

Report No.:

Test Time: 19.10.2020 13:30

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 55_300 45LED 20W 5000K prozrachniy

Luminous Length (mm): 345

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.3 V

Current: 0.095 A

Power: 20.21 W

Power Factor: 0.959

Photometric Results

CIE Class: Direct

Measurement Flux: 2629.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2629.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.2, 164.4, 152.4, 145.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 127.0, 114.6, 123.1

Luminaire Efficacy Rating (LER): 130.15

Central Intensity: 910.15 cd

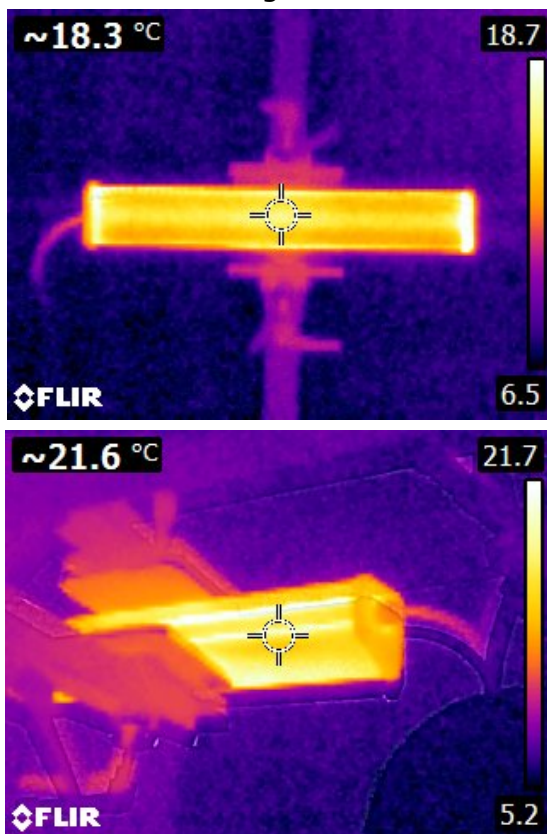
Max. Intensity: 914.43 cd

Pos of Max. Intensity: H90 V4

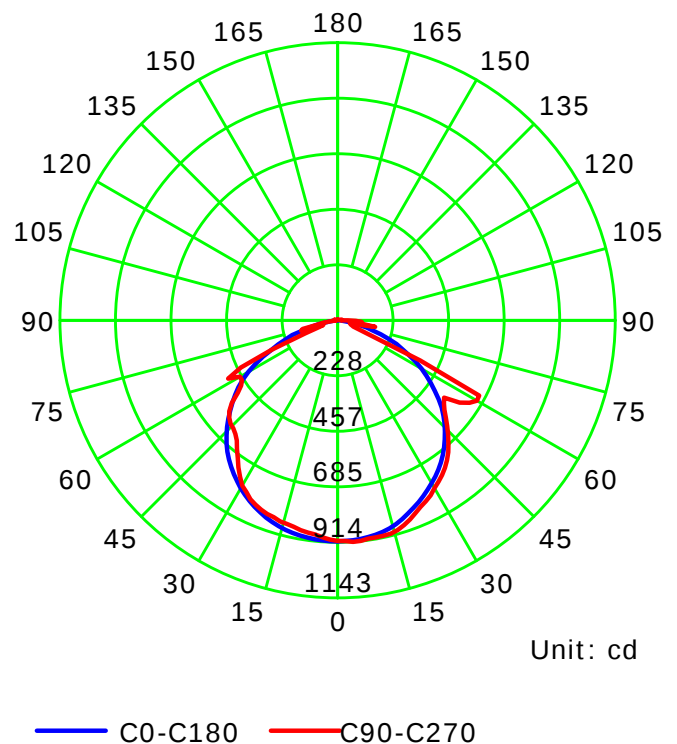
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.29

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

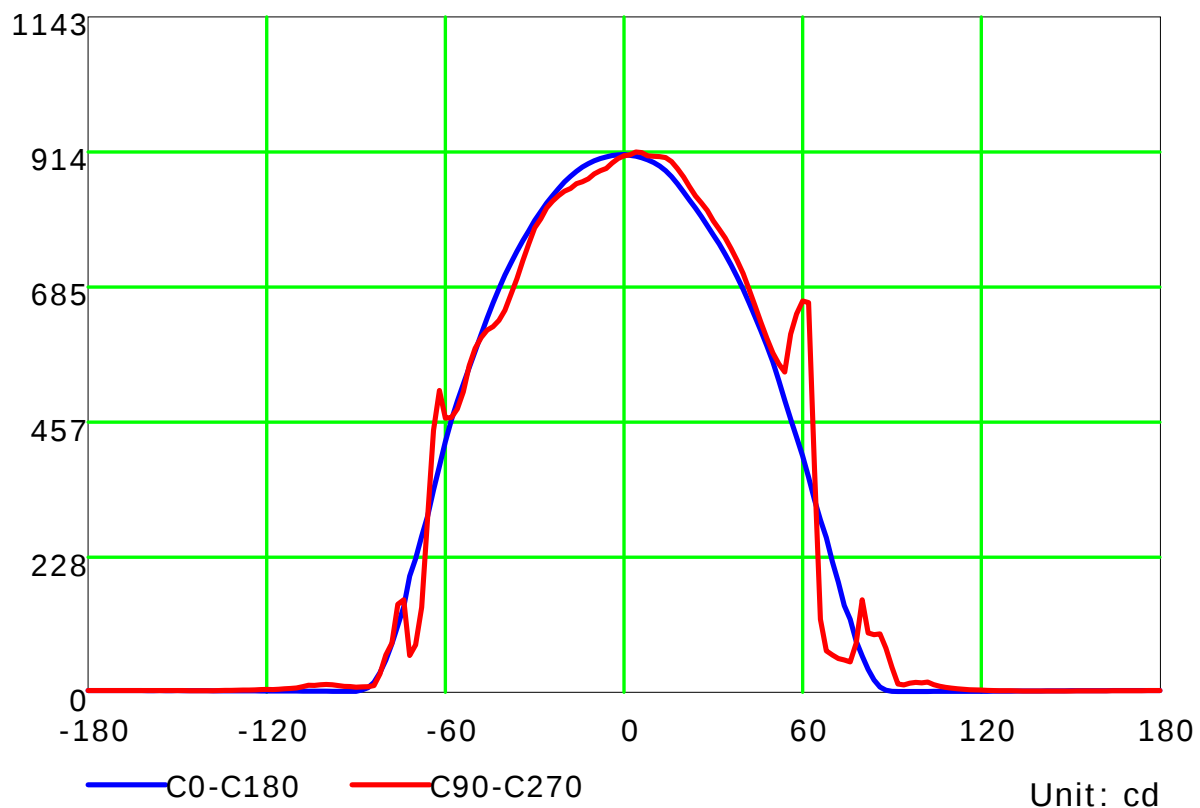
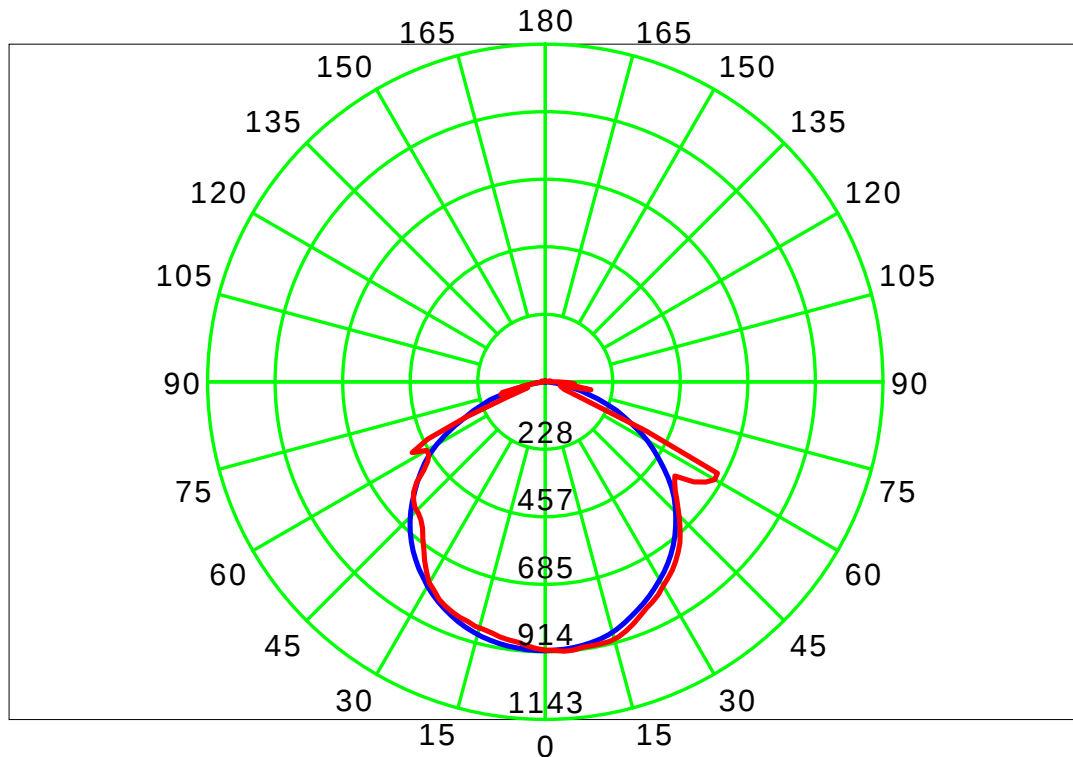
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

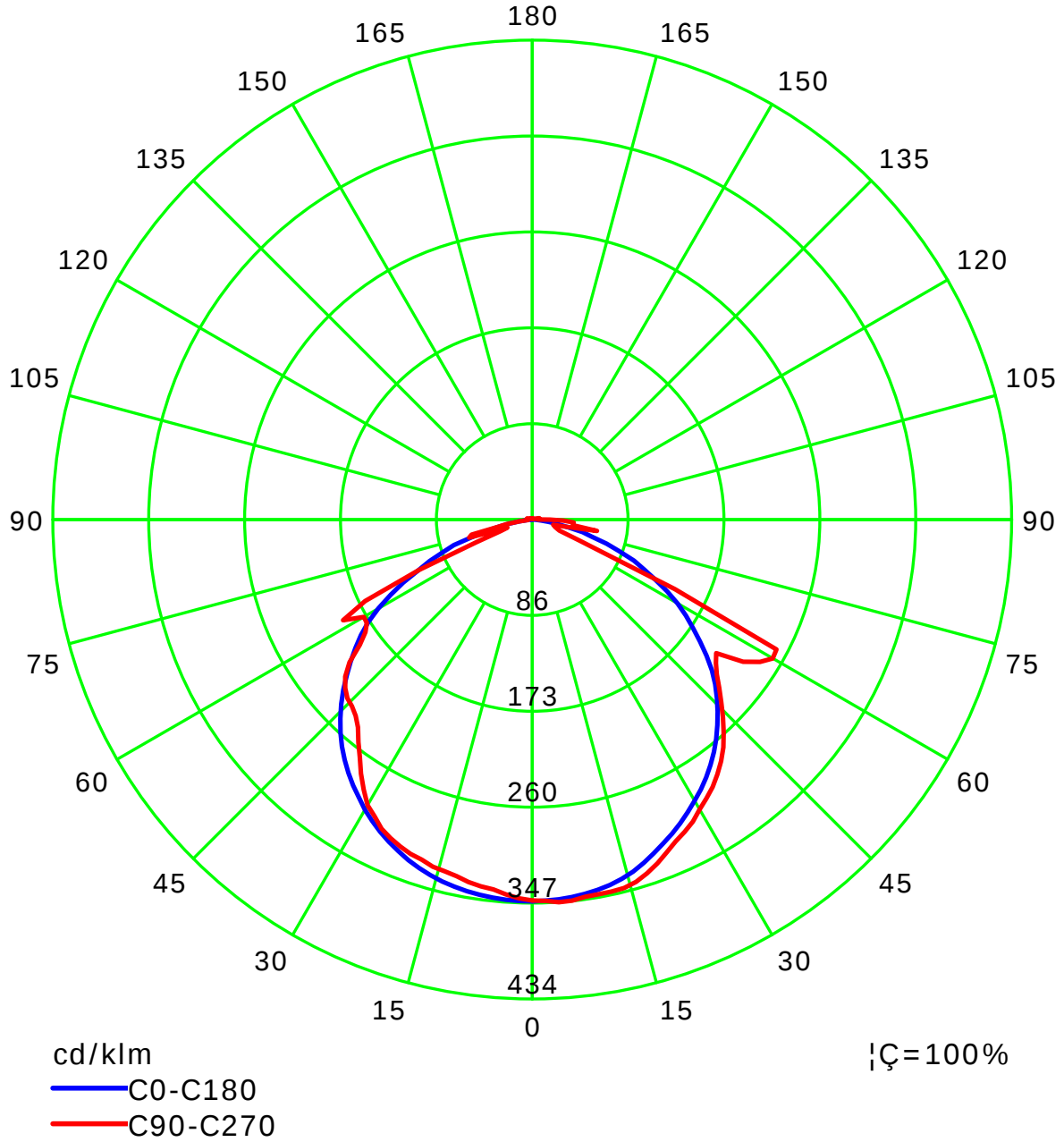
Luminous Intensity Distribution Curve



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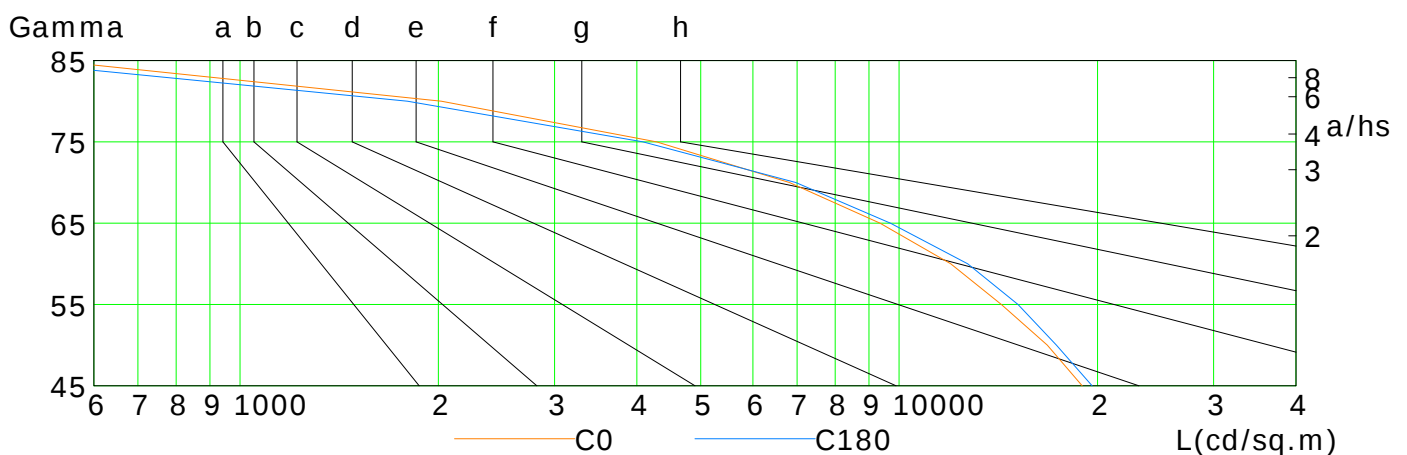
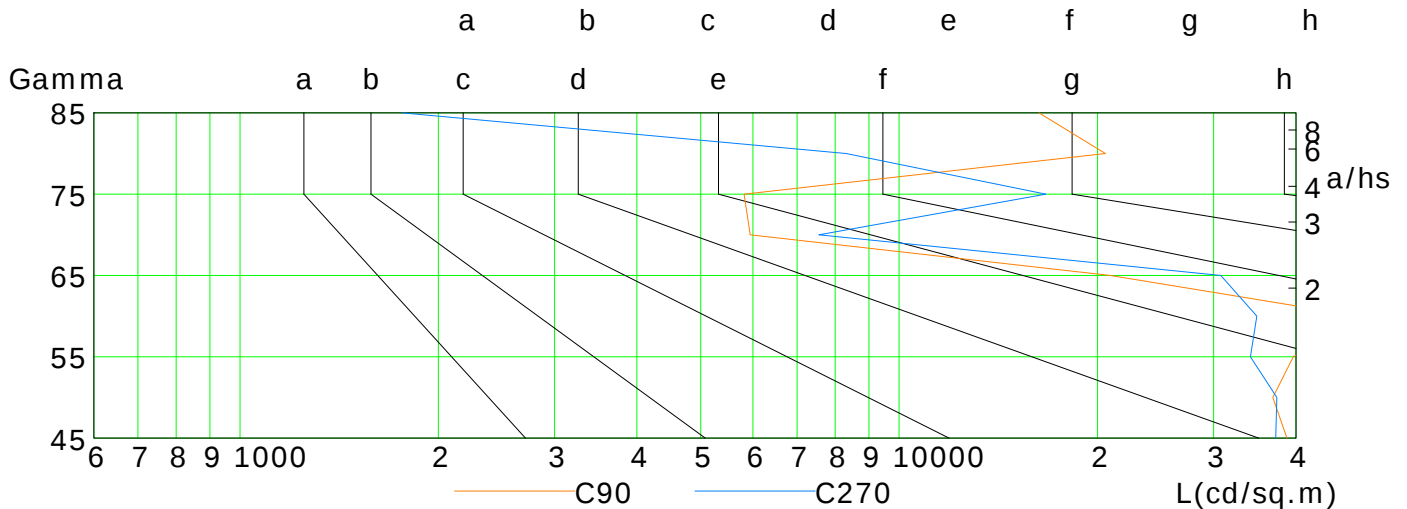
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Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

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	18949	16775	14289	11979	9354	6815	4286	2021	517
C90	38753	36894	39635	49804	20919	5943	5818	20553	16298
C180	19624	17321	15143	12706	9697	6969	4086	1795	427
C270	37270	37407	34110	34898	30759	7553	16696	8309	1763

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

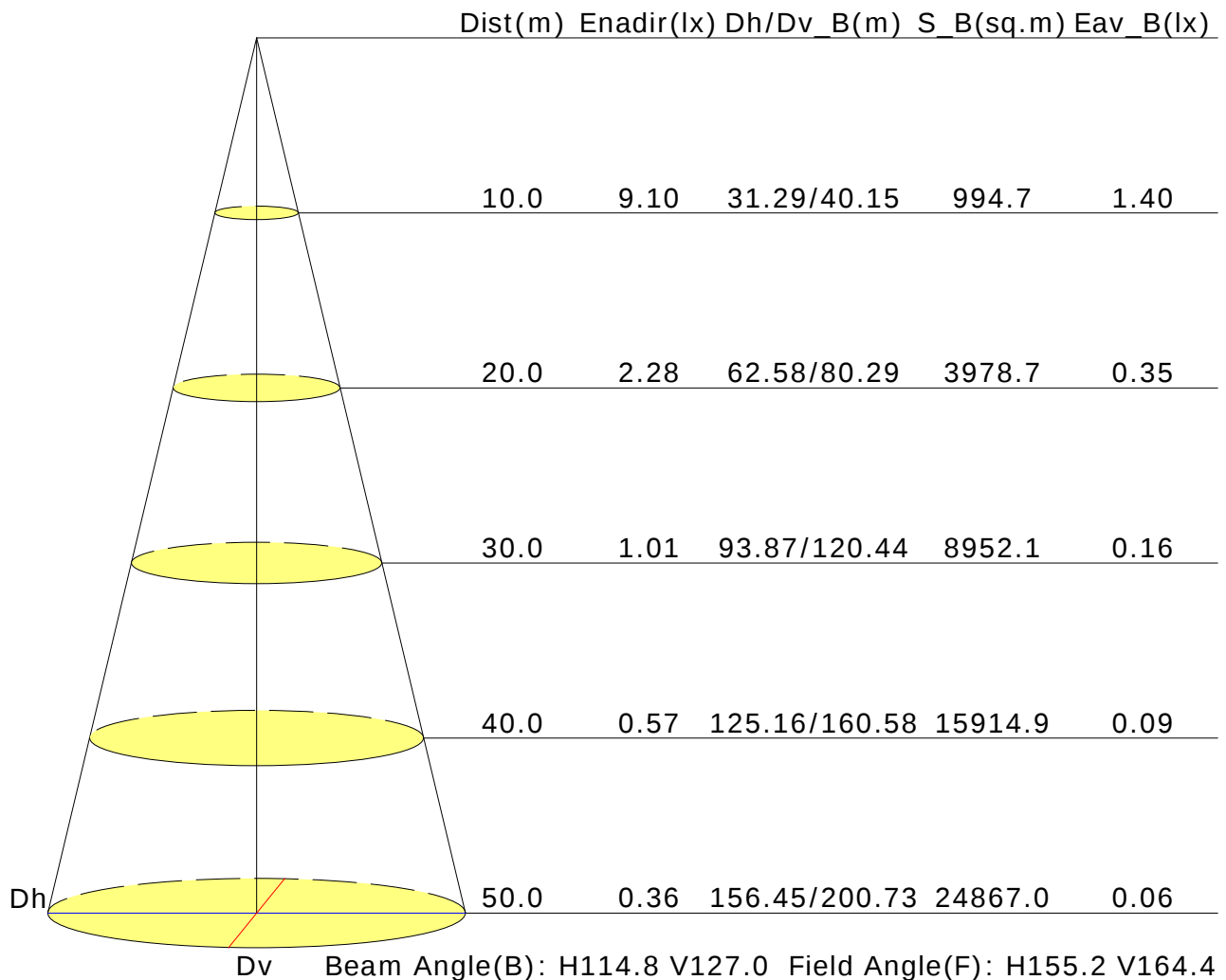
Test Device: LSG-1800B

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	21.8	23.2	22.1	23.4	23.7	24.7	26.0	25.0	26.3	26.6
3H	22.6	23.9	23.0	24.2	24.5	25.1	26.3	25.4	26.6	26.9
4H	22.9	24.0	23.2	24.3	24.7	25.1	26.3	25.5	26.6	26.9
6H	22.9	24.0	23.3	24.3	24.7	25.3	26.4	25.7	26.7	27.1
8H	22.9	23.9	23.3	24.3	24.6	25.4	26.4	25.8	26.8	27.1
12H	22.9	23.9	23.3	24.2	24.6	25.5	26.5	25.9	26.8	27.2
X=4H Y=2H	22.6	23.7	23.0	24.1	24.4	24.9	26.1	25.3	26.4	26.7
3H	23.5	24.5	23.9	24.8	25.2	25.3	26.3	25.7	26.7	27.1
4H	23.8	24.7	24.2	25.0	25.4	25.4	26.3	25.9	26.7	27.1
6H	23.9	24.6	24.3	25.1	25.5	25.7	26.5	26.2	26.9	27.3
8H	23.8	24.6	24.3	25.0	25.4	25.8	26.6	26.3	27.0	27.4
12H	23.8	24.5	24.3	24.9	25.4	26.0	26.6	26.4	27.1	27.5
X=8H Y=4H	23.8	24.5	24.2	24.9	25.3	25.4	26.1	25.9	26.5	27.0
6H	23.9	24.5	24.4	24.9	25.4	25.7	26.3	26.2	26.8	27.2
8H	23.9	24.4	24.4	24.9	25.4	25.9	26.4	26.4	26.9	27.4
12H	23.9	24.3	24.4	24.8	25.3	26.1	26.5	26.6	27.0	27.5
X=12H Y=4H	23.8	24.4	24.2	24.8	25.3	25.4	26.0	25.8	26.5	26.9
6H	23.9	24.4	24.4	24.9	25.4	25.7	26.2	26.2	26.7	27.2
8H	23.9	24.3	24.4	24.8	25.3	25.9	26.3	26.4	26.8	27.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.8/-0.9				
S=1.5H	+0.4/-1.1					+1.0/-1.2				
S=2.0H	+1.0/-1.9					+2.6/-4.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2629lm ($8\log(F/F_0) = 3.4$).

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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	0.57	0.67	0.75	0.81	0.88	0.93	0.96	1.01	1.04	
	0.30		0.49	0.60	0.68	0.74	0.82	0.88	0.92	0.97	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	0.78	0.85	0.89	0.93	0.97	0.99	
	0.30		0.48	0.58	0.66	0.72	0.80	0.85	0.88	0.93	0.96	
	0.20		0.43	0.53	0.61	0.67	0.75	0.81	0.85	0.91	0.94	
0.30	0.50	0.20	0.53	0.63	0.70	0.75	0.82	0.86	0.89	0.93	0.95	
	0.30		0.47	0.57	0.65	0.70	0.77	0.82	0.86	0.90	0.93	
	0.20		0.42	0.53	0.60	0.66	0.74	0.79	0.83	0.88	0.91	
0.00	0.00	0.00	0.40	0.50	0.57	0.63	0.70	0.75	0.79	0.83	0.86	
Rating:20W 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	0.99	0.81	0.69	0.60	0.47	0.39	0.33	0.26	0.21	
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.96	0.78	0.66	0.57	0.45	0.40	0.31	0.24	0.20	
	0.30		0.81	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.60	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.93	0.75	0.63	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.66	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.69	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.59	0.49	0.42	0.36	0.29	0.24	0.21	0.16	0.13	
Rating:20W 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	0.19	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:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												