

Report No.:

Test Time: 19.10.2020 11:35

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 55_300 45LED 11W 5000K opal

Luminous Length (mm): 345

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.3 V

Current: 0.048 A

Power: 10.30 W

Power Factor: 0.965

Photometric Results

CIE Class: Direct

Measurement Flux: 1113 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 1113.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.2, 164.1, 162.5, 162.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.9, 115.0, 113.9, 113.8

Luminaire Efficacy Rating (LER): 108.10

Central Intensity: 379.51 cd

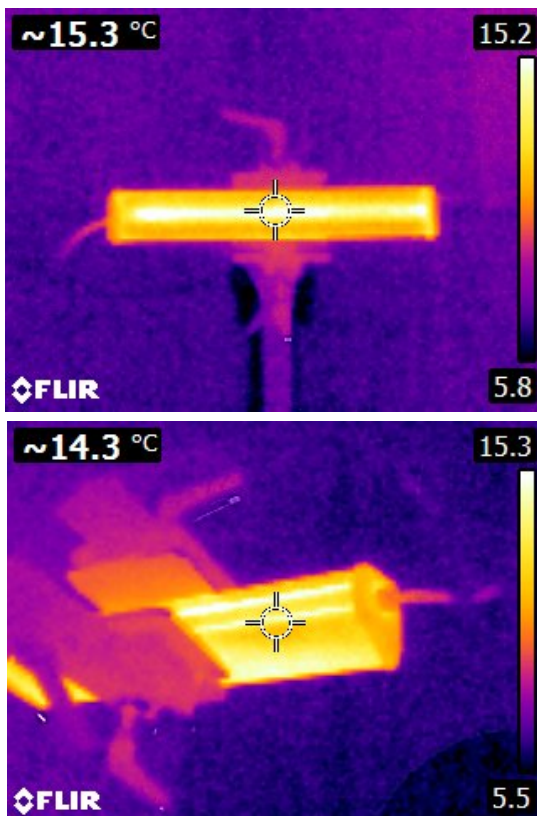
Max. Intensity: 379.58 cd

Pos of Max. Intensity: H67.5 V2

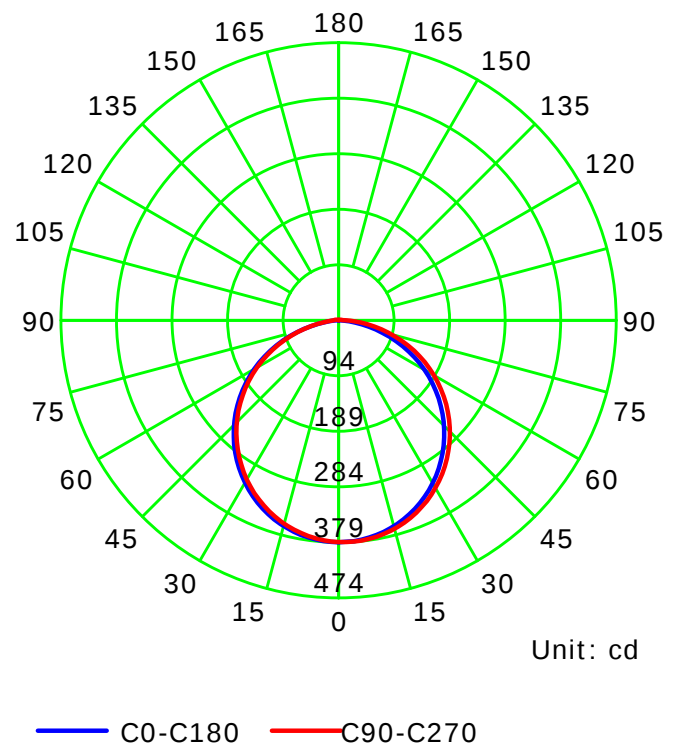
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

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

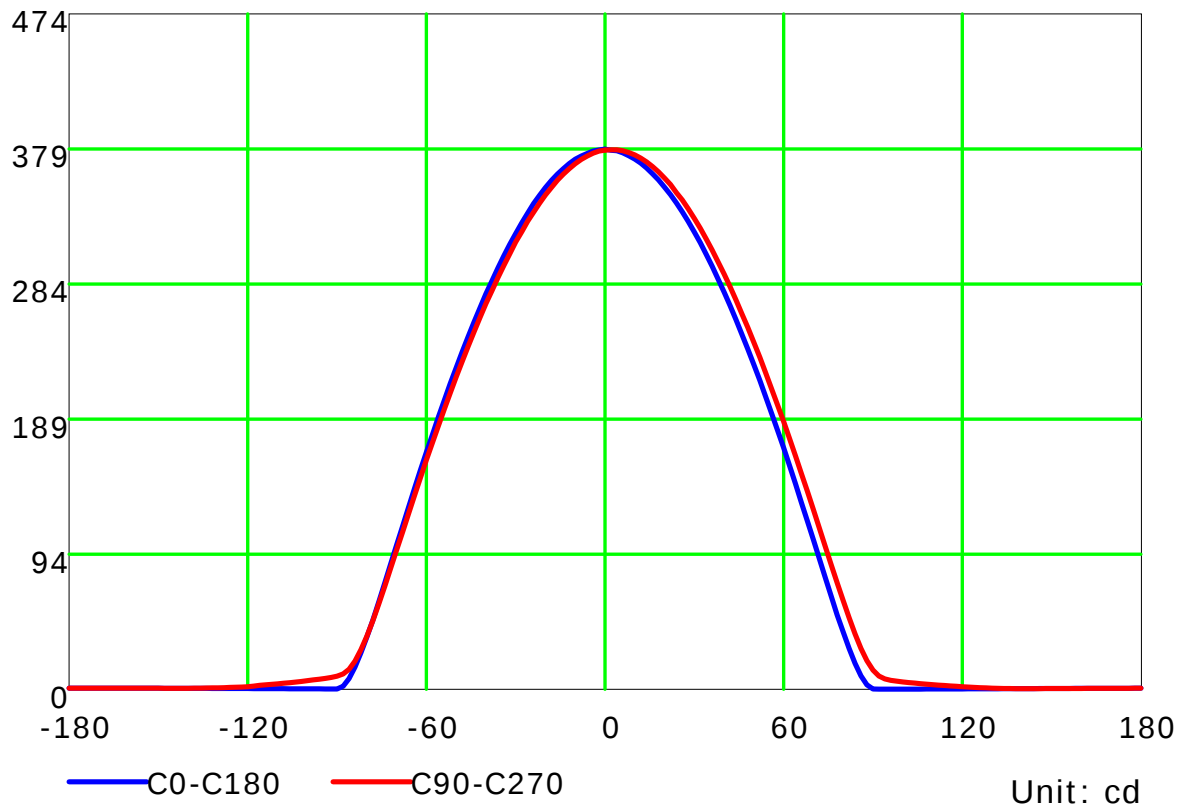
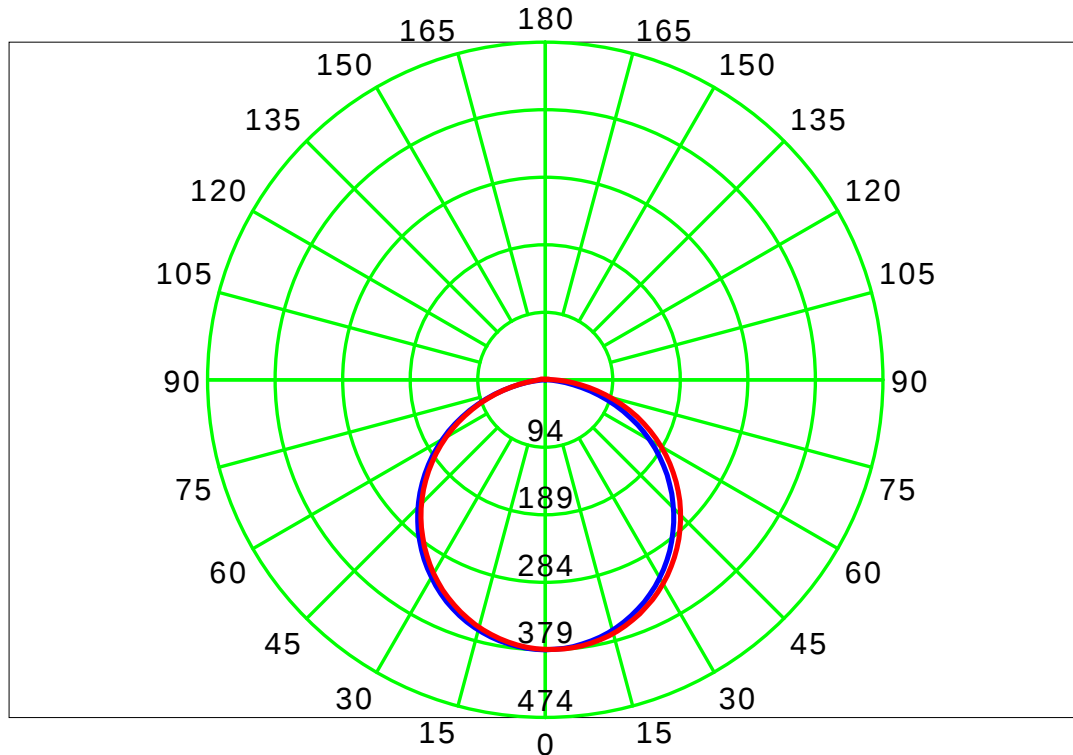
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

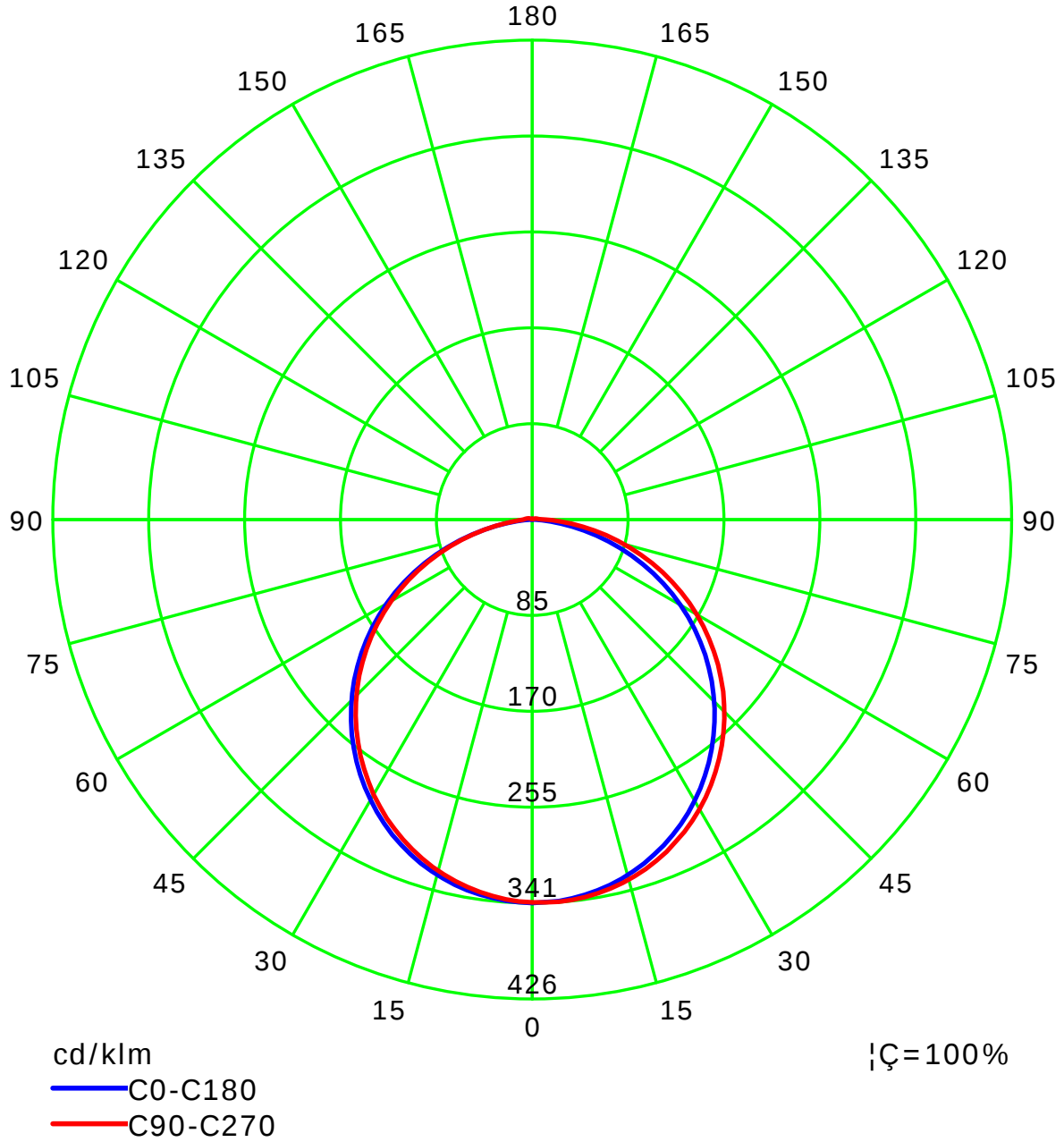
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
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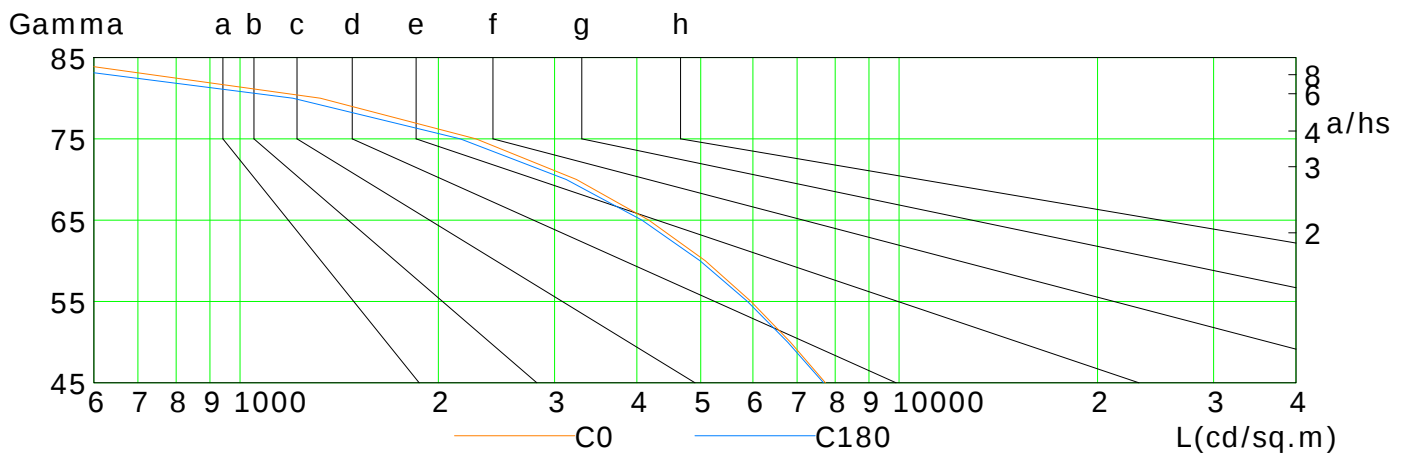
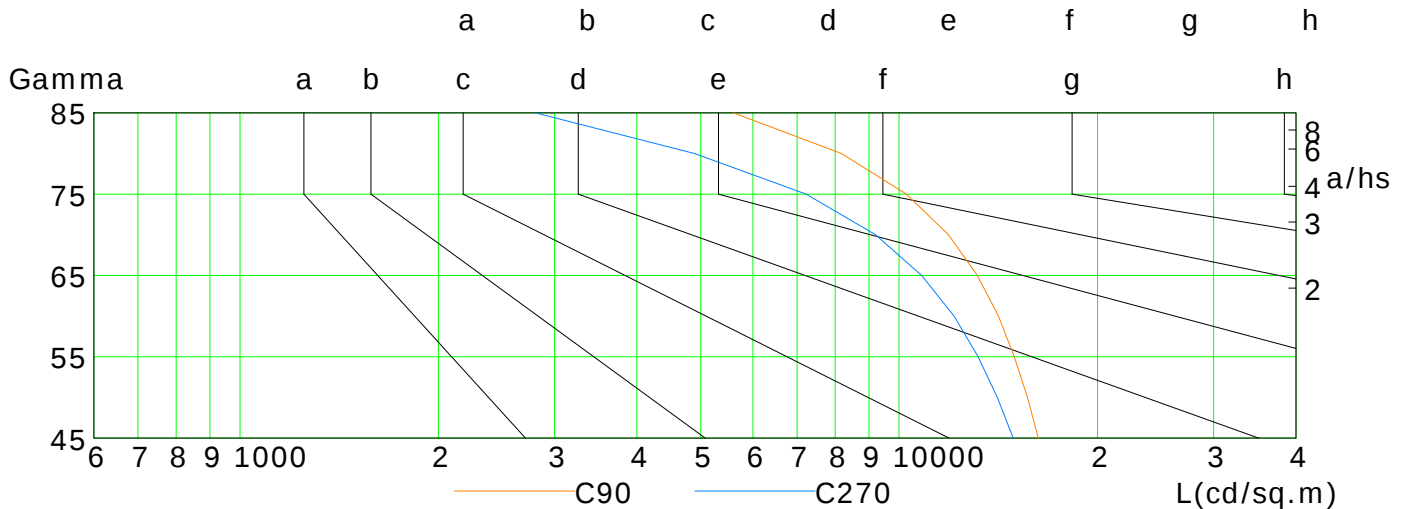
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Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

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	7732	6840	5960	5083	4172	3239	2280	1324	477
C90	16260	15652	14954	14146	13138	11880	10257	8174	5608
C180	7680	6774	5887	4988	4073	3127	2159	1203	398
C270	14891	14093	13181	12119	10818	9216	7228	4892	2806

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

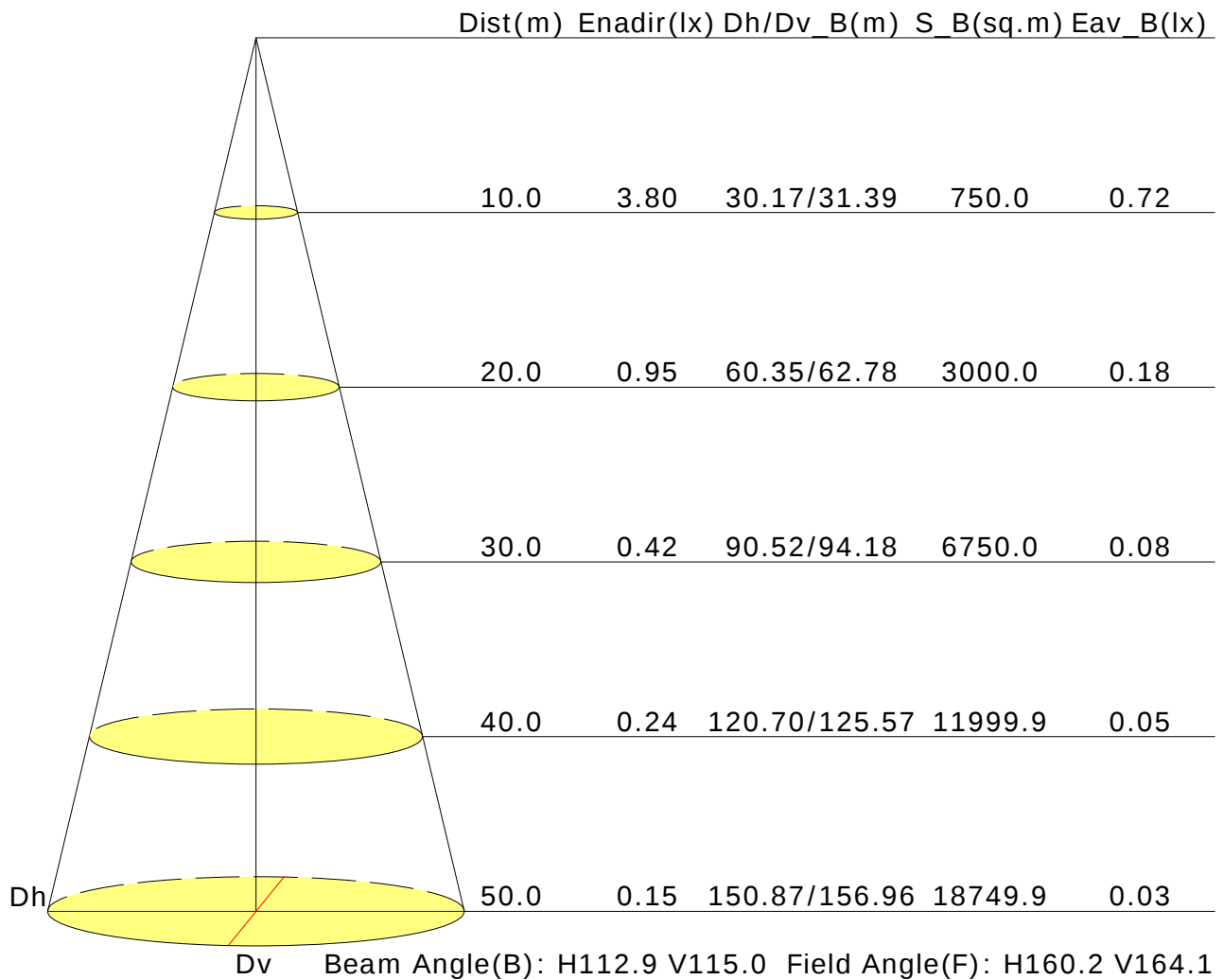
Test Device: LSG-1800B

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	18.8	20.2	19.2	20.5	20.8	20.6	22.0	20.9	22.2	22.5
3H	19.9	21.1	20.2	21.4	21.7	22.0	23.3	22.4	23.6	23.9
4H	20.2	21.4	20.6	21.7	22.0	22.6	23.8	23.0	24.1	24.4
6H	20.4	21.5	20.7	21.8	22.1	23.0	24.1	23.4	24.4	24.8
8H	20.4	21.4	20.8	21.8	22.1	23.1	24.2	23.5	24.5	24.9
12H	20.4	21.4	20.8	21.7	22.1	23.2	24.2	23.6	24.6	24.9
X=4H Y=2H	19.5	20.7	19.8	21.0	21.3	20.9	22.1	21.2	22.4	22.7
3H	20.7	21.7	21.1	22.0	22.4	22.5	23.5	22.9	23.9	24.2
4H	21.1	22.0	21.5	22.4	22.8	23.1	24.1	23.6	24.4	24.8
6H	21.3	22.1	21.7	22.5	22.9	23.6	24.4	24.1	24.8	25.3
8H	21.3	22.1	21.8	22.5	22.9	23.8	24.5	24.2	25.0	25.4
12H	21.3	22.0	21.8	22.4	22.9	23.9	24.6	24.4	25.0	25.5
X=8H Y=4H	21.3	22.1	21.8	22.5	22.9	23.2	24.0	23.7	24.4	24.8
6H	21.6	22.2	22.1	22.7	23.2	23.8	24.4	24.3	24.8	25.3
8H	21.7	22.2	22.2	22.7	23.2	24.0	24.5	24.5	25.0	25.5
12H	21.7	22.2	22.2	22.7	23.2	24.2	24.6	24.7	25.1	25.6
X=12H Y=4H	21.3	22.0	21.8	22.4	22.9	23.2	23.9	23.7	24.3	24.8
6H	21.6	22.2	22.1	22.7	23.2	23.8	24.3	24.3	24.8	25.3
8H	21.7	22.2	22.2	22.7	23.2	24.0	24.5	24.5	25.0	25.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.7					+0.3/-0.4				
S=2.0H	+0.8/-1.4					+0.9/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 1113lm ($8\log(F/F_0) = 0.4$).

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	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:10W 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	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	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	0.43	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
Rating:10W 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		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	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	0.15	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	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:10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												