0.71	0.60	0.53	0.42	0.38	0.30	0.23	0.19
	0.30		0.73	0.62	0.53	0.47	0.38	0.32	0.28	0.22	0.18
	0.20		0.64	0.54	0.48	0.43	0.35	0.30	0.26	0.21	0.18
0.30	0.50	0.20	0.84	0.68	0.58	0.50	0.40	0.33	0.28	0.22	0.18
	0.30		0.71	0.60	0.52	0.46	0.37	0.31	0.27	0.21	0.17
	0.20		0.63	0.53	0.47	0.42	0.34	0.29	0.25	0.20	0.17
0.00	0.00	0.00	0.52	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.13

Rating:38W 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 = 1.00								
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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	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	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.16	0.17	0.18	0.19	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	0.10	0.12	0.14	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21
	0.30		0.10	0.12	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	0.13	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:38W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980