

Report No.:

Test Time: 24.08.2020 17:37

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 5000K 120 gr. prozrachnoe steclo

Luminous Length (mm): 316

Luminous Width (mm): 316

Luminous Height (mm): 132

Voltage: 221.9 V

Current: 0.696 A

Power: 152.58 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 23198.3 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 23198.3 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.7, 151.8, 151.1, 151.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.7, 108.6, 110.3, 110.5

Luminaire Efficacy Rating (LER): 152.09

Central Intensity: 8568.95 cd

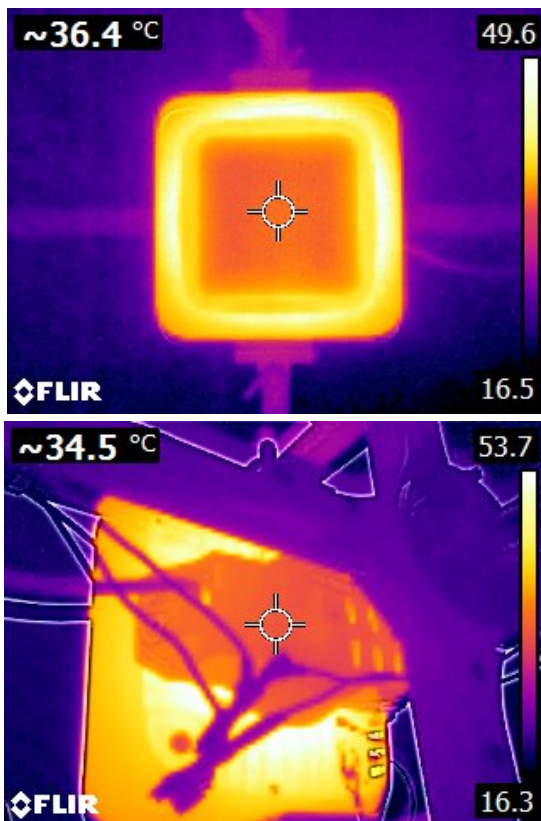
Max. Intensity: 8572 cd

Pos of Max. Intensity: H157.5 V0

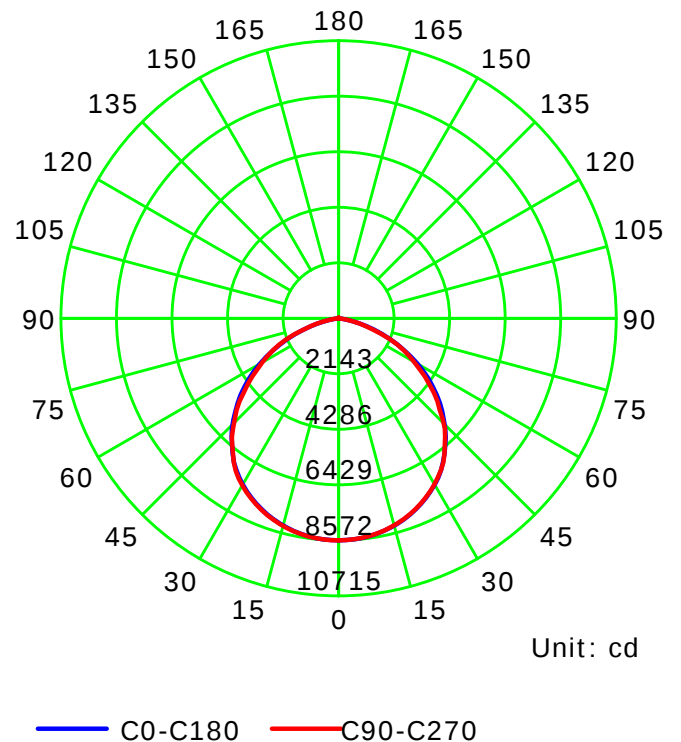
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.29

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

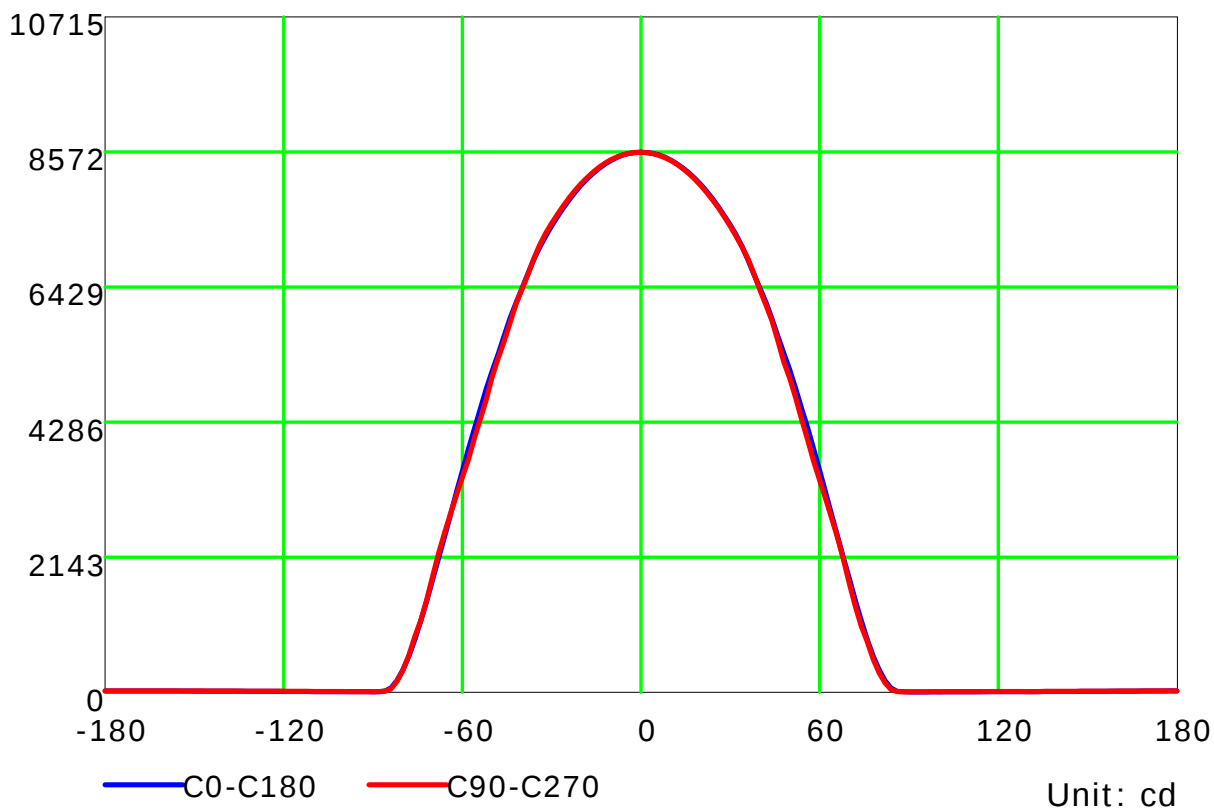
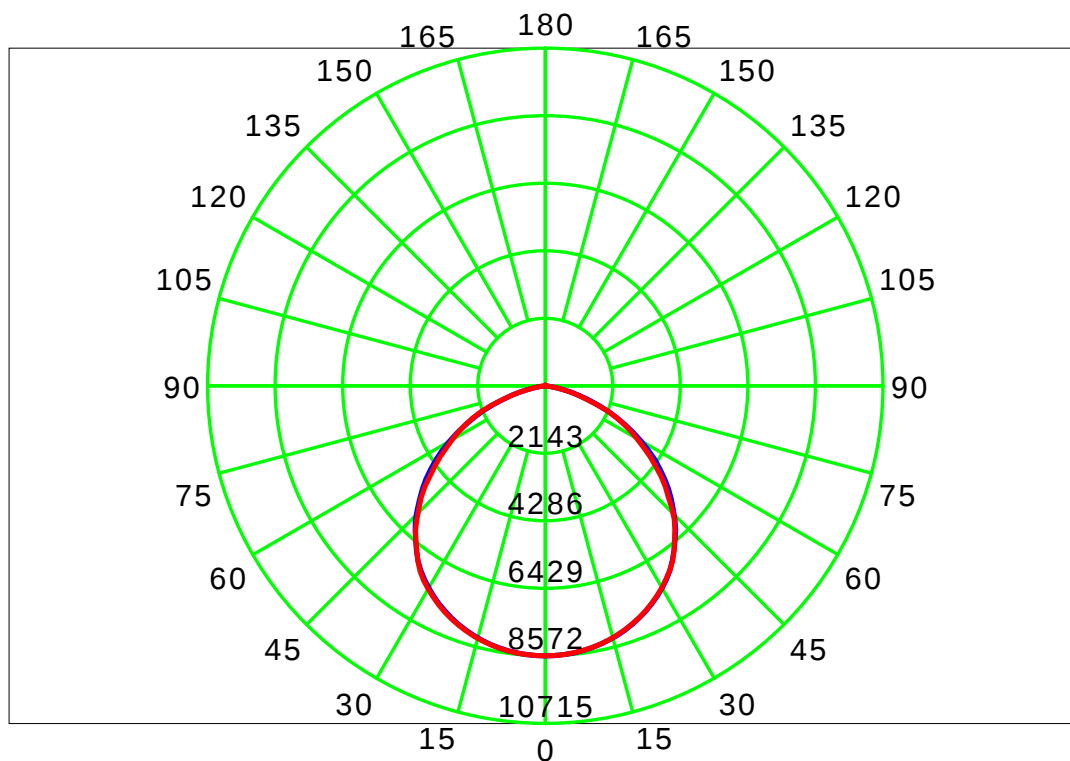
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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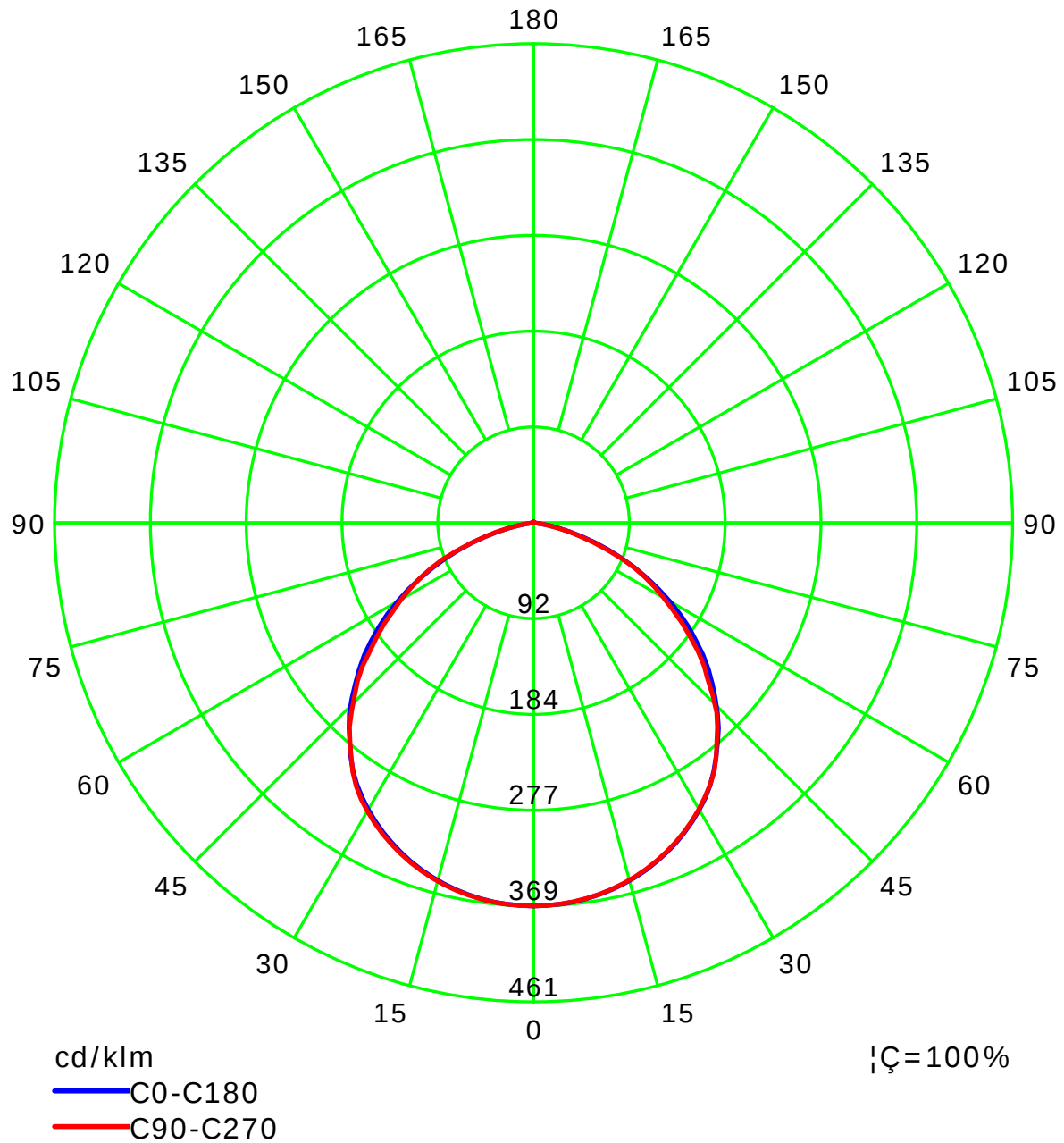
Test Device: LSG-1800B

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:

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Test Device: LSG-1800B

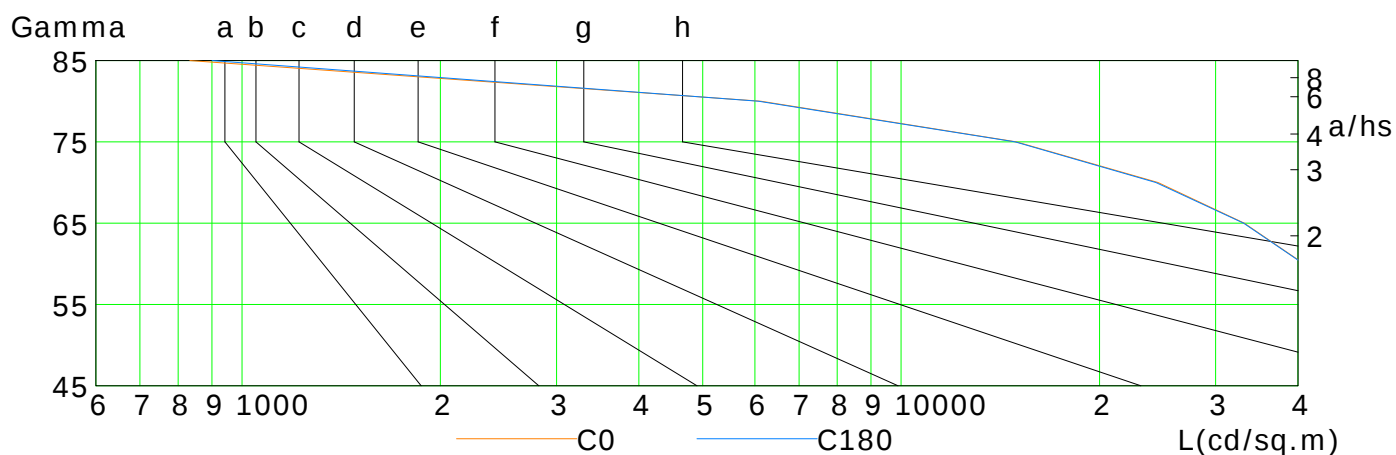
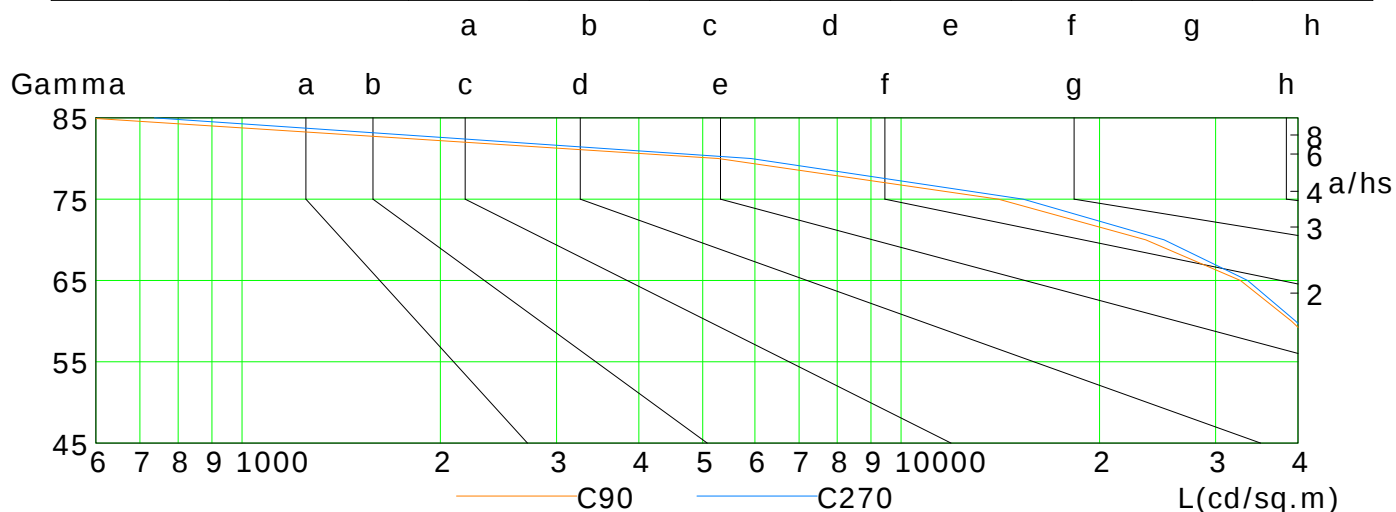
Distance: 12.677 m

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	57796	53155	47522	40878	33160	24529	14954	6127	833
C90	57315	51776	45563	39098	32706	23489	14049	5280	581
C180	57886	52984	47411	40781	33087	24347	14896	6074	901
C270	57111	52037	45744	39680	33545	25058	15315	5915	737

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

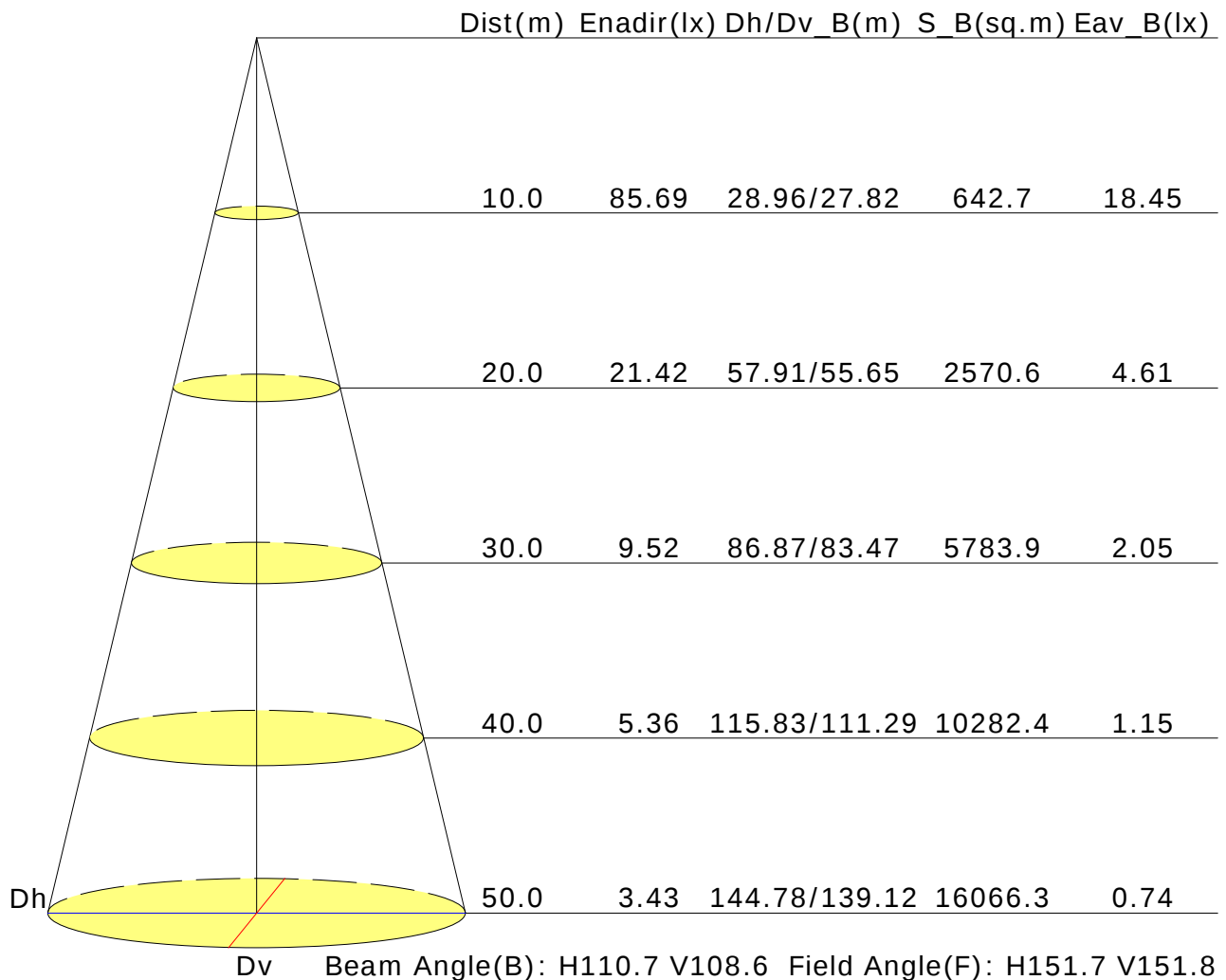
Test Device: LSG-1800B

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	25.8	27.1	26.1	27.4	27.6	25.6	27.0	25.9	27.2	27.5
3H	26.7	27.9	27.0	28.2	28.5	26.6	27.8	26.9	28.0	28.3
4H	26.9	28.0	27.2	28.3	28.6	26.7	27.9	27.1	28.2	28.5
6H	26.9	27.9	27.3	28.3	28.6	26.8	27.8	27.1	28.1	28.4
8H	26.9	27.9	27.2	28.2	28.5	26.7	27.7	27.1	28.1	28.4
12H	26.8	27.8	27.2	28.1	28.5	26.7	27.7	27.1	28.0	28.3
X=4H Y=2H	26.2	27.3	26.5	27.6	27.9	26.1	27.2	26.4	27.5	27.8
3H	27.2	28.2	27.6	28.5	28.8	27.1	28.1	27.5	28.4	28.7
4H	27.4	28.3	27.8	28.6	29.0	27.3	28.2	27.7	28.5	28.9
6H	27.5	28.2	27.9	28.6	29.0	27.4	28.1	27.8	28.5	28.9
8H	27.4	28.1	27.9	28.6	29.0	27.3	28.0	27.8	28.4	28.9
12H	27.4	28.0	27.9	28.5	28.9	27.3	27.9	27.8	28.4	28.8
X=8H Y=4H	27.5	28.2	27.9	28.6	29.0	27.4	28.0	27.8	28.5	28.9
6H	27.5	28.1	28.0	28.5	29.0	27.4	28.0	27.9	28.4	28.9
8H	27.5	28.0	28.0	28.5	29.0	27.4	27.9	27.9	28.4	28.9
12H	27.5	27.9	28.0	28.4	28.9	27.4	27.8	27.9	28.3	28.8
X=12H Y=4H	27.4	28.1	27.9	28.5	28.9	27.3	28.0	27.8	28.4	28.8
6H	27.5	28.0	28.0	28.5	28.9	27.4	27.9	27.9	28.4	28.8
8H	27.5	27.9	28.0	28.4	28.9	27.4	27.8	27.9	28.3	28.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.5/-0.9					+0.5/-0.9				
S=2.0H	+1.1/-1.8					+1.1/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 23198lm ($8\log(F/F_0) = 10.9$).

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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	0.59	0.69	0.77	0.82	0.90	0.94	0.98	1.02	1.05	
	0.30		0.51	0.62	0.70	0.76	0.84	0.89	0.93	0.98	1.02	
	0.20		0.46	0.57	0.65	0.71	0.79	0.85	0.89	0.95	0.99	
0.50	0.50	0.20	0.57	0.67	0.74	0.80	0.86	0.91	0.94	0.98	1.01	
	0.30		0.50	0.61	0.68	0.74	0.82	0.87	0.90	0.95	0.98	
	0.20		0.45	0.56	0.64	0.69	0.77	0.83	0.87	0.92	0.96	
0.30	0.50	0.20	0.56	0.65	0.72	0.77	0.83	0.88	0.91	0.94	0.97	
	0.30		0.49	0.60	0.67	0.72	0.79	0.84	0.87	0.92	0.95	
	0.20		0.45	0.55	0.63	0.68	0.76	0.81	0.85	0.90	0.93	
0.00	0.00	0.00	0.43	0.53	0.60	0.65	0.72	0.77	0.81	0.85	0.88	
Rating:153W 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	0.96	0.79	0.66	0.57	0.45	0.37	0.31	0.24	0.19	
	0.30		0.80	0.67	0.58	0.50	0.41	0.34	0.29	0.23	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.93	0.75	0.63	0.55	0.43	0.39	0.30	0.23	0.18	
	0.30		0.79	0.65	0.56	0.49	0.39	0.32	0.28	0.21	0.18	
	0.20		0.68	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.90	0.72	0.61	0.52	0.41	0.33	0.28	0.21	0.17	
	0.30		0.77	0.64	0.54	0.47	0.38	0.31	0.27	0.21	0.17	
	0.20		0.67	0.57	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.57	0.47	0.40	0.34	0.27	0.22	0.19	0.15	0.12	
Rating:153W 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	0.18	0.18	0.19	0.20	0.21	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	0.08	0.10	0.12	0.13	0.15	0.16	0.17
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	0.18	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
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:153W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											