

Report No.:

Test Time: 20.11.2020 13:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 80LED 0,6A 2x75W 4000K opal

Luminous Length (mm): 1545

Luminous Width (mm): 55

Luminous Height (mm): 90

Voltage: 221.4 V

Current: 0.701 A

Power: 151.97 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 13765.2 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 13765.2 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.9, 162.3, 161.8, 161.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.7, 114.8, 114.8, 114.8

Luminaire Efficacy Rating (LER): 90.63

Central Intensity: 4686.67 cd

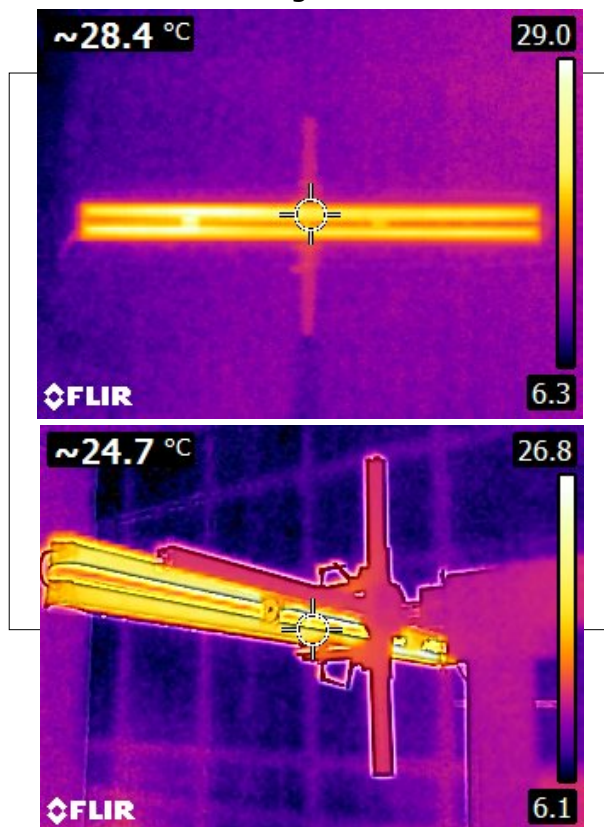
Max. Intensity: 4698.5 cd

Pos of Max. Intensity: H112.5 V0

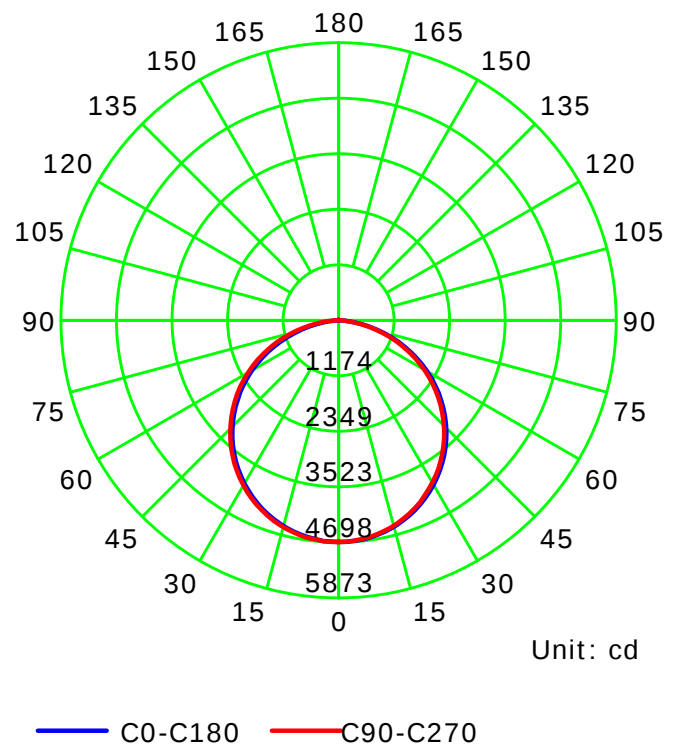
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.27

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

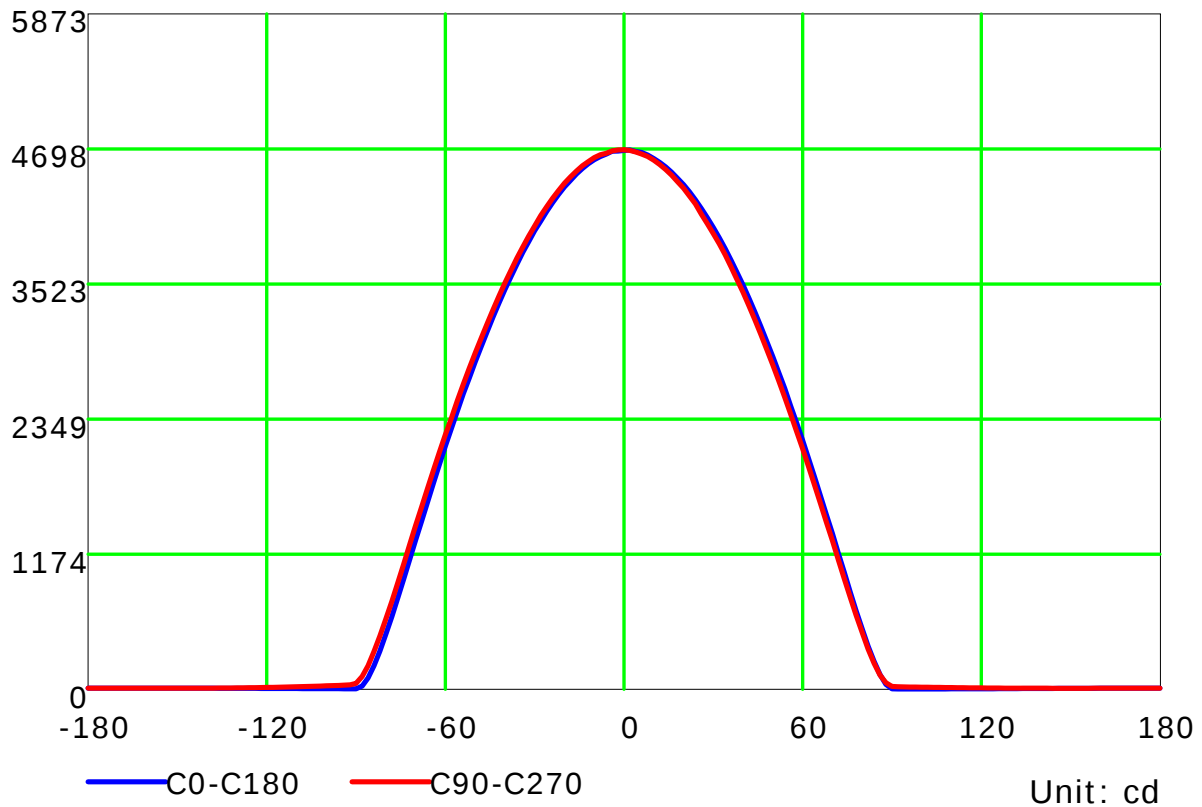
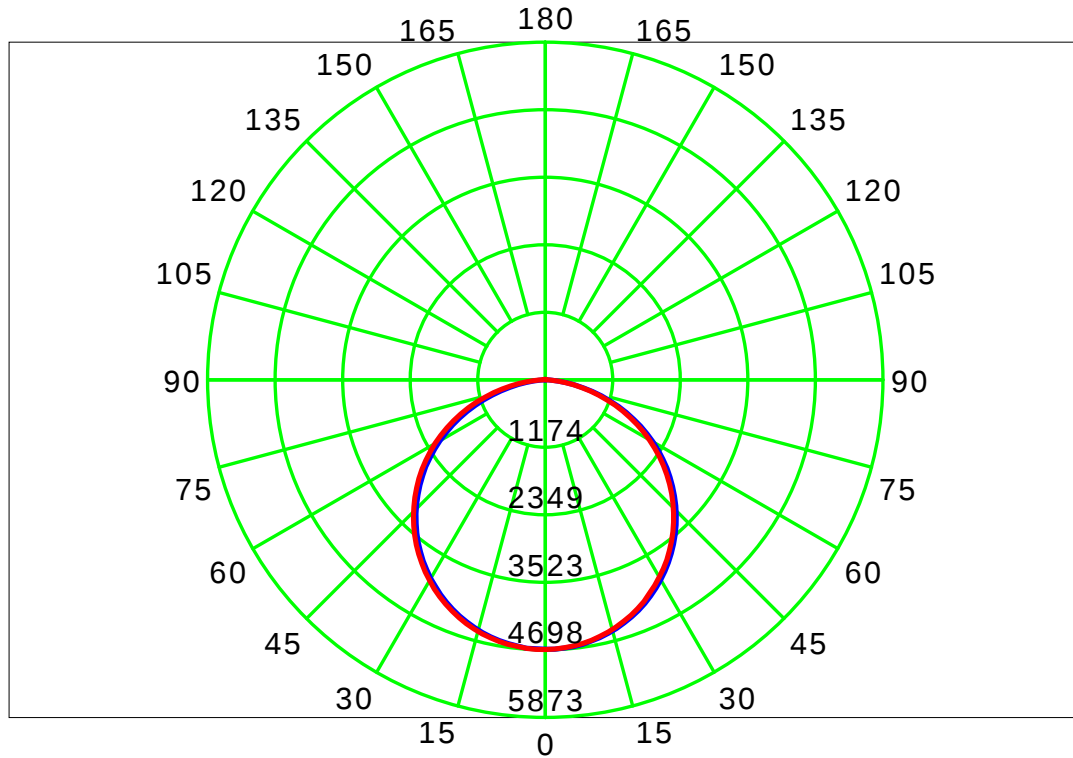
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

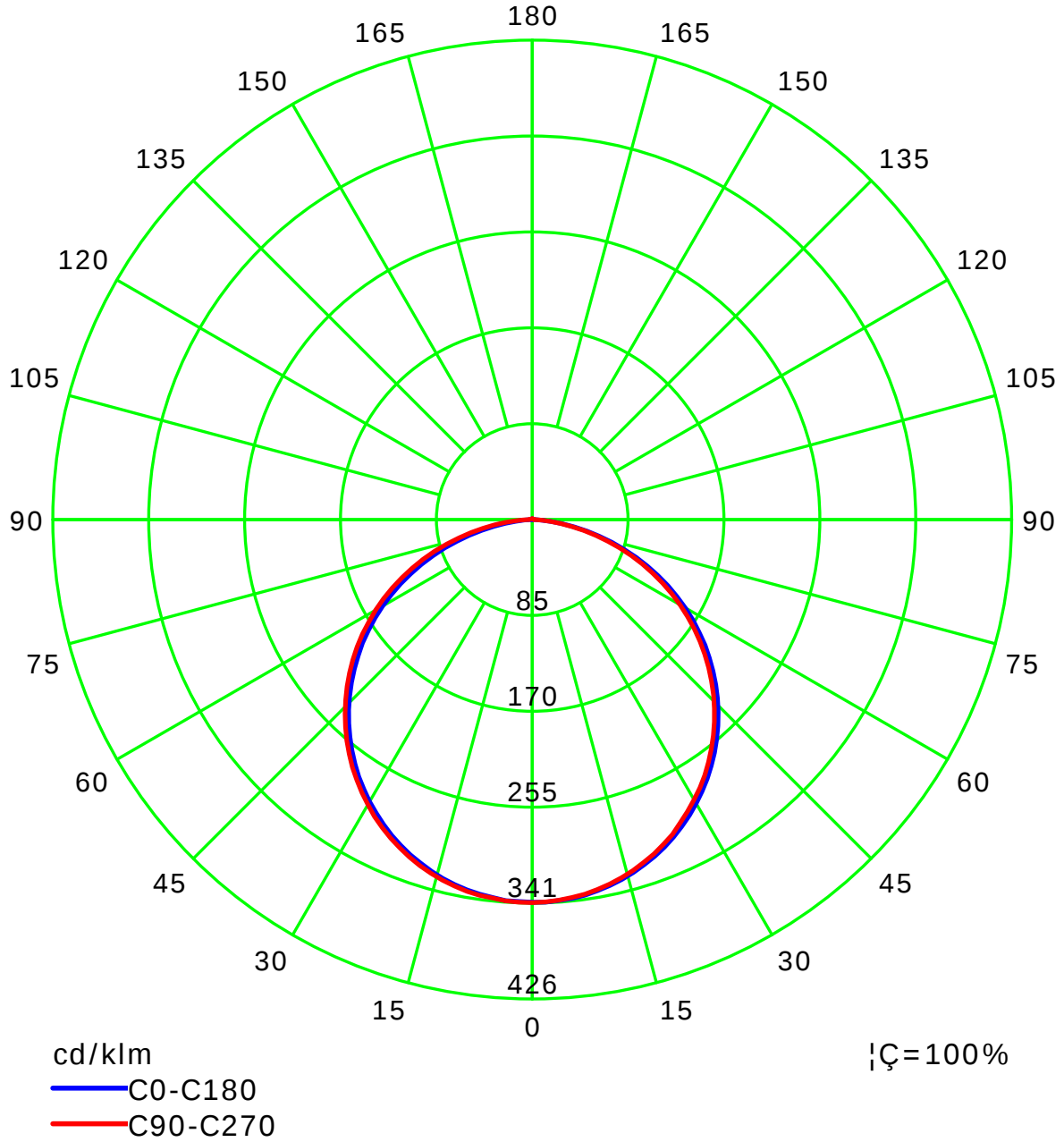
Luminous Intensity Distribution Curve



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

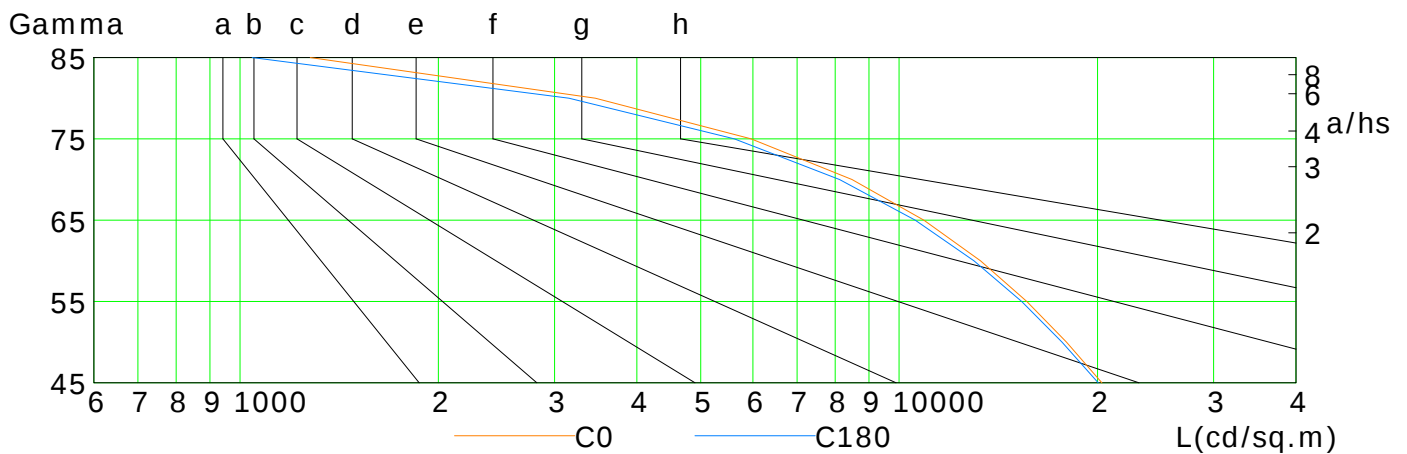
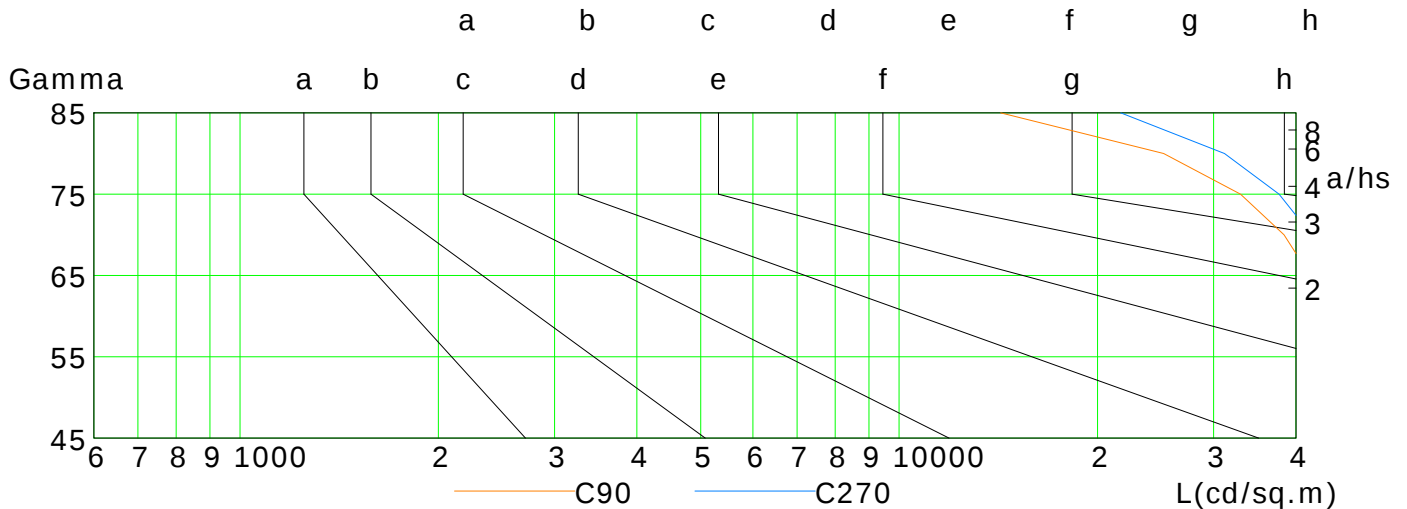
Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

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	20309	17942	15622	13292	10904	8480	5964	3461	1278
C90	49526	48275	46746	44725	42026	38376	32954	25202	14263
C180	20043	17667	15345	12987	10580	8122	5624	3156	1044
C270	50974	50041	48915	47367	45238	42236	37708	31164	21684

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

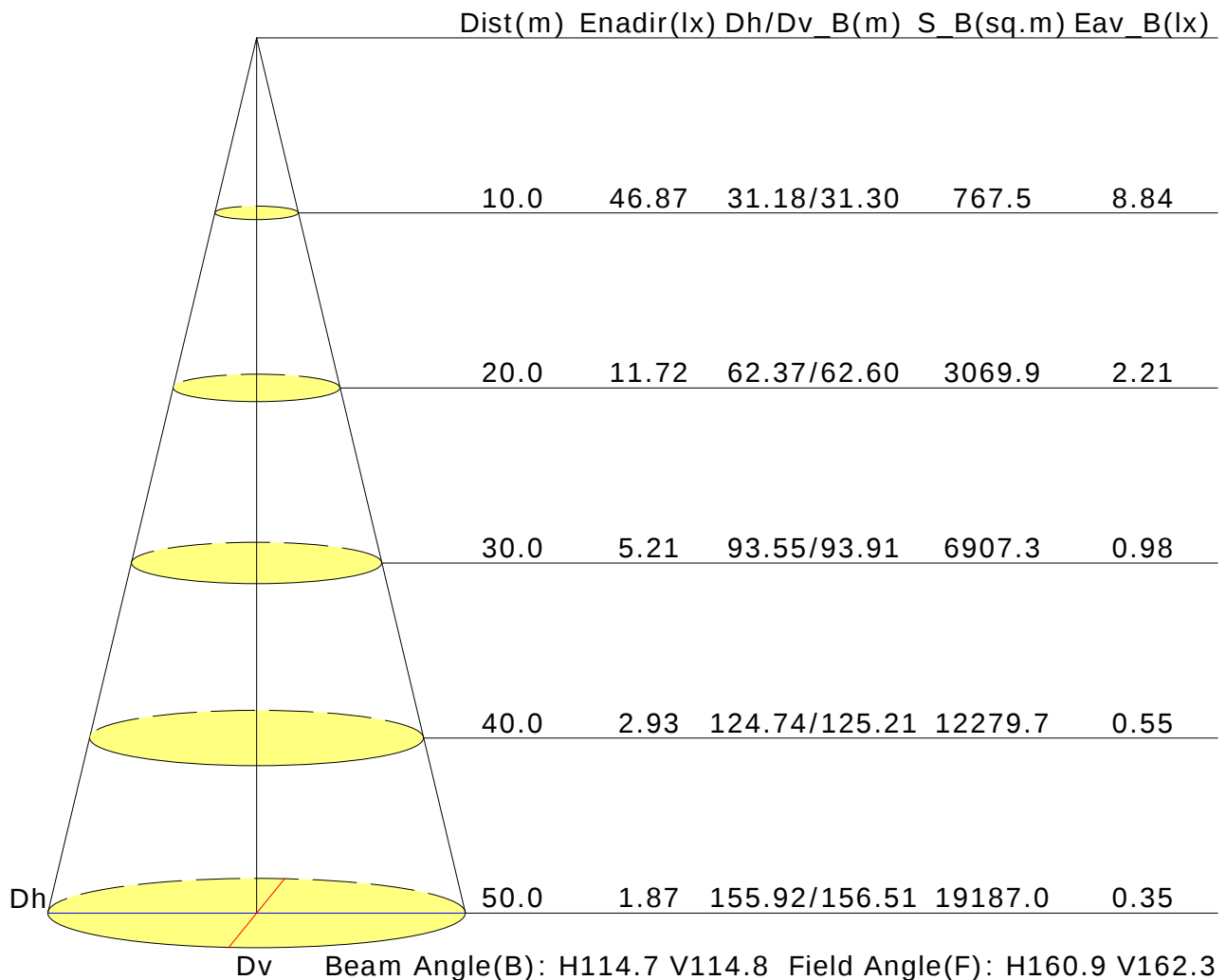
Test Device: LSG-1800B

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	22.4	23.8	22.7	24.0	24.3	24.5	25.9	24.8	26.1	26.4
3H	23.4	24.7	23.8	25.0	25.3	26.0	27.3	26.4	27.6	27.9
4H	23.7	24.9	24.1	25.2	25.5	26.6	27.8	27.0	28.1	28.4
6H	23.9	25.0	24.3	25.3	25.7	27.0	28.1	27.4	28.4	28.8
8H	23.9	25.0	24.3	25.3	25.7	27.1	28.2	27.5	28.5	28.9
12H	23.9	24.9	24.3	25.3	25.6	27.2	28.2	27.6	28.5	28.9
X=4H Y=2H	23.0	24.2	23.4	24.5	24.8	24.7	25.9	25.1	26.2	26.6
3H	24.2	25.2	24.6	25.6	25.9	26.4	27.4	26.8	27.8	28.1
4H	24.6	25.5	25.0	25.9	26.3	27.1	28.0	27.5	28.4	28.8
6H	24.8	25.7	25.3	26.1	26.5	27.5	28.4	28.0	28.8	29.2
8H	24.9	25.6	25.3	26.0	26.5	27.7	28.4	28.1	28.9	29.3
12H	24.9	25.6	25.3	26.0	26.5	27.8	28.4	28.2	28.9	29.3
X=8H Y=4H	24.9	25.6	25.3	26.0	26.5	27.1	27.9	27.6	28.3	28.7
6H	25.2	25.8	25.6	26.2	26.7	27.7	28.3	28.1	28.7	29.2
8H	25.2	25.8	25.7	26.2	26.7	27.8	28.4	28.3	28.8	29.3
12H	25.2	25.7	25.7	26.2	26.7	28.0	28.4	28.5	28.9	29.4
X=12H Y=4H	24.9	25.5	25.3	26.0	26.4	27.1	27.8	27.6	28.2	28.7
6H	25.2	25.7	25.7	26.2	26.7	27.7	28.2	28.1	28.7	29.2
8H	25.3	25.7	25.8	26.2	26.7	27.8	28.3	28.3	28.8	29.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.8					+0.6/-0.7				
S=2.0H	+0.7/-1.4					+1.3/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 13765lm ($8\log(F/F_0) = 9.1$).

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	0.66	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99	
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.96	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.84	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
	0.20		0.41	0.51	0.59	0.64	0.72	0.77	0.81	0.87	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.74	0.77	0.82	0.85	
Rating:152W 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	1.01	0.83	0.71	0.62	0.49	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	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	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.37	0.32	0.24	0.20	
	0.30		0.81	0.68	0.59	0.51	0.42	0.35	0.30	0.23	0.19	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.28	0.22	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.22	0.17	0.14	
Rating:152W 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	0.20	0.21	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		0.05	0.07	0.08	0.09	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.11	0.13	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	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:152W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												