

Report No.: 1

Test Time: 25.02.2020 22:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 44LED 800W 5000K 60x150 gr.

Number of Lamps: 1

Luminous Length (mm): 345

Luminous Width (mm): 445

Luminous Height (mm): 695

Voltage: 229.4 V

Current: 3.557 A

Power: 798.12 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 122022.3 lm

Measurement Flux: 122022.3 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.6, 146.5, 128.6, 127.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 49.3, 133.6, 62.7, 60.2

Luminaire Efficacy Rating (LER): 152.94

Central Intensity: 33374.88 cd

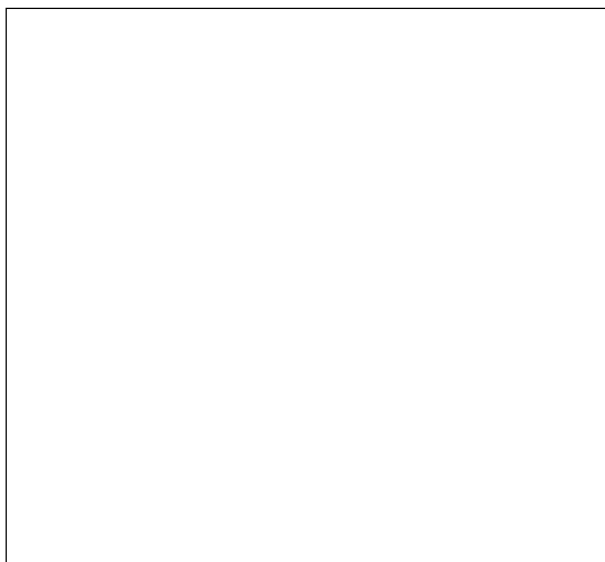
Max. Intensity: 62261.79 cd

Pos of Max. Intensity: H135 V32

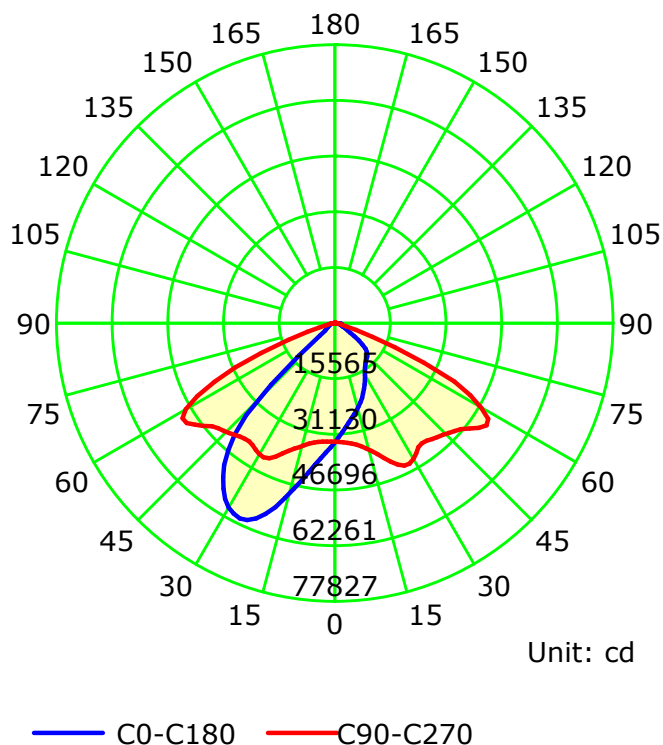
S/MH(C0/C180): 1.51

S/MH(C90/C270): 1.88

Picture Of Luminaire



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: 12.677 m

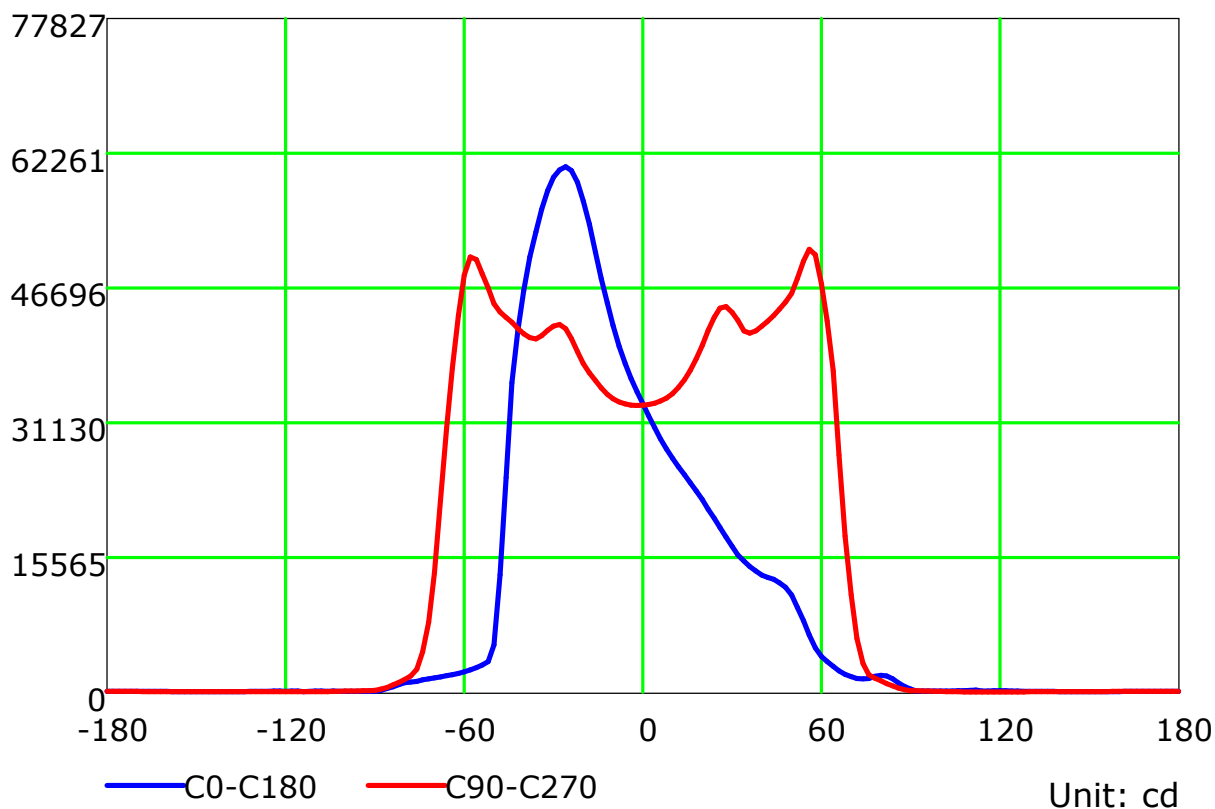
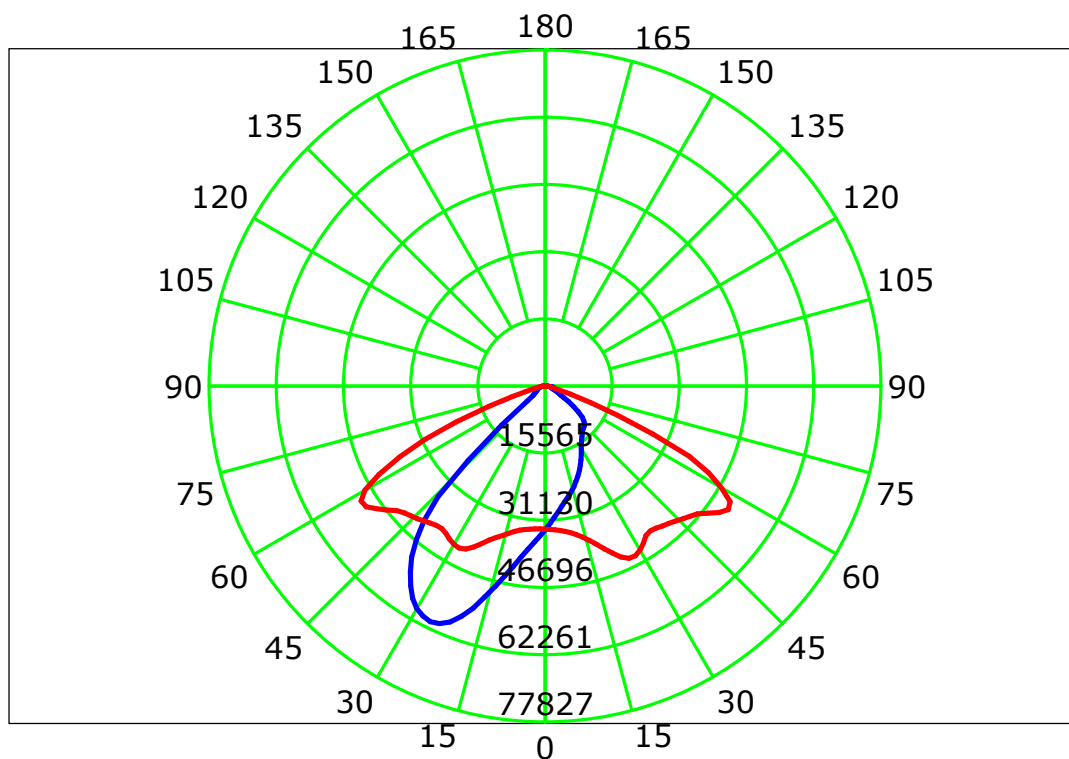
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

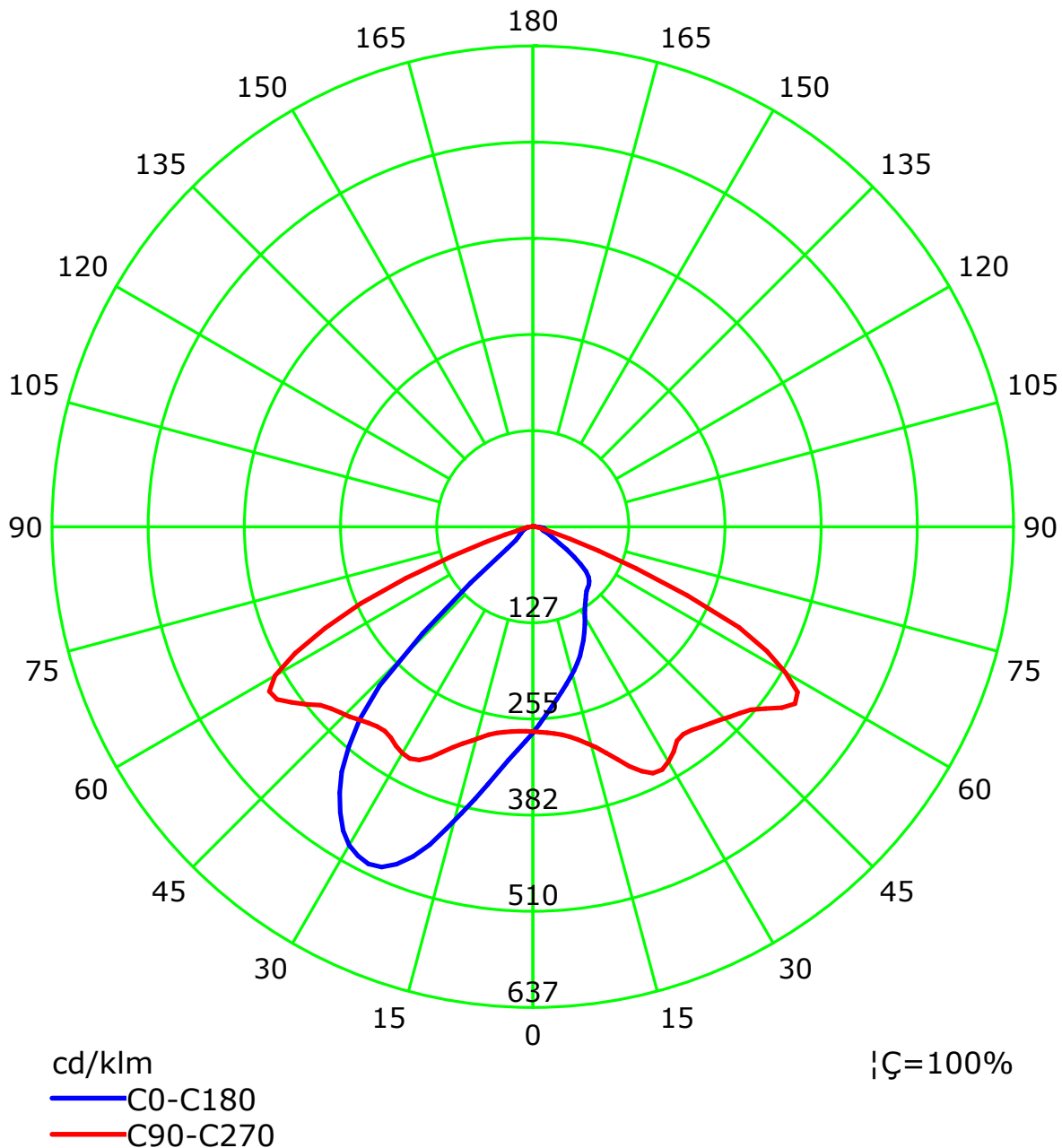
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

Test Device: LSG-1800B

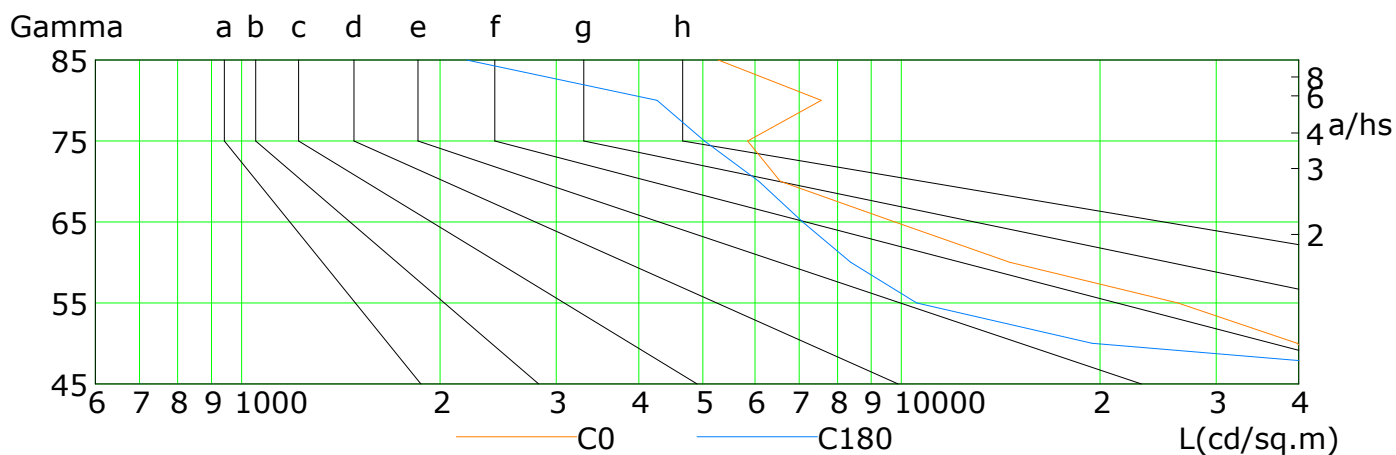
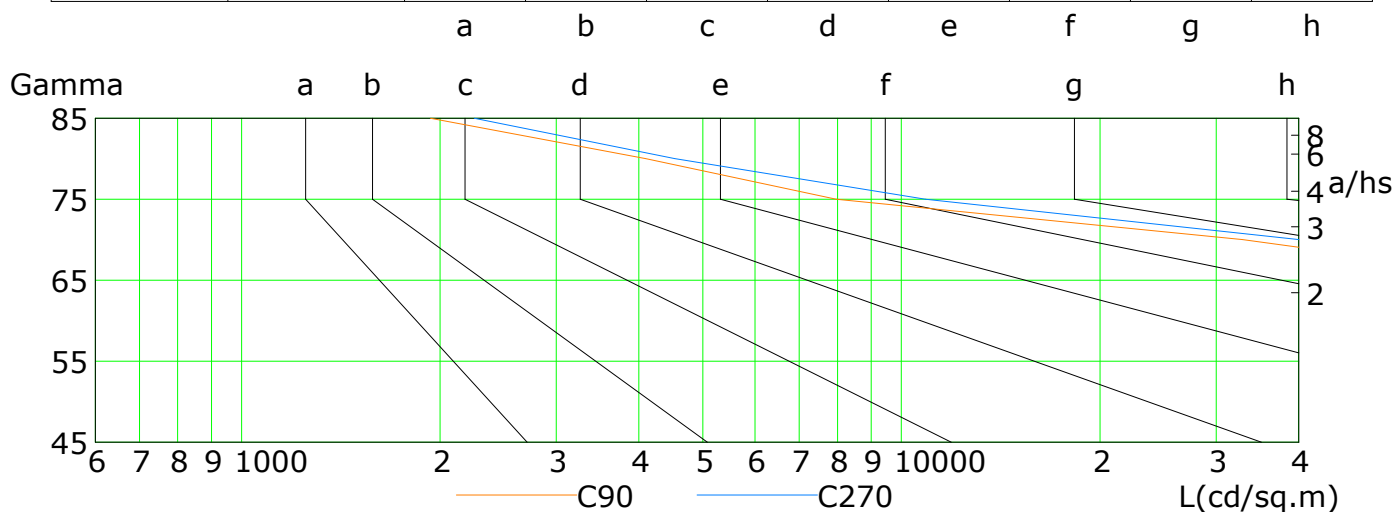
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	46271	39811	26237	14604	9775	6551	5847	7558	5276
C90	134162	137318	147927	137073	93526	32874	7972	4095	1934
C180	108904	19459	10551	8382	7084	6081	5029	4265	2194
C270	131485	133838	144046	139860	98462	40264	10879	4535	2252

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

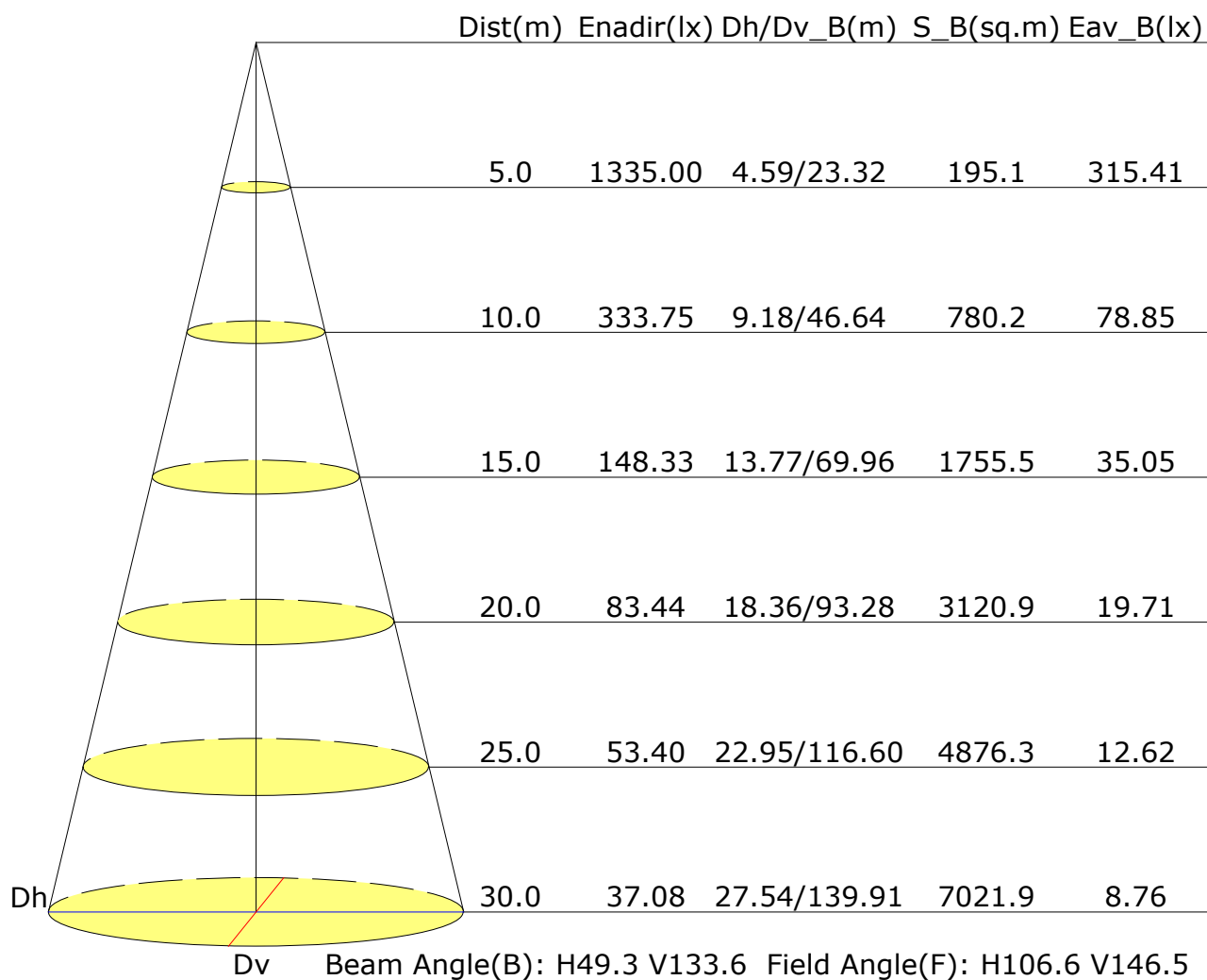
Test Device: LSG-1800B

Distance: 12.677 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	21.2	22.5	21.5	22.7	23.0	29.8	31.1	30.1	31.3	31.6
3H	21.2	22.4	21.6	22.7	23.0	30.5	31.7	30.9	32.0	32.3
4H	21.3	22.4	21.6	22.7	23.0	30.5	31.6	30.8	31.9	32.2
6H	21.4	22.4	21.8	22.7	23.1	30.4	31.4	30.8	31.8	32.1
8H	21.5	22.5	21.9	22.8	23.1	30.4	31.4	30.8	31.7	32.0
12H	21.6	22.5	21.9	22.8	23.2	30.3	31.3	30.7	31.6	32.0
X=4H Y=2H	22.4	23.6	22.8	23.8	24.2	29.6	30.8	30.0	31.1	31.4
3H	22.5	23.5	22.9	23.8	24.2	30.4	31.4	30.8	31.7	32.1
4H	22.6	23.4	23.0	23.8	24.1	30.4	31.3	30.8	31.6	32.0
6H	22.7	23.4	23.1	23.8	24.2	30.4	31.1	30.8	31.5	31.9
8H	22.8	23.5	23.2	23.9	24.3	30.3	31.0	30.8	31.4	31.8
12H	22.9	23.5	23.3	23.9	24.4	30.3	30.9	30.8	31.3	31.8
X=8H Y=4H	22.6	23.3	23.1	23.7	24.1	30.3	31.0	30.8	31.4	31.8
6H	22.8	23.3	23.3	23.8	24.2	30.3	30.8	30.7	31.3	31.7
8H	22.9	23.4	23.4	23.8	24.3	30.2	30.7	30.7	31.2	31.7
12H	23.0	23.4	23.5	23.9	24.4	30.2	30.6	30.7	31.1	31.6
X=12H Y=4H	22.6	23.2	23.0	23.6	24.1	30.3	30.9	30.7	31.3	31.8
6H	22.8	23.2	23.3	23.7	24.2	30.2	30.7	30.7	31.2	31.7
8H	22.9	23.3	23.4	23.8	24.3	30.2	30.6	30.7	31.1	31.6
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.9					+0.5/-0.4				
S=1.5H	+1.4/-3.8					+1.9/-2.3				
S=2.0H	+2.2/-5.7					+3.7/-5.4				

Calculate in accordance with CIE Pub.117. The table is revised with 122022lm ($8\log(F/F_0) = 16.7$).

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: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.62	0.72	0.79	0.85	0.92	0.96	0.99	1.03	1.06	
	0.30		0.55	0.65	0.73	0.79	0.87	0.92	0.95	1.00	1.03	
	0.20		0.50	0.59	0.68	0.74	0.82	0.88	0.91	0.97	1.00	
0.50	0.50	0.20	0.61	0.70	0.77	0.82	0.89	0.93	0.96	0.99	1.02	
	0.30		0.54	0.63	0.71	0.77	0.84	0.89	0.92	0.96	0.99	
	0.20		0.49	0.59	0.67	0.73	0.80	0.85	0.89	0.94	0.97	
0.30	0.50	0.20	0.59	0.68	0.75	0.80	0.86	0.90	0.92	0.96	0.98	
	0.30		0.53	0.62	0.70	0.75	0.82	0.86	0.89	0.93	0.96	
	0.20		0.49	0.58	0.66	0.72	0.79	0.83	0.87	0.91	0.94	
0.00	0.00	0.00	0.47	0.55	0.63	0.69	0.75	0.80	0.83	0.87	0.89	
Rating:798W 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 = 1.50									
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	0.91	0.76	0.62	0.53	0.42	0.34	0.29	0.22	0.18	
	0.30		0.76	0.65	0.54	0.47	0.38	0.31	0.27	0.21	0.17	
	0.20		0.65	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.88	0.72	0.60	0.51	0.40	0.36	0.27	0.21	0.17	
	0.30		0.74	0.63	0.53	0.46	0.36	0.30	0.26	0.20	0.16	
	0.20		0.65	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.85	0.69	0.57	0.49	0.38	0.31	0.26	0.20	0.16	
	0.30		0.73	0.61	0.51	0.44	0.35	0.29	0.24	0.19	0.15	
	0.20		0.64	0.55	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.53	0.44	0.36	0.31	0.24	0.20	0.17	0.13	0.11	
Rating:798W 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 = 1.50									
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	0.16	0.18	0.18	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		0.05	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	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	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	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	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:798W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												