

Report No.:

Test Time: 05.10.2020 13:19

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 80LED 0.78A 100W 4000K prozrachnoe steclo

Luminous Length (mm): 1545

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.5 V

Current: 0.469 A

Power: 101.95 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 14356 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 14356.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.5, 160.9, 149.5, 150.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.0, 123.5, 110.4, 111.1

Luminaire Efficacy Rating (LER): 140.86

Central Intensity: 4987.4 cd

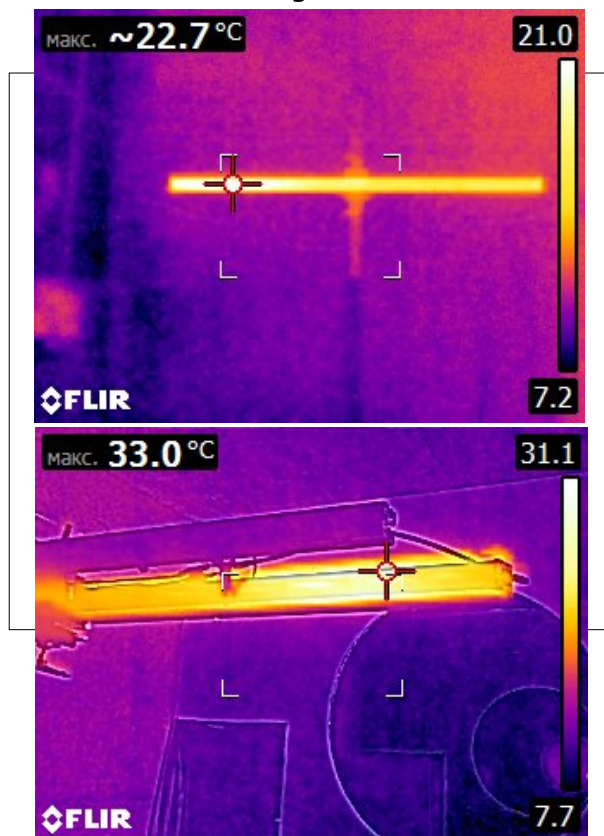
Max. Intensity: 5041.42 cd

Pos of Max. Intensity: H90 V6

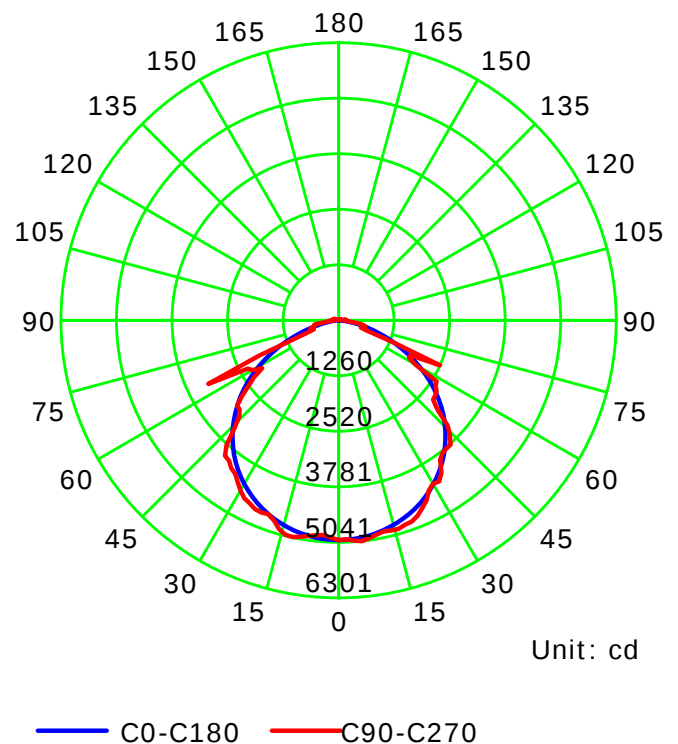
S/MH(C0/C180): 1.28

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 (°):0.0-180.0:2.0

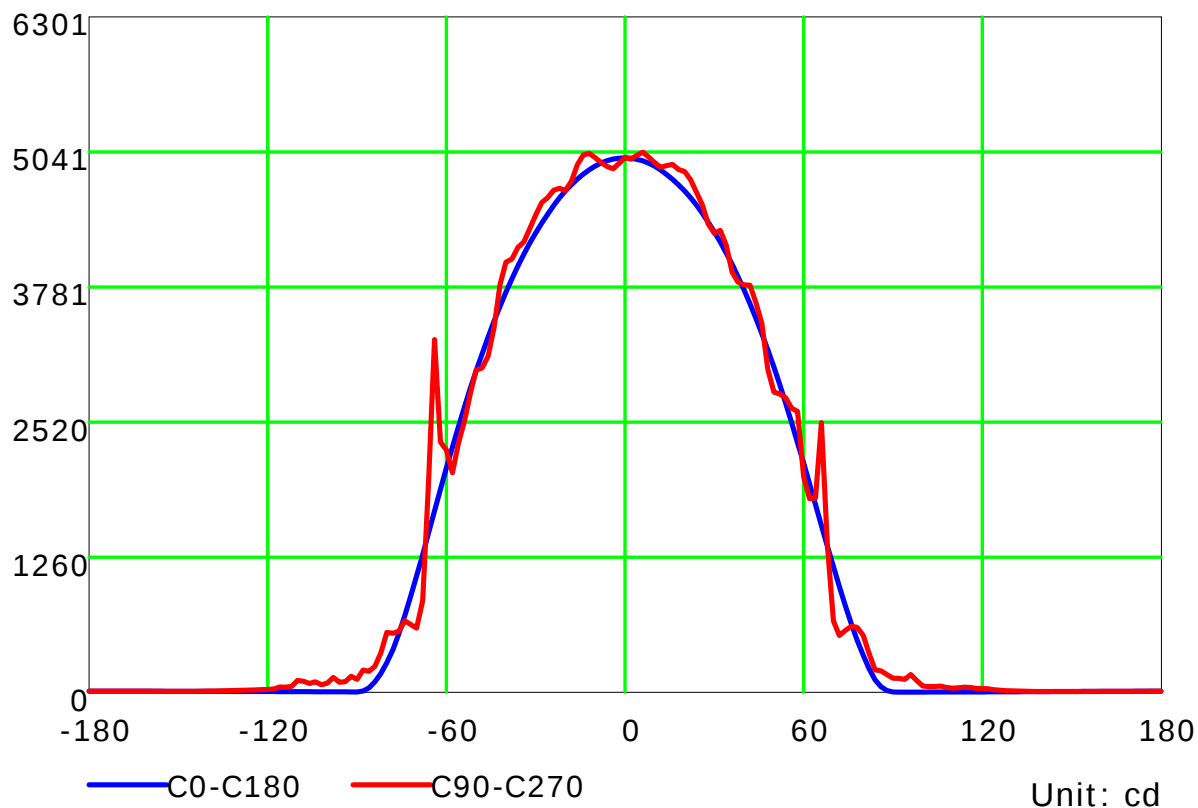
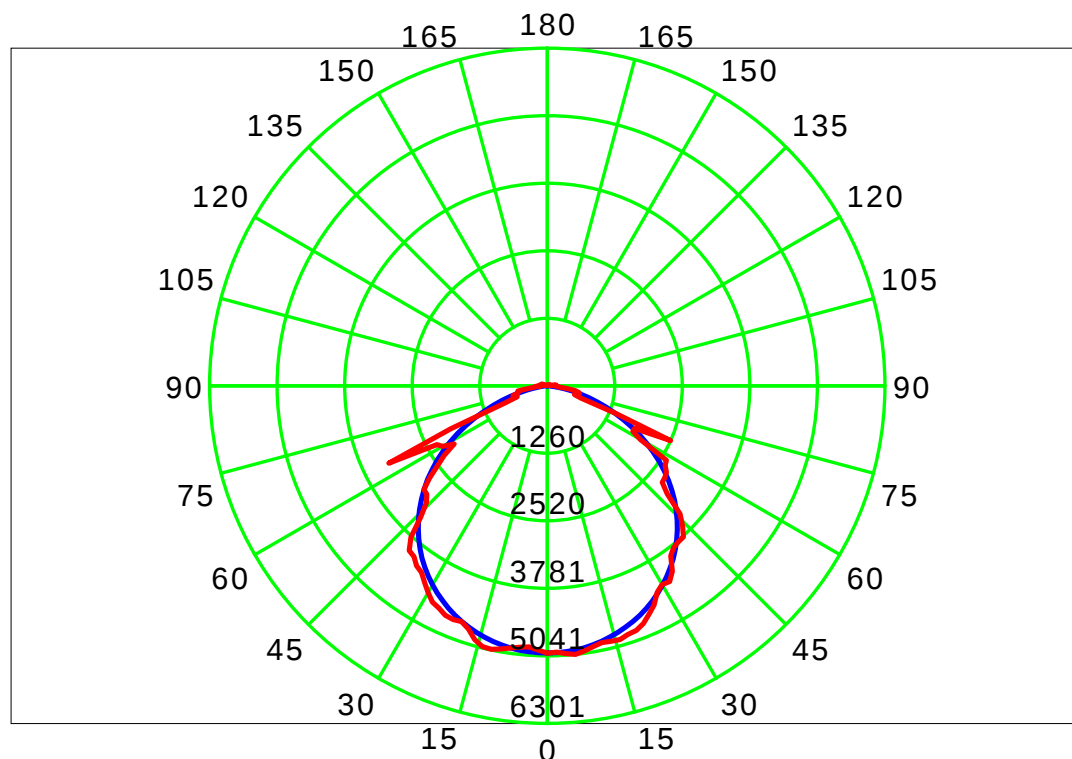
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

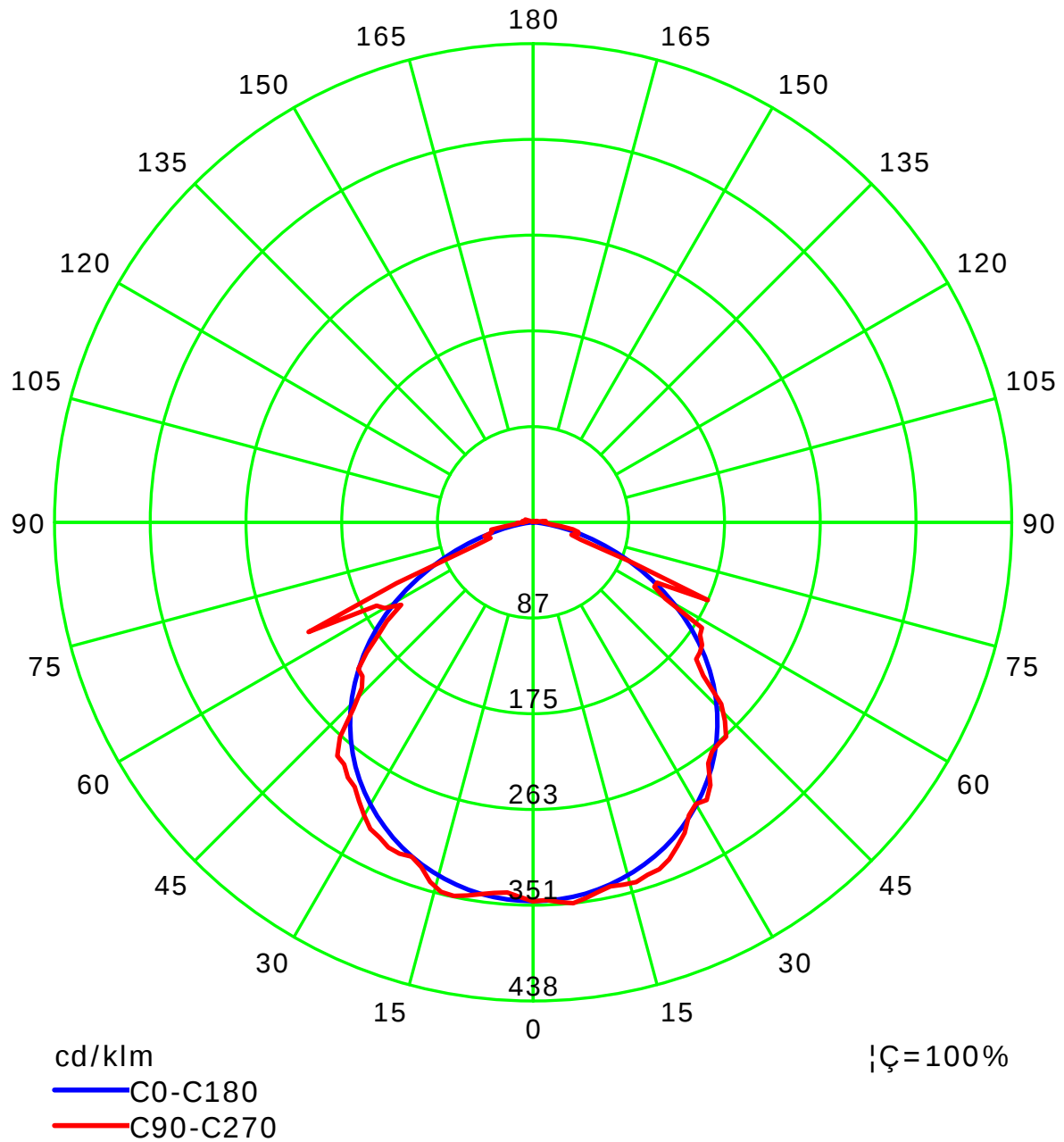
Luminous Intensity Distribution Curve



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: 12.682 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

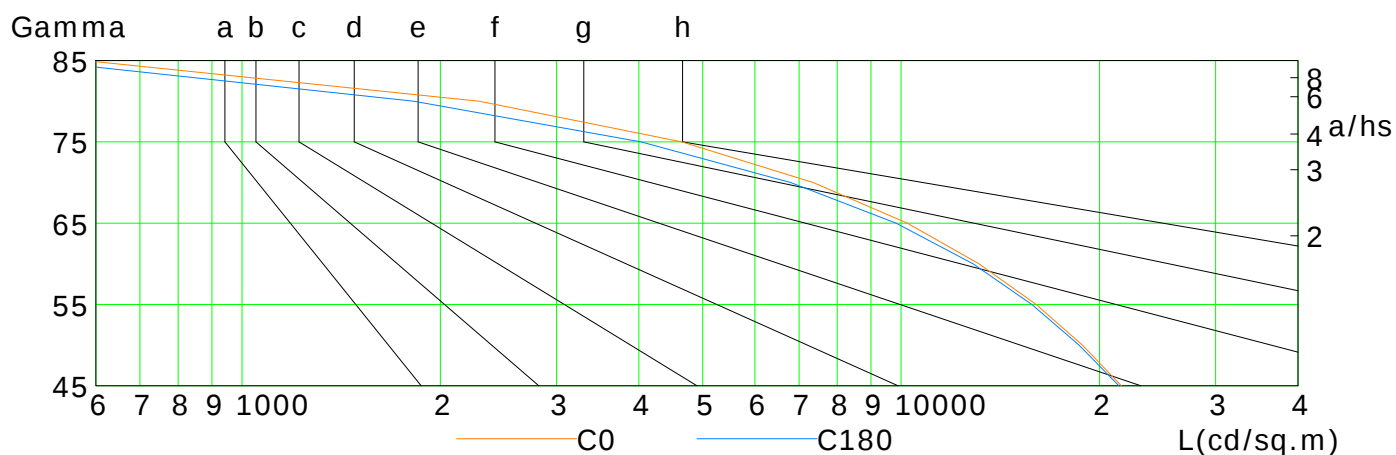
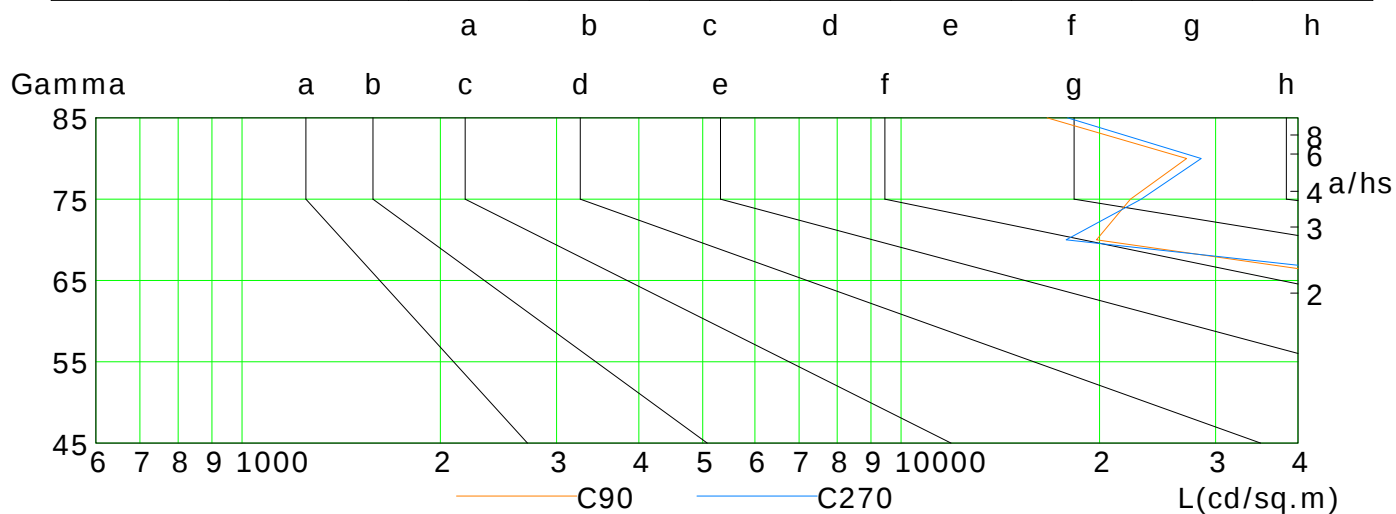
Distance: 12.682 m

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	21576	18841	16023	13129	10217	7356	4647	2291	581
C90	55658	47970	51151	42957	53597	19785	22276	27118	16656
C180	21400	18621	15785	12857	9825	6798	4028	1823	484
C270	51444	51470	45915	48337	65151	17795	23131	28520	17890

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

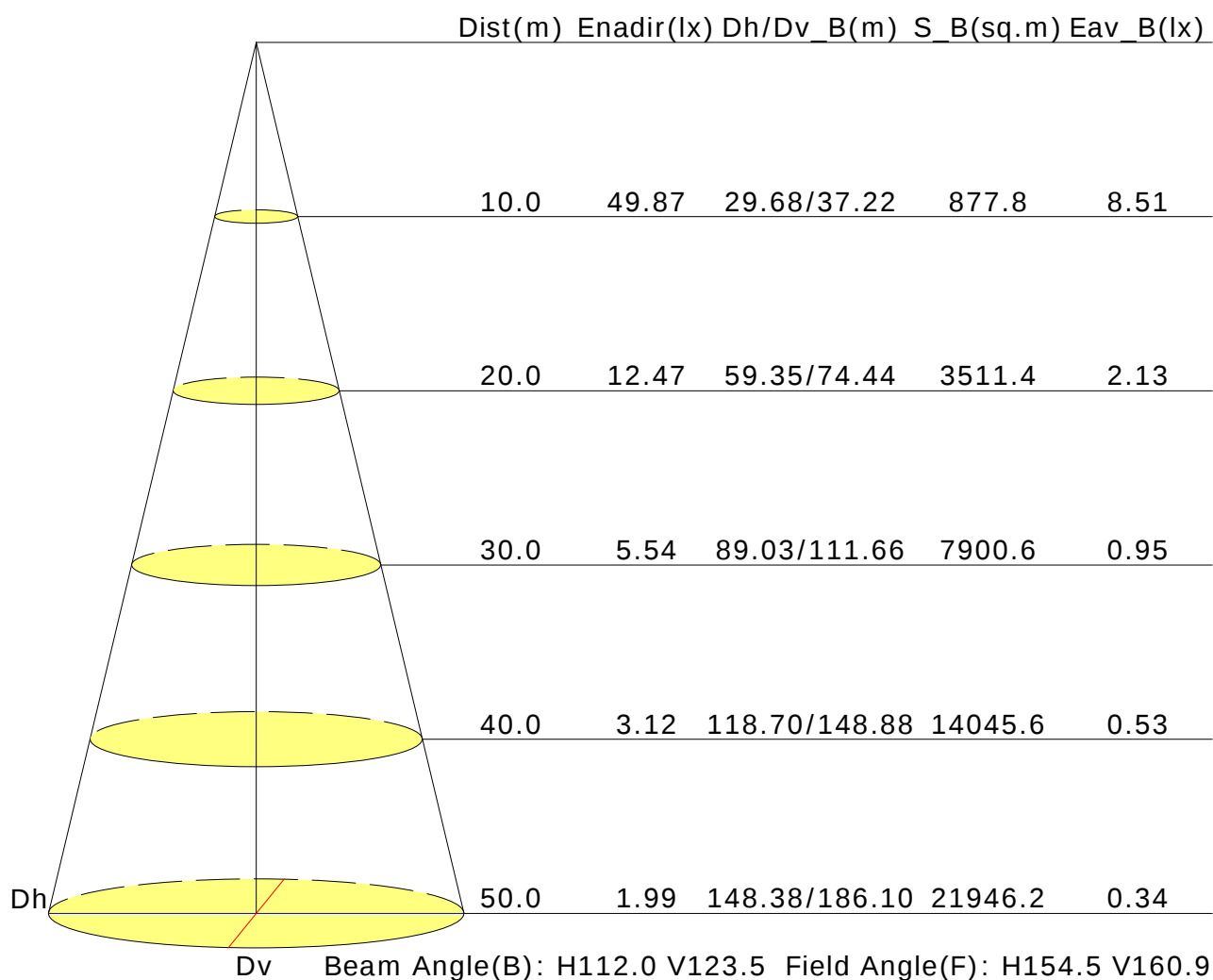
Test Device: LSG-1800B

Distance: 12.682 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	22.6	23.9	22.9	24.2	24.4	24.5	25.9	24.8	26.1	26.4
3H	23.3	24.5	23.7	24.8	25.1	25.9	27.1	26.3	27.4	27.7
4H	23.5	24.6	23.8	24.9	25.3	26.1	27.2	26.4	27.5	27.8
6H	23.5	24.6	23.9	24.9	25.3	26.3	27.4	26.7	27.7	28.1
8H	23.5	24.5	23.9	24.9	25.2	26.4	27.5	26.8	27.8	28.2
12H	23.5	24.5	23.9	24.8	25.2	26.5	27.5	26.9	27.8	28.2
X=4H Y=2H	23.1	24.2	23.4	24.5	24.9	24.7	25.9	25.1	26.2	26.5
3H	24.0	25.0	24.4	25.3	25.7	26.2	27.2	26.6	27.5	27.9
4H	24.2	25.1	24.6	25.5	25.9	26.4	27.2	26.8	27.6	28.0
6H	24.3	25.1	24.7	25.5	25.9	26.7	27.5	27.2	27.9	28.3
8H	24.3	25.0	24.7	25.4	25.9	26.9	27.6	27.3	28.0	28.5
12H	24.3	24.9	24.7	25.4	25.8	26.9	27.6	27.4	28.0	28.5
X=8H Y=4H	24.3	25.0	24.7	25.4	25.9	26.3	27.1	26.8	27.5	27.9
6H	24.4	25.0	24.9	25.5	26.0	26.8	27.3	27.3	27.8	28.3
8H	24.4	24.9	24.9	25.4	25.9	27.0	27.5	27.5	27.9	28.4
12H	24.4	24.9	24.9	25.4	25.9	27.1	27.5	27.6	28.0	28.5
X=12H Y=4H	24.3	24.9	24.7	25.4	25.8	26.3	27.0	26.8	27.4	27.9
6H	24.4	24.9	24.9	25.4	25.9	26.7	27.3	27.2	27.7	28.2
8H	24.5	24.9	25.0	25.4	25.9	27.0	27.4	27.5	27.9	28.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.9/-0.6				
S=1.5H	+0.6/-1.3					+2.0/-1.5				
S=2.0H	+1.1/-1.7					+2.9/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 14356lm ($8\log(F/F_0) = 9.3$).

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.682 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	0.68	0.76	0.81	0.88	0.93	0.97	1.01	1.04	
	0.30		0.50	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
	0.20		0.44	0.55	0.63	0.69	0.77	0.83	0.88	0.94	0.98	
0.50	0.50	0.20	0.56	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.49	0.59	0.67	0.72	0.80	0.85	0.89	0.94	0.97	
	0.20		0.43	0.54	0.62	0.68	0.76	0.81	0.85	0.91	0.94	
0.30	0.50	0.20	0.54	0.64	0.71	0.75	0.82	0.86	0.89	0.93	0.96	
	0.30		0.48	0.58	0.65	0.71	0.78	0.83	0.86	0.91	0.93	
	0.20		0.43	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.91	
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.71	0.75	0.79	0.83	0.86	
Rating:102W 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	0.99	0.81	0.69	0.60	0.47	0.39	0.33	0.26	0.21	
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.95	0.78	0.66	0.57	0.45	0.40	0.32	0.24	0.20	
	0.30		0.81	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.92	0.75	0.63	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.66	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.59	0.49	0.42	0.36	0.29	0.24	0.21	0.16	0.13	
Rating:102W 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	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	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	0.21	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		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	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:102W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												