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Report No.: 1 Test Time: 30.01.2020 14:48

Luminaire Property

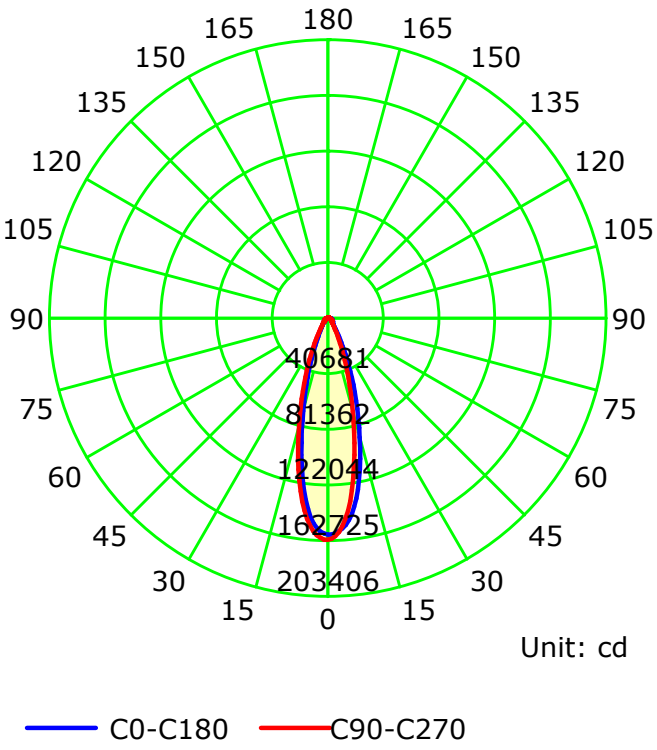
Luminaire Manufacturer:
Luminaire Description: FG 100 DALI 36LED 500W 5000K 30gr.
Luminous Length (mm): 545 mm Luminous Width (mm): 210 mm
Luminous Height (mm): 338 mm Voltage: 220.7 V
Current: 2.279 A Power: 501.81 W
Power Factor: 0.988

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 72727.5 lm
Measurement Flux: 72727.5 lm Efficiency: 100%
Downward Ratio: 95% Upward Ratio: 5%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.9, 58.3, 61.7, 62.1
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 30.4, 28.7, 30.7, 30.8
Luminaire Efficacy Rating (LER): 144.98 Central Intensity: 158171.23 cd
Max. Intensity: 162725.6 cd Pos of Max. Intensity: H315 V1
S/MH(C0/C180): 0.50 S/MH(C90/C270): 0.48

Picture Of Luminaire

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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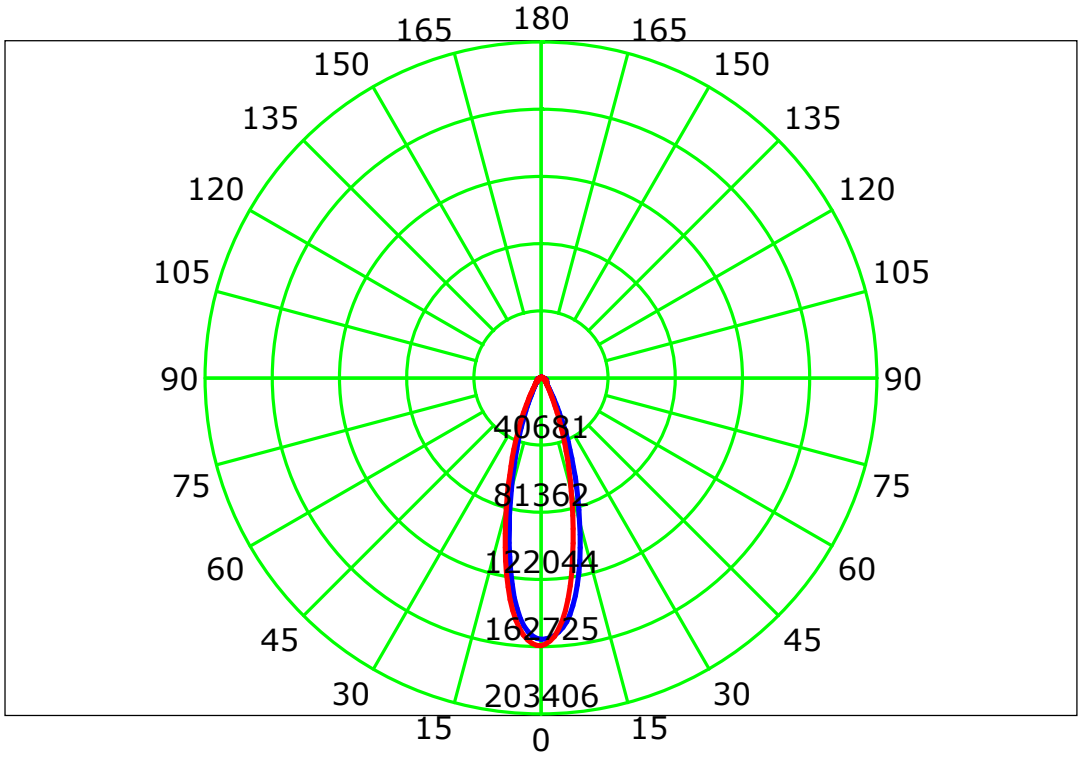
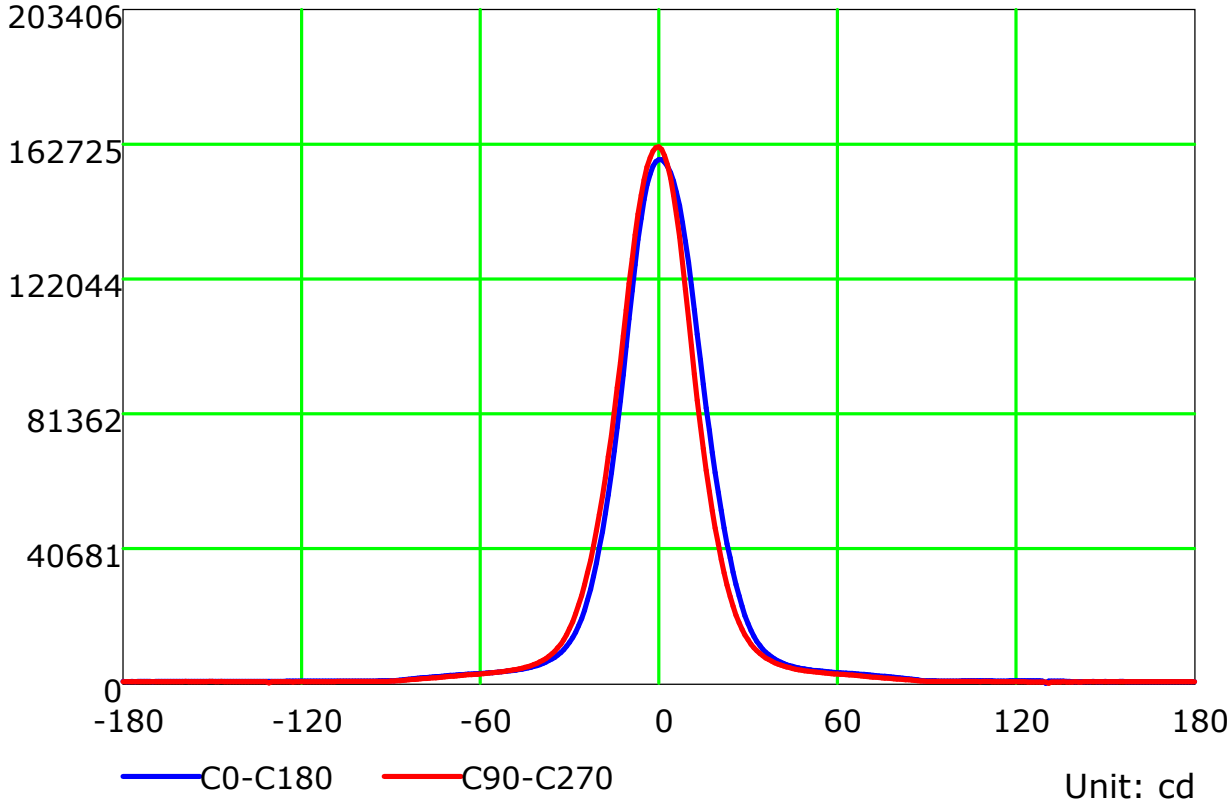
Luminous Intensity Distribution Curve

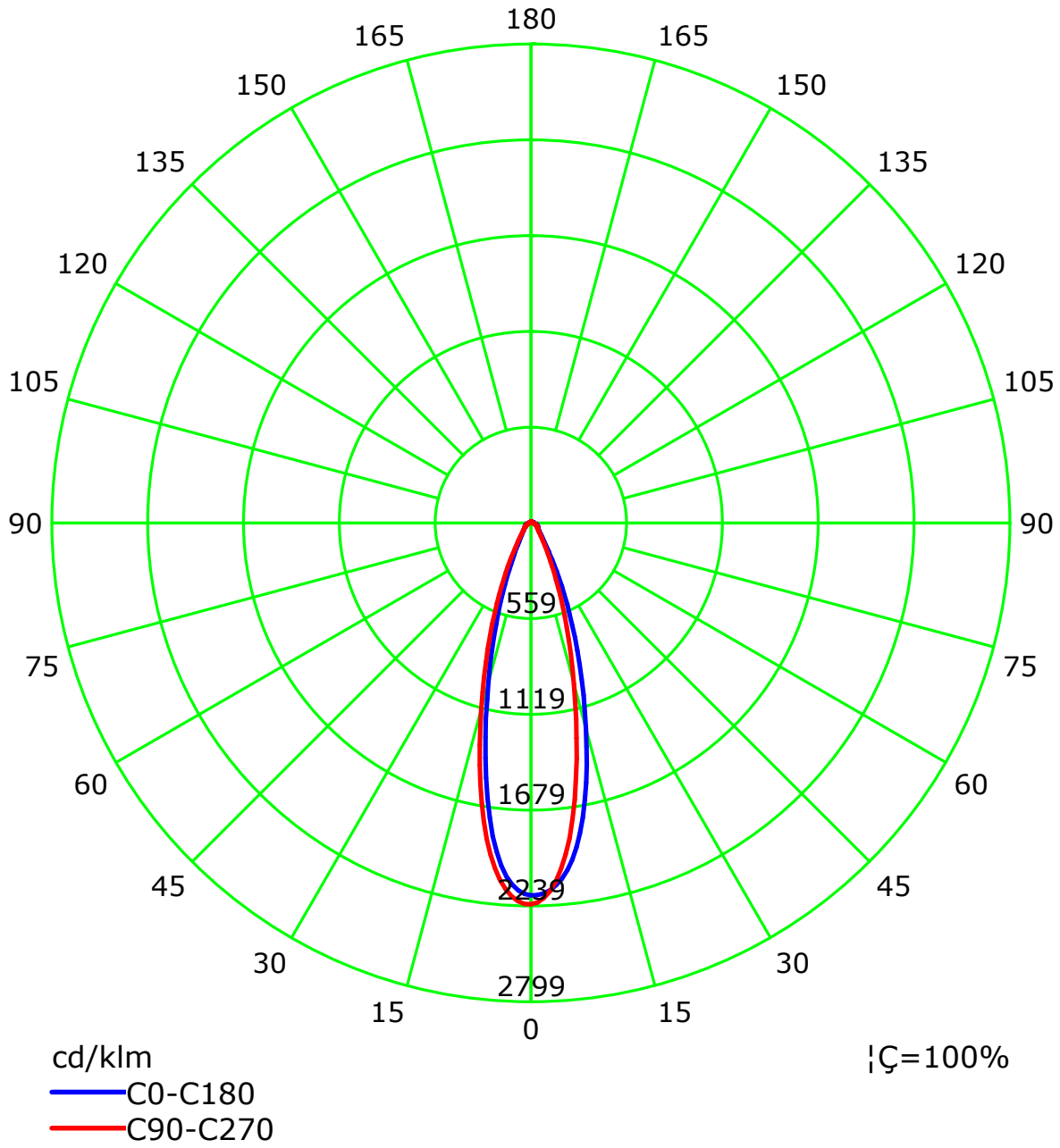




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



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Test Lab:
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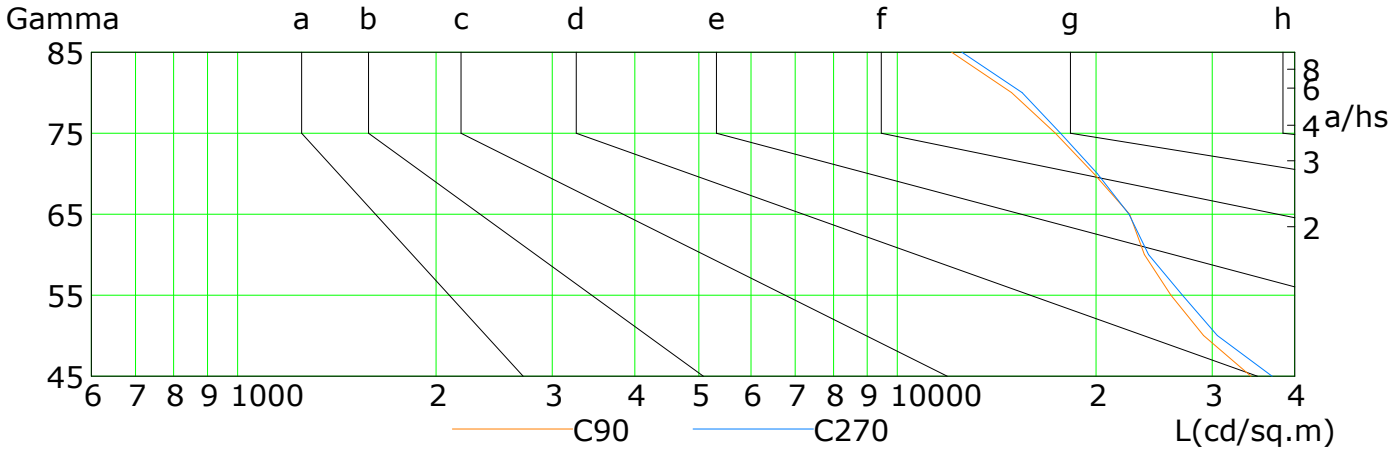
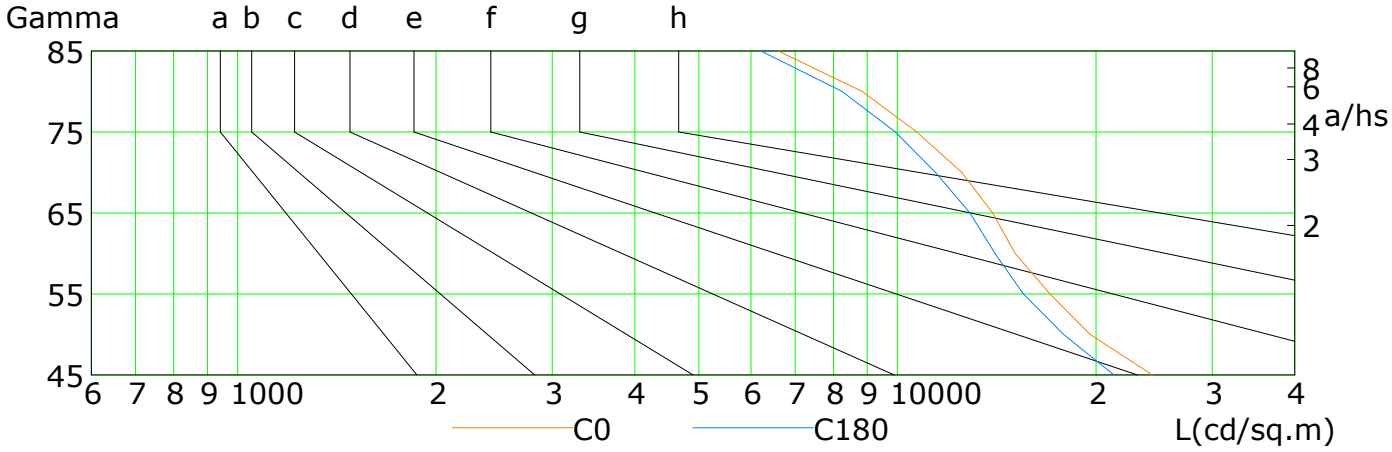
Lum Limit Curve

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	24351	19576	17039	15074	13938	12505	10705	8841	6599
C90	34351	29114	25989	23674	22481	19852	17356	14894	12087
C180	21304	17843	15530	14054	12887	11416	9930	8241	6209
C270	36958	30529	27045	24013	22436	20090	17664	15454	12523

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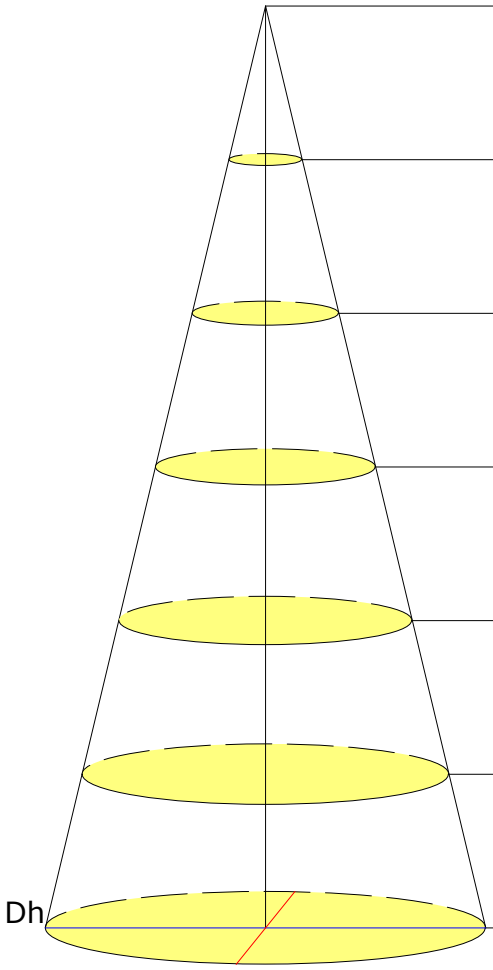
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	6326.85	2.72/2.56	5.7	4200.99
10.0	1581.71	5.43/5.12	22.9	1050.25
15.0	702.98	8.15/7.68	51.6	466.78
20.0	395.43	10.86/10.24	91.7	262.56
25.0	253.07	13.58/12.81	143.2	168.04
30.0	175.75	16.29/15.37	206.3	116.69

Beam Angle(B): H30.4 V28.7 Field Angle(F): H58.9 V58.3

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
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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	18.9	19.8	19.3	20.1	20.4	19.4	20.2	19.7	20.5	20.8
3H	20.2	21.0	20.6	21.3	21.7	20.7	21.5	21.0	21.8	22.1
4H	20.8	21.6	21.2	21.9	22.3	21.3	22.0	21.7	22.4	22.8
6H	21.3	22.0	21.8	22.4	22.8	21.8	22.5	22.3	22.9	23.3
8H	21.6	22.2	22.0	22.6	23.0	22.1	22.8	22.5	23.1	23.6
12H	21.7	22.4	22.2	22.8	23.2	22.3	22.9	22.7	23.3	23.8
X=4H Y=2H	19.4	20.1	19.8	20.5	20.9	19.7	20.5	20.1	20.8	21.2
3H	20.9	21.5	21.3	21.9	22.4	21.2	21.9	21.7	22.3	22.7
4H	21.6	22.2	22.1	22.6	23.1	22.0	22.6	22.5	23.0	23.5
6H	22.3	22.8	22.8	23.3	23.8	22.7	23.2	23.2	23.7	24.2
8H	22.6	23.1	23.1	23.5	24.1	23.0	23.5	23.5	24.0	24.5
12H	22.8	23.2	23.3	23.8	24.3	23.3	23.7	23.8	24.2	24.8
X=8H Y=4H	21.9	22.4	22.4	22.9	23.4	22.2	22.7	22.7	23.2	23.7
6H	22.7	23.1	23.3	23.7	24.2	23.1	23.5	23.6	24.0	24.6
8H	23.1	23.5	23.7	24.0	24.6	23.5	23.8	24.1	24.4	25.0
12H	23.5	23.8	24.0	24.3	24.9	23.9	24.2	24.5	24.7	25.4
X=12H Y=4H	21.9	22.4	22.5	22.9	23.4	22.2	22.7	22.8	23.2	23.7
6H	22.8	23.2	23.4	23.7	24.3	23.2	23.5	23.7	24.0	24.6
8H	23.3	23.6	23.8	24.1	24.7	23.6	23.9	24.2	24.5	25.1
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.4					+0.7/-0.4				
S=1.5H	+1.2/-0.7					+1.5/-0.6				
S=2.0H	+2.0/-0.9					+2.3/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 72727lm (8log(F/F0) = 14.9).

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 = 0.75								
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	0.81	0.86	0.91	0.94	0.98	1.01	1.03	1.06	1.08
	0.30		0.76	0.82	0.86	0.89	0.94	0.97	1.00	1.03	1.05
	0.20		0.72	0.78	0.82	0.86	0.91	0.94	0.97	1.01	1.03
0.50	0.50	0.20	0.79	0.84	0.88	0.91	0.94	0.97	0.99	1.01	1.03
	0.30		0.74	0.80	0.84	0.87	0.91	0.94	0.96	0.99	1.01
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.94	0.97	0.99
0.30	0.50	0.20	0.77	0.82	0.85	0.88	0.91	0.93	0.95	0.97	0.98
	0.30		0.73	0.78	0.82	0.84	0.88	0.91	0.92	0.95	0.96
	0.20		0.71	0.76	0.79	0.82	0.86	0.88	0.91	0.93	0.95
0.00	0.00	0.00	0.68	0.73	0.76	0.78	0.82	0.84	0.86	0.88	0.89

Rating:502W 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 = 0.75								
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	0.53	0.45	0.40	0.32	0.27	0.23	0.18	0.15
	0.30		0.53	0.45	0.39	0.35	0.29	0.25	0.21	0.17	0.14
	0.20		0.45	0.39	0.35	0.31	0.26	0.23	0.20	0.16	0.14
0.50	0.50	0.20	0.59	0.49	0.42	0.37	0.30	0.28	0.21	0.17	0.14
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.16	0.13
	0.20		0.43	0.38	0.33	0.30	0.25	0.21	0.19	0.15	0.13
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.23	0.19	0.15	0.13
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.15	0.12
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.12
0.00	0.00	0.00	0.28	0.23	0.20	0.18	0.14	0.12	0.11	0.08	0.07

Rating:502W 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:
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Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75								
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	0.19	0.20	0.21	0.22	0.24	0.25	0.25	0.26	0.26
	0.30		0.14	0.16	0.18	0.19	0.21	0.22	0.23	0.24	0.25
	0.20		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.50	0.50	0.20	0.18	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.22
0.30	0.50	0.20	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.24
	0.30		0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22
0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Rating:502W 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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Gamma Plane (°):0.0-180.0:1.0
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