

Report No.: 1

Test Time: 26.02.2020 20:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 800W 5000K 30gr.

Number of Lamps: 1

Luminous Width (mm): 455

Voltage: 229.8 V

Power: 798.20 W

Luminous Length (mm): 345

Luminous Height (mm): 695

Current: 3.552 A

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 111045.3 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 59.4, 58.9, 62.4, 62.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 31.0, 29.3, 31.6, 31.4

Luminaire Efficacy Rating (LER): 139.17

Max. Intensity: 248699.25 cd

S/MH(C0/C180): 0.52

Total Rated Lamp Lumens: 111045.3 lm

Efficiency: 100%

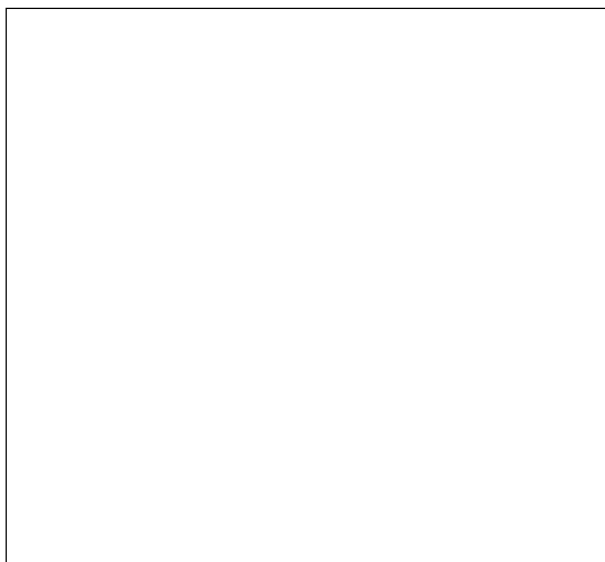
Upward Ratio: 3%

Central Intensity: 242509.84 cd

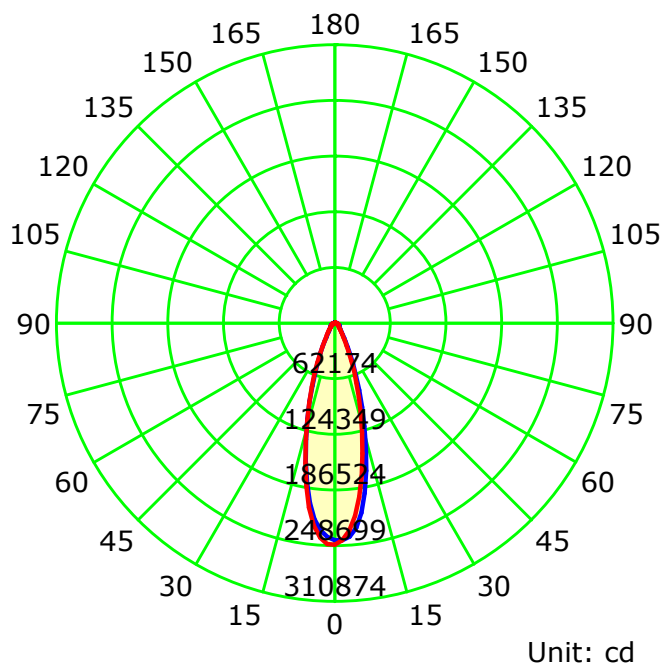
Pos of Max. Intensity: H315 V2

S/MH(C90/C270): 0.49

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

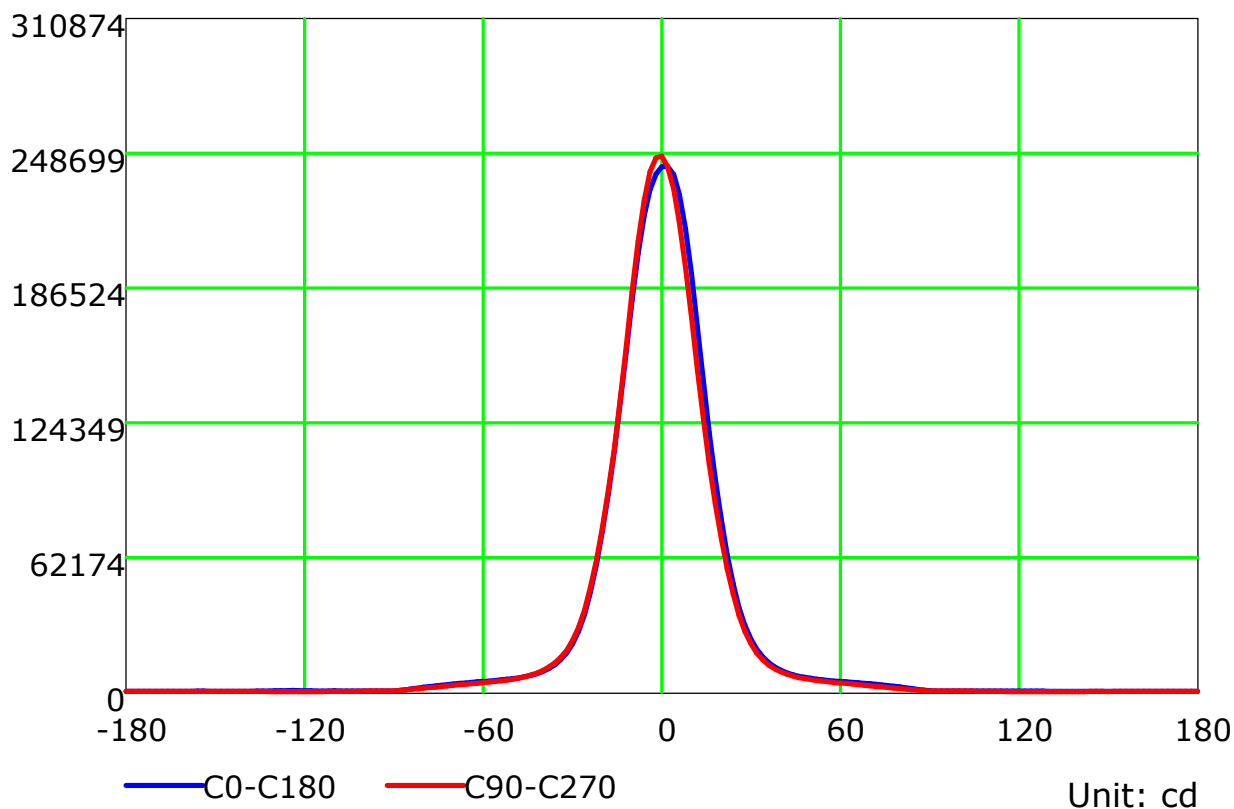
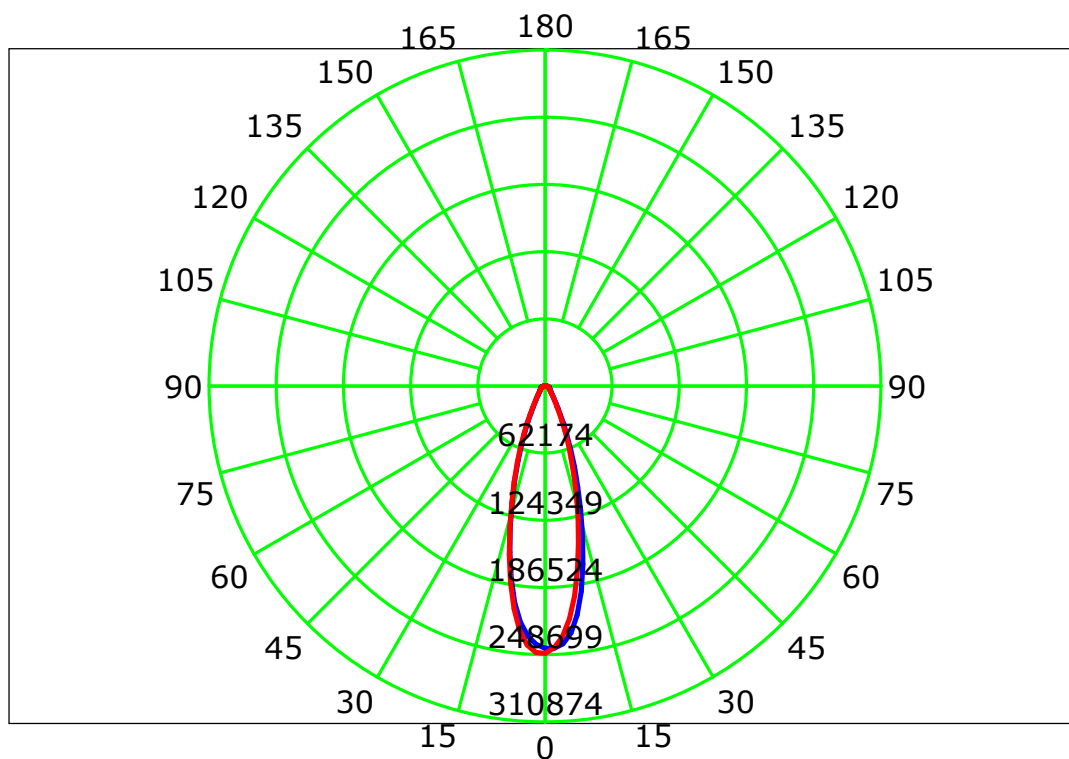
Test Device: LSG-1800B

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

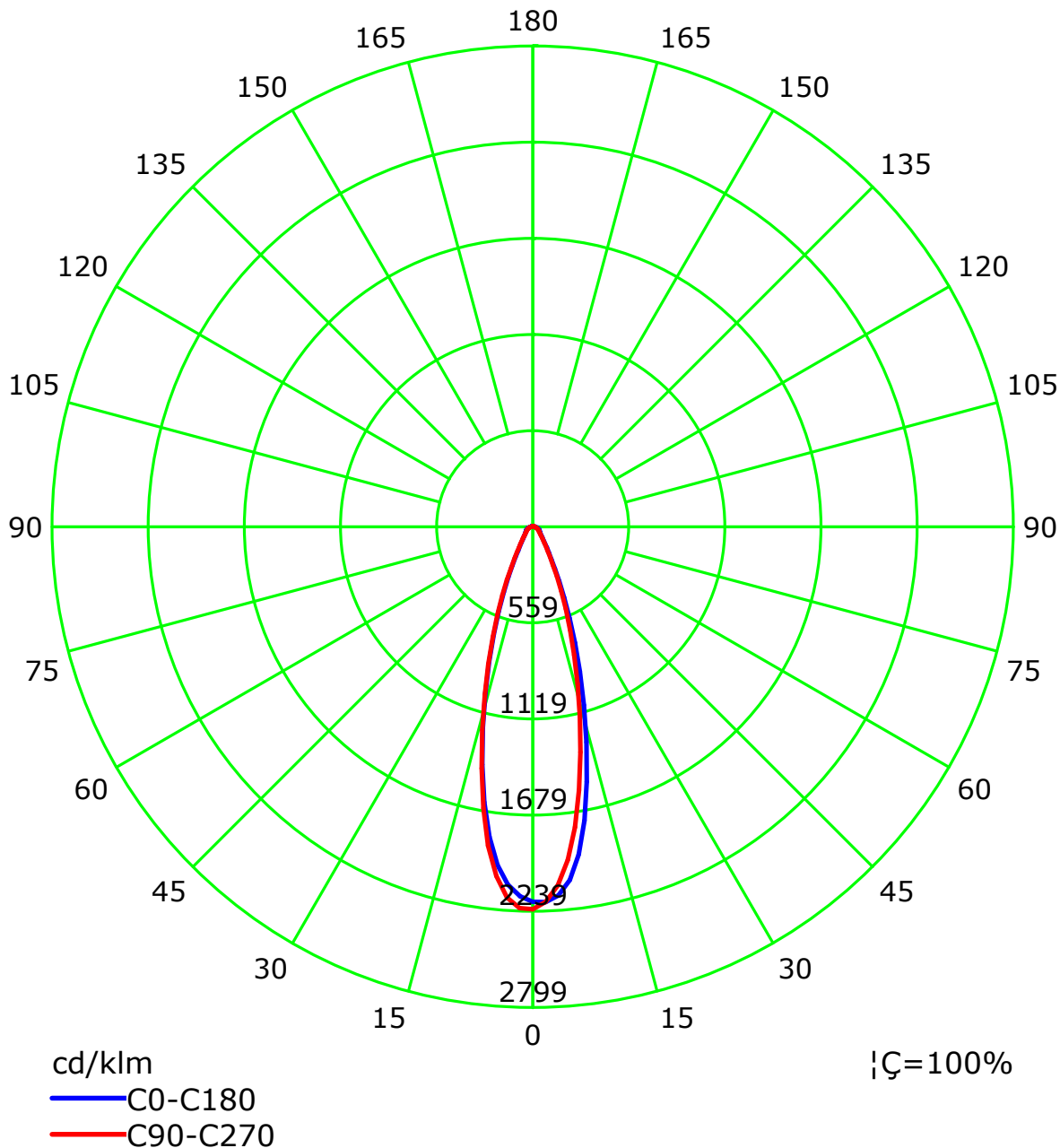
Test Device: LSG-1800B

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

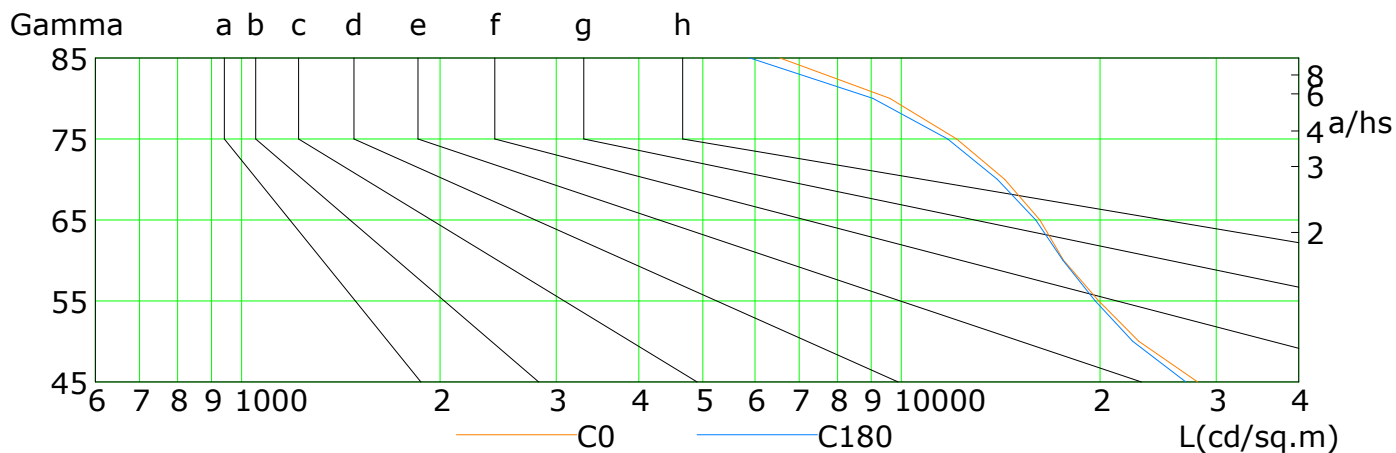
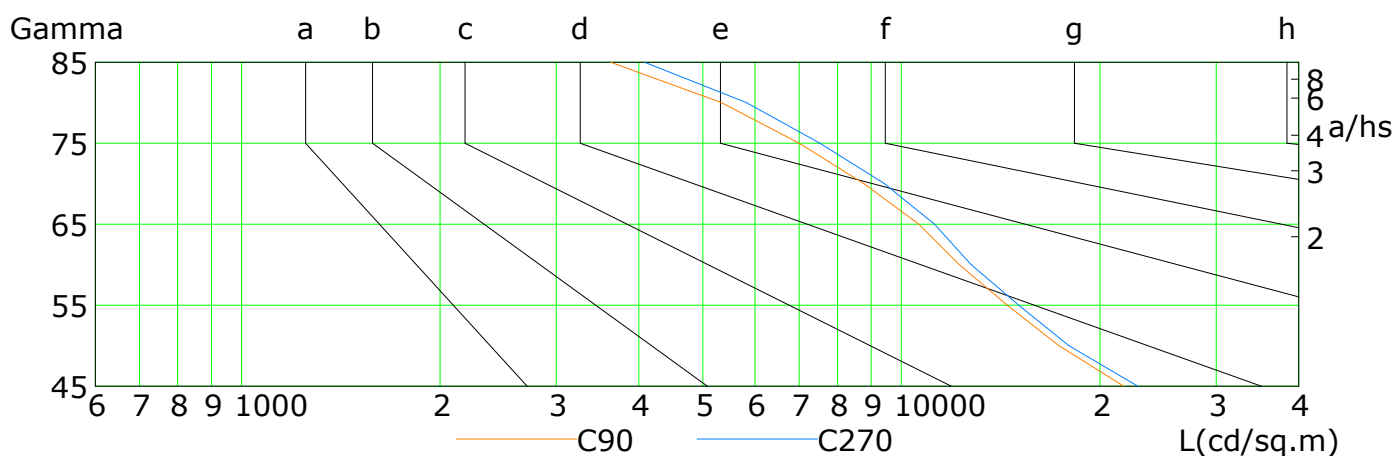
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	28131	22904	19902	17611	16204	14331	12122	9601	6543
C90	21731	17319	14475	12229	10631	8769	7003	5337	3624
C180	26976	22423	19679	17579	15979	13971	11753	9046	5892
C270	22822	17931	15063	12747	11226	9419	7531	5822	4083

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

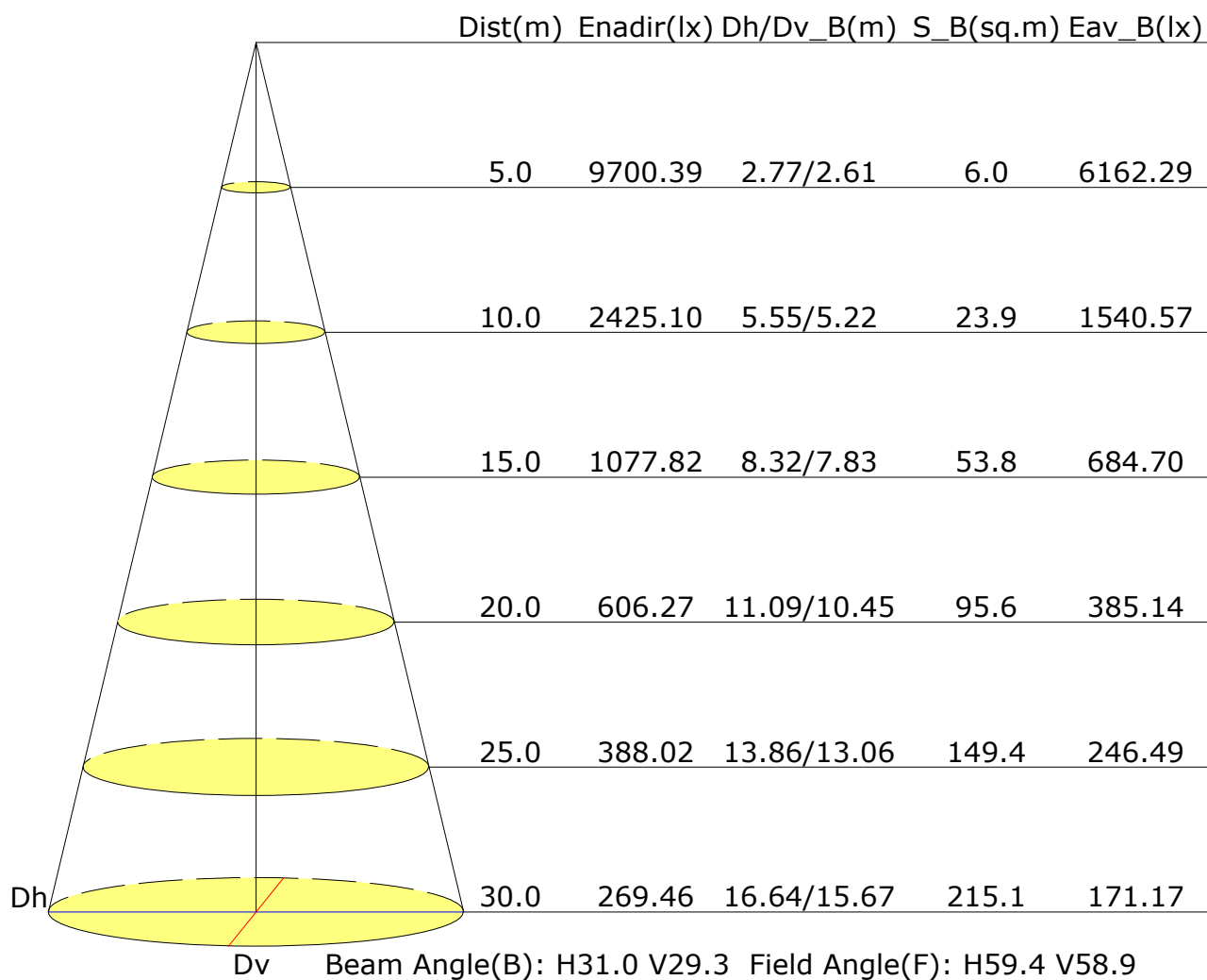
Test Device: LSG-1800B

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	18.8	19.7	19.1	20.0	20.2	18.1	19.0	18.4	19.2	19.5
3H	20.2	21.0	20.5	21.3	21.6	19.1	19.9	19.5	20.2	20.5
4H	20.8	21.6	21.2	21.9	22.2	19.6	20.3	20.0	20.7	21.0
6H	21.4	22.1	21.7	22.4	22.8	19.9	20.7	20.3	21.0	21.4
8H	21.6	22.2	22.0	22.6	23.0	20.1	20.8	20.5	21.1	21.5
12H	21.7	22.4	22.1	22.7	23.1	20.2	20.8	20.6	21.2	21.6
X=4H Y=2H	19.2	19.9	19.5	20.3	20.6	18.6	19.3	18.9	19.6	20.0
3H	20.7	21.4	21.2	21.8	22.2	19.8	20.5	20.2	20.8	21.2
4H	21.5	22.1	21.9	22.5	22.9	20.4	21.0	20.8	21.4	21.8
6H	22.2	22.7	22.6	23.1	23.6	20.9	21.4	21.3	21.8	22.3
8H	22.4	22.9	22.9	23.4	23.8	21.1	21.6	21.5	22.0	22.5
12H	22.6	23.1	23.1	23.5	24.0	21.2	21.6	21.7	22.1	22.6
X=8H Y=4H	21.7	22.2	22.2	22.6	23.1	20.7	21.2	21.2	21.6	22.1
6H	22.5	22.9	23.0	23.3	23.9	21.3	21.7	21.8	22.2	22.7
8H	22.8	23.2	23.3	23.7	24.2	21.6	21.9	22.1	22.4	23.0
12H	23.1	23.4	23.6	23.9	24.5	21.8	22.1	22.4	22.6	23.2
X=12H Y=4H	21.7	22.1	22.2	22.6	23.1	20.7	21.1	21.2	21.6	22.1
6H	22.5	22.9	23.0	23.4	23.9	21.4	21.7	21.9	22.2	22.8
8H	22.9	23.2	23.4	23.7	24.3	21.7	22.0	22.2	22.5	23.1
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.3					+0.7/-0.4				
S=1.5H	+1.2/-0.6					+1.4/-0.8				
S=2.0H	+2.0/-1.0					+2.3/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 111045lm ($8\log(F/F_0) = 16.4$).

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 = 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	0.88	0.92	0.95	0.99	1.02	1.04	1.07	1.09	
	0.30		0.77	0.83	0.87	0.90	0.95	0.98	1.01	1.04	1.06	
	0.20		0.73	0.79	0.83	0.87	0.92	0.95	0.98	1.02	1.04	
0.50	0.50	0.20	0.80	0.85	0.89	0.92	0.96	0.98	1.00	1.02	1.04	
	0.30		0.76	0.81	0.85	0.88	0.92	0.95	0.97	1.00	1.02	
	0.20		0.73	0.78	0.82	0.85	0.90	0.93	0.95	0.98	1.00	
0.30	0.50	0.20	0.79	0.84	0.87	0.89	0.93	0.95	0.96	0.98	1.00	
	0.30		0.75	0.80	0.84	0.86	0.90	0.92	0.94	0.97	0.98	
	0.20		0.72	0.77	0.81	0.84	0.88	0.90	0.92	0.95	0.97	
0.00	0.00	0.00	0.70	0.75	0.78	0.80	0.84	0.86	0.88	0.90	0.91	
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 = 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	0.62	0.52	0.45	0.39	0.31	0.26	0.23	0.18	0.15	
	0.30		0.52	0.44	0.39	0.35	0.28	0.24	0.21	0.17	0.14	
	0.20		0.45	0.39	0.34	0.31	0.26	0.22	0.20	0.16	0.13	
0.50	0.50	0.20	0.59	0.49	0.42	0.36	0.29	0.28	0.21	0.16	0.13	
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.15	0.13	
	0.20		0.43	0.37	0.33	0.30	0.25	0.21	0.18	0.15	0.12	
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.14	0.12	
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.11	
0.00	0.00	0.00	0.28	0.24	0.20	0.18	0.14	0.12	0.11	0.08	0.07	
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 = 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	0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.17	0.18	0.20	0.20	0.22	0.23	
	0.20		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20	0.21	
0.50	0.50	0.20	0.16	0.17	0.19	0.19	0.21	0.21	0.22	0.23	0.23	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20	
0.30	0.50	0.20	0.15	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.20	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:798W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												