

Report No.: 1

Test Time: 19.02.2020 14:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36 LED 800W 5000K 20 gr.

Number of Lamps: 1

Luminous Width (mm): 455

Voltage: 221.8 V

Power: 801.78 W

Luminous Length (mm): 345

Luminous Height (mm): 695

Current: 3.689 A

Power Factor: 0.980

Photometric Results

CIE Class: Direct

Measurement Flux: 133322.7 lm

Downward Ratio: 94%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 43.8, 40.3, 42.4, 41.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 19.7, 20.1, 20.4, 19.3

Luminaire Efficacy Rating (LER): 166.33

Max. Intensity: 544549.5 cd

S/MH(C0/C180): 0.34

Total Rated Lamp Lumens: 133322.7 lm

Efficiency: 100%

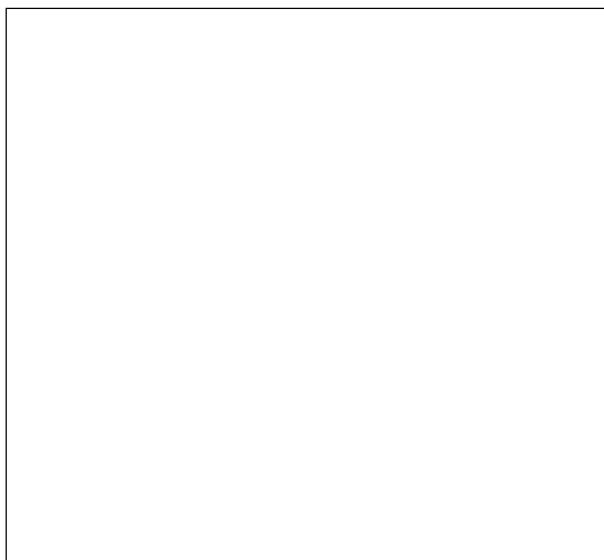
Upward Ratio: 6%

Central Intensity: 531636.19 cd

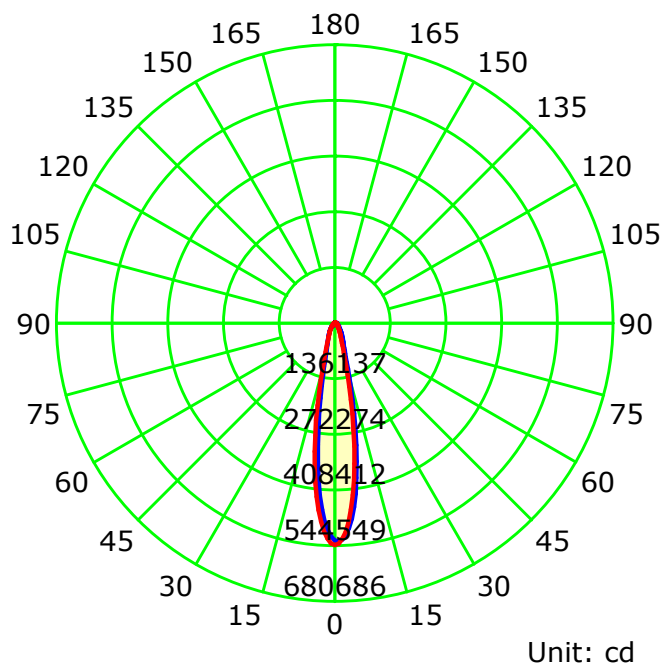
Pos of Max. Intensity: H135 V0

S/MH(C90/C270): 0.34

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

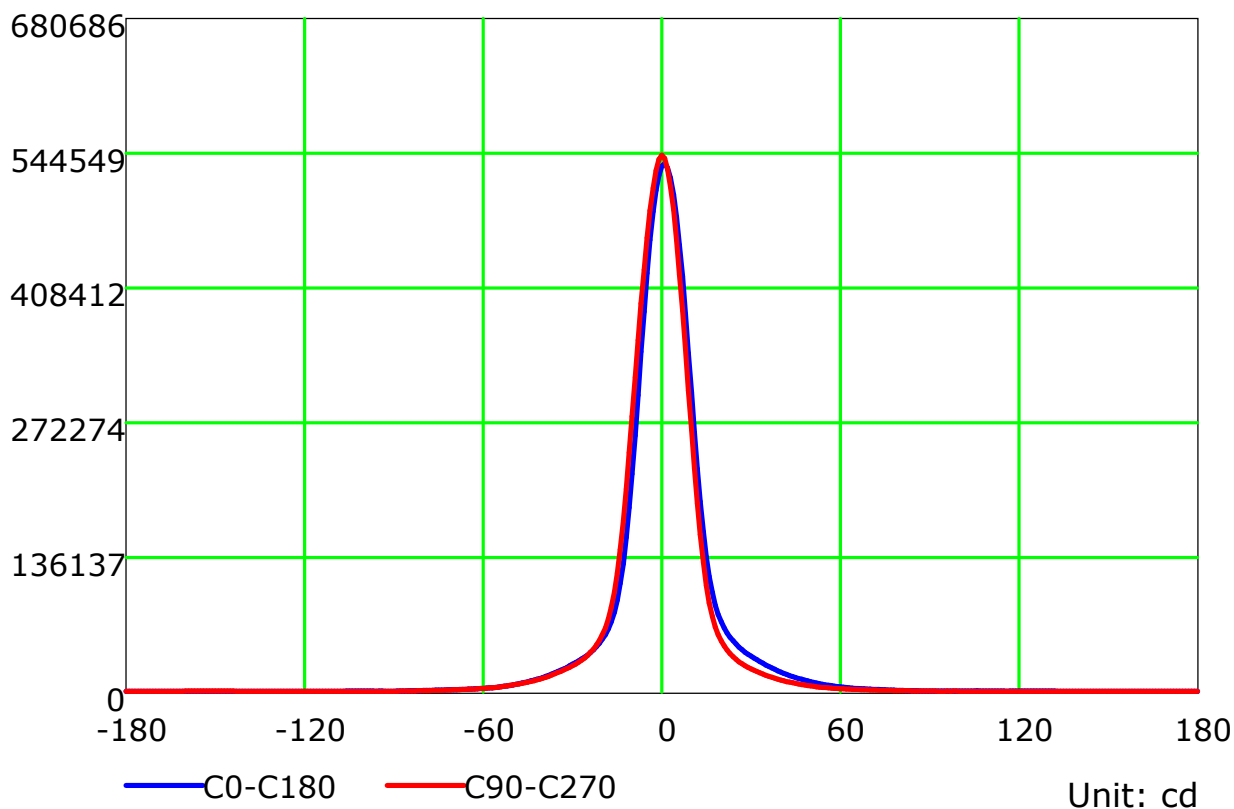
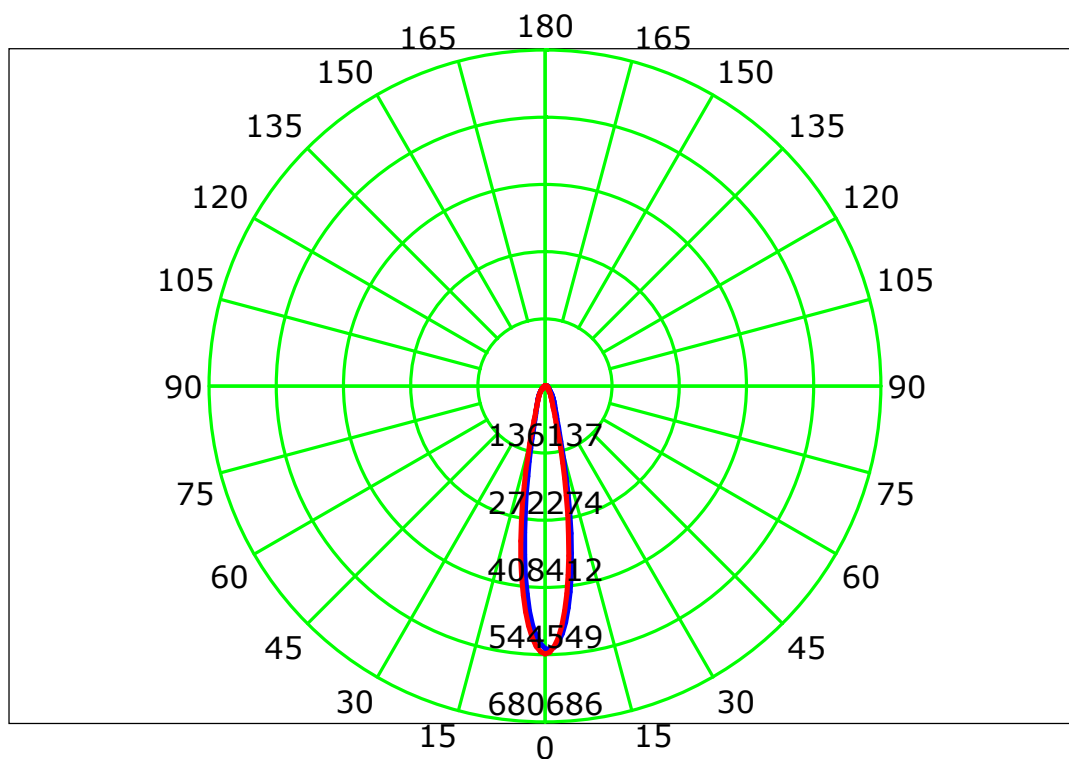
Test Device: LSG-1800B

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

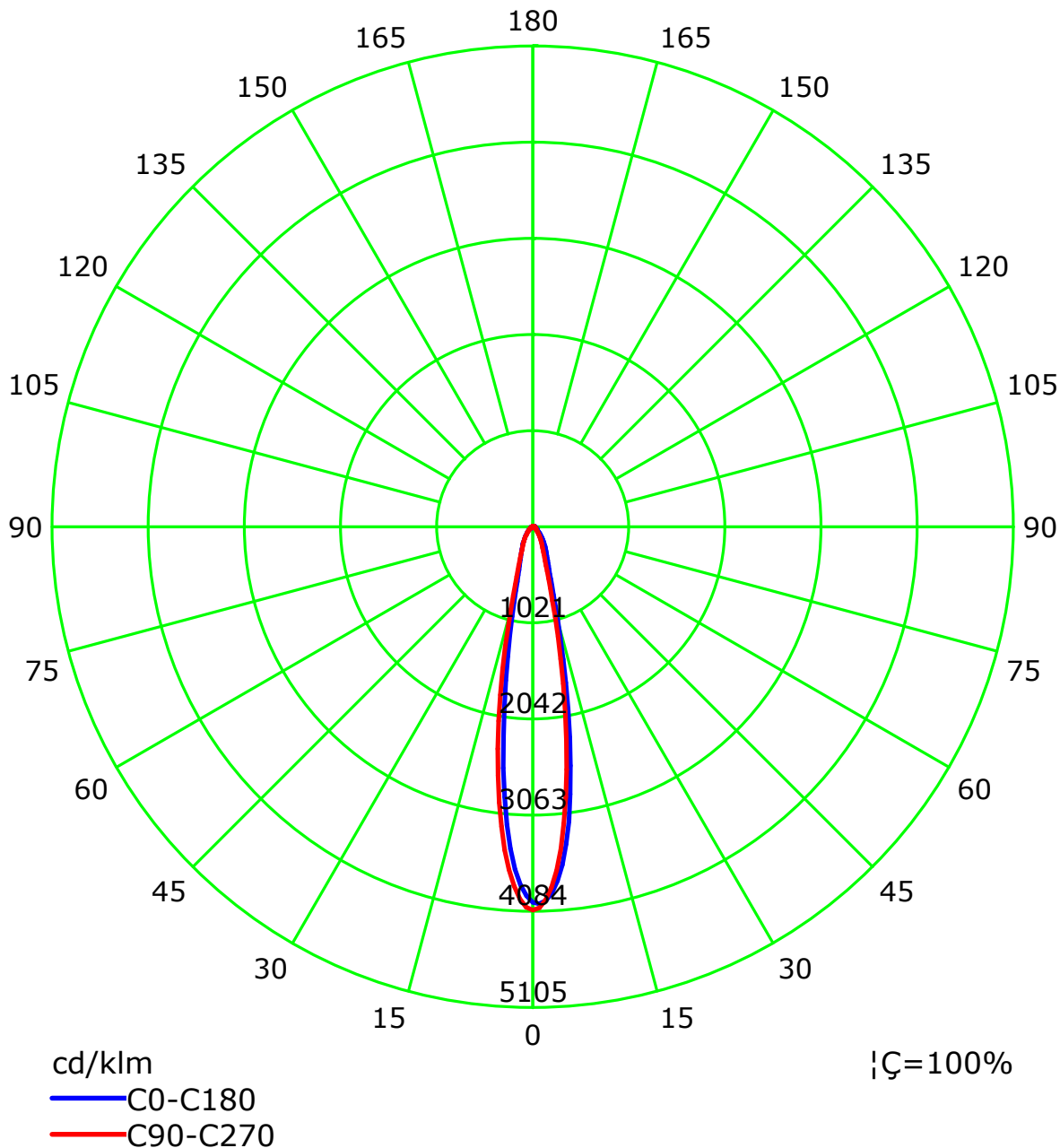
Test Device: LSG-1800B

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

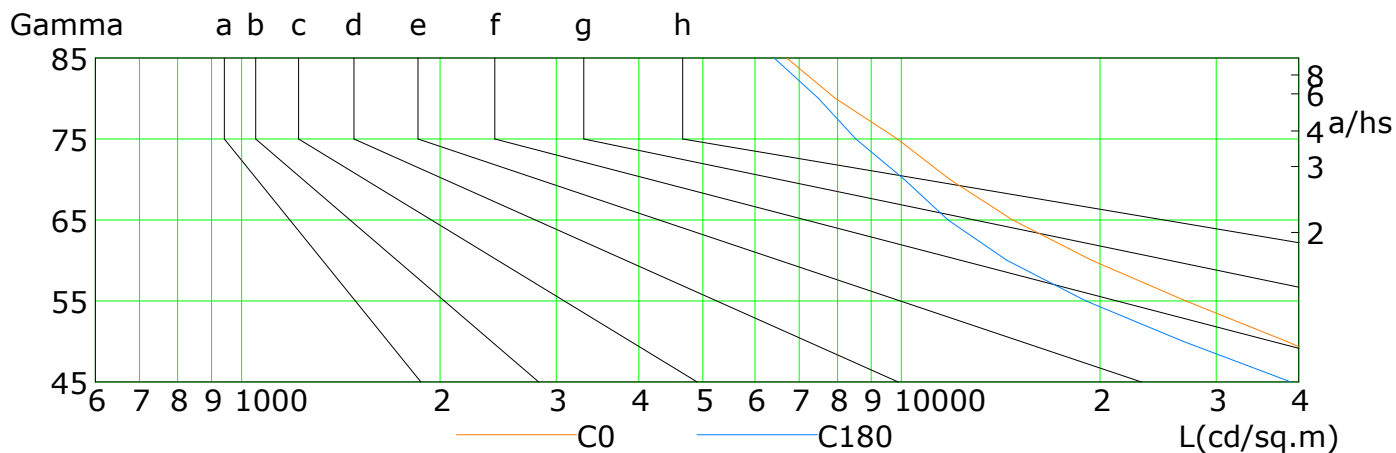
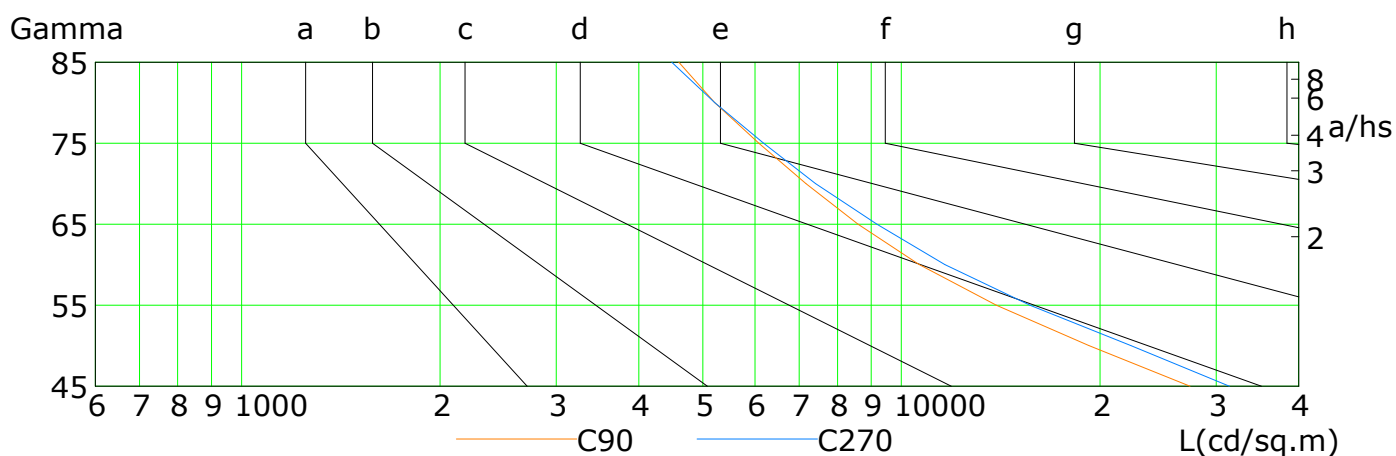
Humidity:

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	53917	38324	26972	19438	14749	11831	9860	7942	6703
C90	27391	19239	13924	10638	8599	7168	6079	5212	4598
C180	38918	26725	19037	14452	11765	10098	8528	7483	6416
C270	31402	22269	15656	11633	9181	7410	6184	5212	4488

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

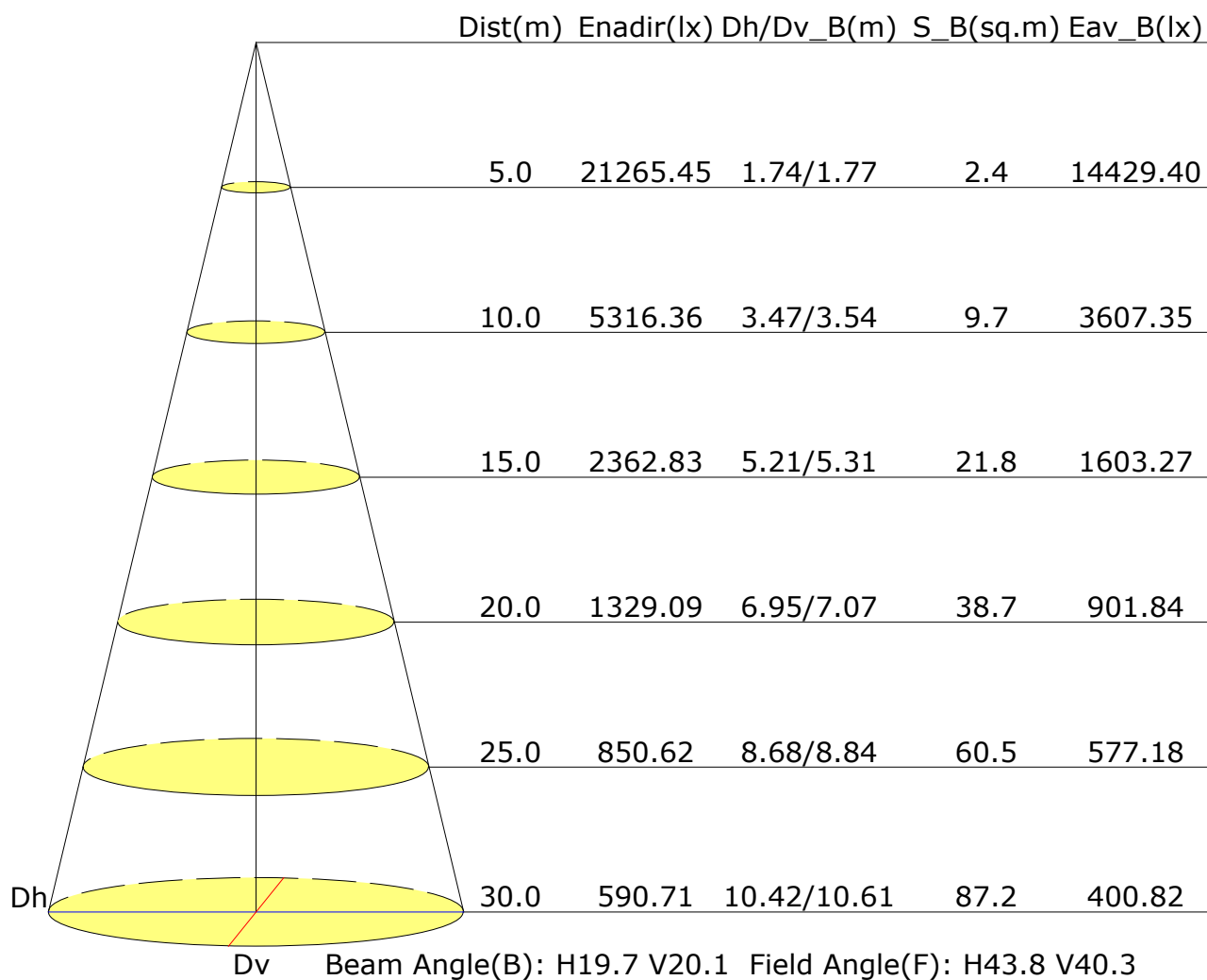
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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:

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	20.5	21.3	20.9	21.6	21.9	18.5	19.3	18.8	19.6	19.9
3H	21.0	21.7	21.4	22.1	22.4	18.9	19.7	19.3	20.0	20.4
4H	21.2	21.9	21.6	22.3	22.7	19.2	19.9	19.6	20.2	20.6
6H	21.4	22.1	21.9	22.5	22.9	19.4	20.1	19.8	20.4	20.8
8H	21.6	22.2	22.0	22.6	23.0	19.5	20.1	20.0	20.5	21.0
12H	21.6	22.2	22.1	22.6	23.1	19.6	20.2	20.1	20.6	21.1
X=4H Y=2H	20.5	21.2	20.9	21.6	22.0	18.7	19.4	19.1	19.7	20.1
3H	21.1	21.7	21.6	22.1	22.6	19.3	19.9	19.8	20.3	20.7
4H	21.5	22.0	21.9	22.4	22.9	19.6	20.2	20.1	20.6	21.1
6H	21.8	22.3	22.3	22.7	23.2	20.0	20.5	20.5	20.9	21.4
8H	21.9	22.4	22.5	22.9	23.4	20.2	20.6	20.7	21.1	21.6
12H	22.1	22.5	22.6	23.0	23.6	20.4	20.7	20.9	21.3	21.8
X=8H Y=4H	21.5	21.9	22.0	22.4	22.9	19.8	20.2	20.3	20.7	21.2
6H	21.9	22.2	22.4	22.8	23.3	20.2	20.6	20.8	21.1	21.7
8H	22.1	22.4	22.7	23.0	23.6	20.5	20.8	21.1	21.4	22.0
12H	22.4	22.7	23.0	23.2	23.8	20.8	21.1	21.4	21.6	22.3
X=12H Y=4H	21.4	21.8	22.0	22.3	22.9	19.8	20.2	20.3	20.7	21.2
6H	21.9	22.2	22.5	22.8	23.4	20.3	20.6	20.9	21.1	21.7
8H	22.2	22.4	22.8	23.0	23.6	20.6	20.9	21.2	21.4	22.1
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.0					+1.0/-1.1				
S=1.5H	+2.5/-1.8					+2.1/-1.8				
S=2.0H	+4.0/-2.6					+3.4/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 133323lm ($8\log(F/F_0) = 17.0$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
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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 = 0.50									
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	0.88	0.92	0.95	1.00	1.03	1.05	1.08	1.10	
	0.30		0.76	0.83	0.87	0.91	0.96	0.99	1.02	1.05	1.07	
	0.20		0.72	0.79	0.84	0.87	0.93	0.96	0.99	1.03	1.05	
0.50	0.50	0.20	0.79	0.85	0.89	0.92	0.96	0.99	1.00	1.03	1.04	
	0.30		0.75	0.81	0.85	0.88	0.93	0.96	0.98	1.01	1.02	
	0.20		0.72	0.78	0.82	0.85	0.90	0.93	0.95	0.99	1.01	
0.30	0.50	0.20	0.78	0.83	0.87	0.89	0.93	0.95	0.96	0.98	1.00	
	0.30		0.74	0.79	0.83	0.86	0.90	0.92	0.94	0.97	0.98	
	0.20		0.71	0.77	0.81	0.84	0.88	0.90	0.92	0.95	0.97	
0.00	0.00	0.00	0.69	0.74	0.77	0.80	0.83	0.86	0.87	0.89	0.91	
Rating:802W 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 = 0.50									
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	0.65	0.53	0.45	0.40	0.32	0.26	0.23	0.18	0.14	
	0.30		0.54	0.46	0.40	0.35	0.29	0.24	0.21	0.17	0.14	
	0.20		0.46	0.40	0.35	0.31	0.26	0.22	0.20	0.16	0.13	
0.50	0.50	0.20	0.61	0.50	0.42	0.36	0.29	0.28	0.21	0.16	0.13	
	0.30		0.51	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.13	
	0.20		0.44	0.38	0.33	0.30	0.24	0.21	0.18	0.15	0.12	
0.30	0.50	0.20	0.57	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.49	0.41	0.35	0.30	0.25	0.21	0.18	0.14	0.12	
	0.20		0.43	0.36	0.32	0.28	0.23	0.19	0.17	0.13	0.11	
0.00	0.00	0.00	0.29	0.23	0.20	0.17	0.14	0.12	0.10	0.08	0.06	
Rating:802W 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 = 0.50									
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	0.21	0.22	0.23	0.24	0.25	0.26	0.26	0.27	
	0.30		0.15	0.17	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	0.20	0.21	0.23	0.24	
0.50	0.50	0.20	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.25	0.26	
	0.30		0.14	0.16	0.18	0.19	0.20	0.21	0.22	0.24	0.24	
	0.20		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	0.25	
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.23	
	0.20		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
Rating:802W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												