

Report No.:

Test Time: 29.04.2020 16:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 600 100W 5000K Luminous Length (mm): 350

Luminous Width (mm): 350

Luminous Height (mm): 125

Voltage: 228.7 V

Current: 0.433 A

Power: 97.75 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 12134.4 lm

Measurement Flux: 12134.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.9, 156.7, 157.0, 157.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.0, 105.3, 105.3, 105.4

Luminaire Efficacy Rating (LER): 124.19

Central Intensity: 4623.98 cd

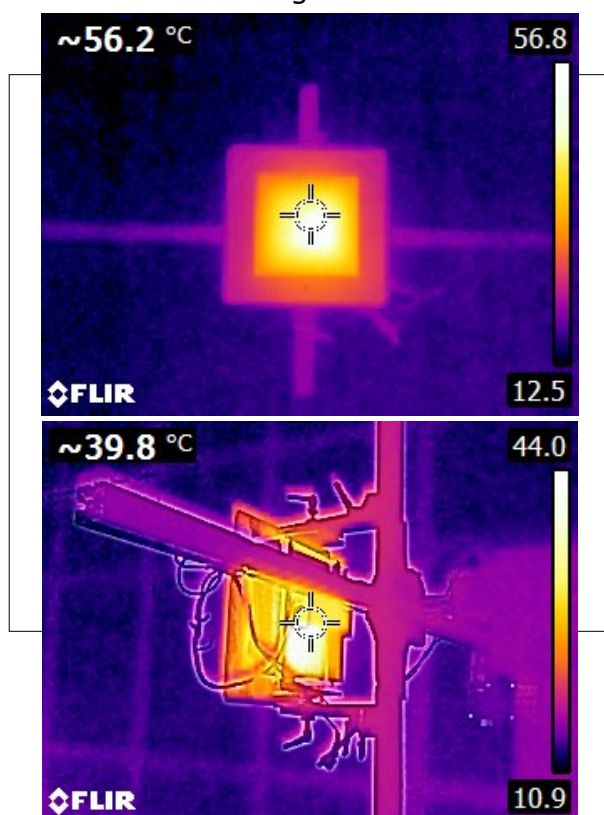
Max. Intensity: 4627.26 cd

Pos of Max. Intensity: H135 V2

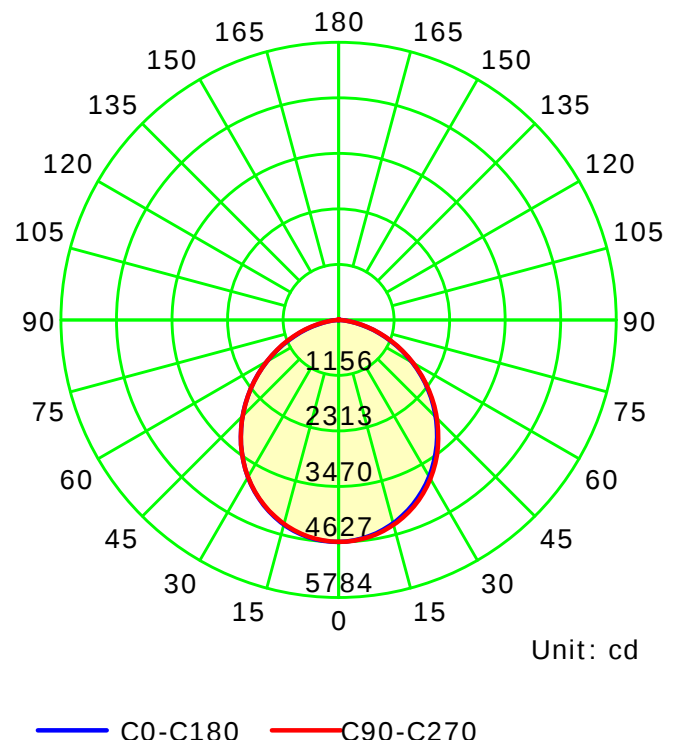
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

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

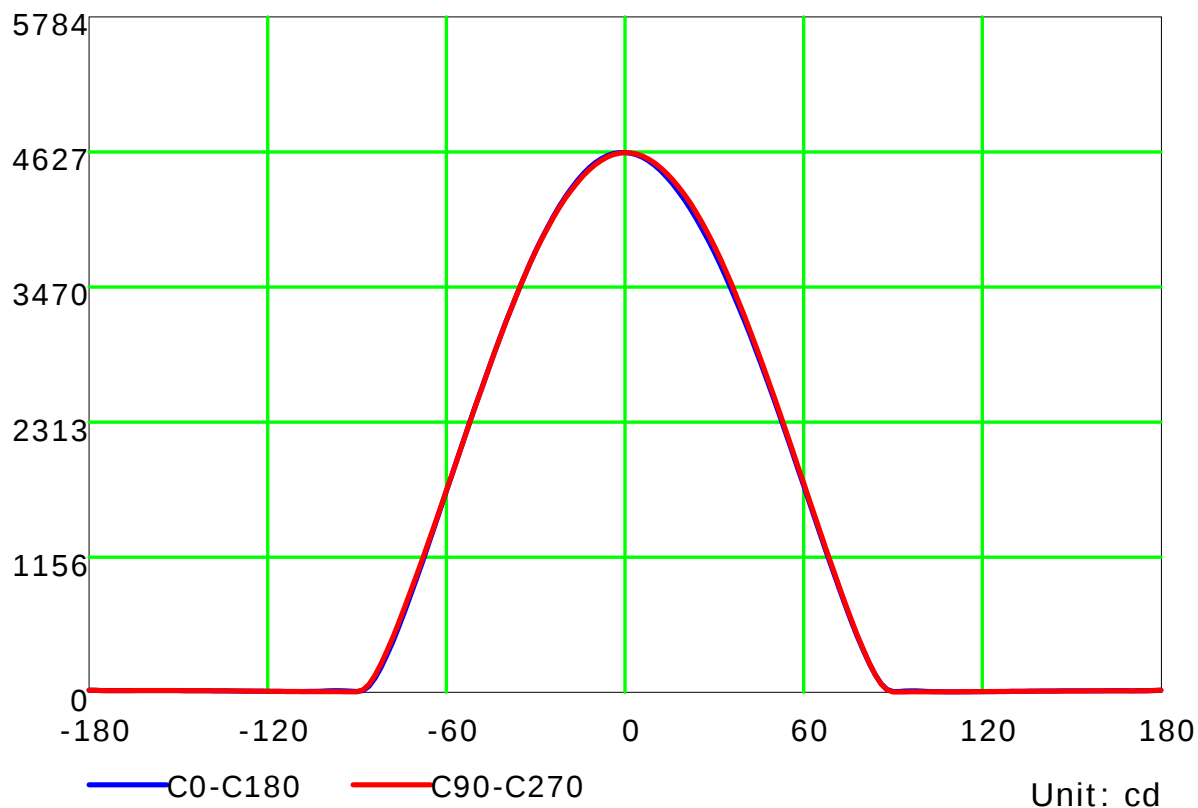
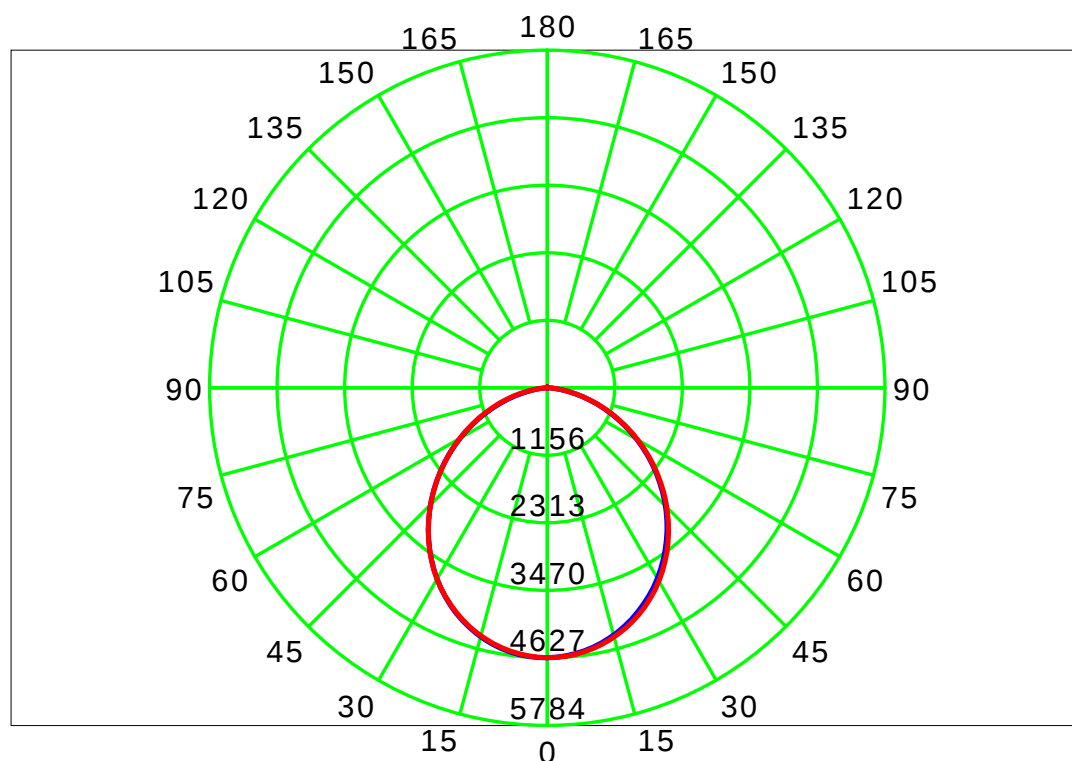
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

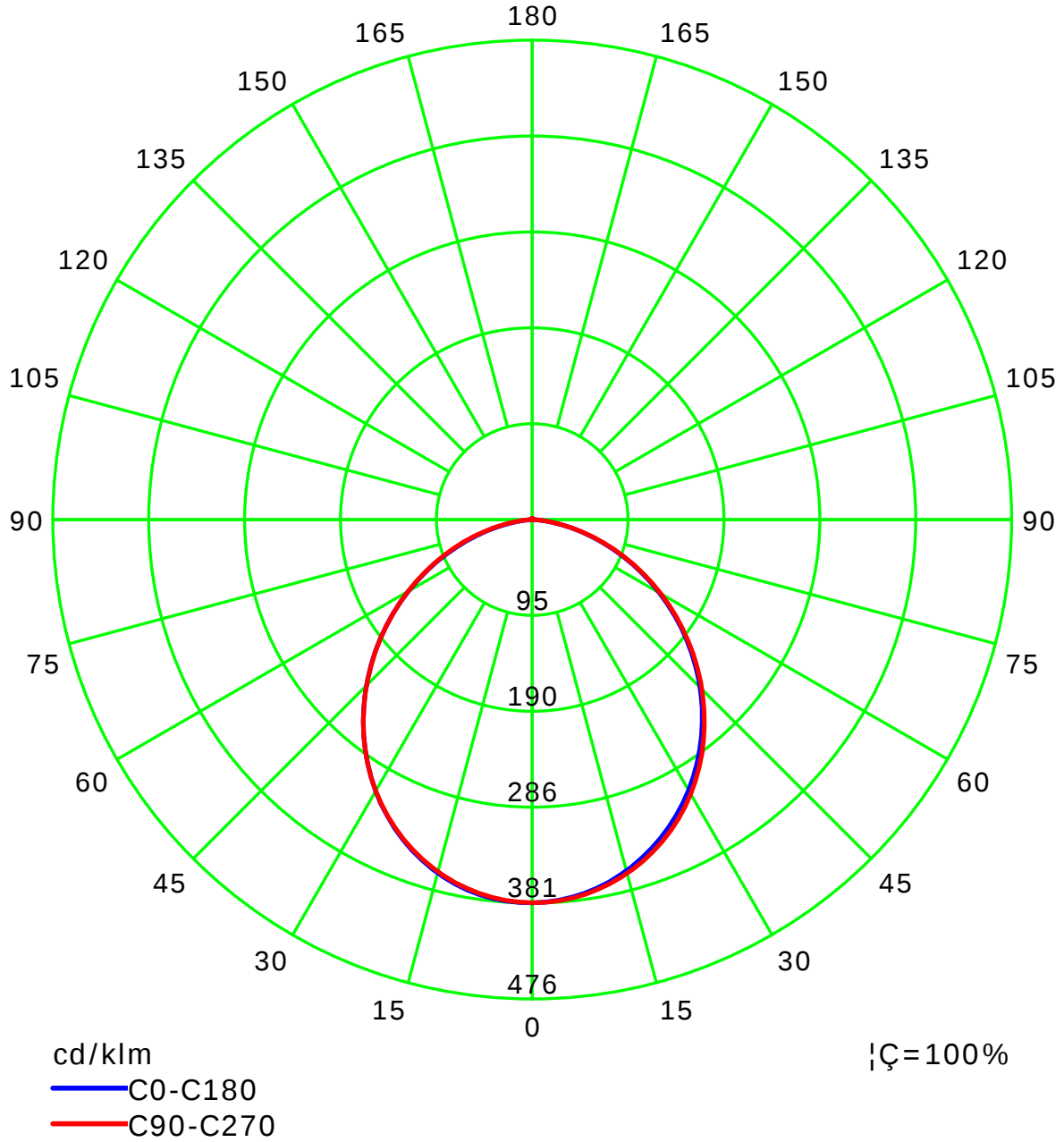
Test Device: LSG-1800B

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

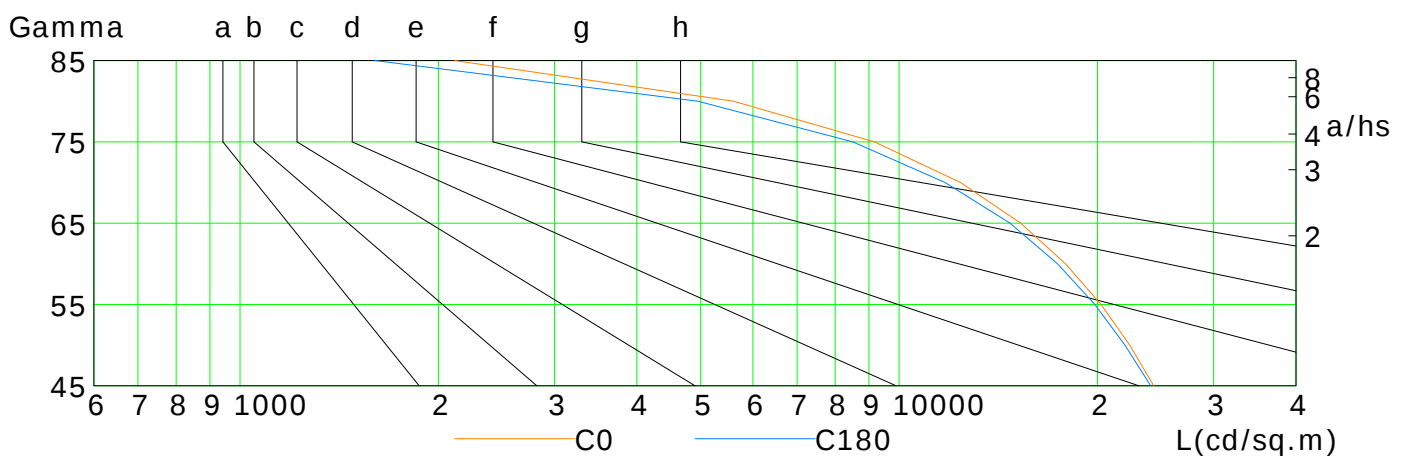
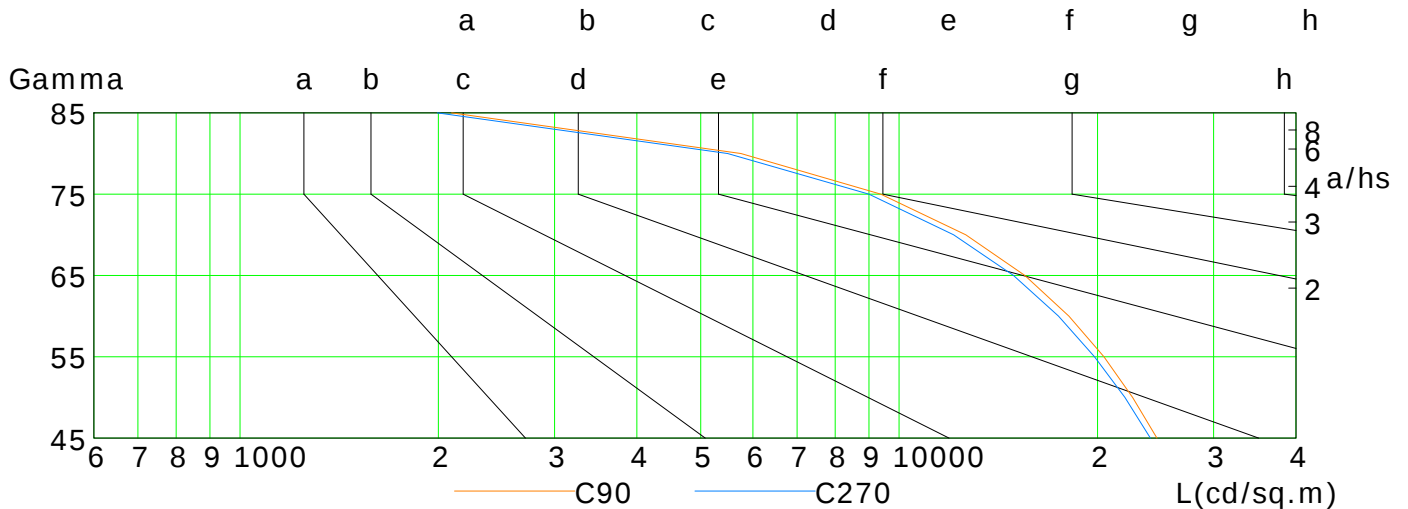
Distance: 12.677 m

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	24343	22377	20243	17883	15291	12389	9173	5606	2119
C90	24616	22611	20456	18099	15517	12620	9379	5753	2095
C180	24081	22012	19808	17392	14731	11747	8506	4949	1603
C270	24056	22010	19794	17447	14911	12095	9001	5493	1992

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

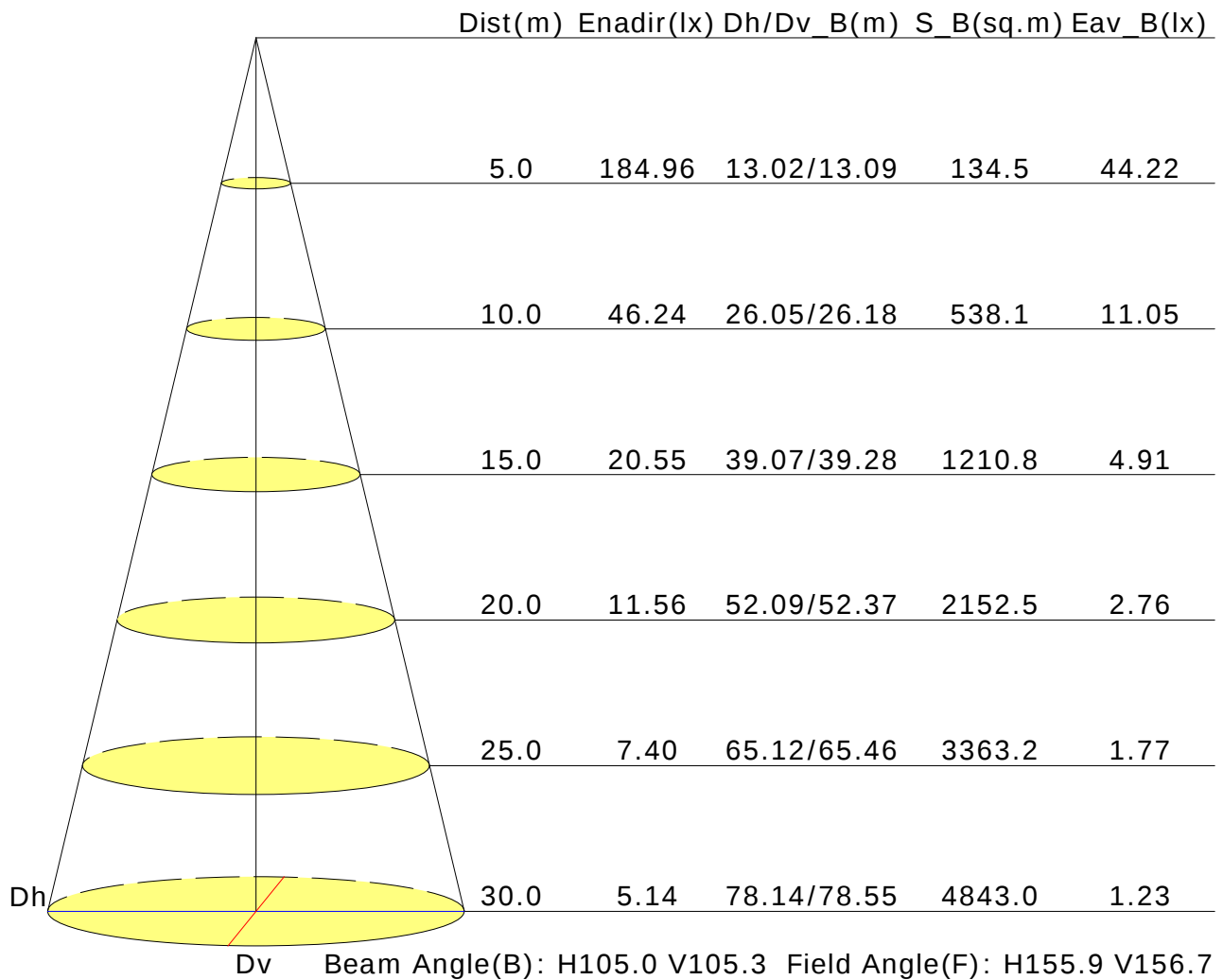
Test Device: LSG-1800B

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	22.7	24.0	23.0	24.3	24.5	22.7	24.0	23.0	24.3	24.5
3H	23.8	25.0	24.1	25.3	25.6	23.8	25.0	24.1	25.3	25.6
4H	24.1	25.3	24.5	25.6	25.9	24.1	25.3	24.5	25.6	25.9
6H	24.3	25.4	24.7	25.7	26.0	24.3	25.4	24.7	25.7	26.0
8H	24.3	25.4	24.7	25.7	26.0	24.3	25.4	24.7	25.7	26.0
12H	24.3	25.3	24.7	25.6	26.0	24.3	25.3	24.7	25.6	26.0
X=4H Y=2H	23.2	24.3	23.5	24.6	24.9	23.1	24.3	23.5	24.6	24.9
3H	24.4	25.4	24.8	25.7	26.1	24.4	25.4	24.8	25.7	26.1
4H	24.9	25.7	25.3	26.1	26.5	24.9	25.7	25.3	26.1	26.5
6H	25.1	25.9	25.5	26.3	26.7	25.1	25.9	25.5	26.3	26.7
8H	25.1	25.9	25.6	26.3	26.7	25.1	25.9	25.6	26.3	26.7
12H	25.1	25.8	25.6	26.2	26.7	25.1	25.8	25.6	26.2	26.7
X=8H Y=4H	25.0	25.7	25.4	26.1	26.5	25.0	25.7	25.4	26.1	26.5
6H	25.3	25.9	25.8	26.3	26.8	25.3	25.9	25.8	26.3	26.8
8H	25.4	25.9	25.9	26.3	26.8	25.4	25.9	25.9	26.3	26.8
12H	25.4	25.8	25.9	26.3	26.8	25.4	25.8	25.9	26.3	26.8
X=12H Y=4H	25.0	25.6	25.4	26.1	26.5	25.0	25.6	25.4	26.0	26.5
6H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
8H	25.4	25.8	25.9	26.3	26.8	25.4	25.8	25.9	26.3	26.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.6					+0.4/-0.7				
S=2.0H	+0.8/-1.2					+0.8/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 12134lm ($8\log(F/F_0) = 8.7$).

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	0.58	0.69	0.76	0.81	0.88	0.93	0.97	1.01	1.04	
	0.30		0.51	0.61	0.69	0.74	0.83	0.88	0.92	0.97	1.01	
	0.20		0.45	0.56	0.63	0.69	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.57	0.67	0.74	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.50	0.60	0.67	0.73	0.80	0.85	0.89	0.94	0.97	
	0.20		0.45	0.55	0.62	0.68	0.76	0.82	0.86	0.91	0.95	
0.30	0.50	0.20	0.55	0.65	0.71	0.76	0.82	0.87	0.90	0.93	0.96	
	0.30		0.49	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
	0.20		0.44	0.54	0.62	0.67	0.74	0.80	0.83	0.88	0.92	
0.00	0.00	0.00	0.42	0.52	0.59	0.64	0.71	0.76	0.79	0.84	0.87	
Rating:98W 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	0.97	0.80	0.68	0.59	0.47	0.39	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.60	0.52	0.47	0.38	0.33	0.28	0.22	0.19	
0.50	0.50	0.20	0.94	0.76	0.65	0.56	0.44	0.40	0.31	0.24	0.19	
	0.30		0.79	0.66	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	0.73	0.62	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.77	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	0.57	0.48	0.41	0.36	0.29	0.24	0.20	0.16	0.13	
Rating:98W 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	0.18	0.19	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	0.14	0.16	0.17	
0.50	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	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.19	0.20	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:98W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												