

Report No.: 1

Test Time: 09.12.2019 15:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 300 4x40LED 0.3A 15W 5000K frozen (40) Griliyato

Luminous Length (mm): 286

Luminous Width (mm): 286

Luminous Height (mm): 40

Voltage: 221.3 V

Current: 0.072 A

Power: 15.08 W

Power Factor: 0.939

Photometric Results

CIE Class: Direct

Measurement Flux: 2112 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2112.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 149.0, 147.5, 149.1, 149.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.8, 100.6, 101.5, 101.0

Luminaire Efficacy Rating (LER): 140.10

Central Intensity: 850.64 cd

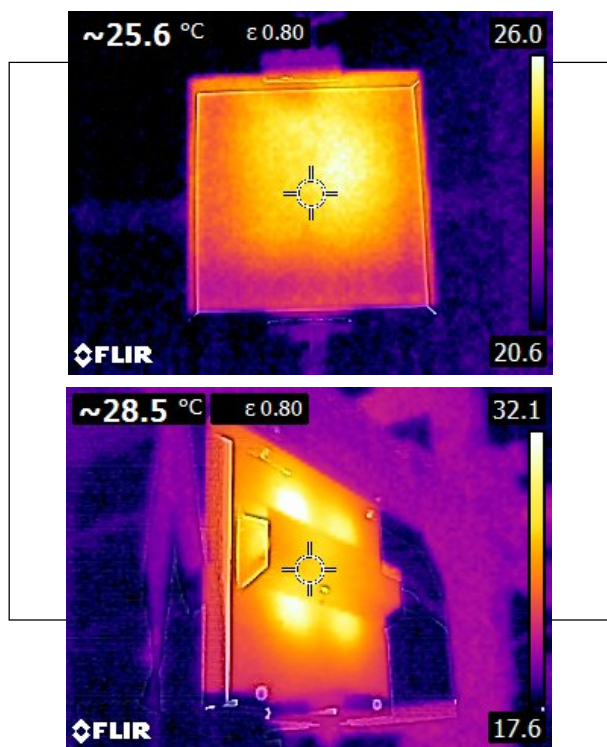
Max. Intensity: 853.31 cd

Pos of Max. Intensity: H202.5 V4

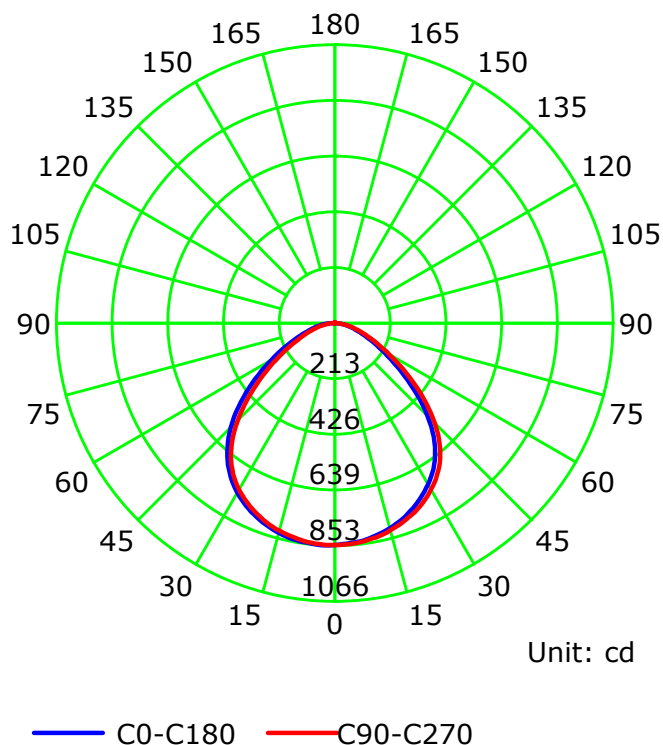
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.28

Termogramma



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

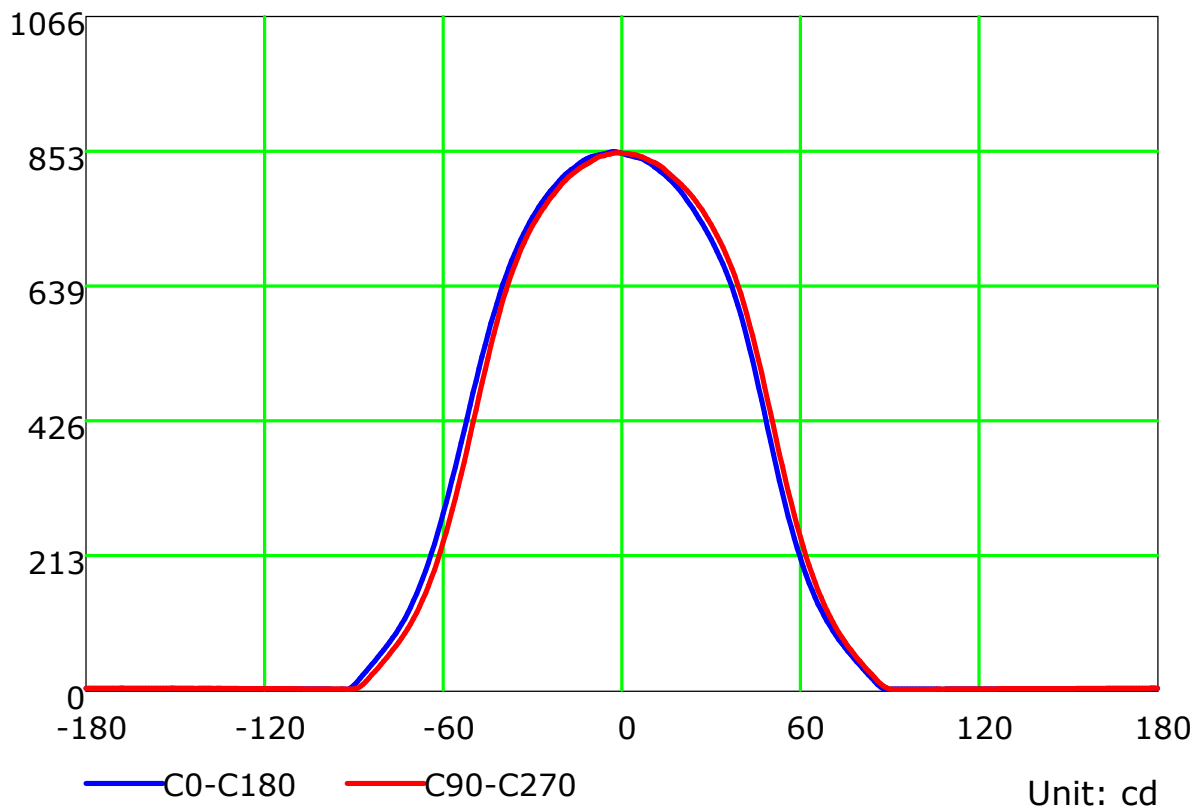
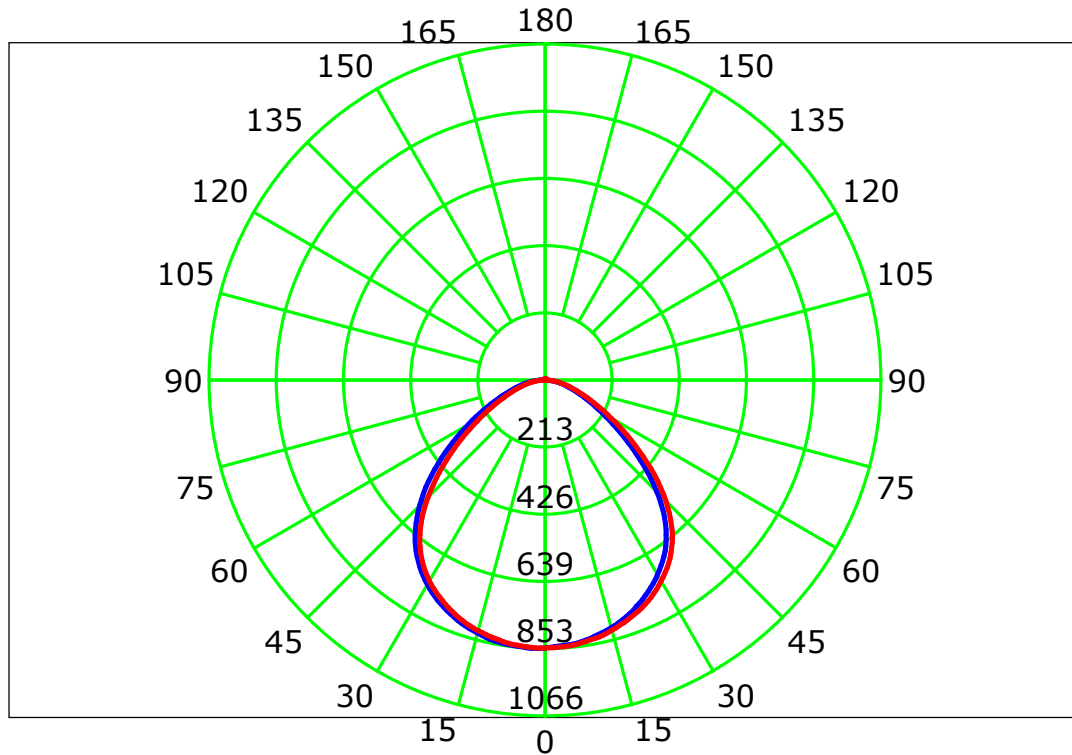
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

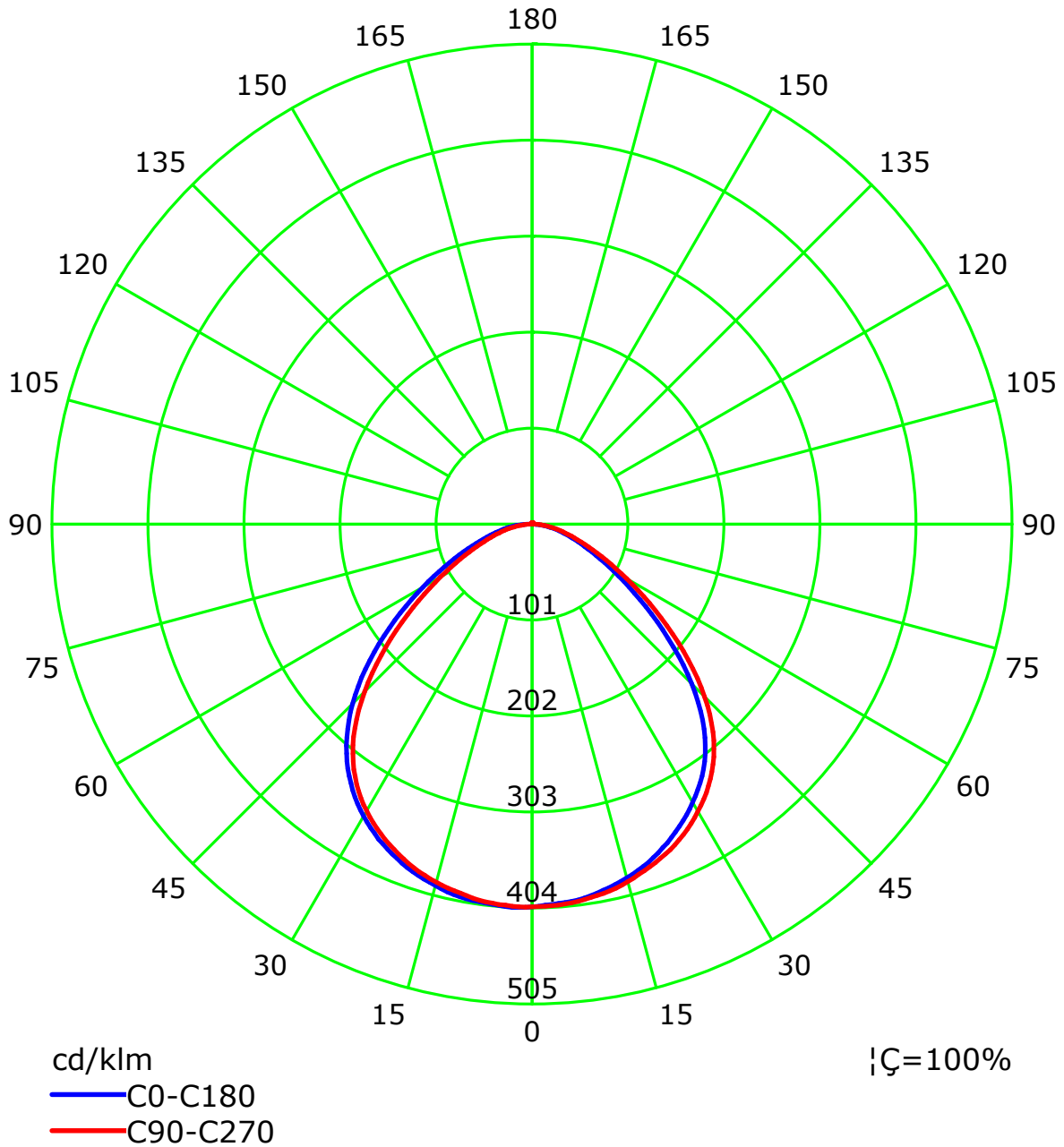
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



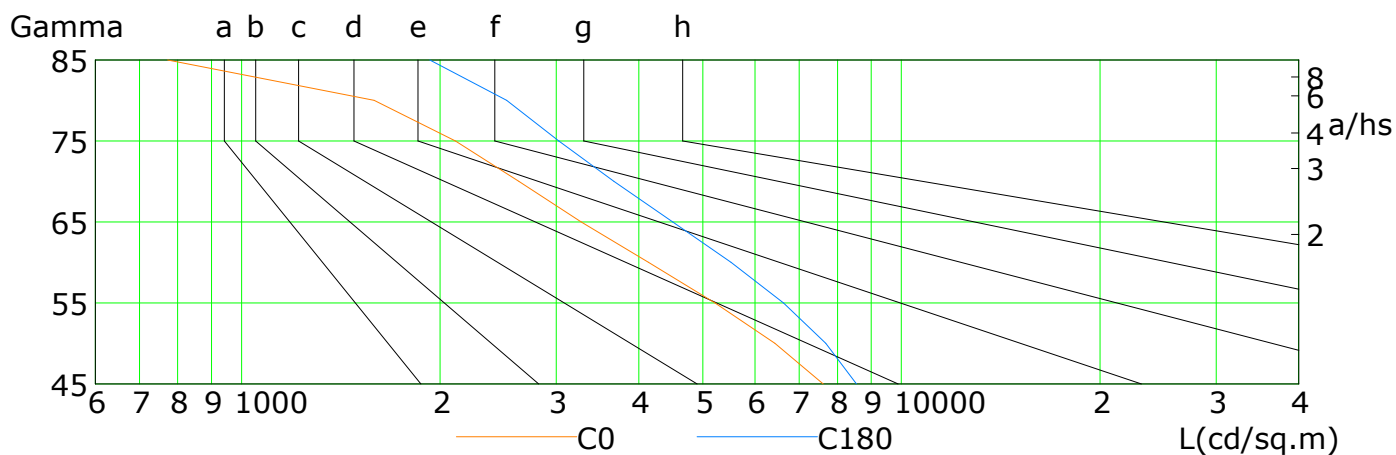
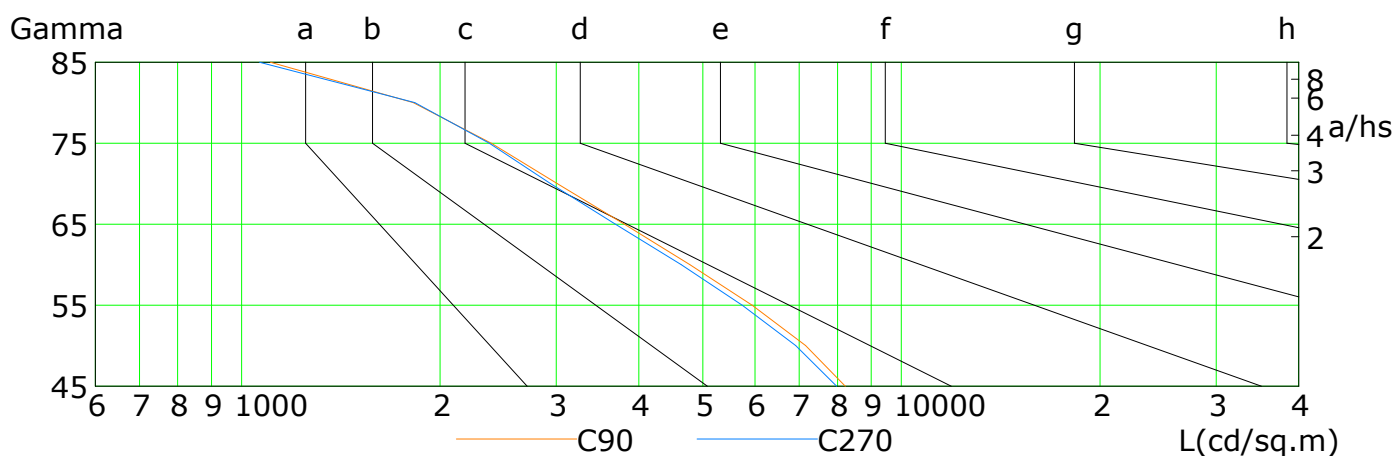
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

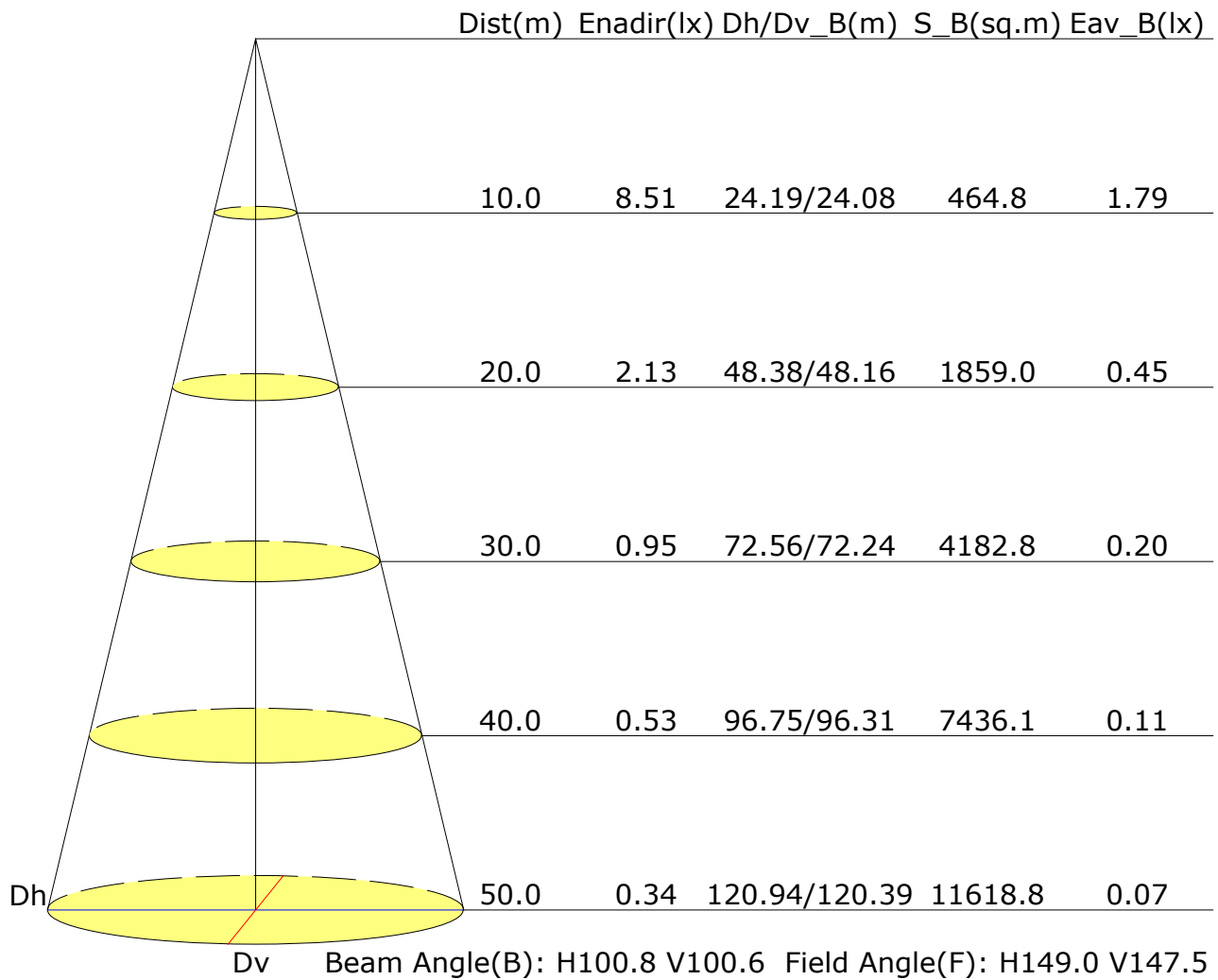


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7615	6431	5219	4136	3272	2631	2110	1589	772
C90	8217	7156	5939	4779	3806	3007	2391	1821	1106
C180	8552	7683	6624	5517	4504	3666	3025	2522	1929
C270	7981	6913	5735	4635	3687	2937	2373	1829	1064

C Plane (°):0.0-360.0: 22.5
 Test Lab:
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 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	17.7	19.0	18.0	19.2	19.5	18.1	19.4	18.4	19.6	19.9
3H	18.3	19.4	18.6	19.7	20.0	18.7	19.9	19.1	20.2	20.5
4H	18.5	19.6	18.8	19.9	20.2	19.0	20.1	19.3	20.4	20.7
6H	18.6	19.6	19.0	19.9	20.3	19.1	20.1	19.5	20.4	20.8
8H	18.6	19.6	19.0	19.9	20.3	19.1	20.1	19.5	20.5	20.8
12H	18.6	19.6	19.0	19.9	20.3	19.2	20.1	19.5	20.4	20.8
X=4H Y=2H	18.0	19.1	18.3	19.4	19.7	18.3	19.4	18.7	19.7	20.0
3H	18.7	19.7	19.1	20.0	20.4	19.1	20.1	19.5	20.4	20.8
4H	19.0	19.9	19.4	20.2	20.6	19.5	20.3	19.9	20.7	21.0
6H	19.2	20.0	19.7	20.4	20.8	19.7	20.4	20.1	20.8	21.2
8H	19.3	20.0	19.7	20.4	20.8	19.8	20.4	20.2	20.8	21.3
12H	19.3	19.9	19.8	20.4	20.8	19.8	20.4	20.3	20.8	21.3
X=8H Y=4H	19.1	19.8	19.6	20.2	20.7	19.5	20.2	20.0	20.6	21.0
6H	19.4	20.0	19.9	20.4	20.9	19.8	20.4	20.3	20.8	21.3
8H	19.5	20.0	20.0	20.5	21.0	19.9	20.4	20.4	20.9	21.4
12H	19.6	20.0	20.1	20.5	21.0	20.0	20.4	20.5	20.9	21.4
X=12H Y=4H	19.1	19.7	19.6	20.2	20.6	19.5	20.1	20.0	20.5	21.0
6H	19.4	19.9	19.9	20.4	20.9	19.8	20.3	20.3	20.8	21.3
8H	19.5	20.0	20.0	20.4	21.0	20.0	20.4	20.5	20.9	21.4
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.5					+0.4/-0.5				
S=1.5H	+0.8/-1.4					+0.7/-1.2				
S=2.0H	+1.6/-2.2					+1.6/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2112lm ($8\log(F/F_0) = 2.6$).

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 Test Device: LSG-1800B
 Distance: 12.677 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	0.62	0.72	0.79	0.84	0.91	0.95	0.98	1.02	1.05	
	0.30		0.54	0.65	0.72	0.78	0.85	0.90	0.94	0.99	1.02	
	0.20		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.95	0.99	
0.50	0.50	0.20	0.60	0.70	0.77	0.81	0.88	0.92	0.95	0.98	1.01	
	0.30		0.53	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.20		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
0.30	0.50	0.20	0.59	0.68	0.74	0.79	0.85	0.88	0.91	0.95	0.97	
	0.30		0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.20		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.46	0.56	0.63	0.67	0.74	0.78	0.81	0.85	0.88	
Rating:15W 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 = 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	0.92	0.75	0.63	0.54	0.43	0.36	0.30	0.23	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.43	0.36	0.30	0.26	0.21	0.17	
0.50	0.50	0.20	0.89	0.72	0.60	0.52	0.41	0.37	0.29	0.22	0.18	
	0.30		0.75	0.62	0.53	0.47	0.37	0.31	0.27	0.21	0.17	
	0.20		0.65	0.55	0.48	0.42	0.34	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.86	0.68	0.57	0.50	0.39	0.32	0.27	0.21	0.17	
	0.30		0.73	0.60	0.51	0.45	0.36	0.30	0.26	0.20	0.16	
	0.20		0.64	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.53	0.44	0.37	0.32	0.26	0.21	0.18	0.14	0.12	
Rating:15W 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 = 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	0.18	0.19	0.19	0.20	0.21	0.21	0.22	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	0.07	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	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	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		0.10	0.11	0.12	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:15W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												