Lisun Electronics Inc.
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Report No.: Test Time: 23.10.2020 11:40

Luminaire Property

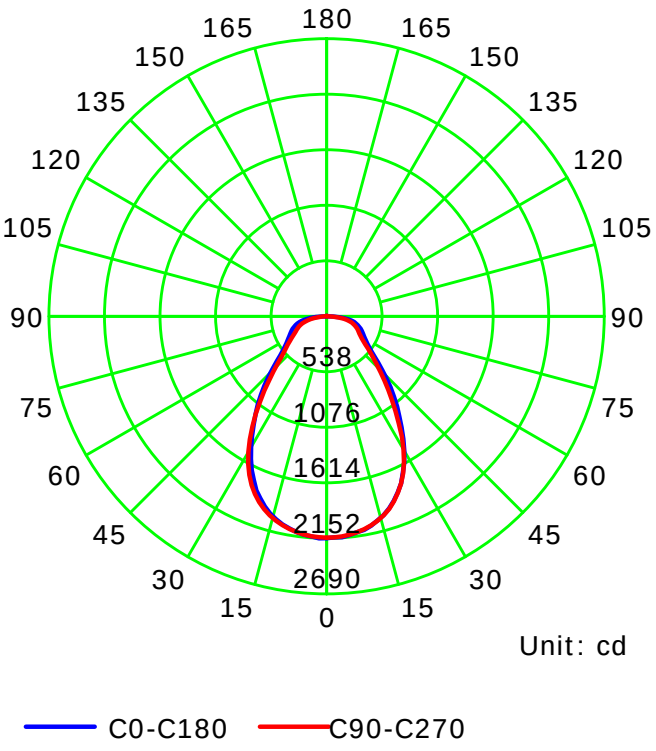
Luminaire Manufacturer:
Luminaire Description: FG 250 40LED 35W 4000K microprisma ШИМ
Luminous Length (mm): 270 Luminous Width (mm): 270
Luminous Height (mm): 70 Voltage: 221.4 V
Current: 0.164 A Power: 35.41 W
Power Factor: 0.975

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 4043.6 lm
Measurement Flux: 4043.6 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.0, 155.1, 151.3, 151.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.9, 74.8, 73.8, 73.7
Luminaire Efficacy Rating (LER): 114.24 Central Intensity: 2150.15 cd
Max. Intensity: 2152.33 cd Pos of Max. Intensity: H180 V2
S/MH(C0/C180): 1.07 S/MH(C90/C270): 1.09

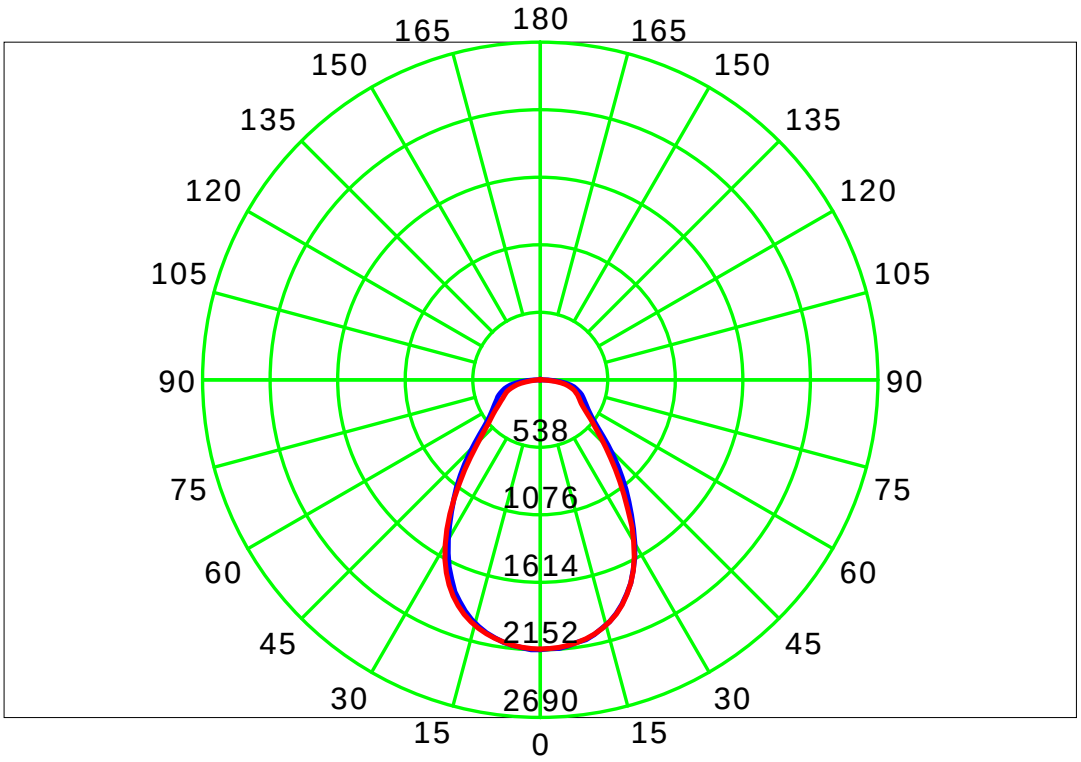
Termogramma

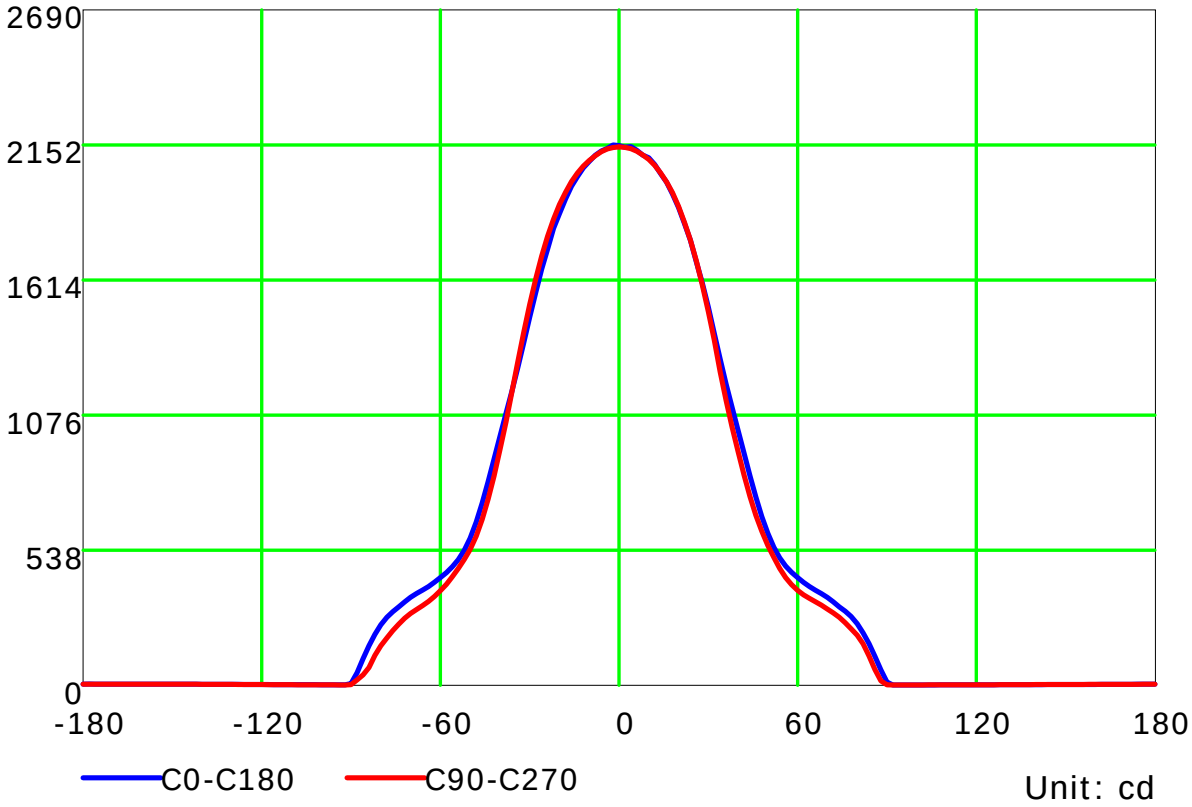
Luminous Intensity Distribution Curve



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: 12.682 m
Temperature: Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve





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Test Device: LSG-1800B
Distance: 12.682 m
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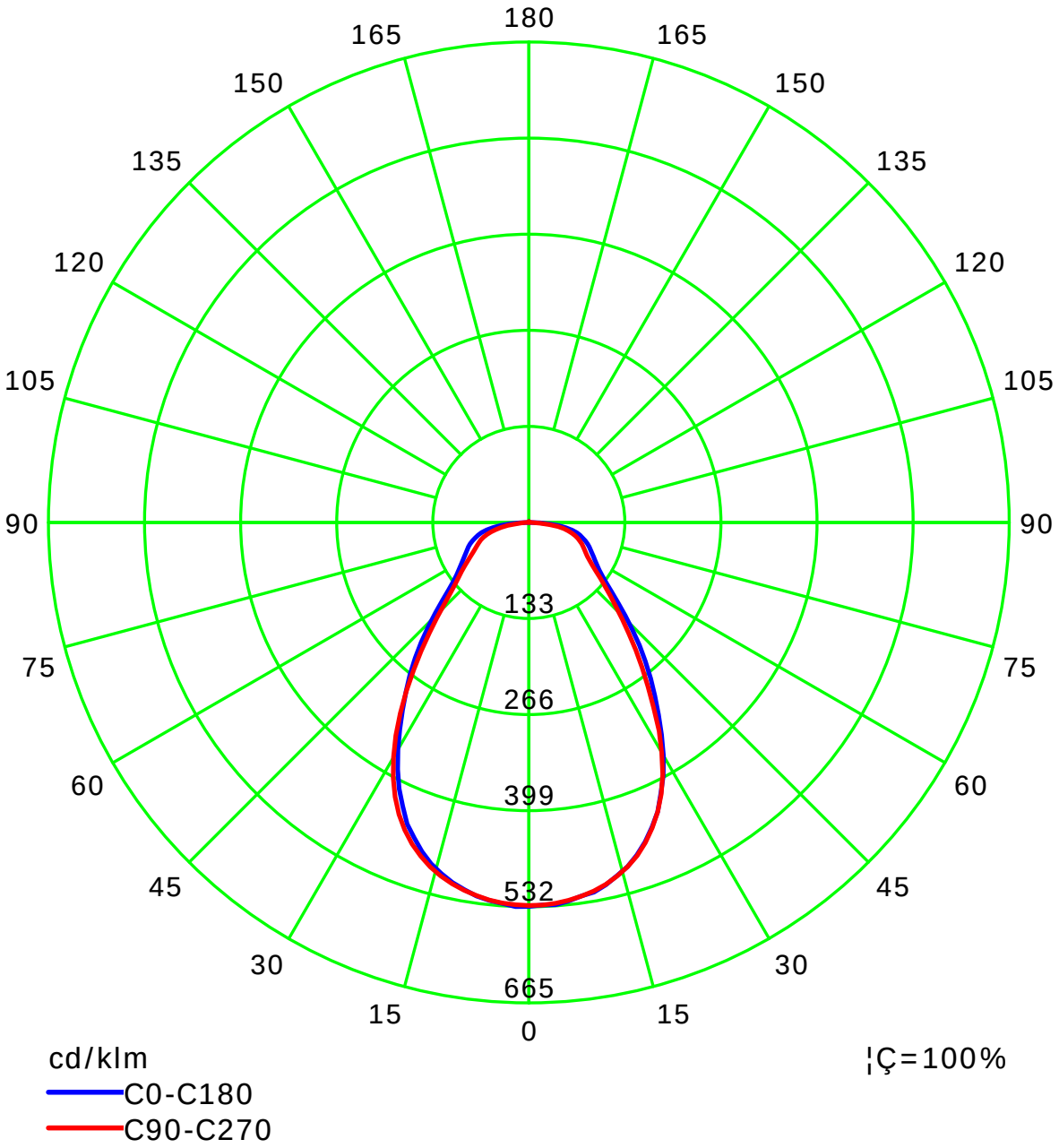
Luminous Intensity Distribution Curve(cd/klm)



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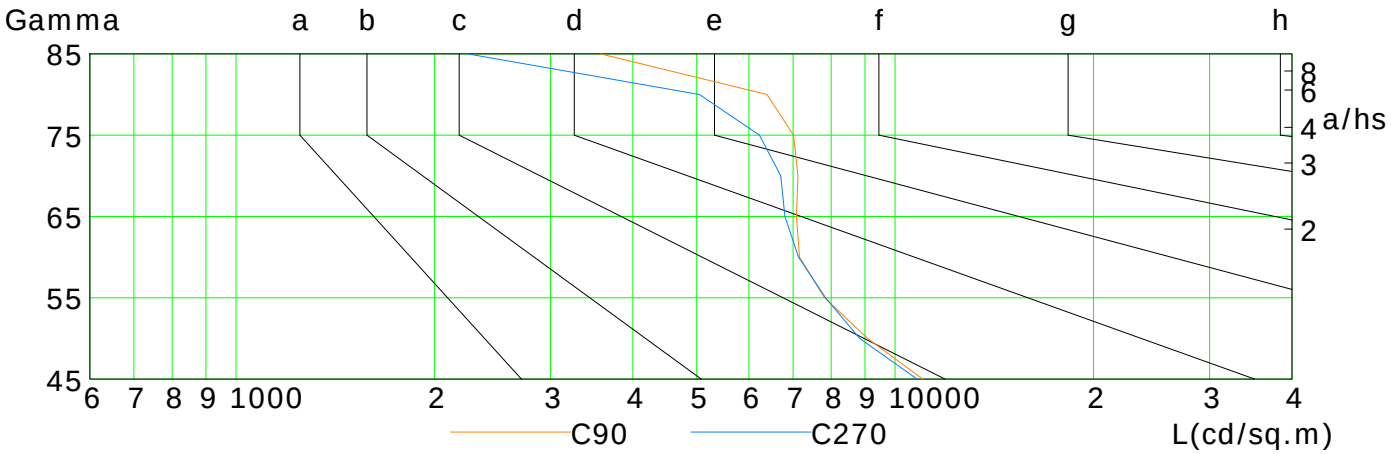
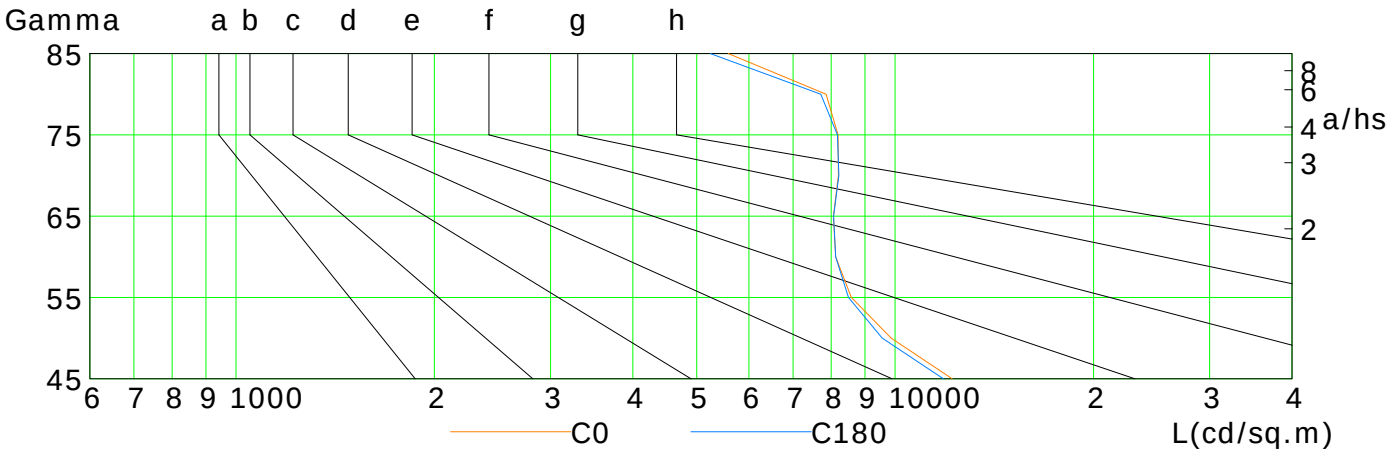
Lum Limit Curve

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	12206	9864	8583	8125	8059	8202	8191	7856	5584
C90	11015	9079	7810	7159	7085	7118	7012	6393	3572
C180	11837	9559	8495	8125	8065	8216	8172	7712	5244
C270	10799	8834	7844	7134	6806	6708	6224	5048	2246

C Plane (°):0.0-360.0: 22.5
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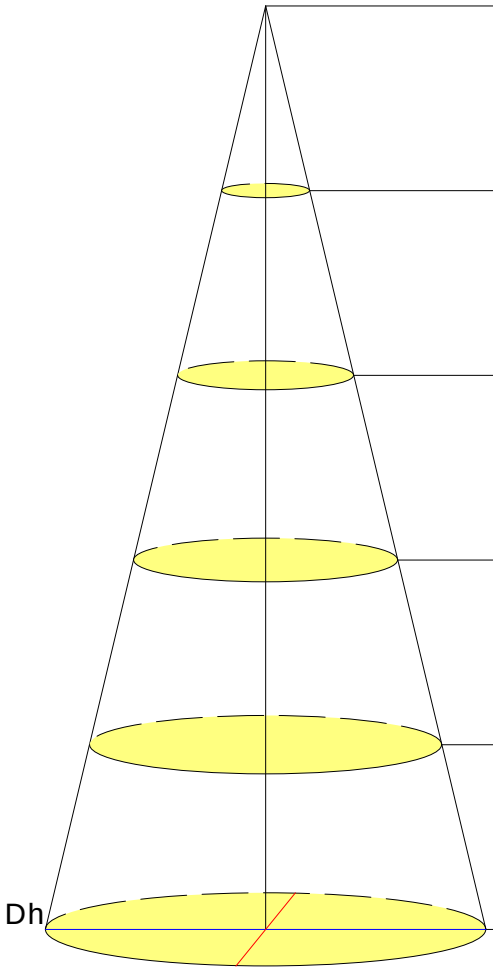
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	21.50	15.87/15.29	184.1	10.02
20.0	5.38	31.74/30.59	736.4	2.51
30.0	2.39	47.60/45.88	1656.8	1.11
40.0	1.34	63.47/61.17	2945.4	0.63
50.0	0.86	79.34/76.46	4602.3	0.40

Beam Angle(B): H76.9 V74.8 Field Angle(F): H163.0 V155.1

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Test Device: LSG-1800B
Distance: 12.682 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	19.1	20.4	19.4	20.6	20.8	18.7	19.9	19.0	20.2	20.4
3H	20.8	21.9	21.1	22.2	22.5	20.1	21.3	20.4	21.5	21.8
4H	21.6	22.7	22.0	23.0	23.3	20.9	21.9	21.2	22.2	22.5
6H	22.5	23.5	22.9	23.8	24.1	21.5	22.5	21.8	22.8	23.1
8H	22.8	23.8	23.2	24.1	24.5	21.7	22.7	22.0	23.0	23.3
12H	23.0	24.0	23.4	24.3	24.7	21.8	22.7	22.1	23.0	23.4
X=4H Y=2H	19.5	20.6	19.9	20.9	21.2	19.2	20.2	19.5	20.5	20.8
3H	21.4	22.3	21.8	22.7	23.0	20.8	21.8	21.2	22.1	22.4
4H	22.5	23.3	22.9	23.7	24.0	21.7	22.5	22.1	22.9	23.3
6H	23.5	24.2	23.9	24.6	25.0	22.5	23.2	22.9	23.6	24.0
8H	23.9	24.6	24.3	25.0	25.4	22.7	23.4	23.2	23.8	24.2
12H	24.2	24.8	24.6	25.2	25.7	22.8	23.5	23.3	23.9	24.4
X=8H Y=4H	22.7	23.4	23.1	23.8	24.2	22.0	22.7	22.4	23.1	23.5
6H	23.9	24.4	24.3	24.9	25.3	22.9	23.4	23.4	23.9	24.4
8H	24.4	24.9	24.9	25.3	25.8	23.2	23.7	23.7	24.2	24.7
12H	24.8	25.2	25.3	25.7	26.2	23.4	23.8	23.9	24.3	24.8
X=12H Y=4H	22.7	23.3	23.2	23.7	24.2	22.1	22.7	22.5	23.1	23.6
6H	23.9	24.4	24.4	24.9	25.4	23.0	23.5	23.5	23.9	24.4
8H	24.4	24.9	24.9	25.4	25.9	23.3	23.8	23.8	24.2	24.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.5					+0.4/-0.7				
S=2.0H	+0.7/-0.8					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4044lm (8log(F/F0) = 4.9).

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: 12.682 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	0.63	0.72	0.78	0.83	0.90	0.94	0.97	1.01	1.04
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.92	0.97	1.01
	0.20		0.51	0.60	0.66	0.71	0.79	0.84	0.88	0.94	0.98
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.91	0.93	0.97	1.00
	0.30		0.55	0.64	0.70	0.75	0.82	0.86	0.89	0.94	0.97
	0.20		0.50	0.59	0.65	0.70	0.77	0.82	0.86	0.91	0.94
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.83	0.87	0.90	0.94	0.96
	0.30		0.54	0.63	0.69	0.73	0.79	0.84	0.87	0.91	0.94
	0.20		0.50	0.58	0.65	0.69	0.76	0.80	0.84	0.89	0.91
0.00	0.00	0.00	0.48	0.56	0.62	0.66	0.72	0.77	0.80	0.84	0.87

Rating:35W 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: 12.682 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	0.90	0.75	0.64	0.56	0.45	0.38	0.33	0.25	0.21
	0.30		0.75	0.64	0.56	0.50	0.41	0.35	0.30	0.24	0.20
	0.20		0.65	0.56	0.50	0.45	0.37	0.32	0.28	0.23	0.19
0.50	0.50	0.20	0.87	0.72	0.61	0.54	0.43	0.39	0.31	0.24	0.20
	0.30		0.74	0.62	0.54	0.48	0.39	0.33	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
0.30	0.50	0.20	0.84	0.69	0.59	0.51	0.41	0.34	0.29	0.23	0.19
	0.30		0.72	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18
	0.20		0.63	0.54	0.48	0.43	0.35	0.30	0.26	0.21	0.17
0.00	0.00	0.00	0.52	0.44	0.38	0.34	0.28	0.23	0.20	0.16	0.13

Rating:35W 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: 12.682 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	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.50	0.50	0.20	0.15	0.17	0.18	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		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	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		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Rating:35W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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