

Report No.: 1

Test Time: 25.02.2020 22:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 44LED 200W 5000K 60x150 gr.

Number of Lamps: 1

Luminous Length (mm): 174

Luminous Width (mm): 220

Luminous Height (mm): 338

Voltage: 230 V

Current: 0.891 A

Power: 199.80 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 30429.2 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 30429.2 lm

Efficiency: 100%

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): 152.35

Central Intensity: 8322.83 cd

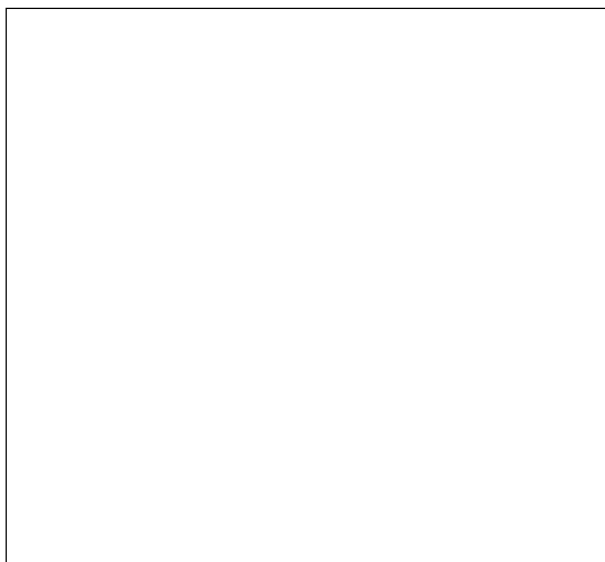
Max. Intensity: 15526.47 cd

Pos of Max. Intensity: H135 V32

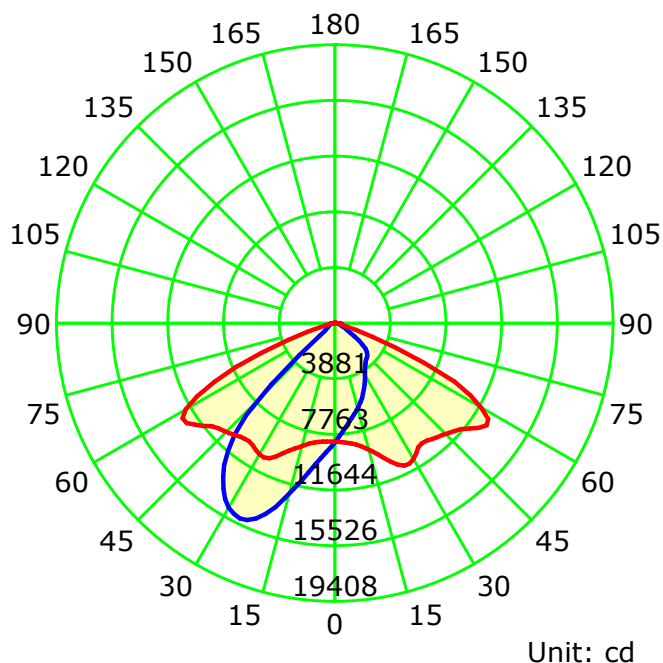
S/MH(C0/C180): 1.51

S/MH(C90/C270): 1.88

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

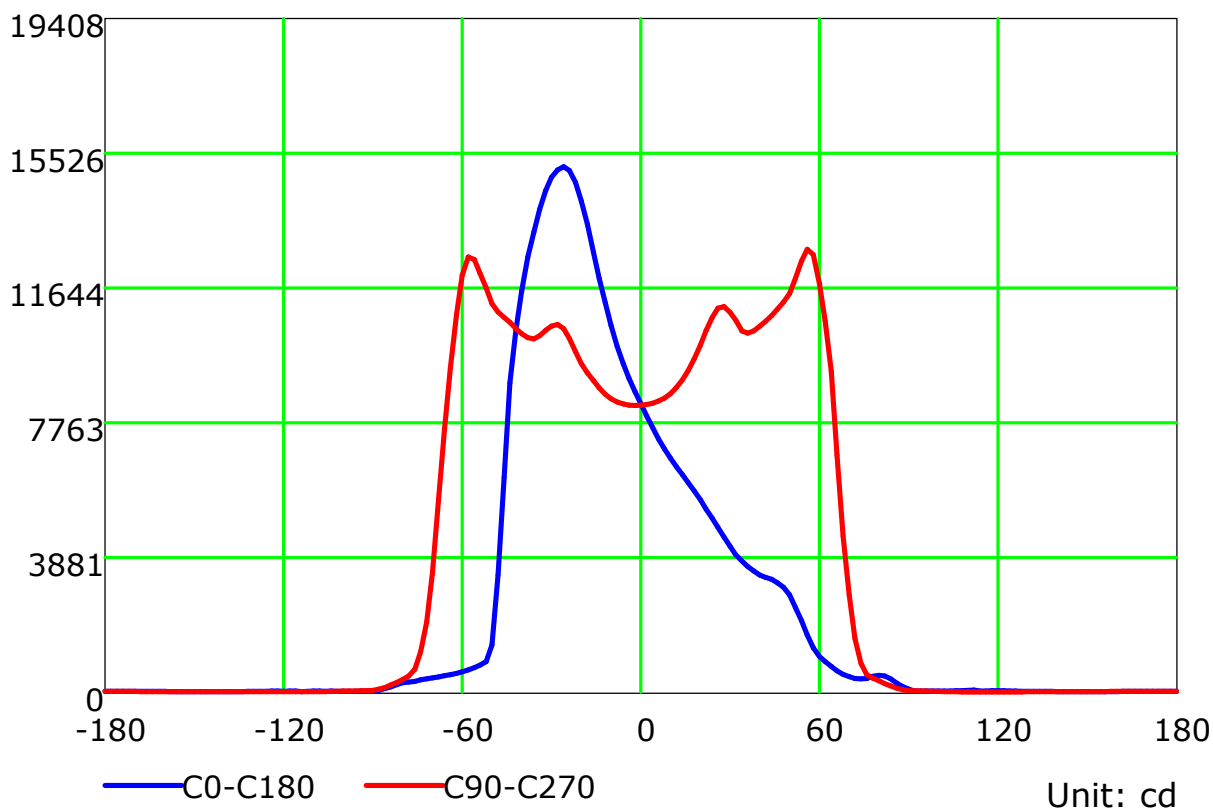
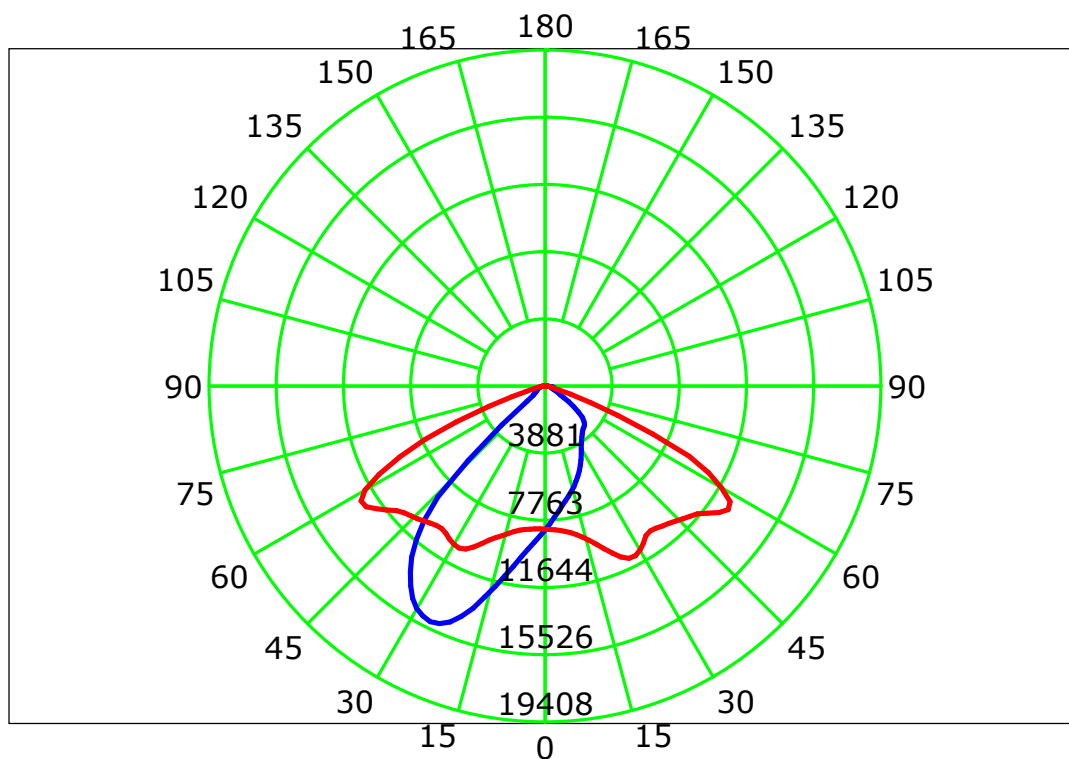
Test Device: LSG-1800B

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 (°):0.0-180.0:2.0

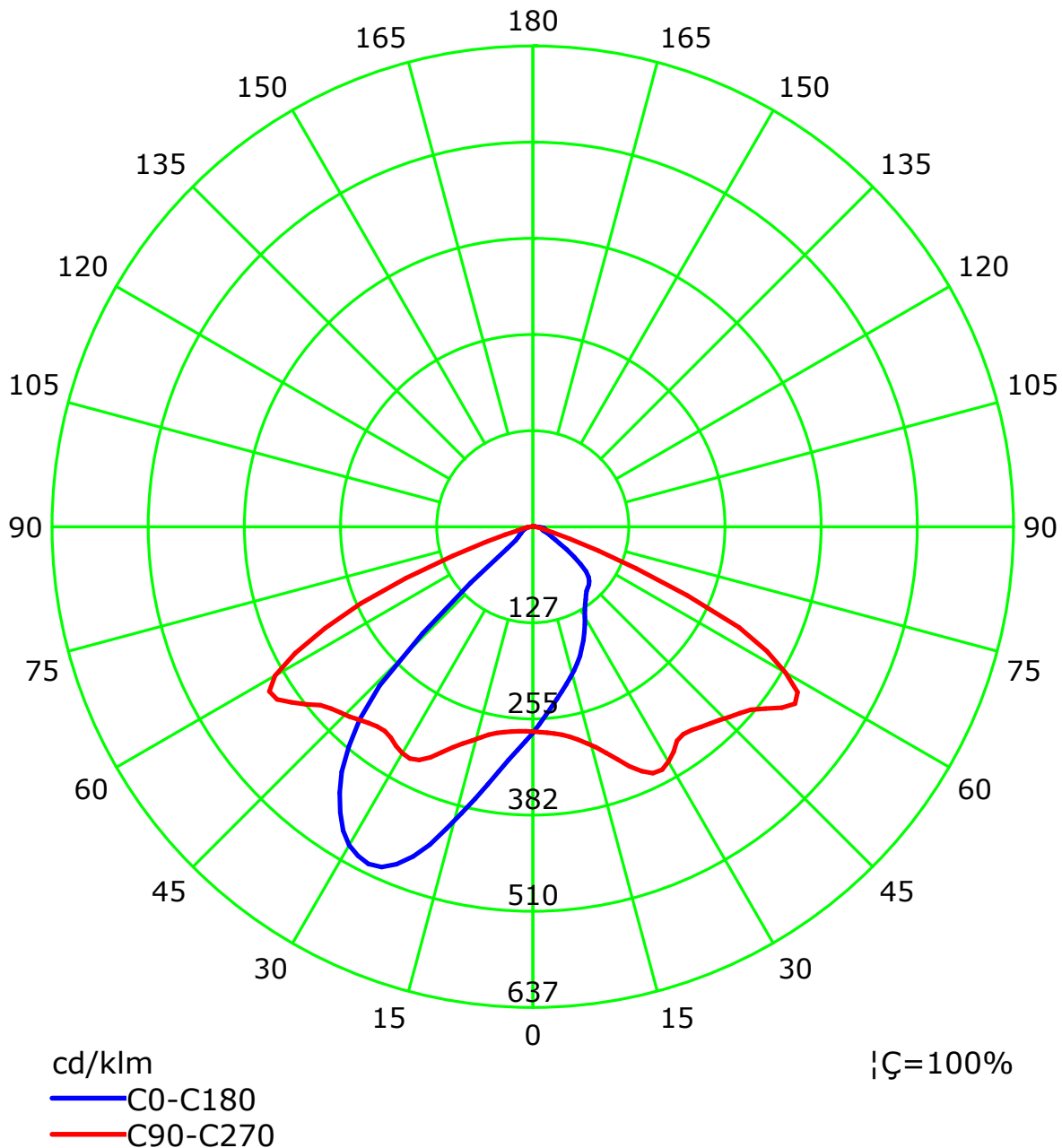
Test Device: LSG-1800B

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

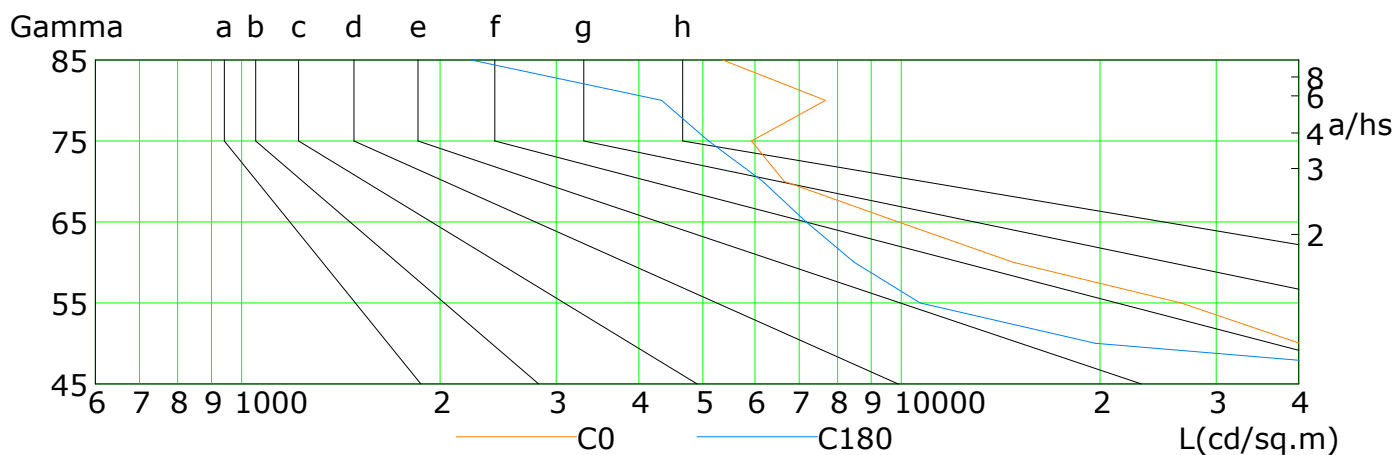
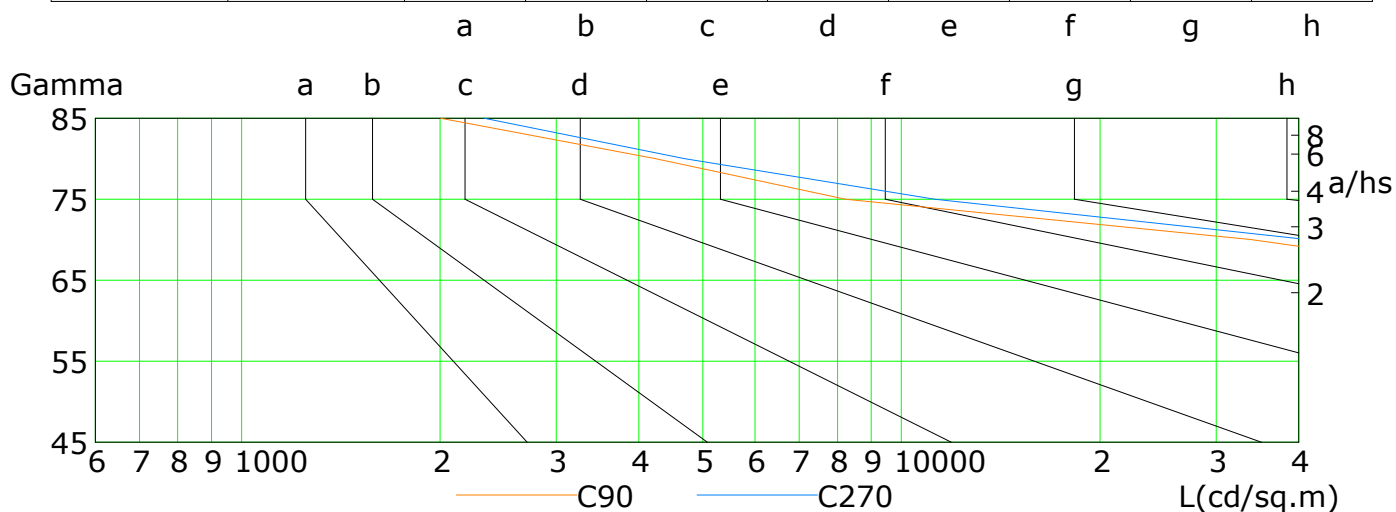
Distance: 12.677 m

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	46741	40243	26539	14782	9901	6640	5930	7671	5360
C90	137461	140889	151976	141006	96333	33904	8233	4234	2002
C180	110011	19670	10673	8484	7175	6163	5100	4329	2228
C270	134719	137319	147989	143874	101417	41526	11234	4690	2332

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

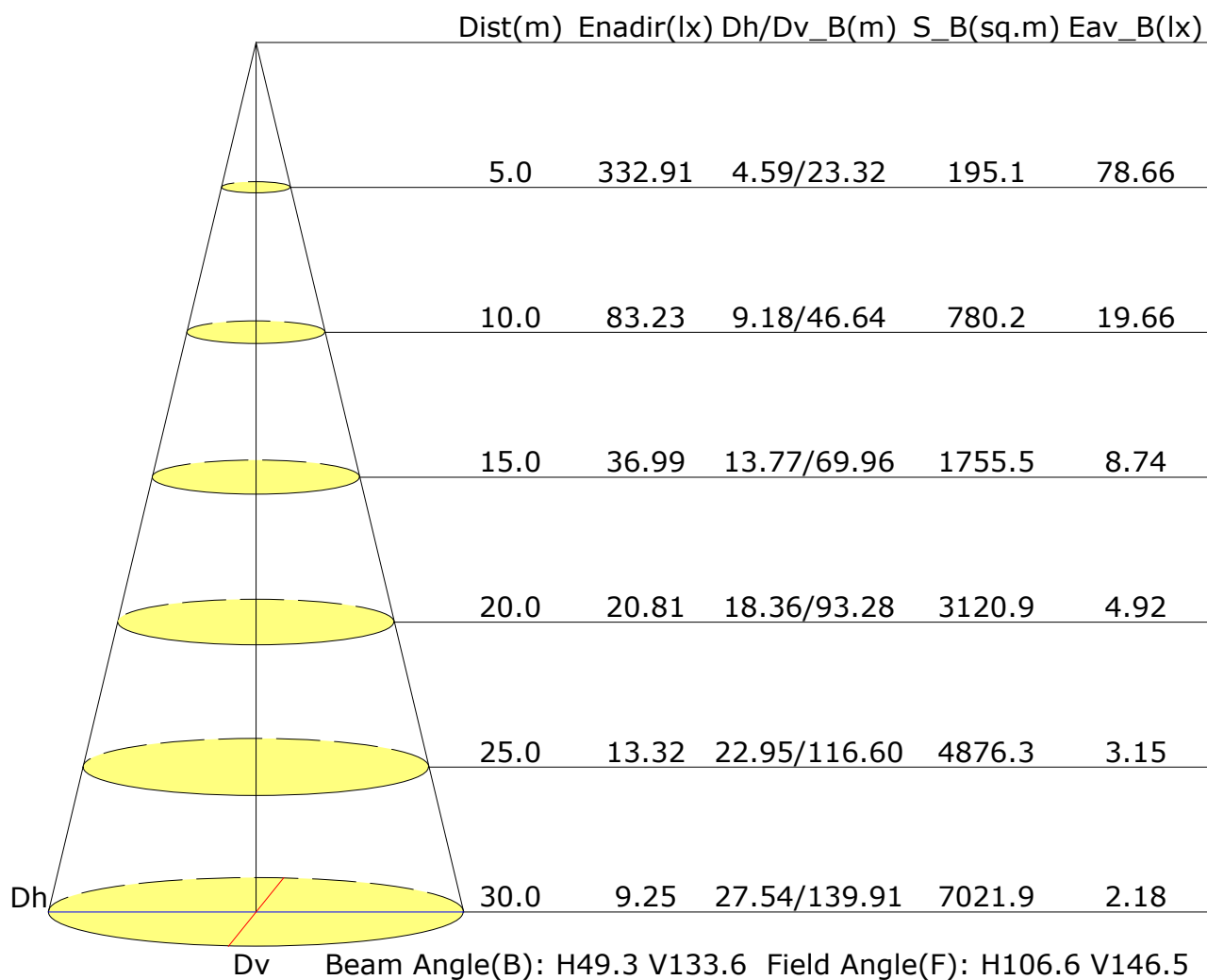
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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:

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	22.8	23.0	29.8	31.2	30.2	31.4	31.7
3H	21.3	22.5	21.6	22.8	23.0	30.6	31.8	31.0	32.1	32.4
4H	21.3	22.4	21.7	22.7	23.0	30.6	31.7	30.9	32.0	32.3
6H	21.4	22.5	21.8	22.8	23.1	30.5	31.5	30.9	31.9	32.2
8H	21.5	22.5	21.9	22.9	23.2	30.5	31.5	30.8	31.8	32.1
12H	21.6	22.6	22.0	22.9	23.3	30.4	31.4	30.8	31.7	32.1
X=4H Y=2H	22.5	23.6	22.9	23.9	24.2	29.7	30.8	30.1	31.1	31.5
3H	22.6	23.5	23.0	23.9	24.2	30.5	31.5	30.9	31.8	32.2
4H	22.6	23.5	23.0	23.8	24.2	30.5	31.3	30.9	31.7	32.1
6H	22.8	23.5	23.2	23.9	24.3	30.5	31.2	30.9	31.6	32.0
8H	22.9	23.5	23.3	23.9	24.4	30.4	31.1	30.9	31.5	31.9
12H	22.9	23.6	23.4	24.0	24.4	30.4	31.0	30.9	31.4	31.9
X=8H Y=4H	22.7	23.4	23.1	23.8	24.2	30.4	31.1	30.9	31.5	31.9
6H	22.8	23.4	23.3	23.8	24.3	30.4	30.9	30.8	31.3	31.8
8H	23.0	23.5	23.5	23.9	24.4	30.3	30.8	30.8	31.3	31.8
12H	23.1	23.5	23.6	24.0	24.5	30.3	30.7	30.8	31.2	31.7
X=12H Y=4H	22.7	23.3	23.1	23.7	24.1	30.4	31.0	30.8	31.4	31.9
6H	22.8	23.3	23.3	23.8	24.3	30.3	30.8	30.8	31.3	31.8
8H	23.0	23.4	23.5	23.9	24.4	30.3	30.7	30.8	31.2	31.7
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 30429Im ($8\log(F/F_0) = 11.9$).

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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 = 1.50									
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:200W 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:200W 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:200W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												