

Report No.:

Test Time: 30.10.2020 17:19

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 25LED 0.45A 55Wx2 5000K opal

Number of Lamps: 1

Luminous Width (mm): 55

Voltage: 221.4 V

Power: 108.01 W

Luminous Length (mm): 1245

Luminous Height (mm): 80

Current: 0.496 A

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 9855.4 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.5, 160.0, 161.9, 162.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.5, 109.1, 110.2, 110.3

Luminaire Efficacy Rating (LER): 91.29

Max. Intensity: 3508.28 cd

S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 9855.4 lm

Efficiency: 100%

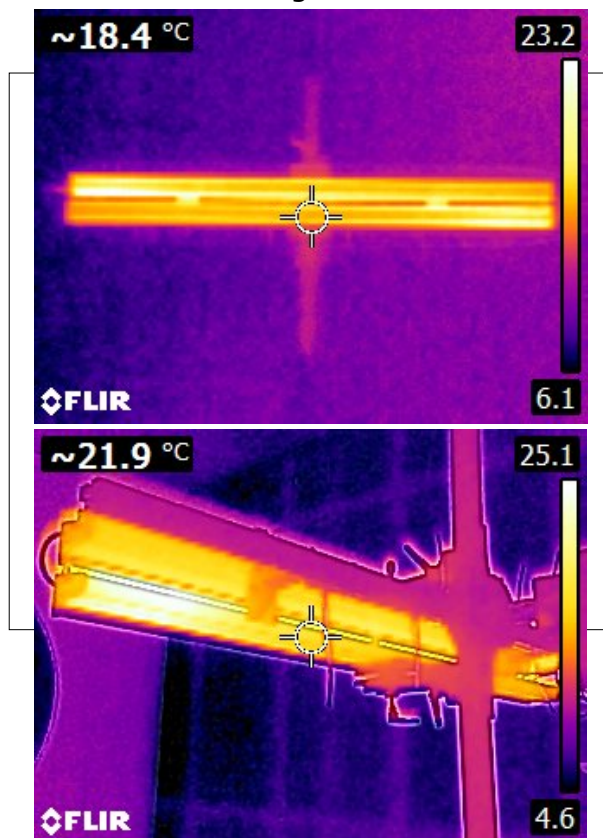
Upward Ratio: 0%

Central Intensity: 3507.64 cd

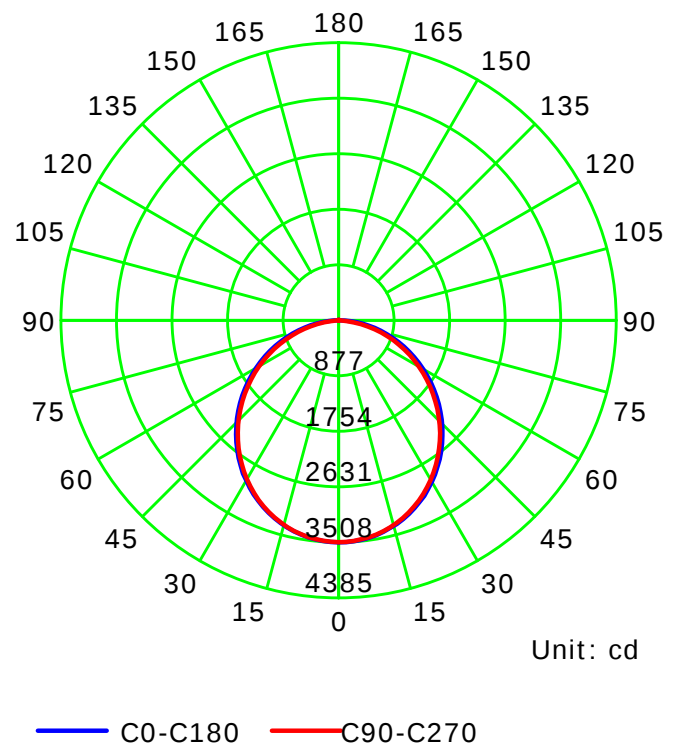
Pos of Max. Intensity: H22.5 V0

S/MH(C90/C270): 1.23

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

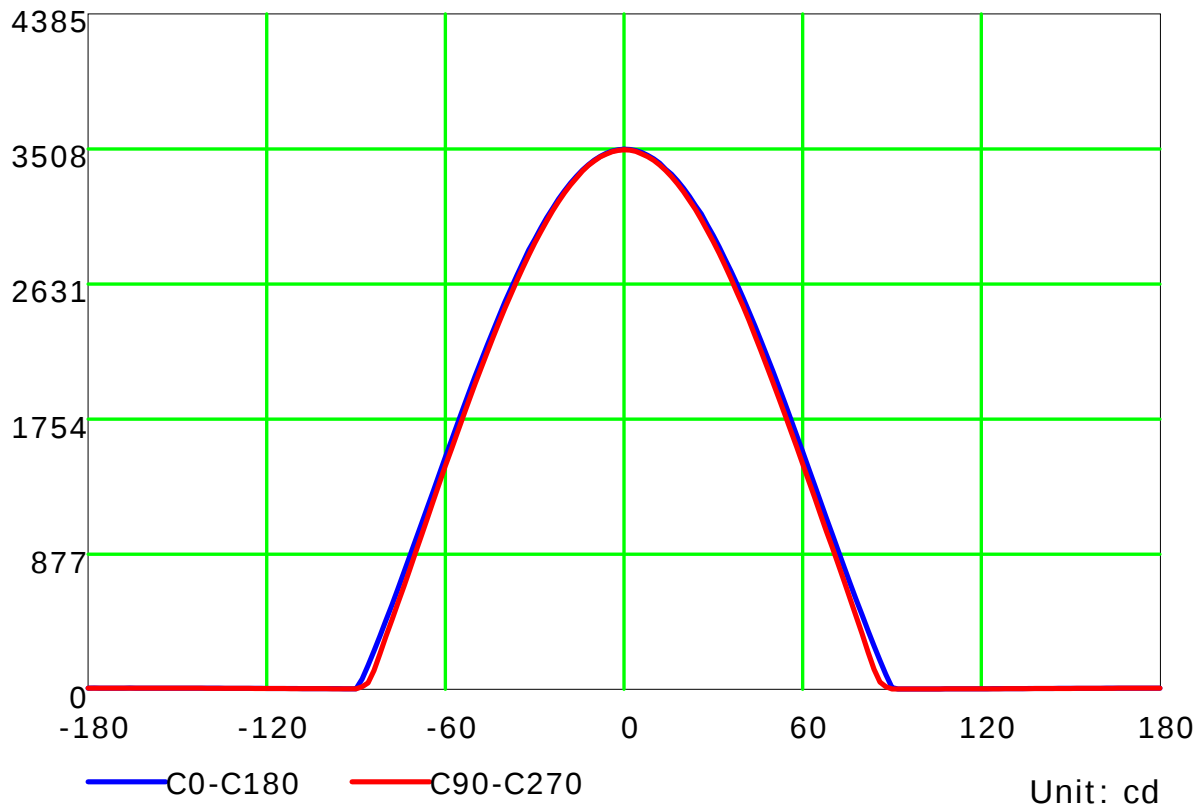
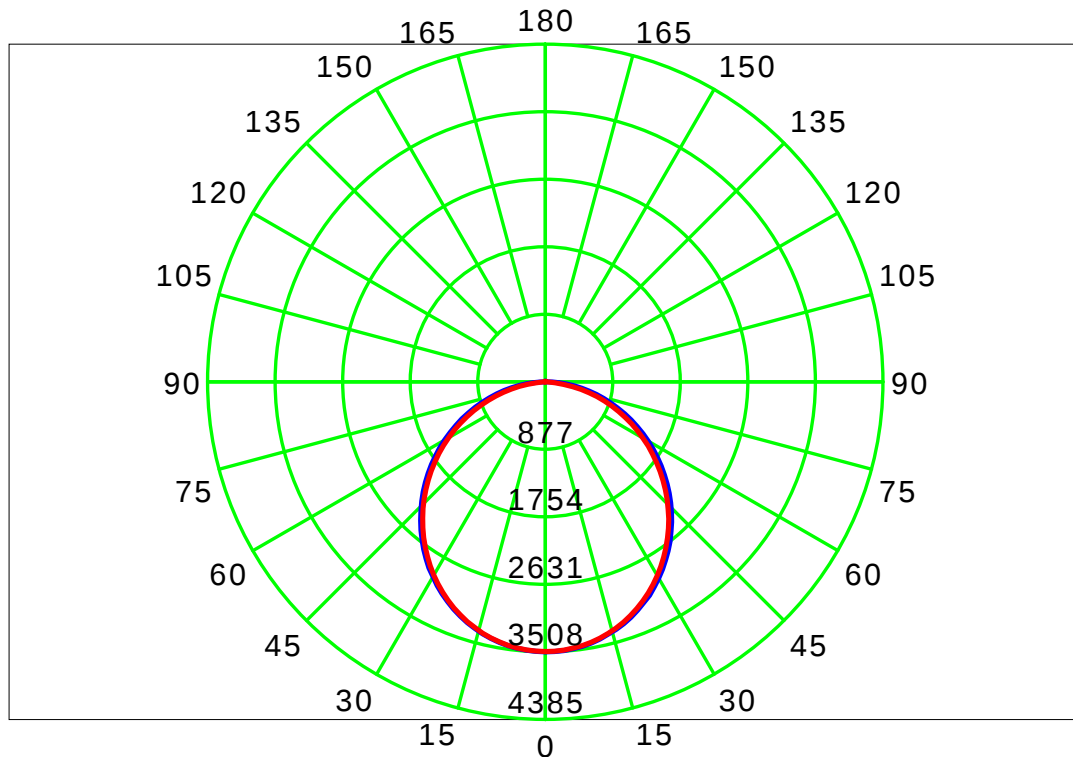
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

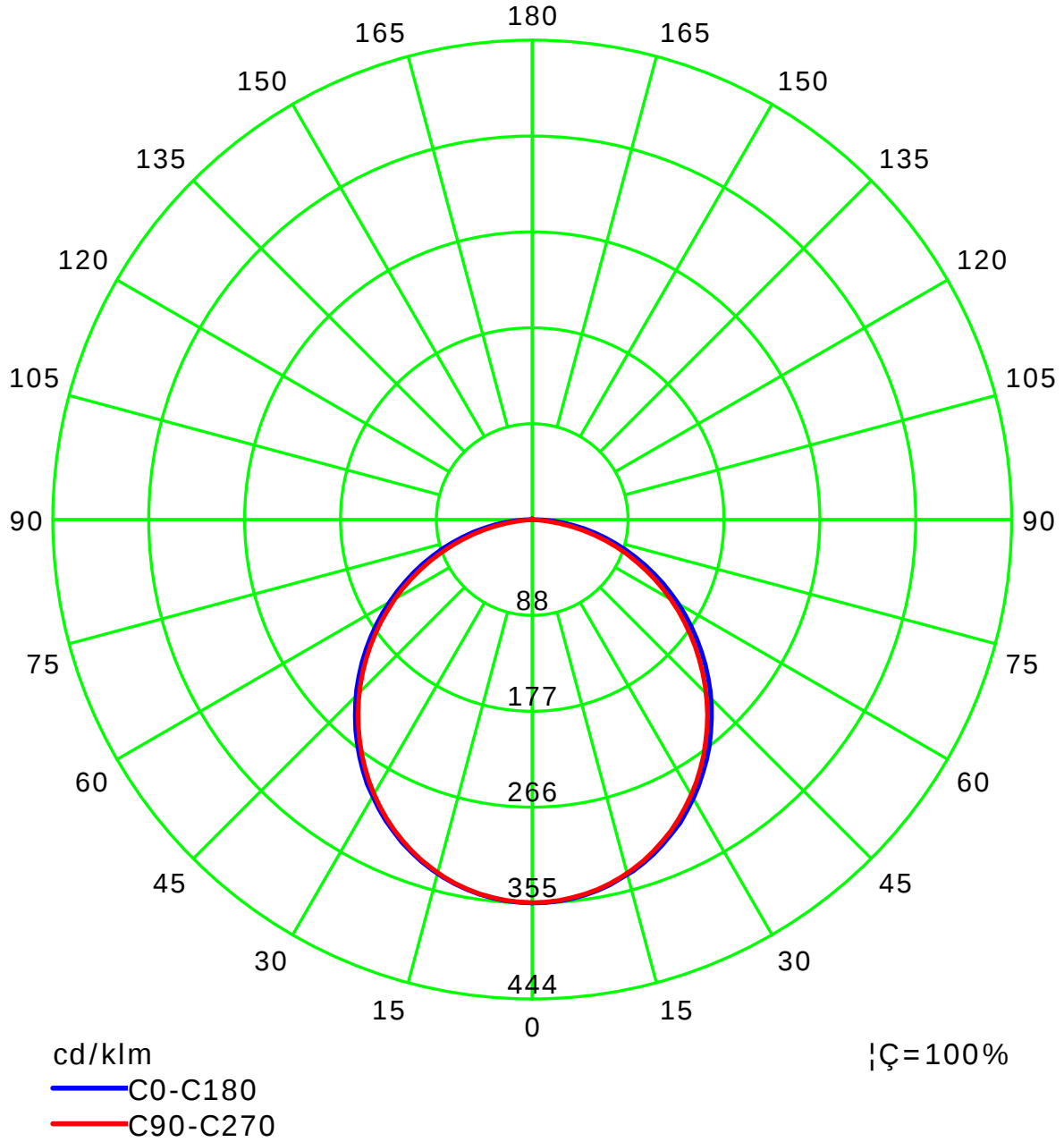
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

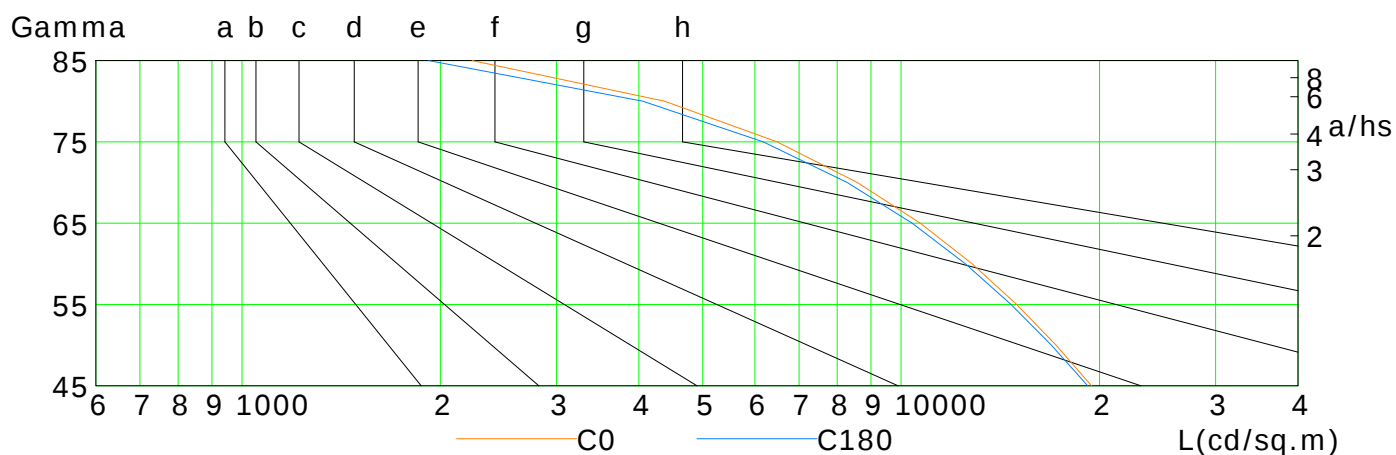
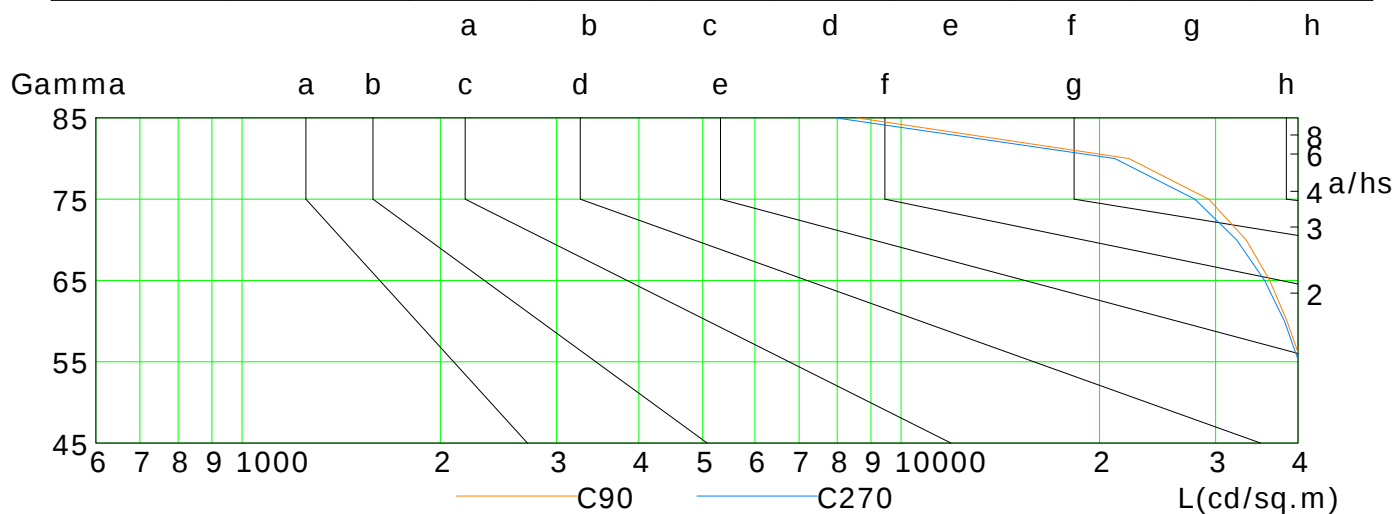
Gamma Plane (°): 0.0-180.0: 2.0
Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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	19452	17175	14972	12813	10691	8580	6485	4378	2235
C90	43633	42087	40450	38506	36239	33389	29280	22152	8574
C180	19186	16904	14682	12517	10388	8285	6178	4057	1920
C270	43418	41892	40134	38160	35602	32287	27891	21088	7951

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

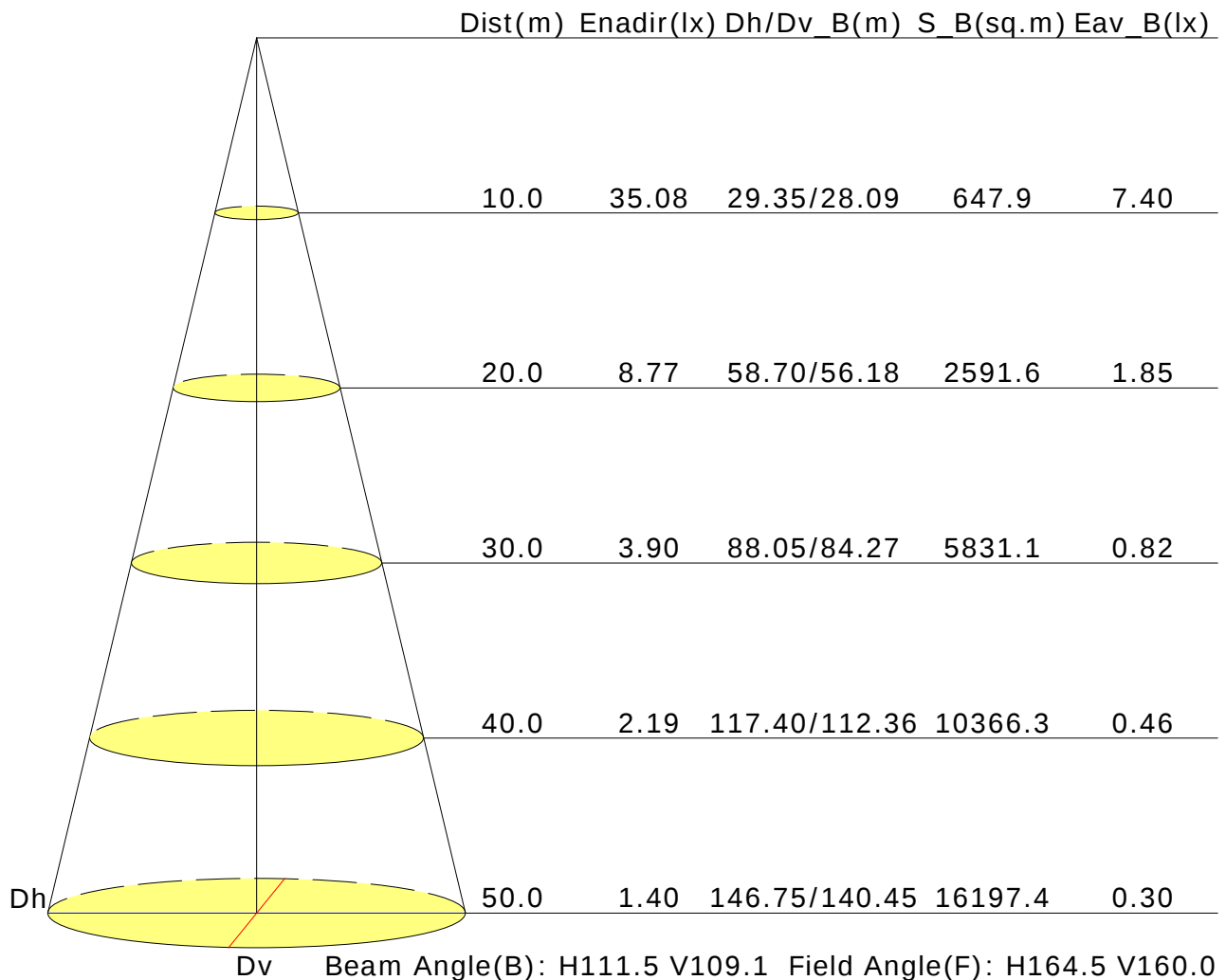
Test Device: LSG-1800B

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	22.2	23.6	22.5	23.8	24.1	23.9	25.3	24.2	25.6	25.8
3H	23.3	24.6	23.6	24.8	25.1	25.4	26.7	25.7	26.9	27.2
4H	23.7	24.9	24.0	25.2	25.5	26.0	27.1	26.3	27.4	27.7
6H	23.9	25.0	24.3	25.4	25.7	26.3	27.4	26.7	27.7	28.1
8H	24.0	25.1	24.4	25.4	25.7	26.4	27.5	26.8	27.8	28.1
12H	24.0	25.0	24.4	25.4	25.7	26.4	27.4	26.8	27.8	28.1
X=4H Y=2H	22.8	24.0	23.2	24.3	24.6	24.2	25.4	24.6	25.7	26.0
3H	24.1	25.1	24.5	25.4	25.8	25.8	26.8	26.2	27.2	27.5
4H	24.6	25.5	25.0	25.9	26.2	26.5	27.4	26.9	27.7	28.1
6H	24.9	25.7	25.3	26.1	26.5	26.9	27.7	27.3	28.1	28.5
8H	25.0	25.7	25.4	26.2	26.6	27.0	27.8	27.4	28.2	28.6
12H	25.0	25.7	25.5	26.1	26.6	27.0	27.7	27.5	28.1	28.6
X=8H Y=4H	24.8	25.5	25.2	26.0	26.4	26.5	27.3	27.0	27.7	28.1
6H	25.2	25.8	25.7	26.3	26.7	27.0	27.7	27.5	28.1	28.6
8H	25.4	25.9	25.9	26.4	26.9	27.2	27.7	27.7	28.2	28.7
12H	25.4	25.9	25.9	26.4	26.9	27.2	27.7	27.7	28.2	28.7
X=12H Y=4H	24.8	25.5	25.3	25.9	26.4	26.5	27.2	27.0	27.6	28.1
6H	25.3	25.8	25.7	26.2	26.7	27.0	27.6	27.5	28.0	28.5
8H	25.4	25.9	25.9	26.4	26.9	27.2	27.7	27.7	28.1	28.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.6				
S=2.0H	+0.7/-1.3					+1.2/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 9855lm ($8\log(F/F_0) = 7.9$).

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:

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	0.56	0.67	0.74	0.80	0.87	0.92	0.96	1.00	1.03	
	0.30		0.49	0.59	0.67	0.72	0.81	0.86	0.90	0.96	1.00	
	0.20		0.43	0.53	0.61	0.67	0.75	0.82	0.86	0.92	0.96	
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99	
	0.30		0.48	0.58	0.65	0.71	0.78	0.84	0.88	0.93	0.96	
	0.20		0.43	0.53	0.60	0.66	0.74	0.80	0.84	0.90	0.93	
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.90	0.93	
	0.20		0.42	0.52	0.59	0.65	0.72	0.78	0.82	0.87	0.90	
0.00	0.00	0.00	0.40	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.86	
Rating:108W 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	1.00	0.83	0.70	0.61	0.49	0.41	0.35	0.27	0.22	
	0.30		0.83	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.62	0.54	0.49	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.59	0.47	0.42	0.33	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.94	0.76	0.65	0.56	0.45	0.37	0.32	0.24	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.47	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14	
Rating:108W 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	0.15	0.17	0.17	0.19	0.20	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	
0.30	0.50	0.20	0.16	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	0.17	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	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:108W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												