Lisun Electronics Inc.
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Report No.: Test Time: 23.10.2020 16:47

Luminaire Property

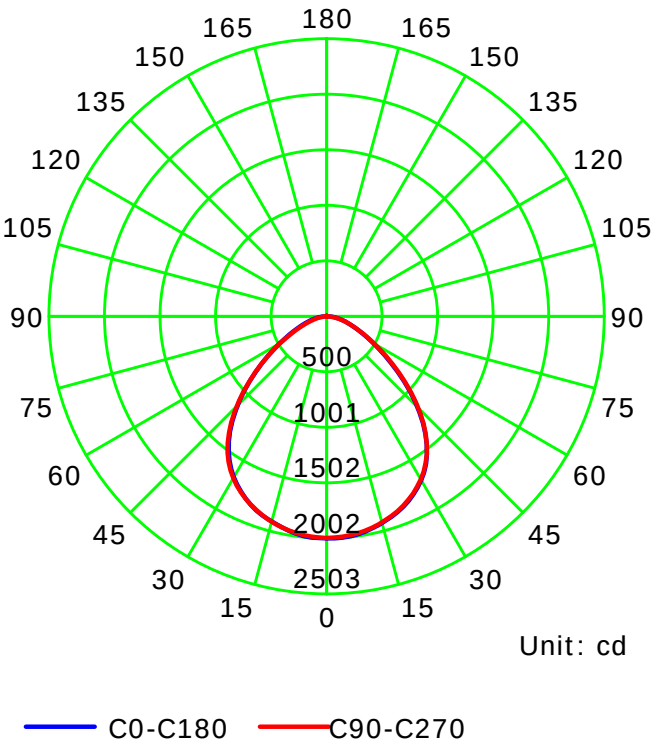
Luminaire Manufacturer:
Luminaire Description: FG 250 40LED 35W 4000K frozen ШИМ
Luminous Length (mm): 270 Luminous Width (mm): 270
Luminous Height (mm): 70 Voltage: 221.4 V
Current: 0.163 A Power: 35.21 W
Power Factor: 0.973

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 4624.8 lm
Measurement Flux: 4624.8 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 144.7, 143.1, 144.5, 144.8
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 96.1, 96.6, 97.6, 97.2
Luminaire Efficacy Rating (LER): 131.40 Central Intensity: 2002.48 cd
Max. Intensity: 2002.95 cd Pos of Max. Intensity: H0 V2
S/MH(C0/C180): 1.25 S/MH(C90/C270): 1.25

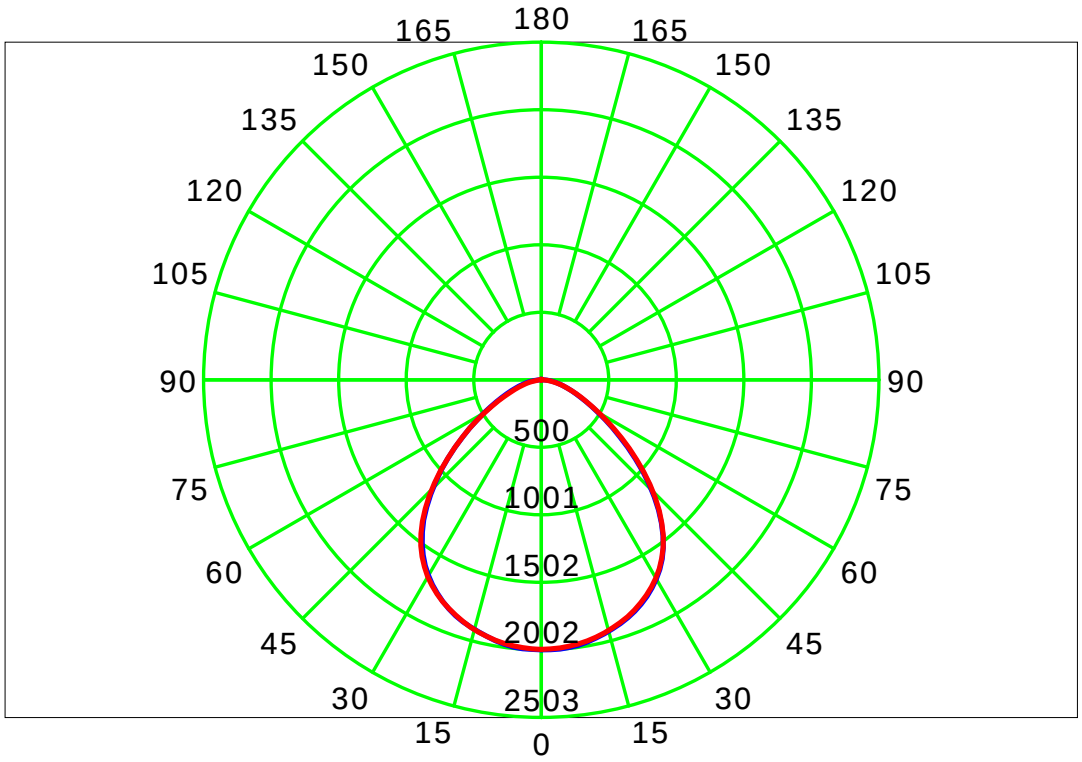
Termogramma

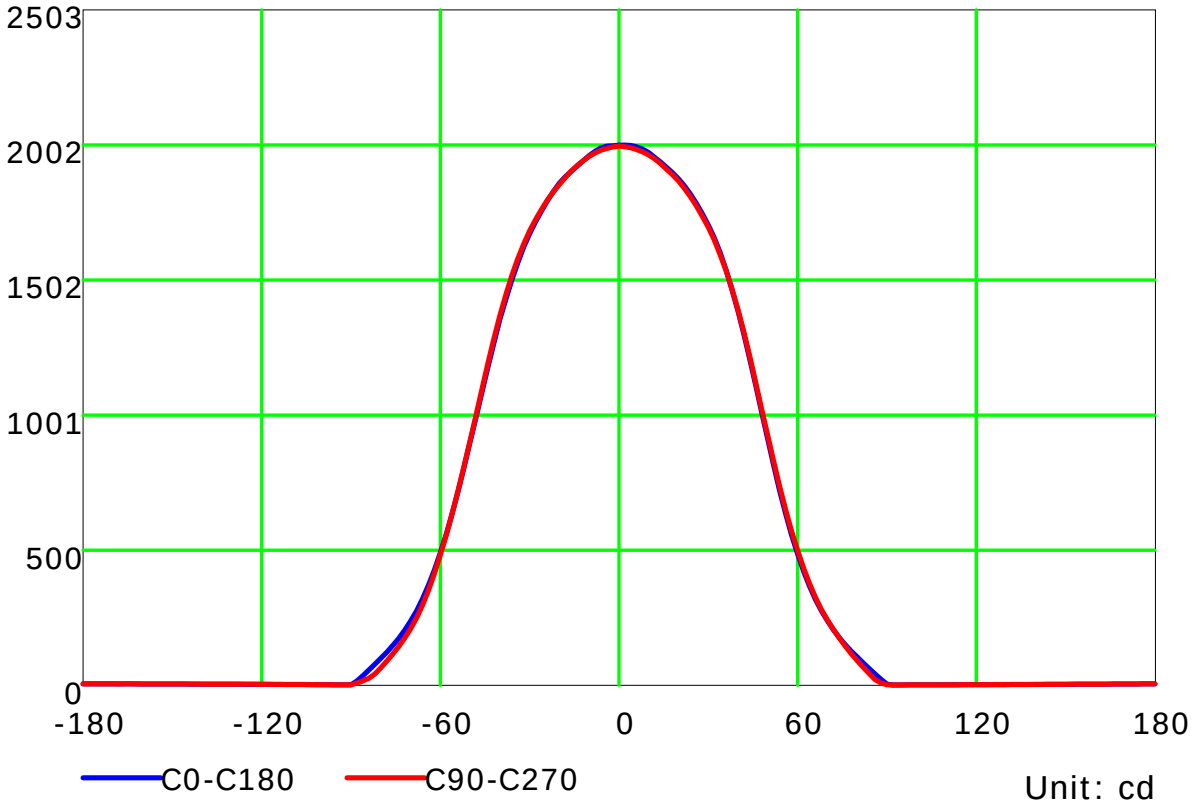
Luminous Intensity Distribution Curve



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 Lab:
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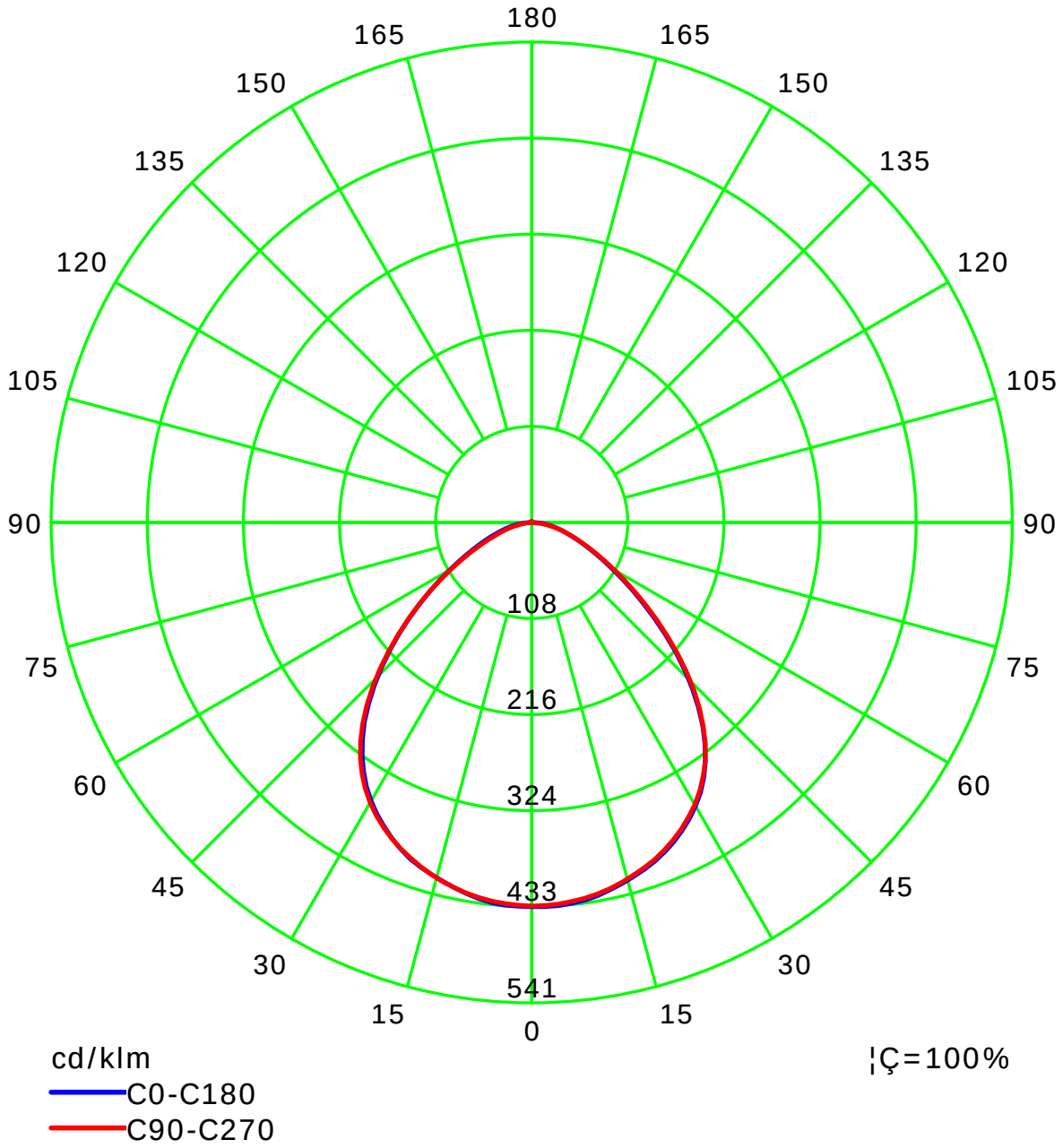
Distance: 12.682 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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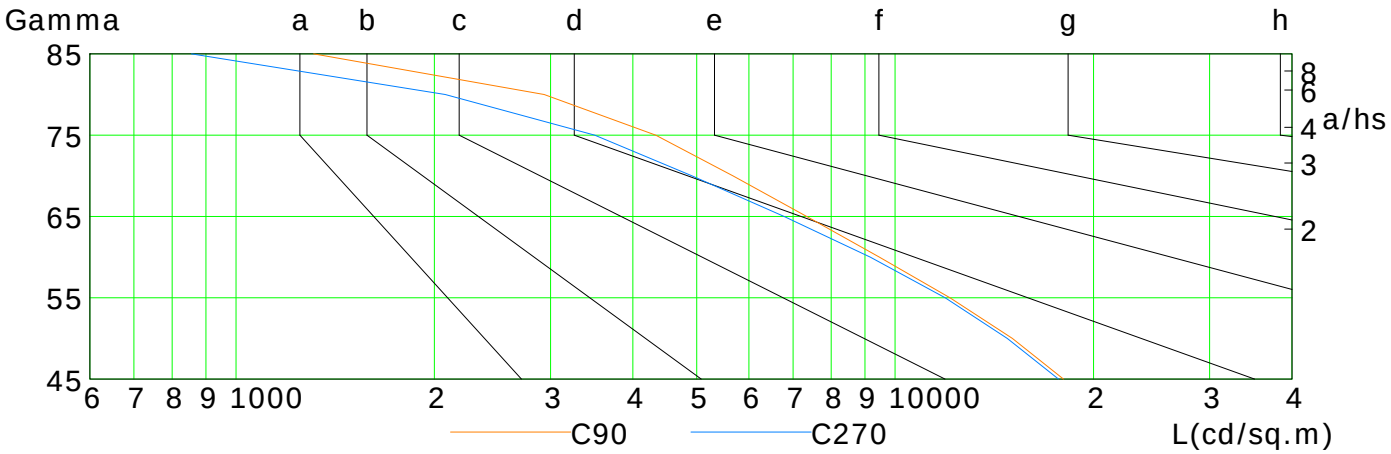
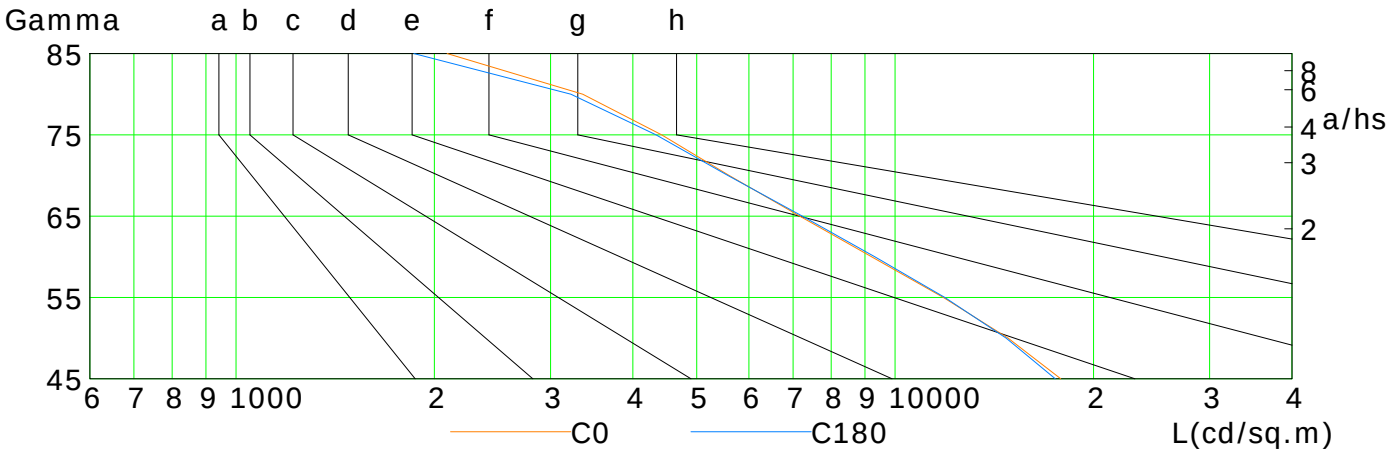
Lum Limit Curve

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	17833	14839	11837	9215	7168	5601	4424	3359	2091
C90	18001	15062	12112	9464	7344	5675	4333	2935	1312
C180	17499	14740	11893	9316	7230	5576	4338	3222	1861
C270	17695	14798	11908	9169	6786	4917	3501	2077	856

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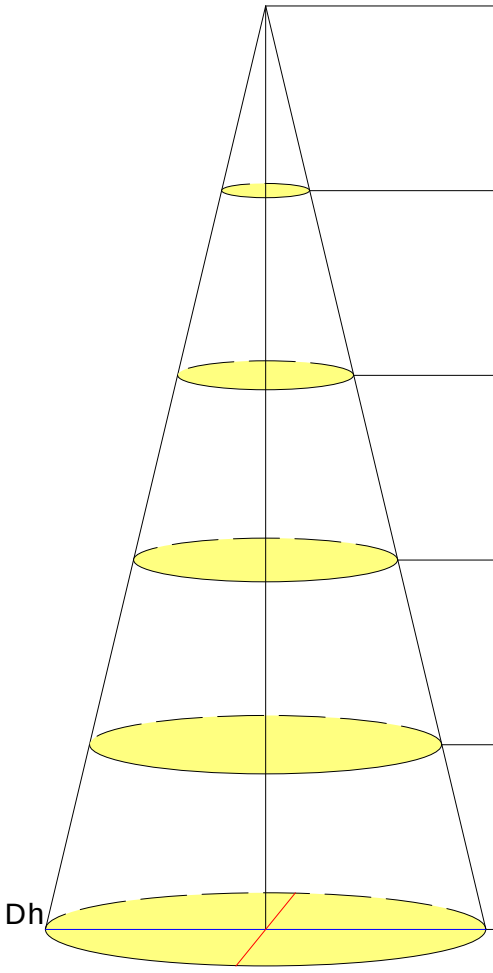
Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	20.02	22.23/22.43	398.6	5.95
20.0	5.01	44.47/44.86	1594.6	1.49
30.0	2.22	66.70/67.29	3587.8	0.66
40.0	1.25	88.94/89.72	6378.2	0.37
50.0	0.80	111.17/112.15	9966.0	0.24

Beam Angle(B): H96.1 V96.6 Field Angle(F): H144.7 V143.1

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Distance: 12.682 m
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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	20.6	21.9	20.9	22.1	22.4	20.7	22.0	21.0	22.2	22.4
3H	21.2	22.4	21.5	22.6	22.9	21.2	22.4	21.5	22.6	22.9
4H	21.4	22.5	21.8	22.8	23.1	21.4	22.4	21.7	22.7	23.0
6H	21.5	22.5	21.9	22.8	23.2	21.4	22.4	21.8	22.7	23.1
8H	21.6	22.5	22.0	22.9	23.2	21.4	22.4	21.8	22.7	23.0
12H	21.6	22.5	22.0	22.8	23.2	21.4	22.3	21.8	22.7	23.0
X=4H Y=2H	20.9	22.0	21.2	22.3	22.6	20.9	22.0	21.3	22.3	22.6
3H	21.6	22.5	22.0	22.9	23.2	21.6	22.5	22.0	22.8	23.2
4H	21.9	22.7	22.3	23.1	23.4	21.8	22.6	22.2	23.0	23.4
6H	22.1	22.8	22.5	23.2	23.6	22.0	22.7	22.4	23.1	23.5
8H	22.2	22.8	22.6	23.2	23.7	22.0	22.6	22.4	23.0	23.5
12H	22.2	22.8	22.7	23.2	23.7	22.0	22.6	22.4	23.0	23.4
X=8H Y=4H	21.9	22.6	22.4	23.0	23.4	21.9	22.5	22.3	23.0	23.4
6H	22.2	22.8	22.7	23.2	23.7	22.1	22.6	22.6	23.1	23.5
8H	22.4	22.8	22.8	23.3	23.8	22.1	22.6	22.6	23.1	23.6
12H	22.4	22.8	22.9	23.3	23.8	22.2	22.6	22.7	23.0	23.5
X=12H Y=4H	21.9	22.5	22.4	22.9	23.4	21.9	22.5	22.3	22.9	23.3
6H	22.2	22.7	22.7	23.2	23.7	22.1	22.6	22.6	23.0	23.5
8H	22.4	22.8	22.9	23.3	23.8	22.2	22.6	22.7	23.0	23.5
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.4/-0.6				
S=1.5H	+0.8/-1.5					+0.8/-1.6				
S=2.0H	+1.8/-2.3					+1.8/-2.6				

Calculate in accordance with CIE Pub.117. The table is revised with 4625lm (8log(F/F0) = 5.3).

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

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.682 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	0.63	0.74	0.81	0.85	0.92	0.96	0.99	1.03	1.06
	0.30		0.56	0.67	0.74	0.79	0.87	0.91	0.95	1.00	1.03
	0.20		0.51	0.62	0.69	0.75	0.82	0.87	0.91	0.97	1.00
0.50	0.50	0.20	0.62	0.72	0.78	0.83	0.89	0.93	0.96	0.99	1.01
	0.30		0.56	0.66	0.73	0.78	0.84	0.89	0.92	0.96	0.99
	0.20		0.51	0.61	0.68	0.73	0.80	0.85	0.89	0.94	0.97
0.30	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.92	0.95	0.97
	0.30		0.55	0.65	0.71	0.76	0.82	0.86	0.89	0.93	0.96
	0.20		0.51	0.60	0.67	0.72	0.79	0.83	0.87	0.91	0.94
0.00	0.00	0.00	0.48	0.58	0.65	0.69	0.76	0.80	0.83	0.87	0.89

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 = 1.25				
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	0.89	0.72	0.61	0.53	0.42	0.34	0.29	0.23	0.18
	0.30		0.75	0.62	0.53	0.47	0.38	0.31	0.27	0.21	0.18
	0.20		0.64	0.54	0.47	0.42	0.34	0.29	0.25	0.20	0.17
0.50	0.50	0.20	0.86	0.69	0.58	0.50	0.39	0.36	0.28	0.21	0.17
	0.30		0.73	0.60	0.51	0.45	0.36	0.30	0.26	0.20	0.17
	0.20		0.63	0.53	0.46	0.41	0.33	0.28	0.24	0.19	0.16
0.30	0.50	0.20	0.83	0.66	0.56	0.48	0.38	0.31	0.26	0.20	0.16
	0.30		0.71	0.58	0.50	0.43	0.35	0.29	0.25	0.19	0.16
	0.20		0.62	0.52	0.45	0.40	0.32	0.27	0.23	0.18	0.15
0.00	0.00	0.00	0.51	0.42	0.35	0.31	0.24	0.20	0.17	0.13	0.11

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 = 1.25								
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	0.21	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	0.14	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	0.12	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.17	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		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
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

C Plane (°):0.0-360.0: 22.5
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