

Report No.:

Test Time: 26.05.2020 22:38

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,7A 72W 4000K prozrachnoe

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.1 V

Current: 0.336 A

Power: 72.88 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 9371.6 lm

Measurement Flux: 9371.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.3, 118.0, 132.9, 134.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.8, 109.4, 110.6, 111.4

Luminaire Efficacy Rating (LER): 128.64

Central Intensity: 3642.96 cd

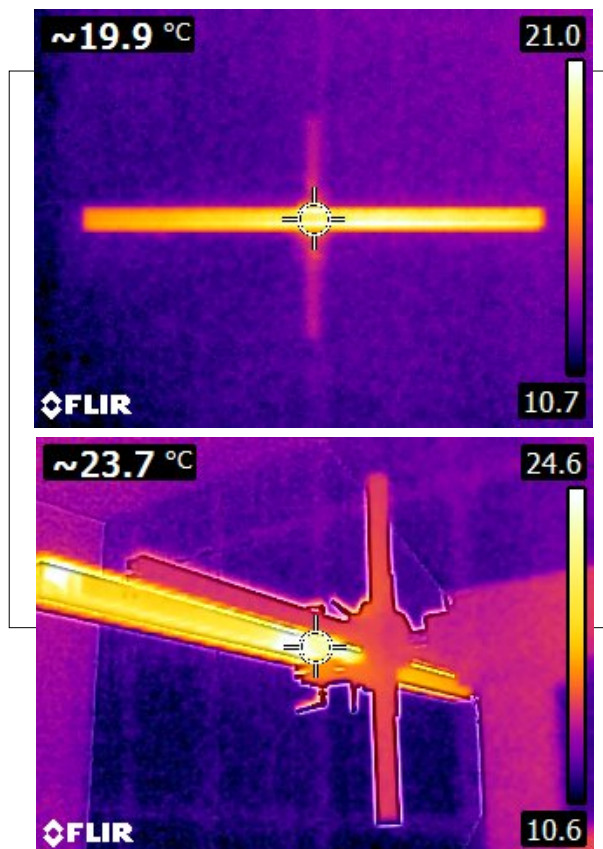
Max. Intensity: 3654.32 cd

Pos of Max. Intensity: H90 V2

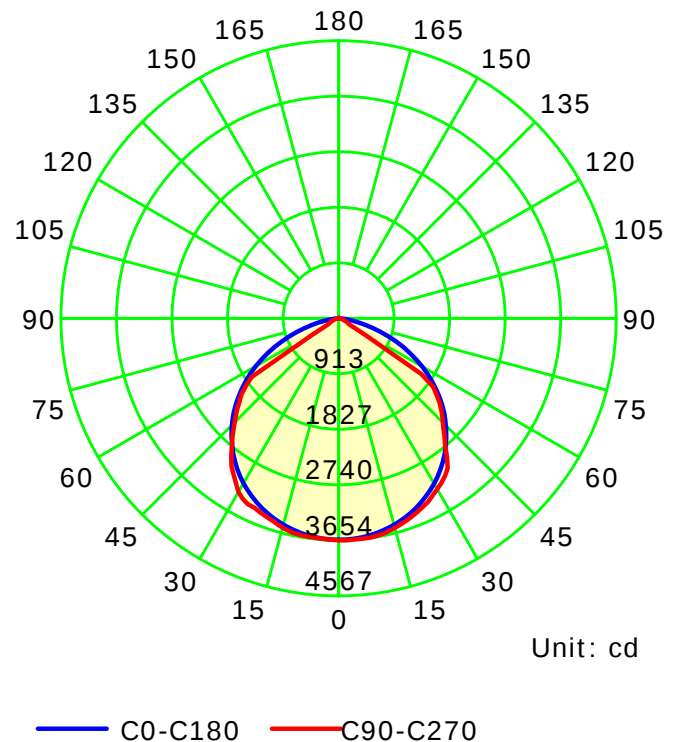
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.32

Termogramma



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

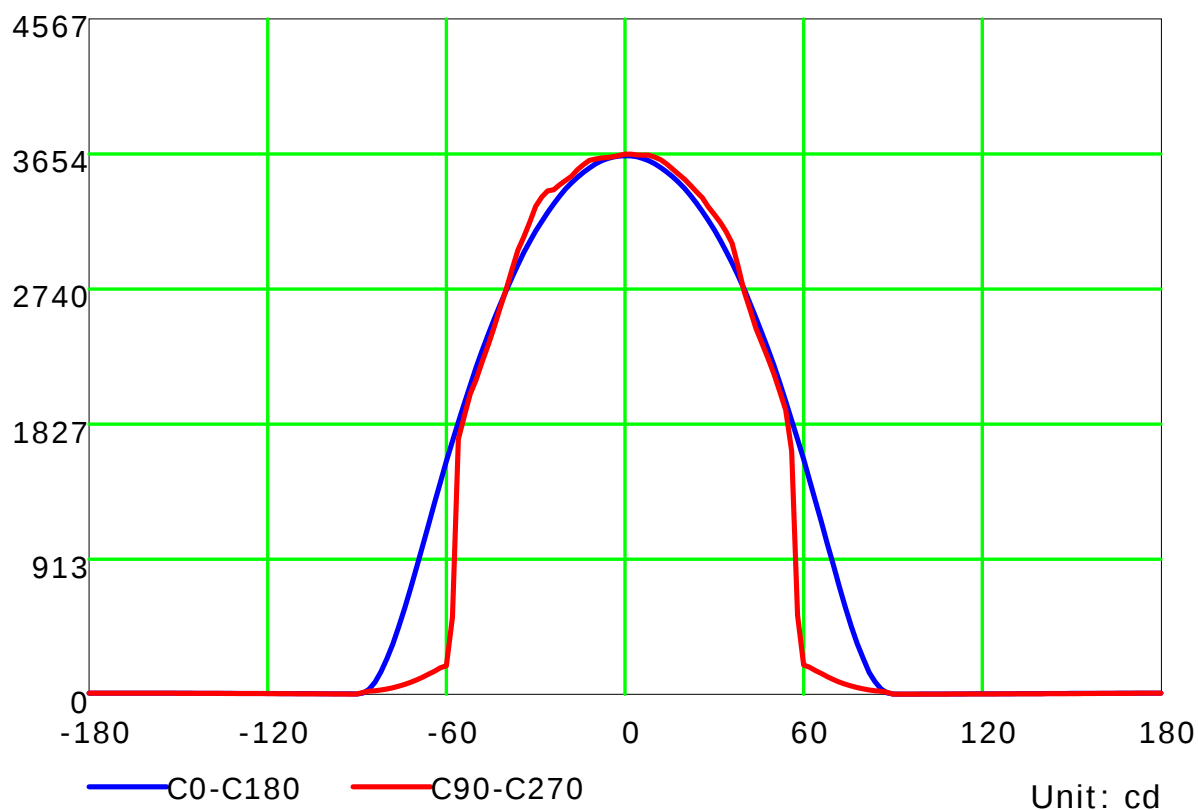
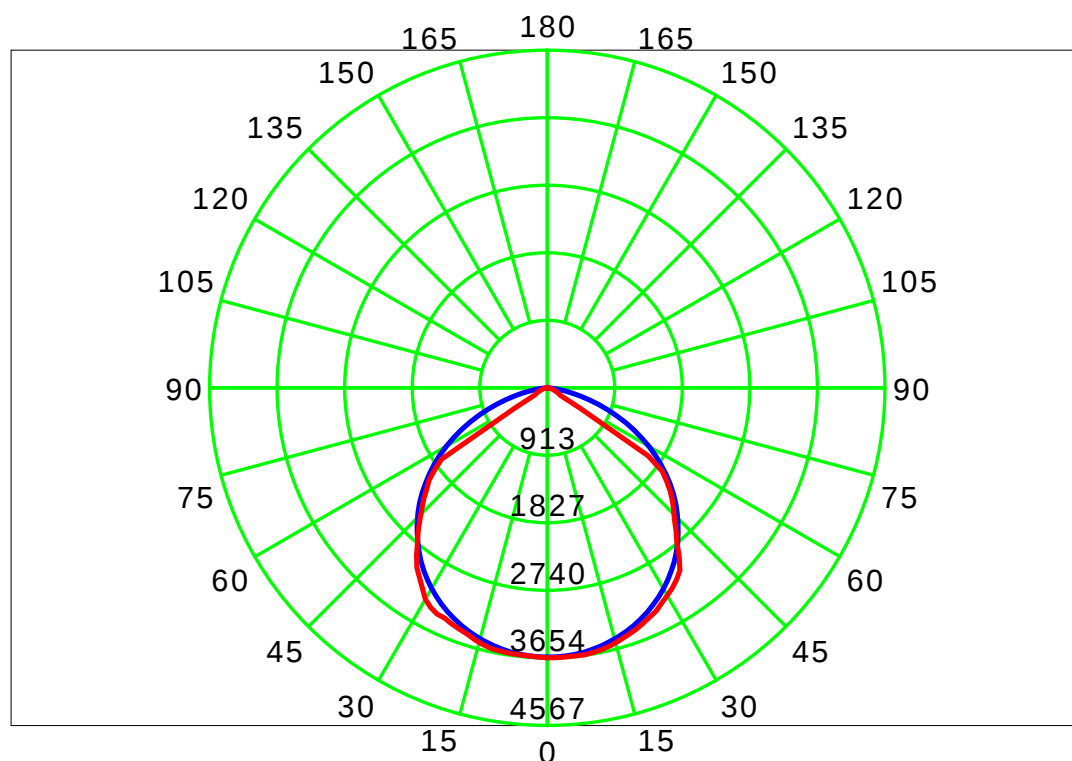
Temperature:

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

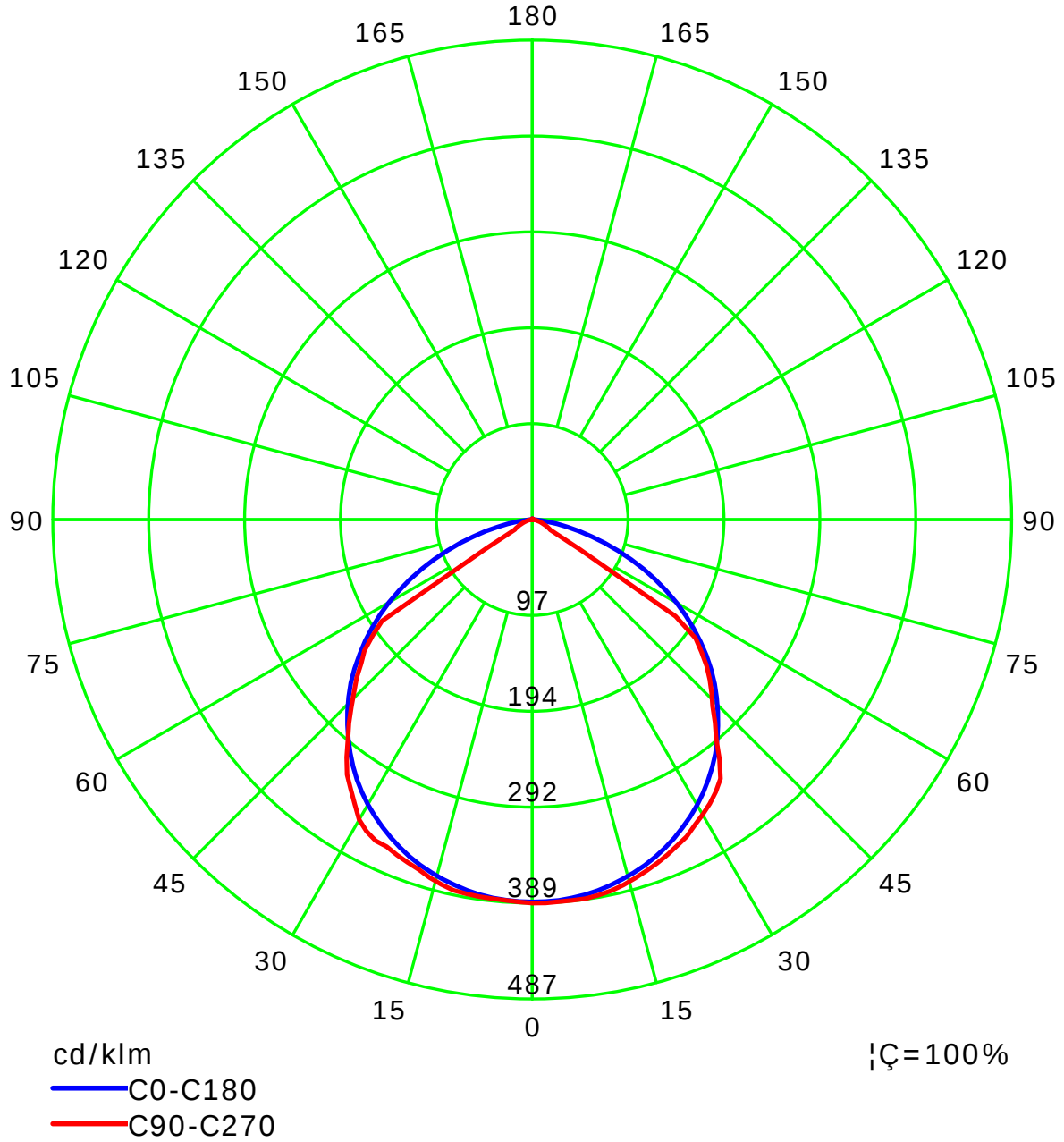
Test Device: LSG-1800B

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

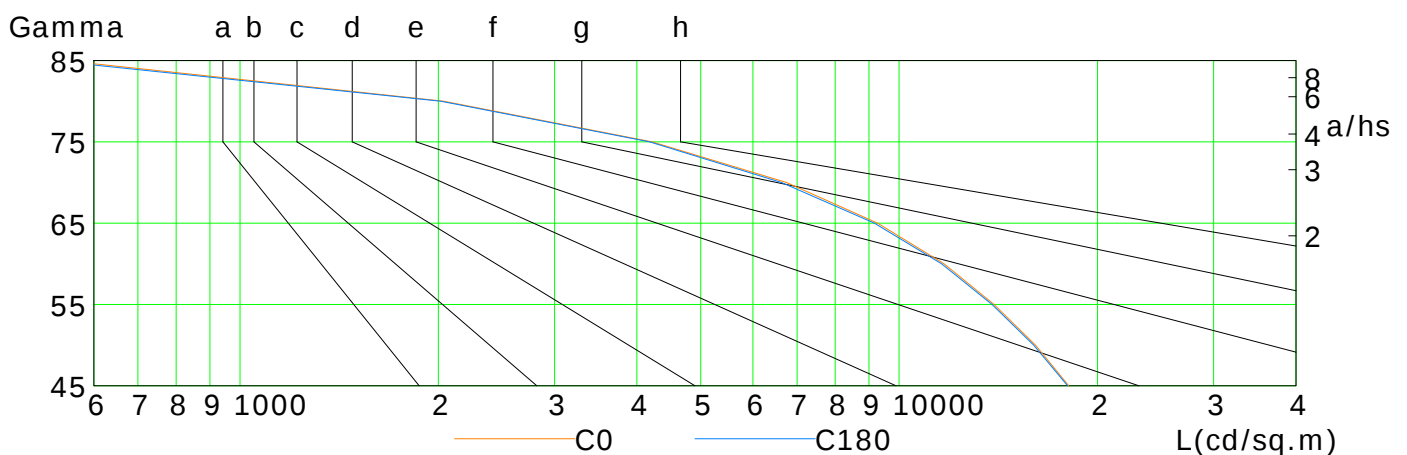
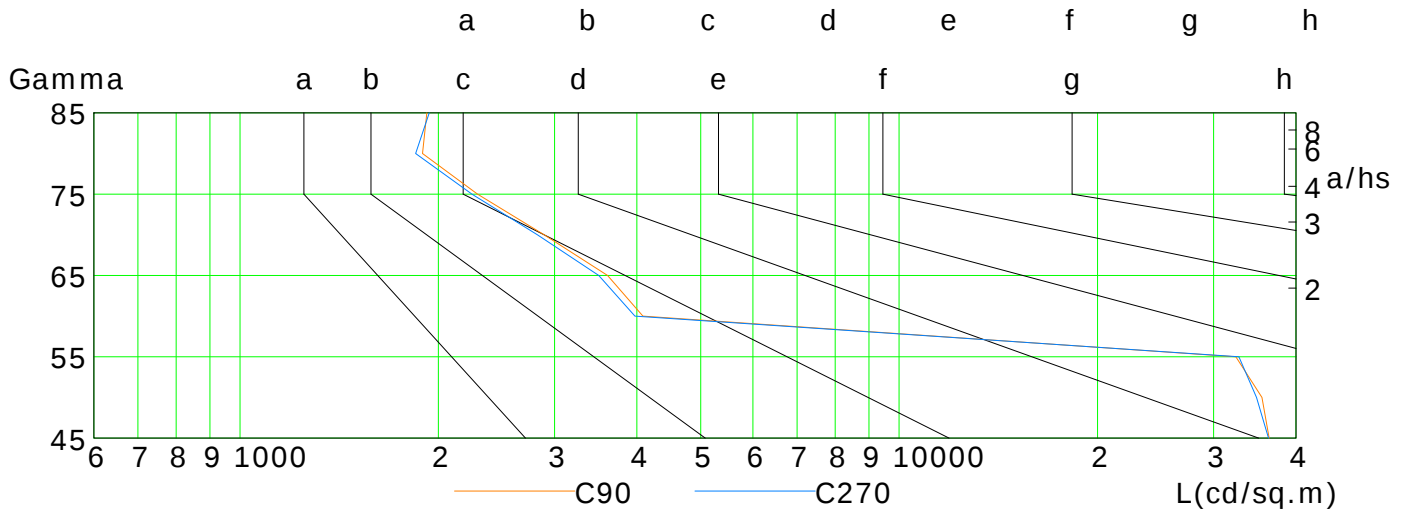
Distance: 12.677 m

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	18086	16096	13929	11699	9276	6749	4218	2037	542
C90	36415	35513	32424	4087	3612	2894	2293	1891	1921
C180	18018	15998	13836	11603	9171	6633	4183	2016	516
C270	36352	34851	32776	3972	3501	2826	2248	1847	1937

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

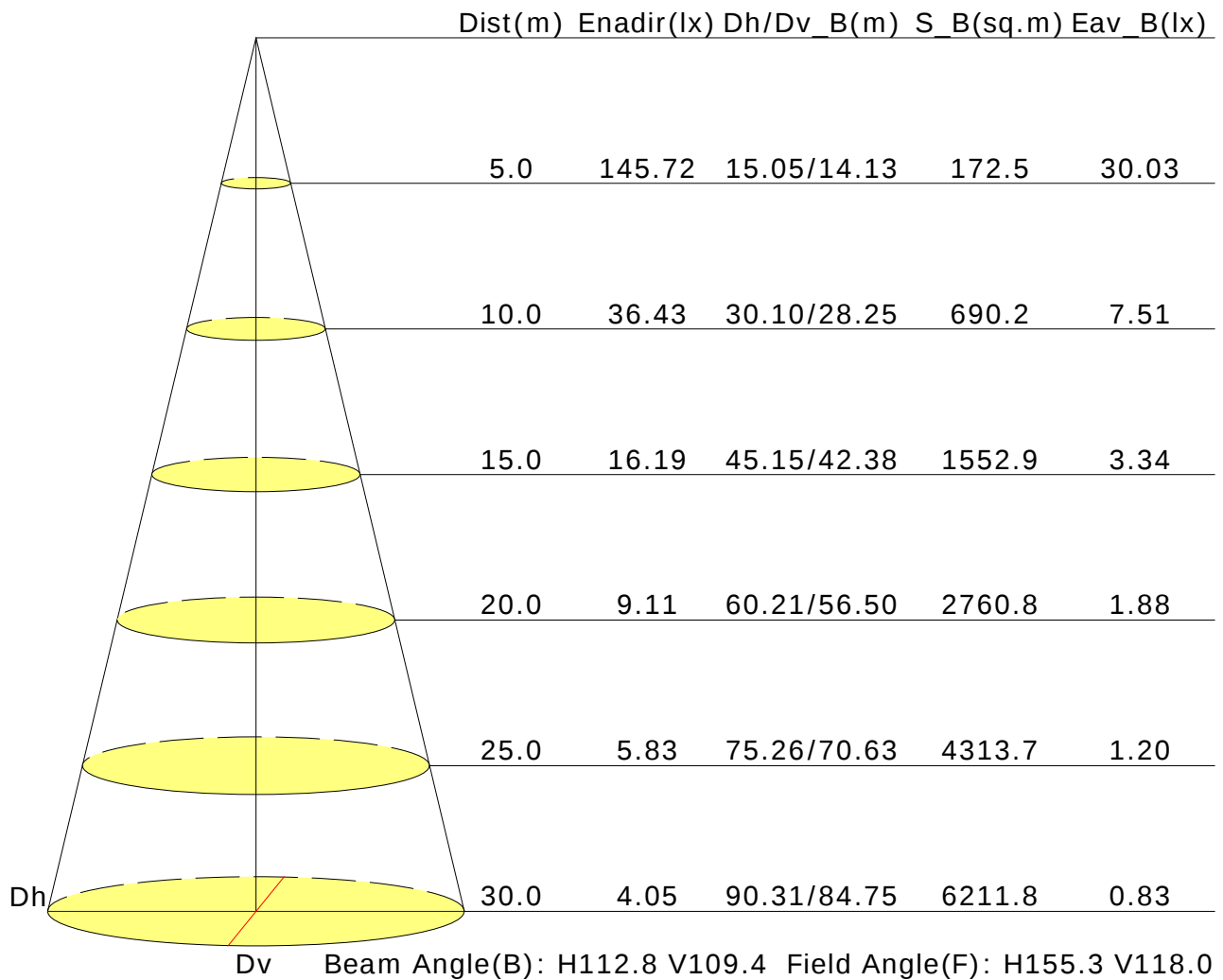
Test Device: LSG-1800B

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	22.4	23.7	22.7	23.9	24.2	22.3	23.6	22.6	23.9	24.1
3H	23.2	24.4	23.6	24.7	24.9	22.2	23.4	22.5	23.6	23.9
4H	23.4	24.5	23.8	24.8	25.1	22.1	23.2	22.5	23.5	23.8
6H	23.4	24.4	23.8	24.8	25.1	22.1	23.1	22.4	23.4	23.7
8H	23.4	24.4	23.8	24.7	25.0	22.0	23.0	22.4	23.3	23.7
12H	23.4	24.3	23.8	24.6	25.0	22.0	22.9	22.4	23.3	23.6
X=4H Y=2H	22.7	23.8	23.1	24.1	24.4	22.6	23.7	22.9	23.9	24.2
3H	23.6	24.5	24.0	24.9	25.2	22.5	23.4	22.8	23.7	24.1
4H	23.8	24.7	24.2	25.0	25.4	22.4	23.2	22.8	23.6	24.0
6H	23.9	24.6	24.3	25.0	25.4	22.4	23.1	22.8	23.5	23.9
8H	23.8	24.5	24.3	24.9	25.3	22.3	23.0	22.8	23.4	23.8
12H	23.8	24.4	24.3	24.8	25.3	22.3	22.9	22.8	23.3	23.8
X=8H Y=4H	23.7	24.4	24.2	24.8	25.2	22.4	23.0	22.8	23.4	23.8
6H	23.8	24.3	24.2	24.7	25.2	22.3	22.8	22.8	23.3	23.7
8H	23.8	24.2	24.2	24.7	25.2	22.3	22.8	22.8	23.2	23.7
12H	23.7	24.1	24.2	24.6	25.1	22.3	22.7	22.8	23.1	23.7
X=12H Y=4H	23.7	24.3	24.2	24.7	25.2	22.3	22.9	22.8	23.3	23.8
6H	23.7	24.2	24.2	24.7	25.1	22.3	22.7	22.8	23.2	23.7
8H	23.7	24.1	24.2	24.6	25.1	22.3	22.7	22.8	23.1	23.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.4					+0.8/-1.1				
S=1.5H	+0.6/-1.5					+2.5/-9.0				
S=2.0H	+1.2/-2.3					+4.0/-11.2				

Calculate in accordance with CIE Pub.117. The table is revised with 9372lm ($8\log(F/F_0) = 7.8$).

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 = 1.25									
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	0.61	0.73	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.98	1.01	
0.50	0.50	0.20	0.60	0.71	0.78	0.83	0.89	0.94	0.96	1.00	1.03	
	0.30		0.53	0.64	0.72	0.77	0.85	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.58	0.69	0.75	0.80	0.86	0.90	0.93	0.96	0.99	
	0.30		0.52	0.63	0.70	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.48	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.46	0.56	0.64	0.69	0.76	0.80	0.83	0.88	0.90	
Rating:73W 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	0.95	0.76	0.63	0.54	0.43	0.35	0.30	0.23	0.18	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.27	0.21	0.18	
	0.20		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.73	0.61	0.52	0.41	0.37	0.28	0.21	0.17	
	0.30		0.77	0.63	0.53	0.47	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.88	0.70	0.58	0.50	0.39	0.31	0.27	0.20	0.16	
	0.30		0.75	0.61	0.52	0.45	0.36	0.29	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.18	0.15	
0.00	0.00	0.00	0.55	0.44	0.37	0.32	0.25	0.21	0.17	0.13	0.11	
Rating:73W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.11	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	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:73W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												