

Report No.: 1

Test Time: 21.11.2019 19:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 (1500) 4x80LED 0,55A 70W 5000K prozrachnoe steklo

Luminous Length (mm): 1500

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.2 V

Current: 0.317 A

Power: 69.61 W

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Measurement Flux: 10212.5 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 10212.5 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.3, 150.9, 151.8, 151.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.2, 120.2, 113.1, 113.3

Luminaire Efficacy Rating (LER): 146.76

Central Intensity: 3543.52 cd

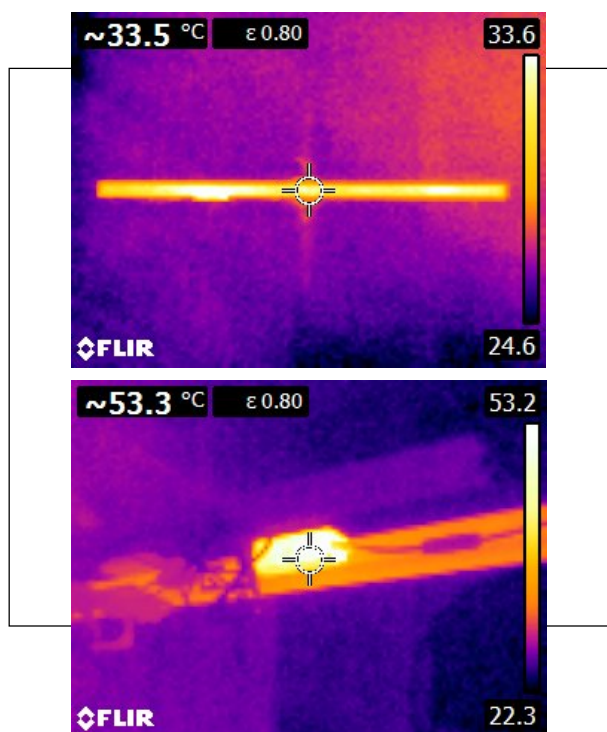
Max. Intensity: 3559.33 cd

Pos of Max. Intensity: H67.5 V6

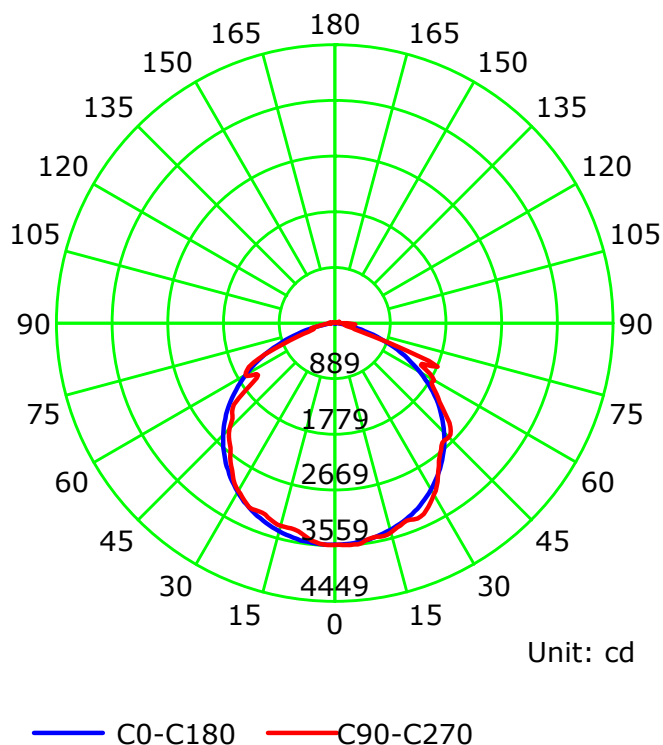
S/MH(C0/C180): 1.30

S/MH(C90/C270): 1.30

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

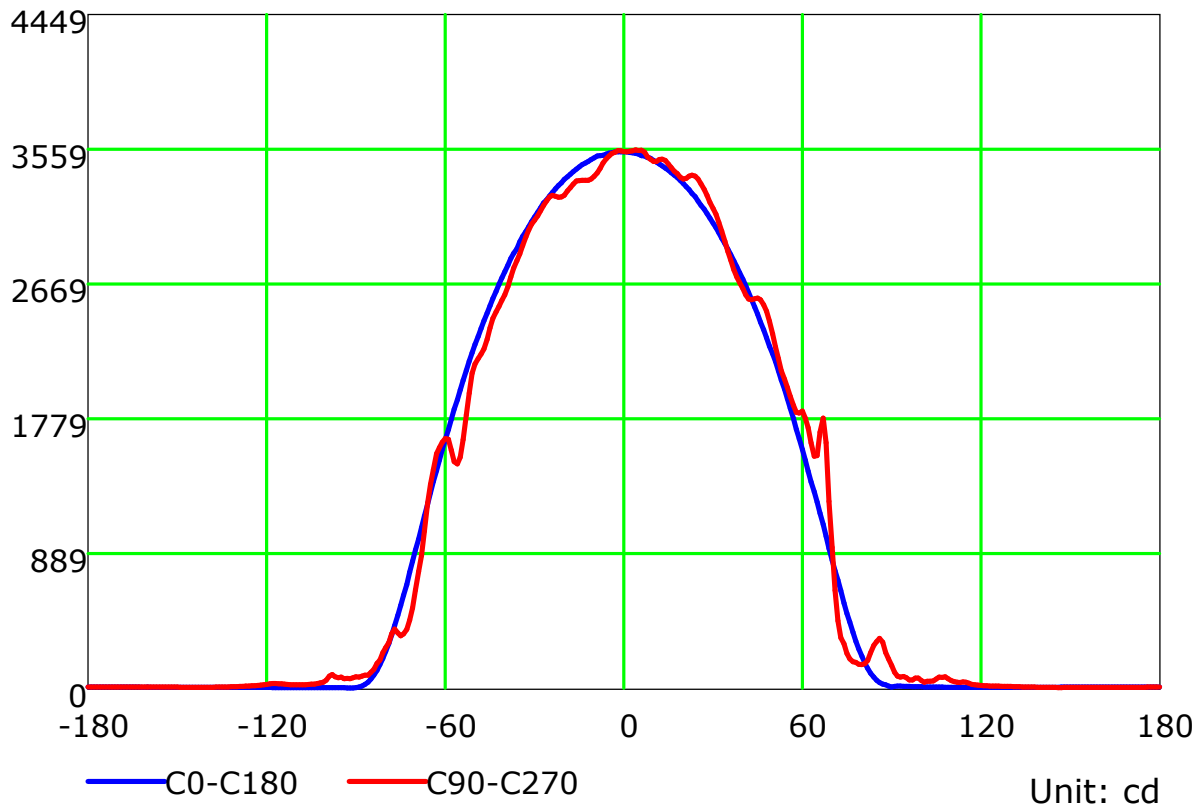
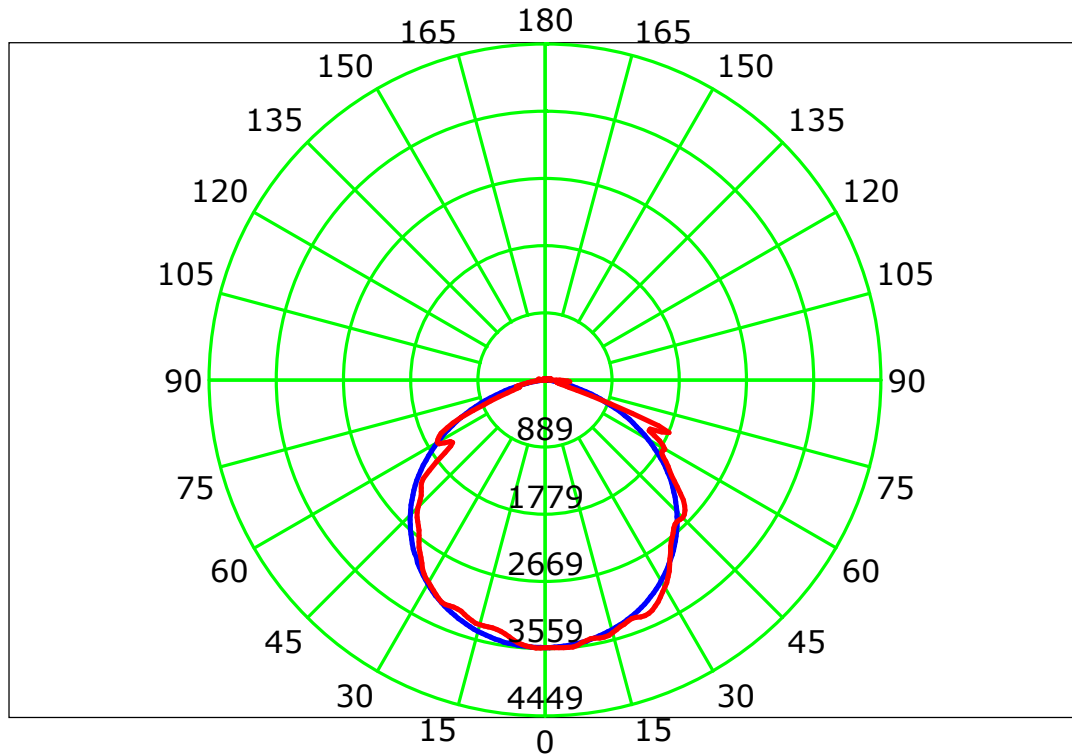
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

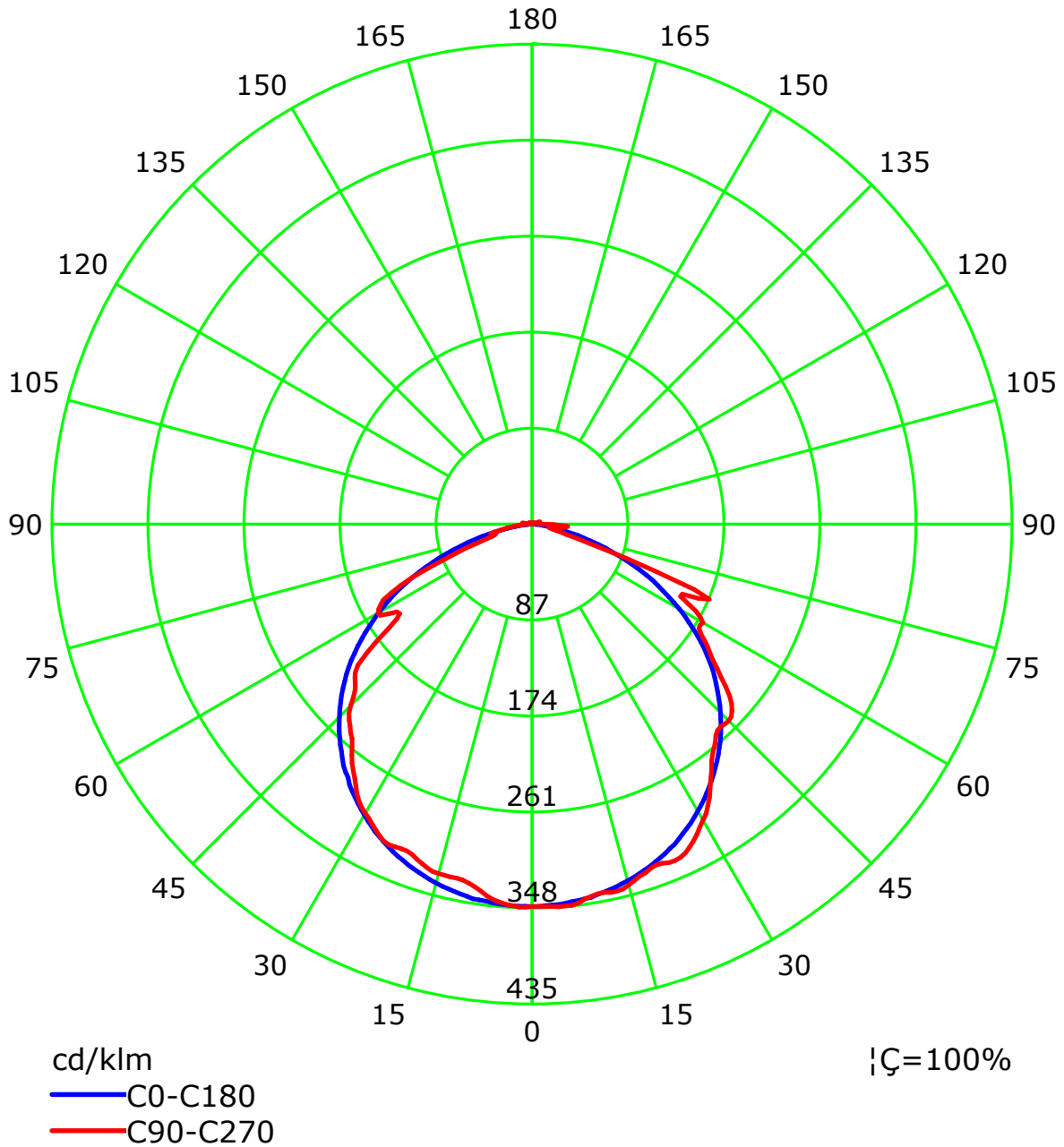
Luminous Intensity Distribution Curve



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)

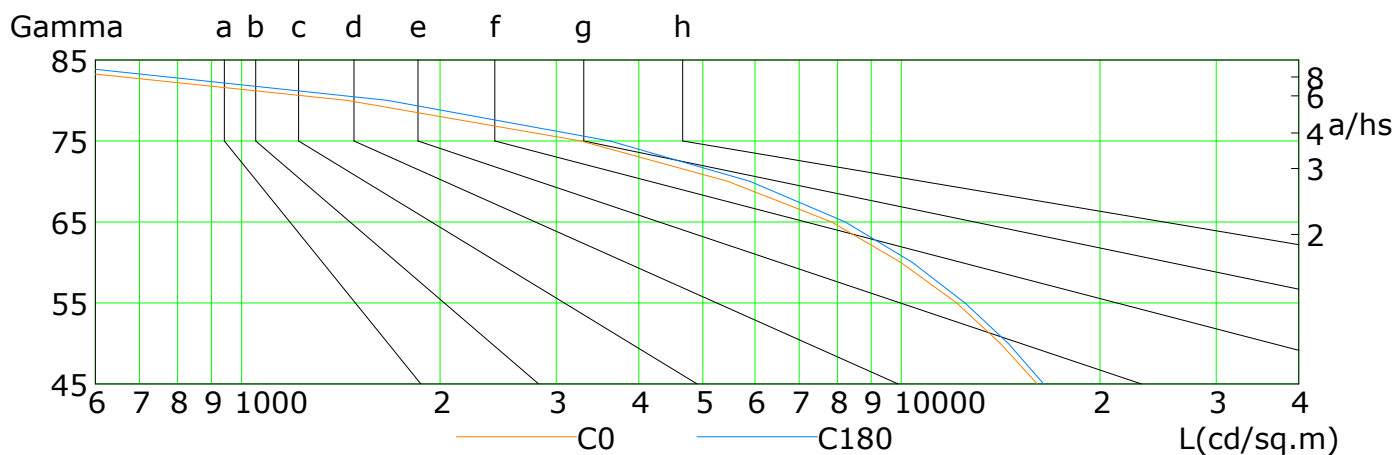
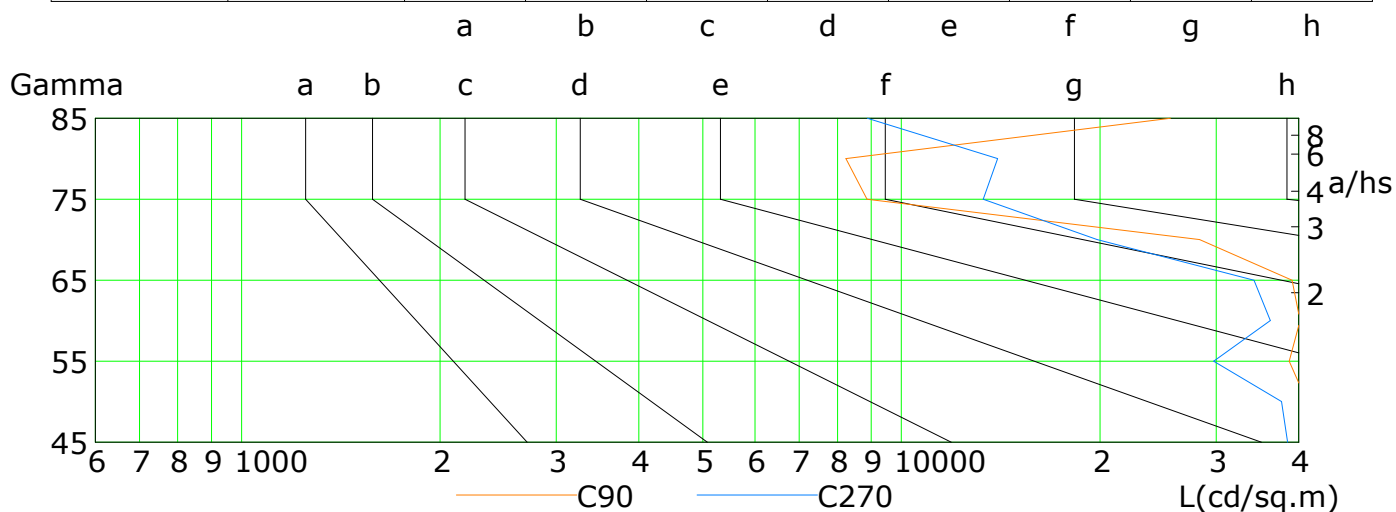


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

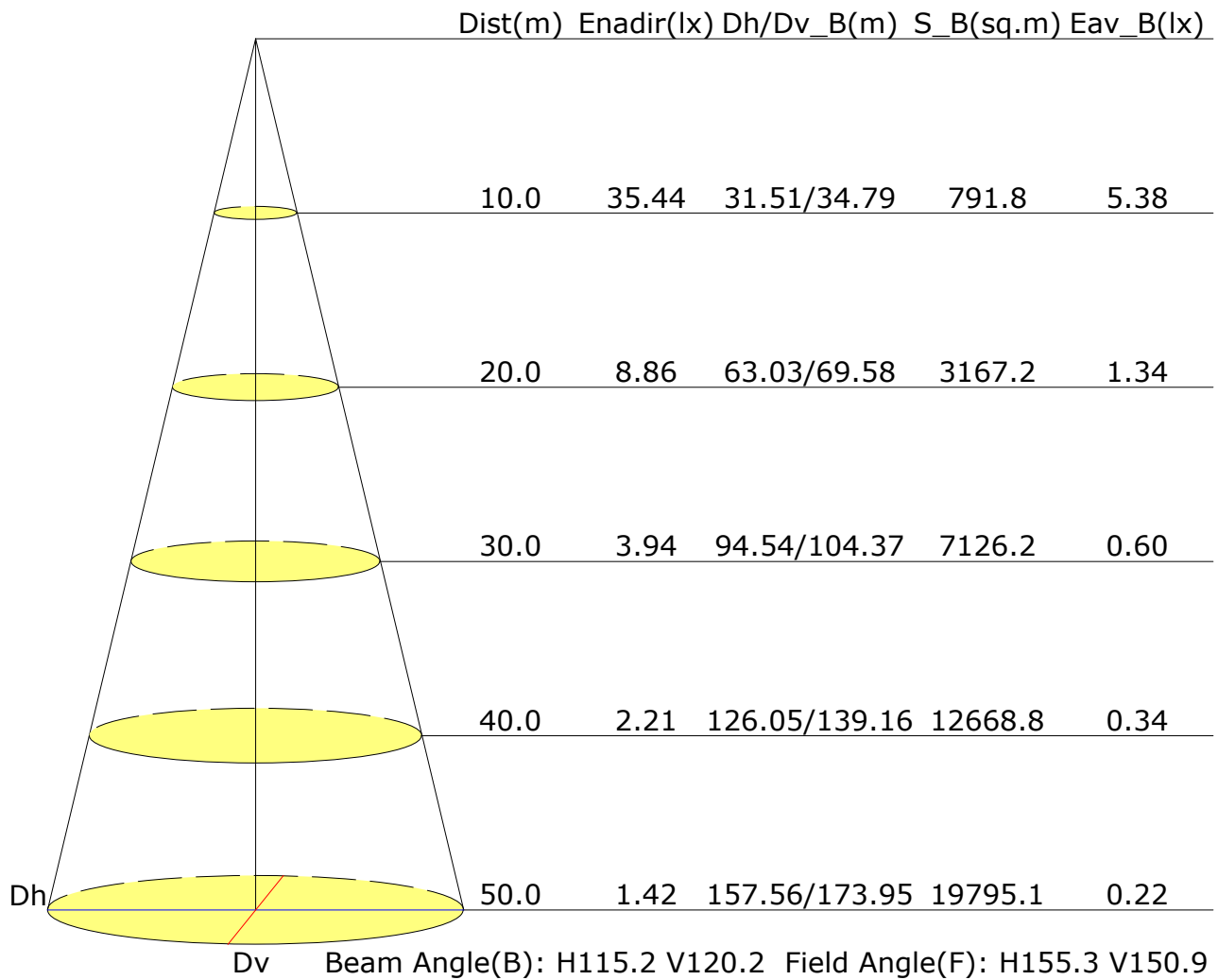


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	16066	14121	12121	9972	7833	5458	3266	1443	378
C90	41694	41211	38694	40205	39075	28321	8874	8237	25572
C180	16428	14516	12486	10379	8218	5892	3618	1662	445
C270	38503	37686	29730	36228	34235	19791	13299	13992	8884

C Plane (°):0.0-360.0: 22.5
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 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	21.4	22.8	21.7	23.0	23.3	23.6	25.0	24.0	25.2	25.5
3H	22.2	23.4	22.6	23.7	24.0	25.1	26.4	25.5	26.6	26.9
4H	22.4	23.5	22.7	23.8	24.2	25.2	26.3	25.5	26.7	27.0
6H	22.4	23.5	22.8	23.8	24.2	25.3	26.3	25.6	26.7	27.0
8H	22.4	23.4	22.8	23.8	24.1	25.3	26.3	25.7	26.7	27.0
12H	22.3	23.3	22.7	23.7	24.1	25.4	26.4	25.8	26.7	27.1
X=4H Y=2H	22.0	23.1	22.3	23.4	23.8	23.8	25.0	24.2	25.3	25.6
3H	22.9	23.9	23.3	24.2	24.6	25.4	26.4	25.8	26.7	27.1
4H	23.1	24.0	23.6	24.4	24.8	25.5	26.4	25.9	26.7	27.1
6H	23.2	24.0	23.6	24.4	24.8	25.6	26.4	26.0	26.8	27.2
8H	23.2	23.9	23.6	24.3	24.8	25.6	26.4	26.1	26.8	27.2
12H	23.2	23.8	23.6	24.3	24.7	25.8	26.4	26.2	26.9	27.3
X=8H Y=4H	23.2	23.9	23.7	24.4	24.8	25.5	26.2	25.9	26.6	27.0
6H	23.3	23.9	23.8	24.4	24.9	25.6	26.2	26.1	26.6	27.1
8H	23.3	23.8	23.8	24.3	24.8	25.7	26.2	26.2	26.7	27.2
12H	23.3	23.8	23.8	24.2	24.8	25.8	26.3	26.4	26.8	27.3
X=12H Y=4H	23.2	23.8	23.7	24.3	24.7	25.4	26.1	25.9	26.5	27.0
6H	23.3	23.8	23.8	24.3	24.8	25.6	26.1	26.1	26.6	27.1
8H	23.3	23.8	23.8	24.3	24.8	25.7	26.1	26.2	26.6	27.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.7/-1.0					+0.8/-0.8				
S=2.0H	+1.3/-1.8					+1.8/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 10212lm ($8\log(F/F_0) = 8.1$).

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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	0.57	0.67	0.75	0.80	0.88	0.92	0.96	1.00	1.03	
	0.30		0.49	0.60	0.68	0.73	0.82	0.87	0.91	0.96	1.00	
	0.20		0.43	0.54	0.62	0.68	0.77	0.83	0.87	0.93	0.97	
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99	
	0.30		0.48	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
	0.20		0.43	0.54	0.61	0.67	0.75	0.81	0.85	0.90	0.93	
0.30	0.50	0.20	0.53	0.63	0.70	0.75	0.81	0.85	0.88	0.92	0.95	
	0.30		0.47	0.57	0.65	0.70	0.77	0.82	0.85	0.90	0.92	
	0.20		0.43	0.53	0.60	0.66	0.73	0.79	0.82	0.87	0.90	
0.00	0.00	0.00	0.40	0.50	0.57	0.63	0.70	0.75	0.78	0.83	0.85	
Rating:70W 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	0.98	0.80	0.68	0.59	0.46	0.38	0.33	0.25	0.21	
	0.30		0.82	0.69	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.52	0.47	0.38	0.33	0.28	0.22	0.19	
0.50	0.50	0.20	0.94	0.77	0.65	0.56	0.44	0.40	0.31	0.24	0.20	
	0.30		0.80	0.67	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.51	0.46	0.37	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.91	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.78	0.65	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.68	0.58	0.50	0.44	0.36	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.58	0.48	0.41	0.36	0.29	0.24	0.20	0.16	0.13	
Rating:70W 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	0.17	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.11	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	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.12	0.13	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:70W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												