

Report No.:

Test Time: 04.09.2020 15:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0.35A 40W 4000K prozrachnoe steclo

Luminous Length (mm): 900

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.4 V

Current: 0.189 A

Power: 40.96 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 5745.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 5745.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.4, 156.4, 154.3, 154.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.3, 126.9, 113.2, 113.1

Luminaire Efficacy Rating (LER): 140.33

Central Intensity: 2007.69 cd

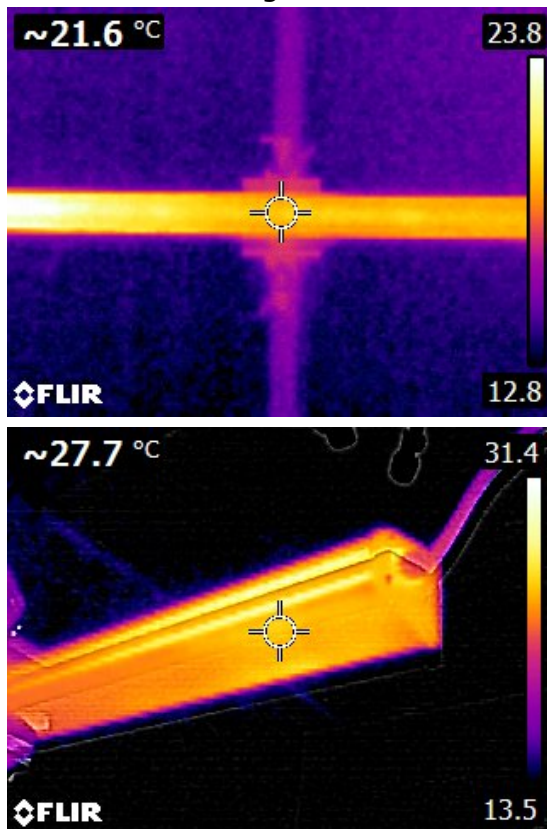
Max. Intensity: 2018.71 cd

Pos of Max. Intensity: H247.5 V6

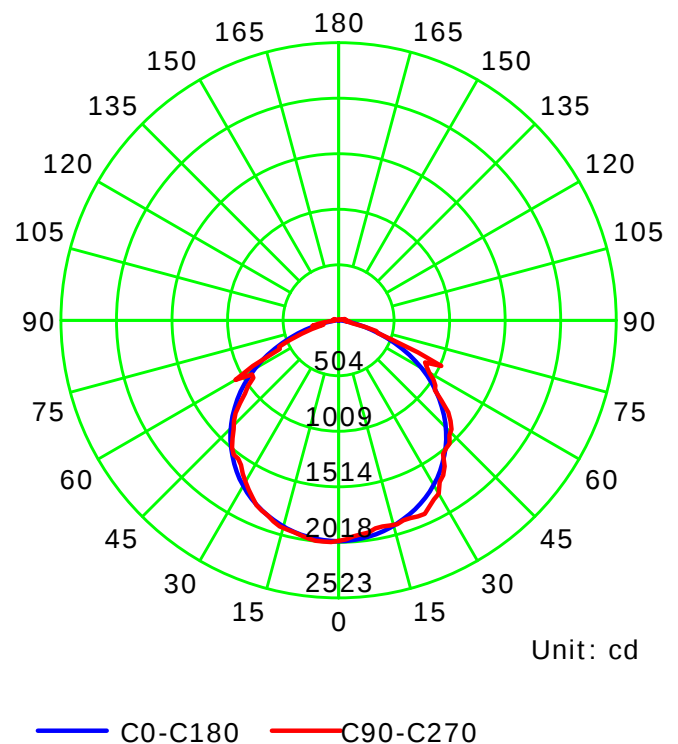
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.28

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

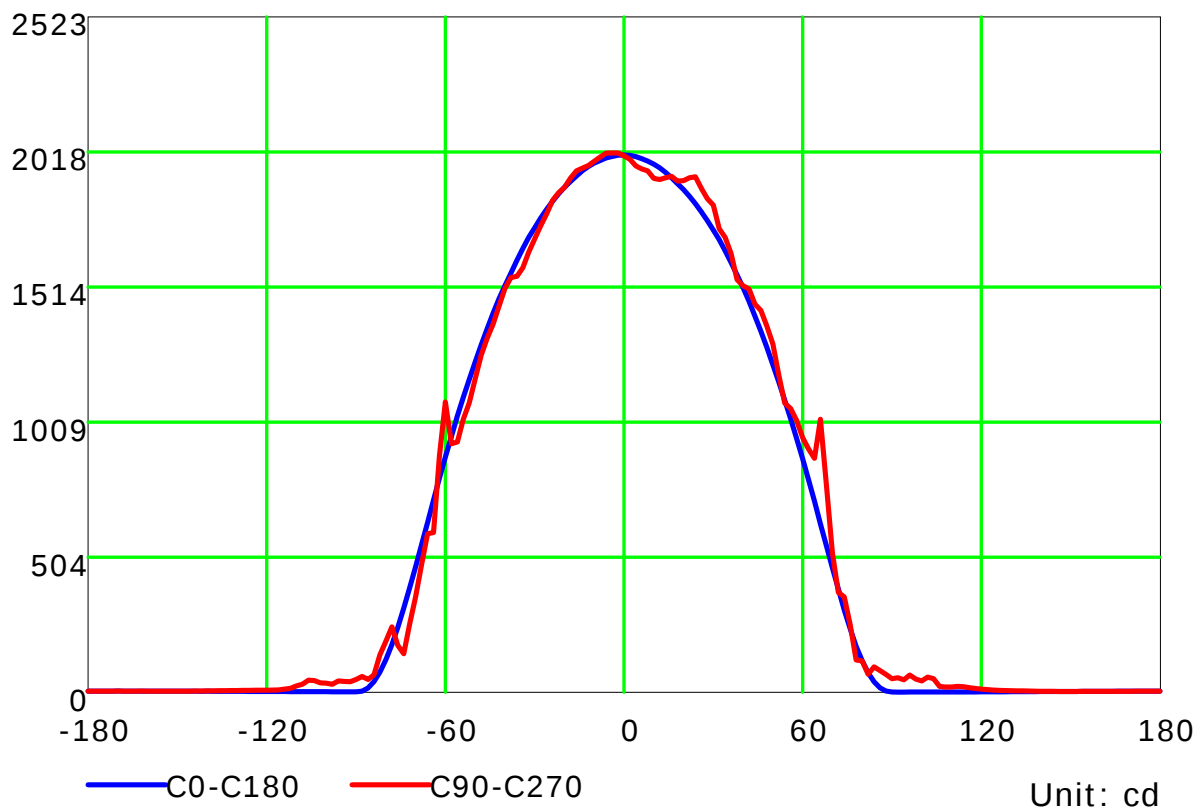
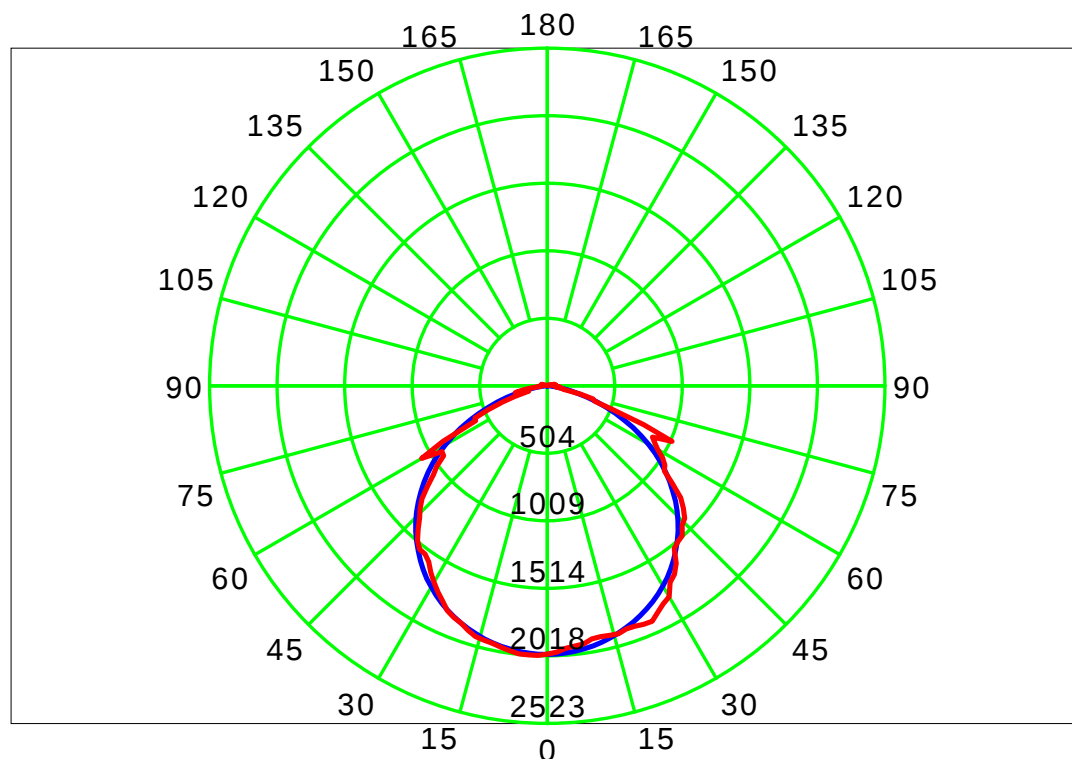
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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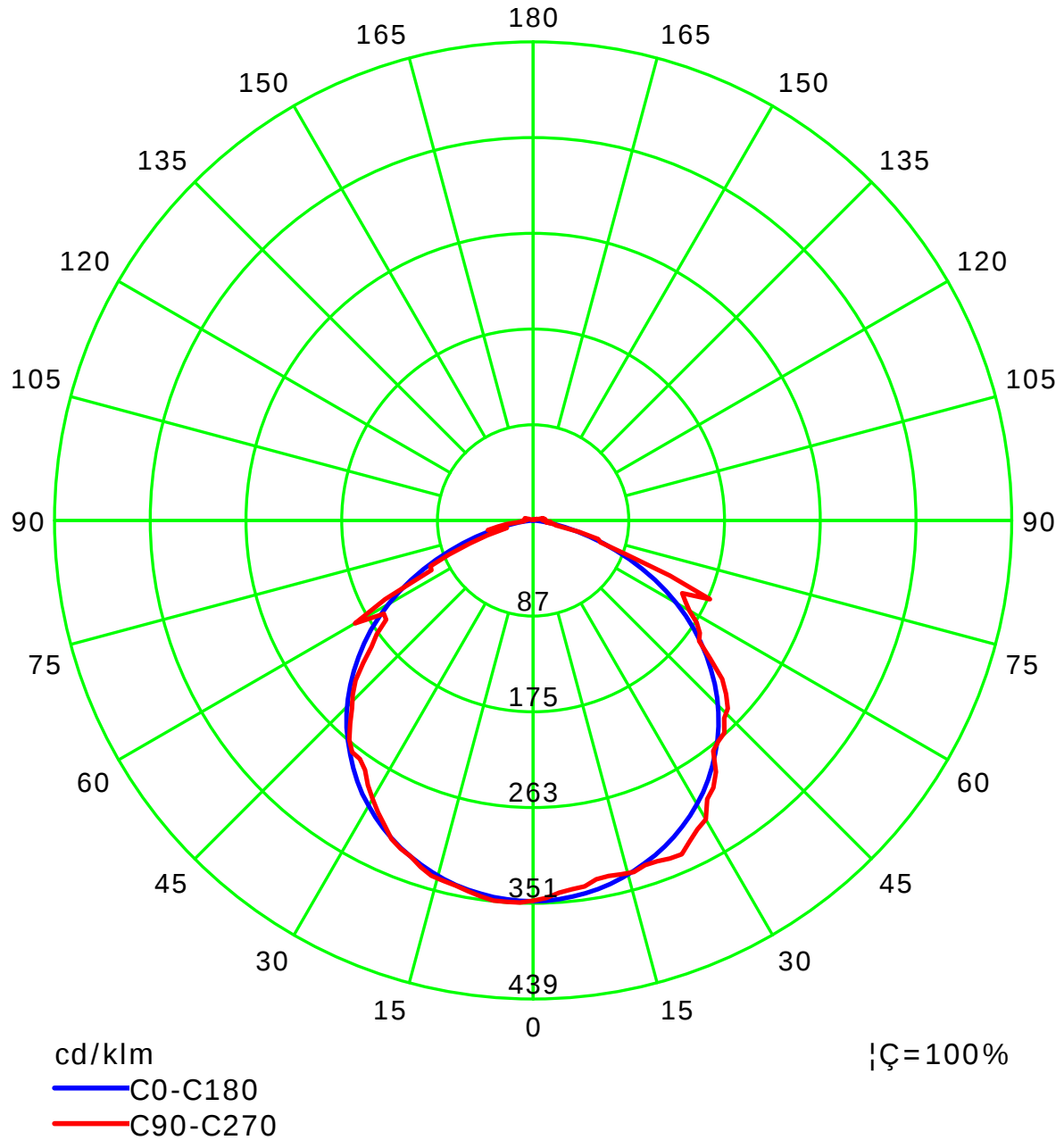
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Distance: 12.682 m

Humidity:

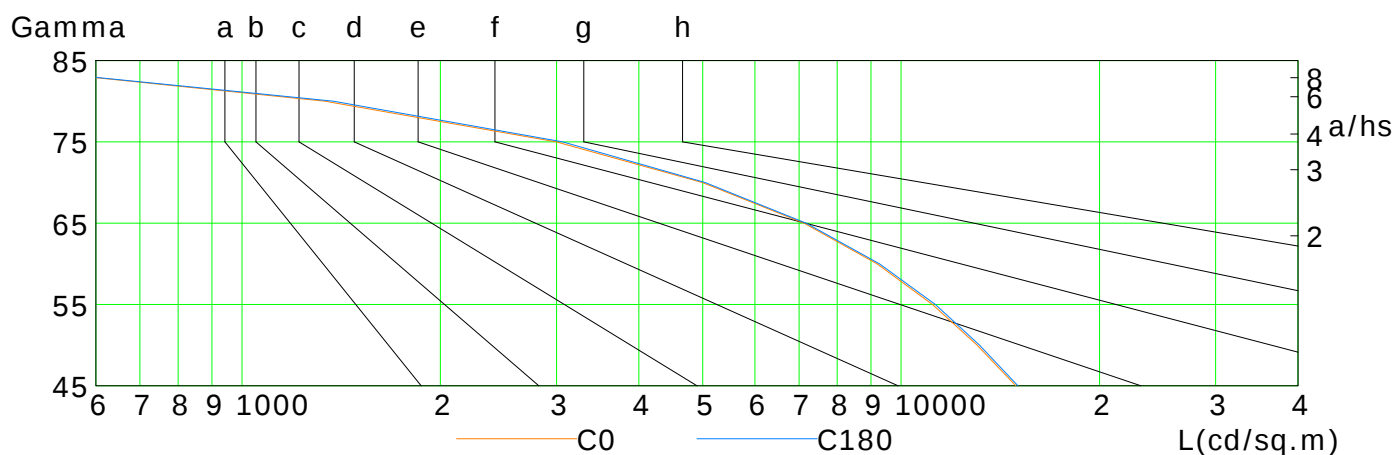
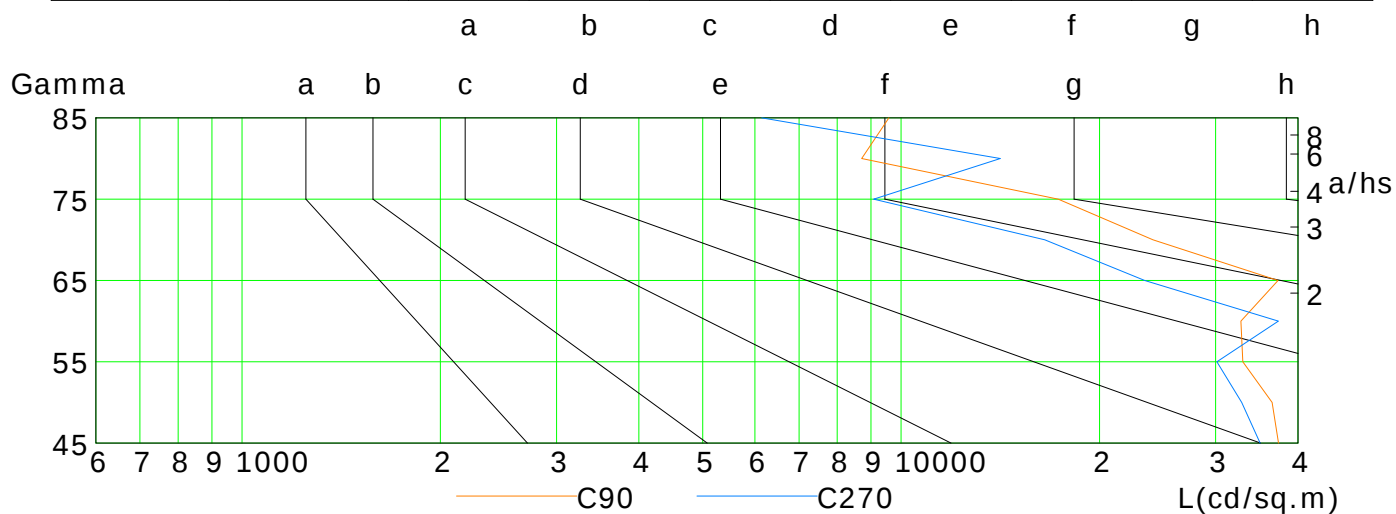
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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	14927	13036	11153	9194	7122	4994	2997	1337	336
C90	37366	36542	32997	32769	37301	24102	17317	8715	9579
C180	15036	13147	11267	9269	7175	5043	3065	1377	335
C270	35039	32862	30139	37358	23414	16521	9086	14137	6146

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Temperature:

Operator:

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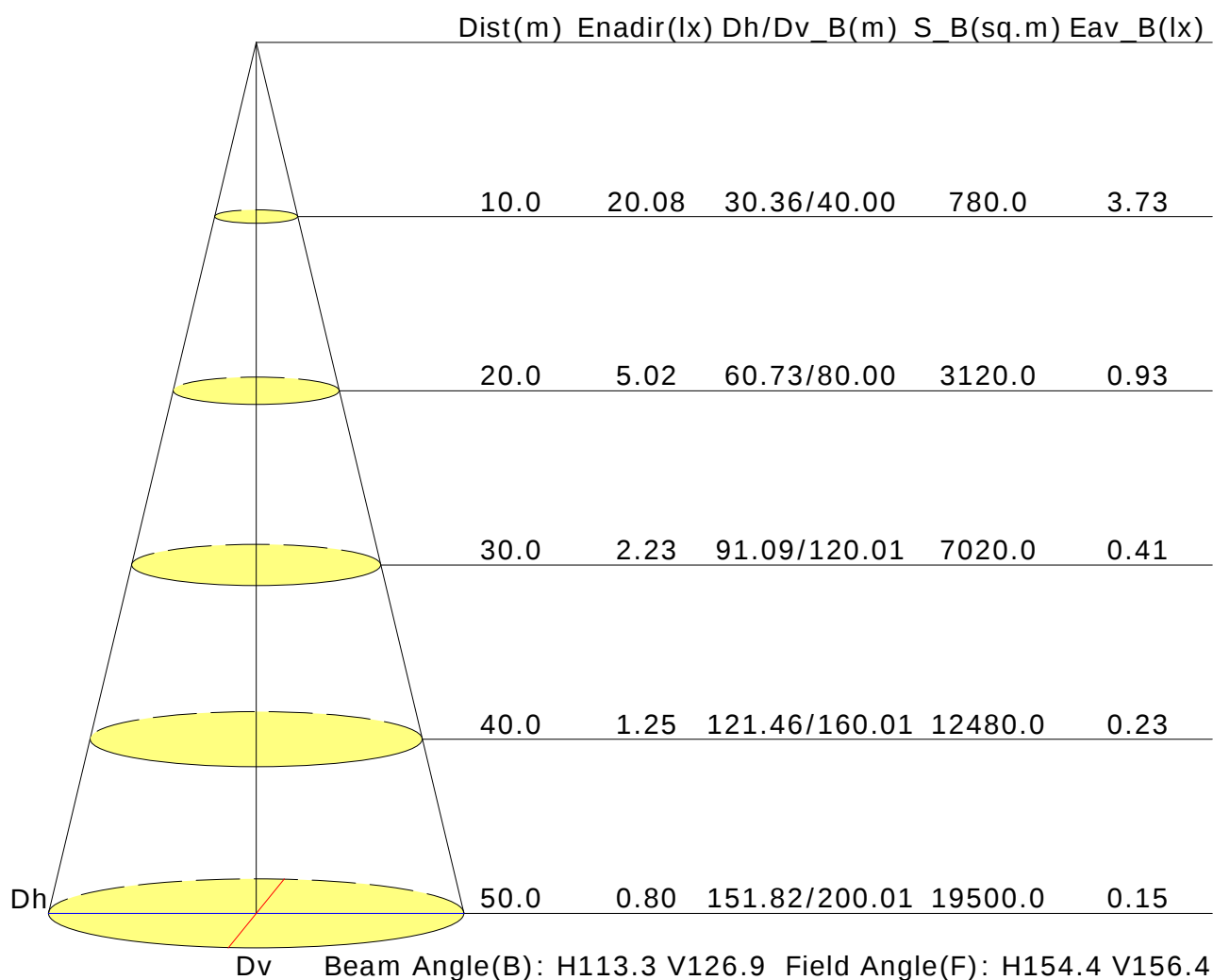
Test Device: LSG-1800B

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	21.2	22.5	21.5	22.8	23.1	23.3	24.6	23.6	24.9	25.2
3H	22.0	23.2	22.3	23.5	23.8	24.6	25.9	25.0	26.2	26.5
4H	22.1	23.3	22.5	23.6	23.9	24.8	26.0	25.2	26.3	26.6
6H	22.2	23.2	22.5	23.6	23.9	25.0	26.0	25.3	26.4	26.7
8H	22.1	23.2	22.5	23.5	23.9	25.0	26.0	25.4	26.4	26.7
12H	22.1	23.1	22.5	23.4	23.8	25.0	26.0	25.4	26.3	26.7
X=4H Y=2H	21.7	22.9	22.1	23.2	23.5	23.5	24.7	23.9	25.0	25.3
3H	22.7	23.7	23.1	24.0	24.4	24.9	25.9	25.3	26.3	26.6
4H	22.9	23.8	23.3	24.2	24.6	25.2	26.1	25.6	26.4	26.8
6H	23.0	23.7	23.4	24.2	24.6	25.3	26.1	25.8	26.5	27.0
8H	23.0	23.7	23.4	24.1	24.5	25.4	26.1	25.9	26.6	27.0
12H	22.9	23.6	23.4	24.0	24.5	25.4	26.1	25.9	26.5	27.0
X=8H Y=4H	23.0	23.7	23.5	24.1	24.6	25.2	25.9	25.6	26.3	26.8
6H	23.1	23.7	23.6	24.2	24.7	25.4	26.0	25.9	26.4	26.9
8H	23.1	23.6	23.6	24.1	24.6	25.5	26.0	26.0	26.5	27.0
12H	23.1	23.6	23.6	24.0	24.6	25.5	26.0	26.1	26.5	27.0
X=12H Y=4H	23.0	23.6	23.5	24.1	24.5	25.1	25.8	25.6	26.2	26.7
6H	23.1	23.6	23.6	24.1	24.6	25.4	25.9	25.9	26.3	26.9
8H	23.1	23.6	23.6	24.1	24.6	25.5	25.9	26.0	26.4	26.9
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.2/-0.2				
S=1.5H	+0.7/-1.1					+0.4/-0.5				
S=2.0H	+1.3/-1.9					+1.7/-1.6				

Calculate in accordance with CIE Pub.117. The table is revised with 5746lm ($8\log(F/F_0) = 6.1$).

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Temperature:

Operator:

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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	0.67	0.75	0.80	0.88	0.93	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	0.94	
0.30	0.50	0.20	0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.92	0.95	
	0.30		0.47	0.57	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	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	0.86	
Rating:41W 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	0.47	0.39	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	0.53	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	0.41	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.51	0.46	0.37	0.32	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	0.45	0.36	0.31	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:41W 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	0.14	0.15	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	0.21	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	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	0.21	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:41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												