

Report No.: 1

Test Time: 31.01.2020 11:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 DALI 36LED 500W 5000K 60gr. staraya linza

Luminous Length (mm): 545 mm

Luminous Width (mm): 210 mm

Luminous Height (mm): 338 mm

Voltage: 220.6 V

Current: 2.279 A

Power: 501.79 W

Power Factor: 0.988

Photometric Results

CIE Class: Direct

Measurement Flux: 64078.2 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 64078.2 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.3, 110.7, 115.8, 116.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 51.5, 50.3, 49.3, 49.3

Luminaire Efficacy Rating (LER): 127.75

Central Intensity: 59750.29 cd

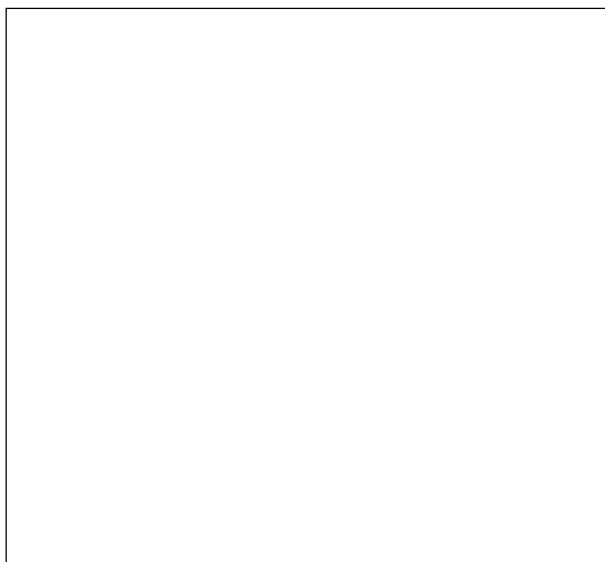
Max. Intensity: 60557.33 cd

Pos of Max. Intensity: H315 V1

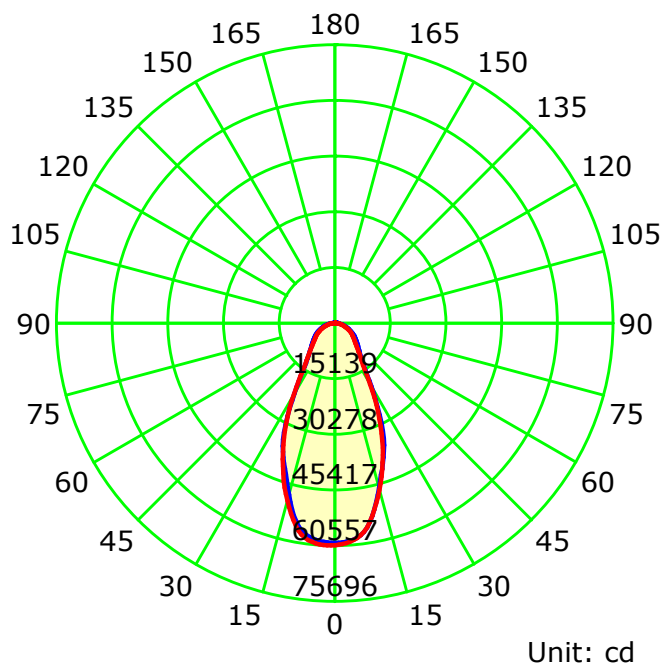
S/MH(C0/C180): 0.80

S/MH(C90/C270): 0.78

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

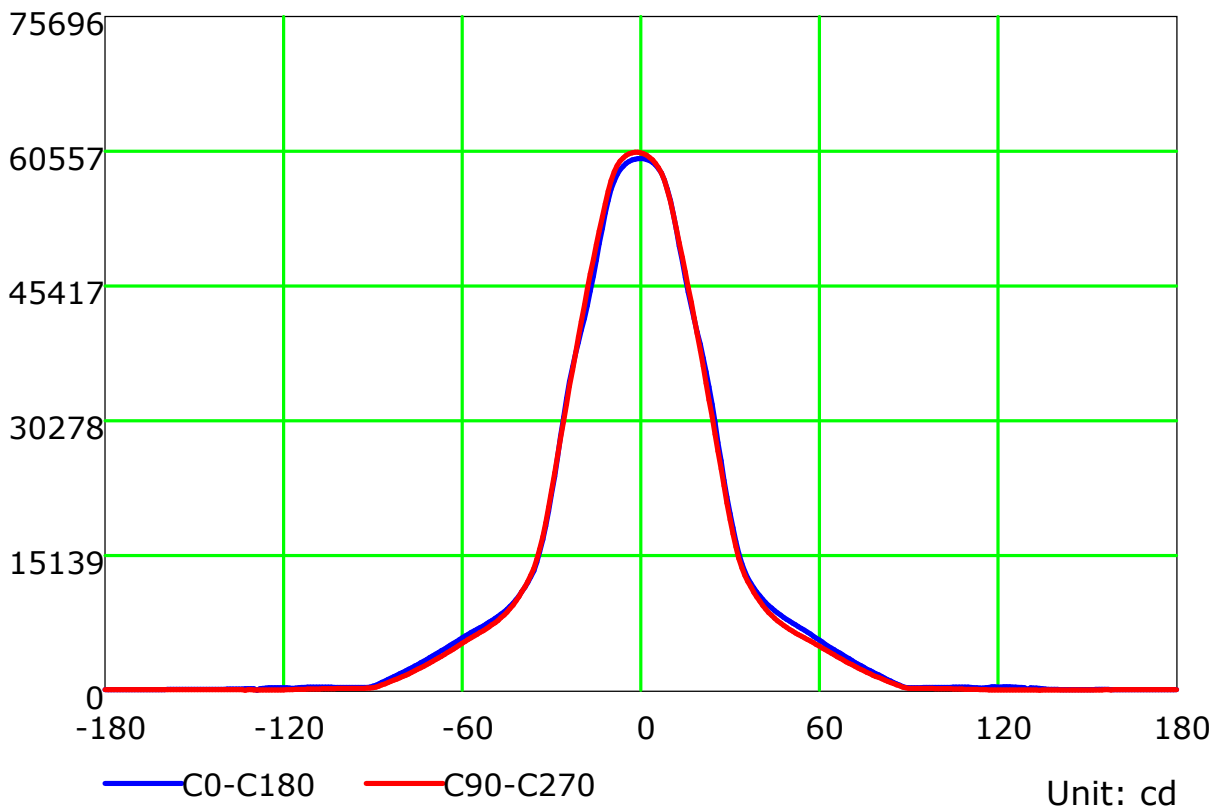
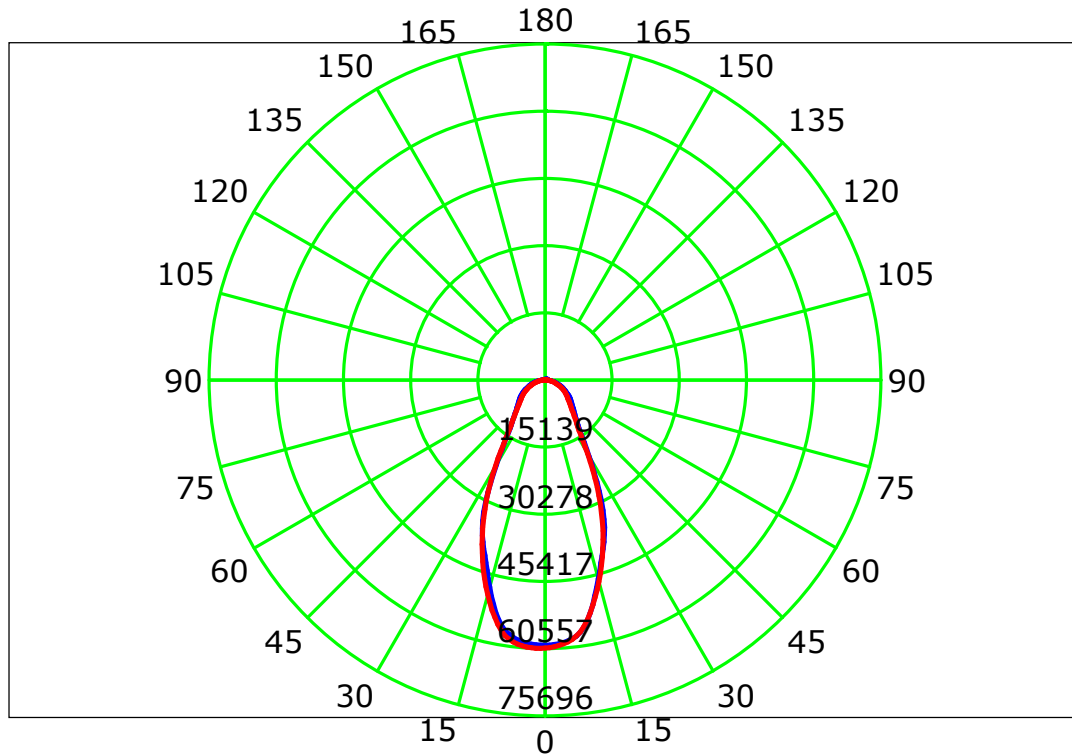
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

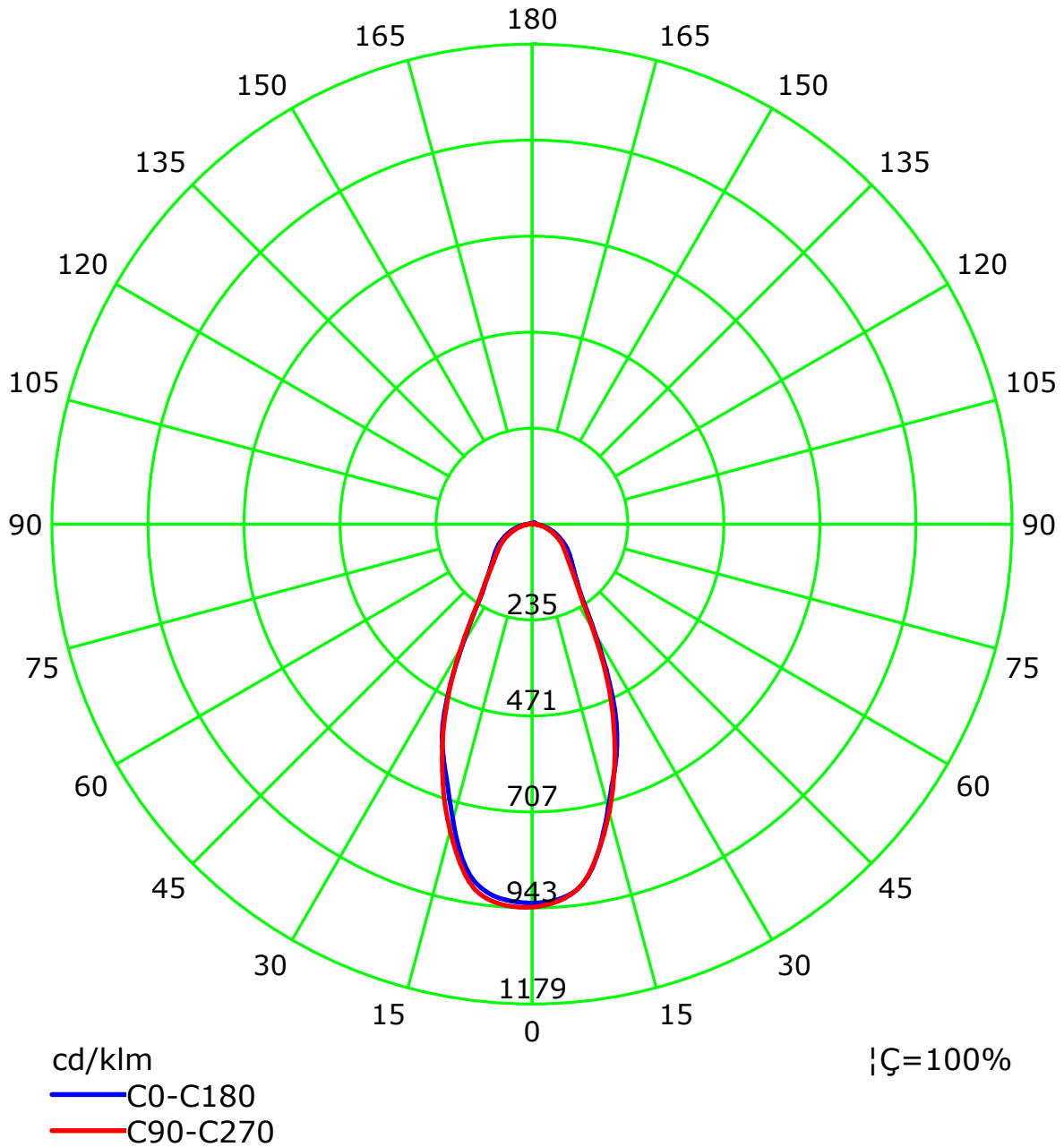
Luminous Intensity Distribution Curve



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)



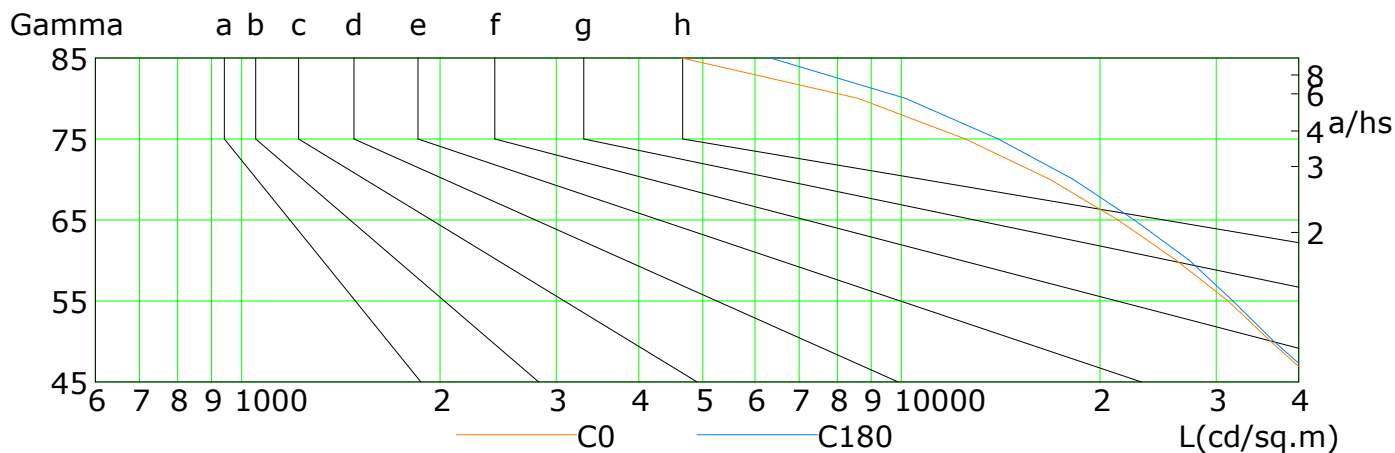
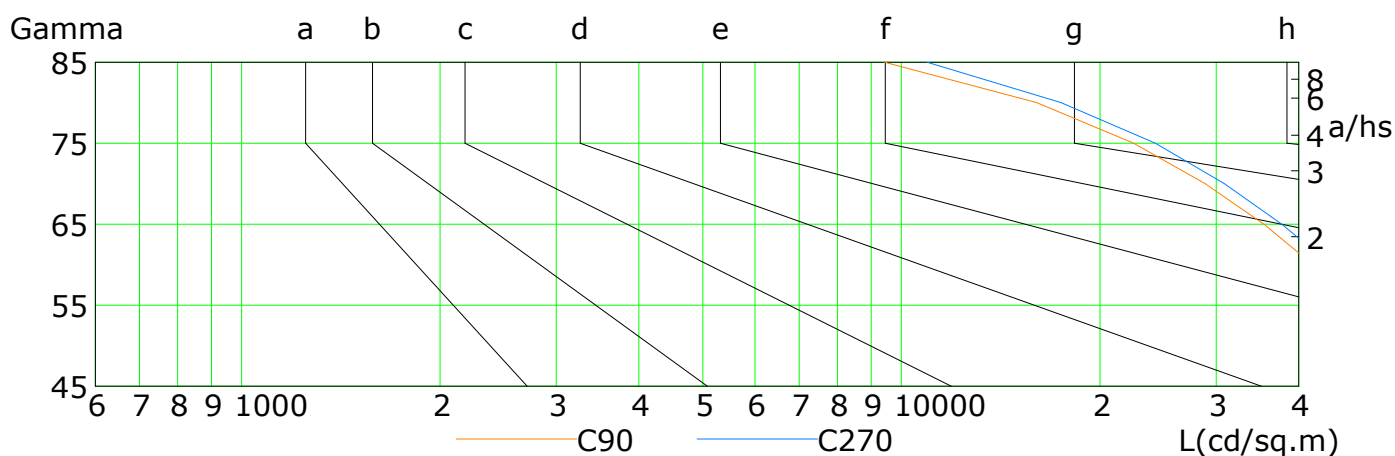
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

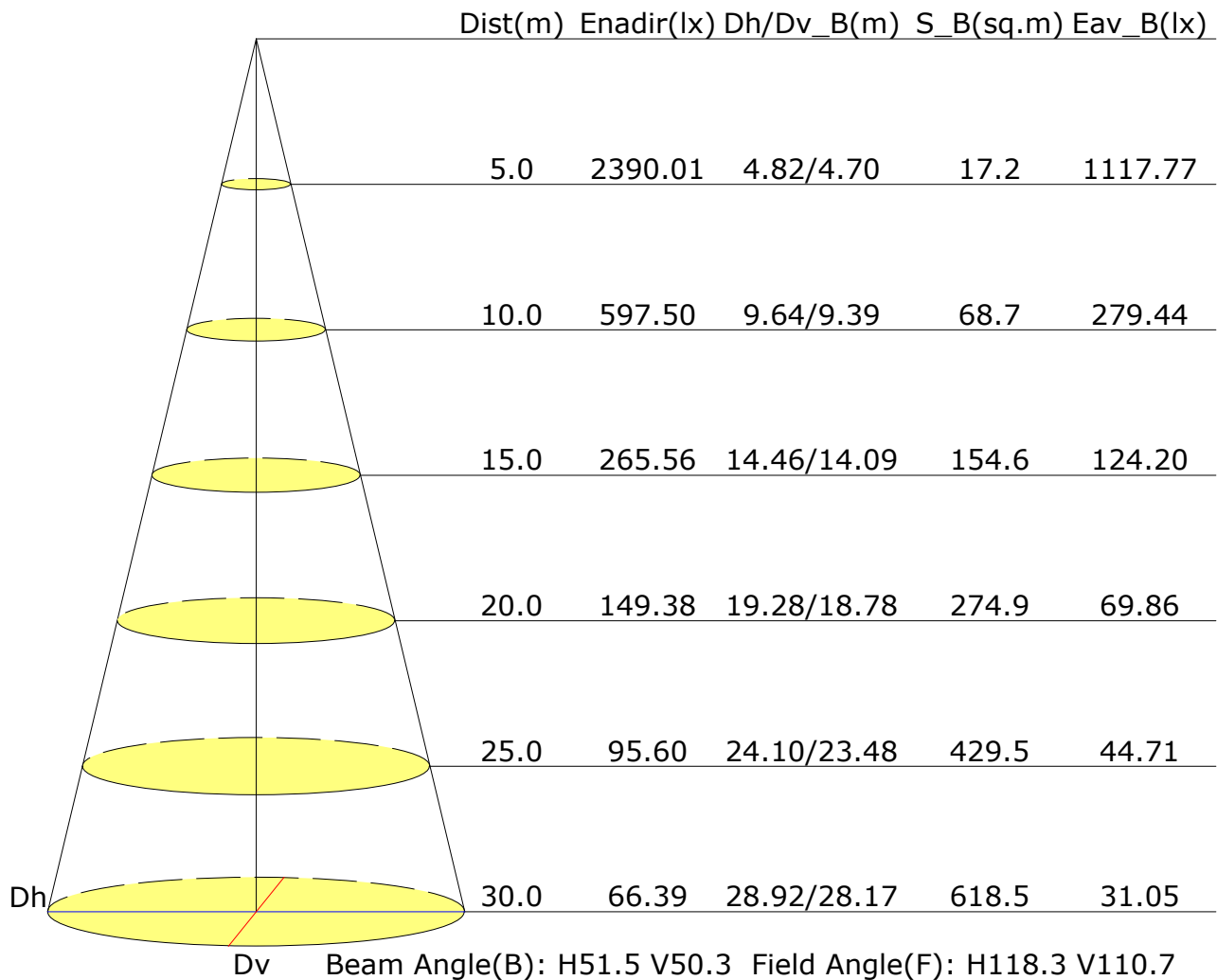


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	42546	36274	31278	26090	21285	16787	12500	8593	4645
C90	61914	53656	47809	42021	35434	28861	22487	16026	9434
C180	43140	36664	31794	27322	22553	18214	14027	10147	6334
C270	67127	57658	51077	44690	37732	30857	24253	17446	10941

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:

Illuminance at a Distance



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	22.8	23.9	23.2	24.2	24.5	23.5	24.6	23.8	24.9	25.1
3H	23.8	24.8	24.1	25.1	25.4	24.6	25.6	24.9	25.9	26.2
4H	24.1	25.1	24.5	25.4	25.7	25.0	25.9	25.3	26.2	26.5
6H	24.4	25.2	24.7	25.6	25.9	25.2	26.1	25.6	26.4	26.8
8H	24.4	25.3	24.8	25.6	26.0	25.3	26.2	25.7	26.5	26.9
12H	24.4	25.2	24.8	25.6	26.0	25.4	26.2	25.8	26.5	26.9
X=4H Y=2H	23.3	24.2	23.6	24.5	24.8	23.8	24.8	24.2	25.1	25.4
3H	24.4	25.2	24.8	25.5	25.9	25.0	25.8	25.4	26.2	26.6
4H	24.8	25.5	25.2	25.9	26.3	25.5	26.2	25.9	26.6	27.0
6H	25.1	25.8	25.6	26.2	26.6	25.9	26.5	26.3	26.9	27.4
8H	25.2	25.8	25.7	26.2	26.7	26.0	26.6	26.5	27.0	27.5
12H	25.3	25.8	25.7	26.2	26.7	26.1	26.6	26.5	27.1	27.5
X=8H Y=4H	24.9	25.5	25.4	26.0	26.4	25.6	26.2	26.1	26.6	27.1
6H	25.4	25.8	25.8	26.3	26.8	26.0	26.5	26.5	27.0	27.5
8H	25.5	25.9	26.0	26.4	26.9	26.2	26.7	26.7	27.1	27.7
12H	25.6	26.0	26.1	26.5	27.0	26.4	26.7	26.9	27.2	27.8
X=12H Y=4H	24.9	25.5	25.4	25.9	26.4	25.6	26.1	26.1	26.6	27.0
6H	25.4	25.8	25.9	26.3	26.8	26.1	26.5	26.6	27.0	27.5
8H	25.5	25.9	26.1	26.4	27.0	26.3	26.6	26.8	27.1	27.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.5/-0.4				
S=1.5H	+0.6/-0.8					+1.2/-0.9				
S=2.0H	+1.2/-1.4					+1.9/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with $64078 \ln (8 \log(F/F_0) = 14.5)$.

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 Test Type: TYPE C
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 Operator:

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

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	0.68	0.76	0.82	0.87	0.93	0.97	0.99	1.03	1.05	
	0.30		0.62	0.70	0.76	0.81	0.87	0.92	0.95	1.00	1.03	
	0.20		0.57	0.65	0.71	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.67	0.74	0.80	0.84	0.89	0.93	0.96	0.99	1.01	
	0.30		0.61	0.69	0.74	0.79	0.85	0.89	0.92	0.96	0.99	
	0.20		0.56	0.64	0.70	0.75	0.81	0.86	0.89	0.94	0.96	
0.30	0.50	0.20	0.65	0.72	0.77	0.81	0.86	0.90	0.92	0.95	0.97	
	0.30		0.60	0.67	0.73	0.77	0.83	0.86	0.89	0.93	0.95	
	0.20		0.56	0.64	0.69	0.74	0.80	0.84	0.87	0.91	0.93	
0.00	0.00	0.00	0.54	0.61	0.66	0.70	0.76	0.80	0.82	0.86	0.88	
Rating:502W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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	0.82	0.68	0.58	0.50	0.40	0.33	0.29	0.22	0.18	
	0.30		0.68	0.58	0.50	0.45	0.36	0.31	0.27	0.21	0.17	
	0.20		0.59	0.51	0.45	0.40	0.33	0.28	0.25	0.20	0.17	
0.50	0.50	0.20	0.78	0.65	0.55	0.48	0.38	0.35	0.27	0.21	0.17	
	0.30		0.66	0.56	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.58	0.50	0.43	0.39	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.20	0.16	
	0.30		0.65	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.16	
	0.20		0.56	0.48	0.42	0.38	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.45	0.37	0.32	0.28	0.23	0.19	0.16	0.13	0.11	
Rating:502W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.09	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:502W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												