

Report No.:

Test Time: 29.10.2020 21:18

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 595 40LED 0.3A 45W 4000K (80) opal

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.210 A

Power: 45.59 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 4444.3 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4444.3 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.3, 164.8, 165.0, 165.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.3, 113.9, 114.1, 114.2

Luminaire Efficacy Rating (LER): 97.53

Central Intensity: 1498.26 cd

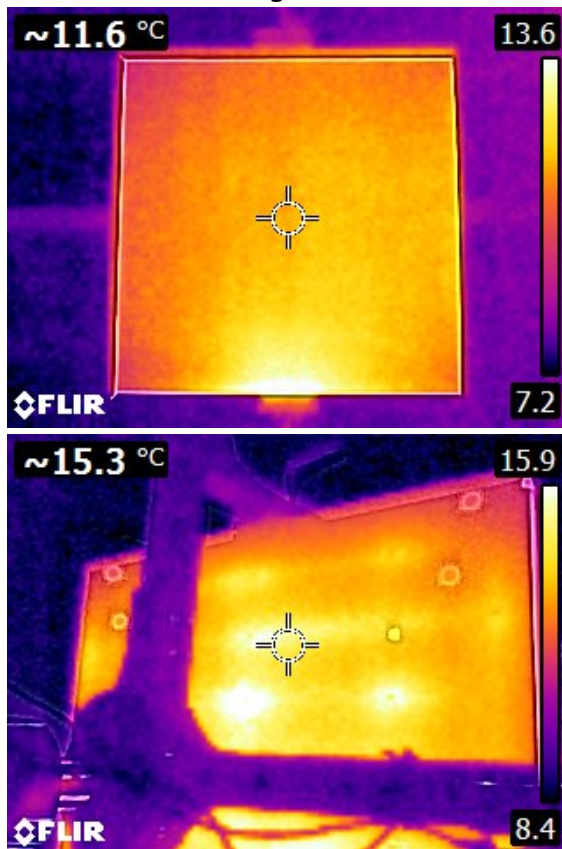
Max. Intensity: 1500.37 cd

Pos of Max. Intensity: H112.5 V0

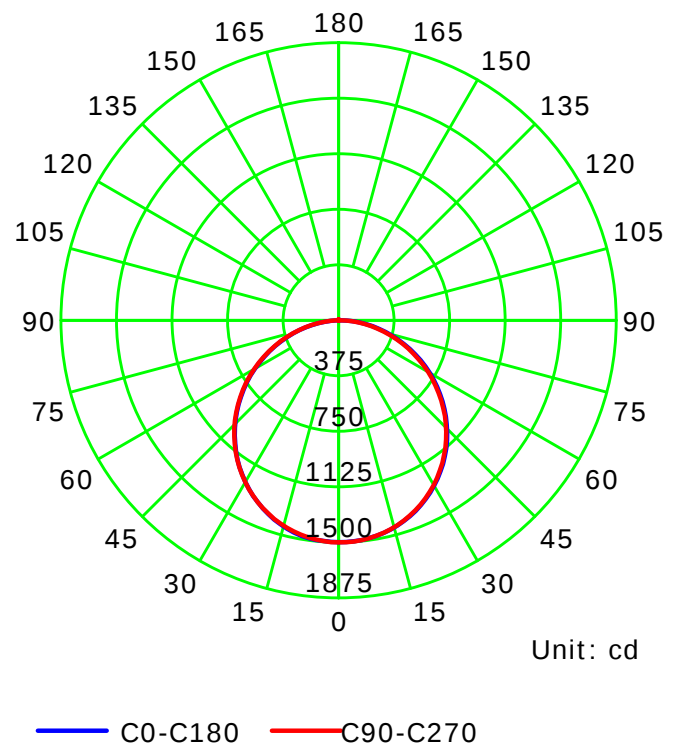
S/MH(C0/C180): 1.26

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

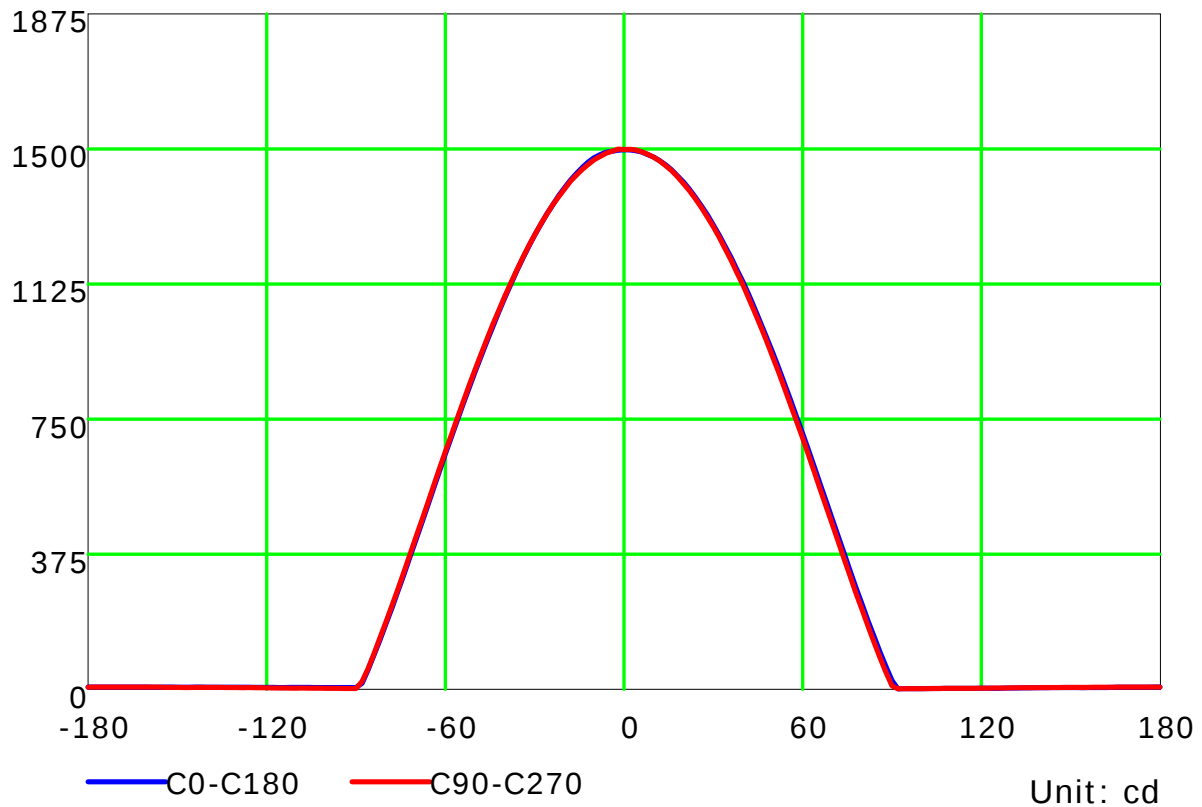
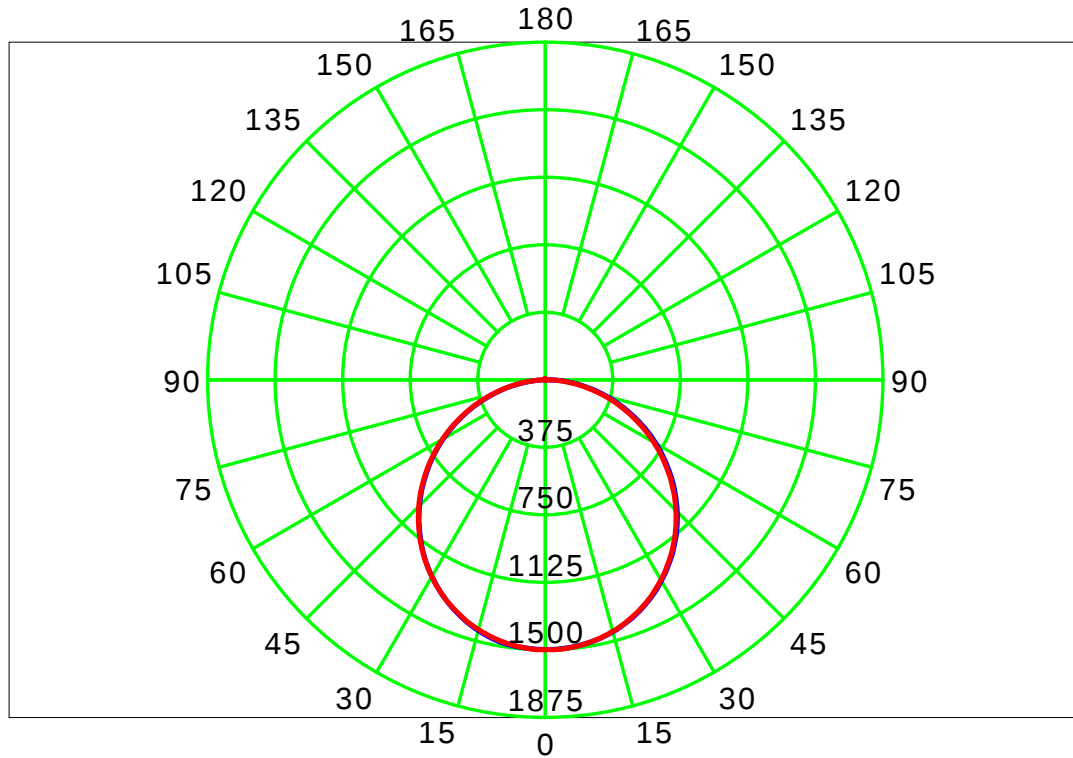
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

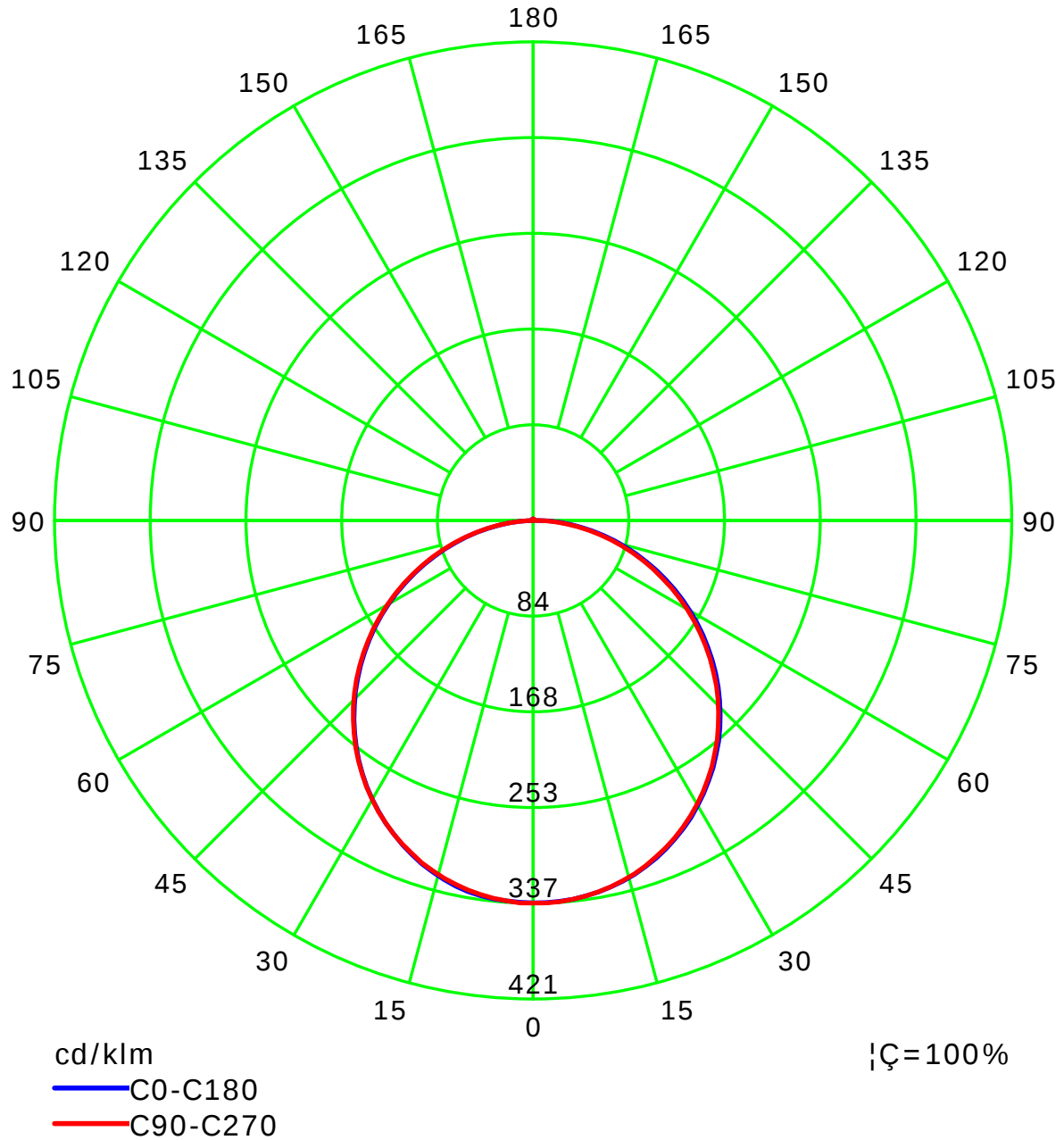
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
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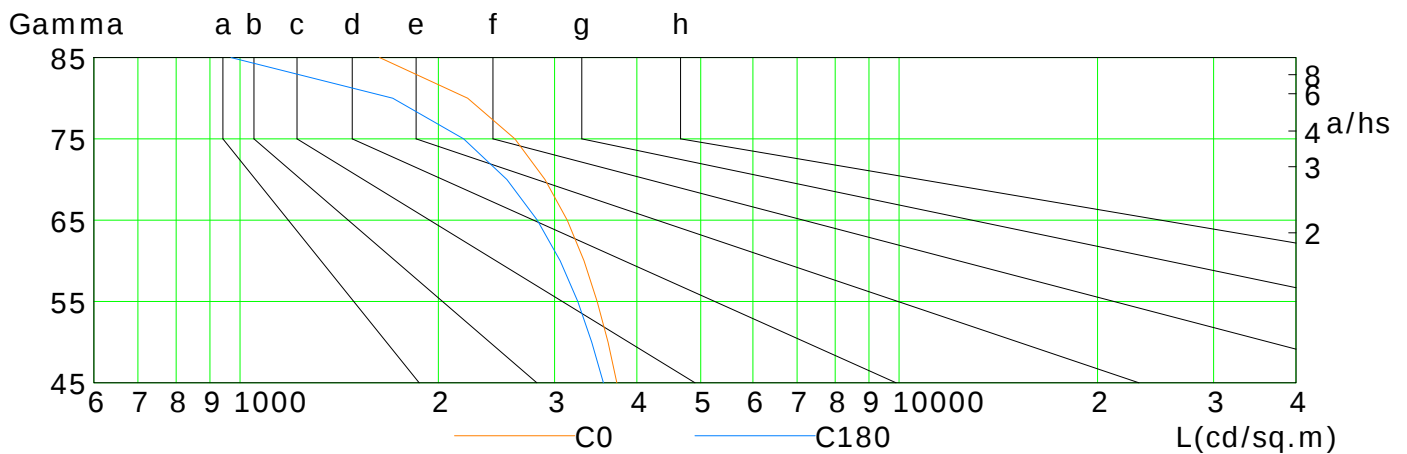
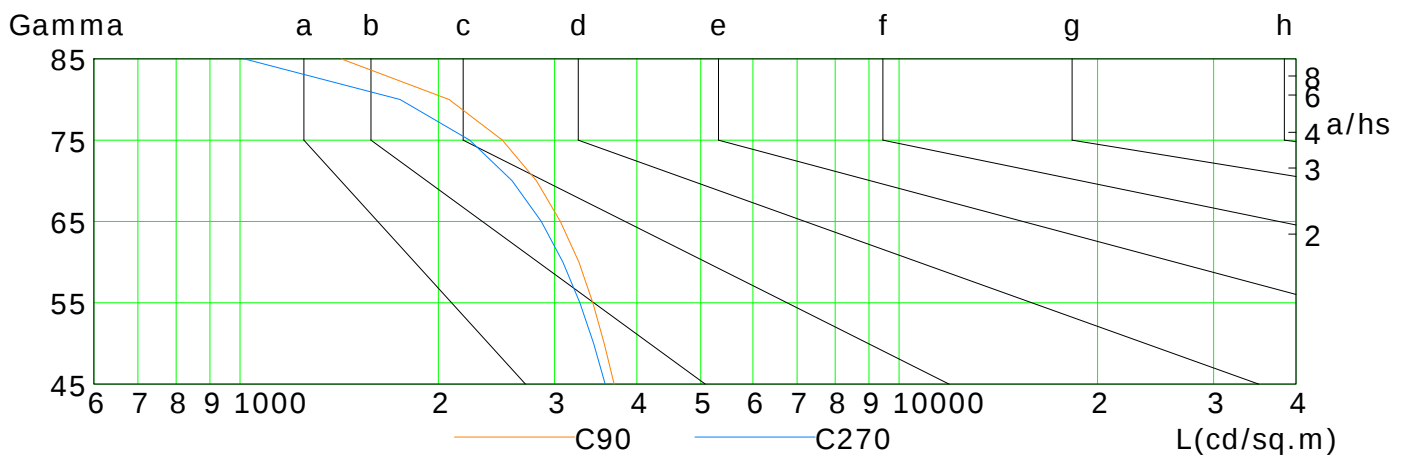
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3729	3617	3483	3325	3137	2902	2612	2214	1628
C90	3695	3570	3430	3267	3062	2817	2501	2076	1424
C180	3559	3416	3254	3061	2825	2541	2184	1704	969
C270	3581	3440	3278	3090	2864	2587	2231	1750	1015

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

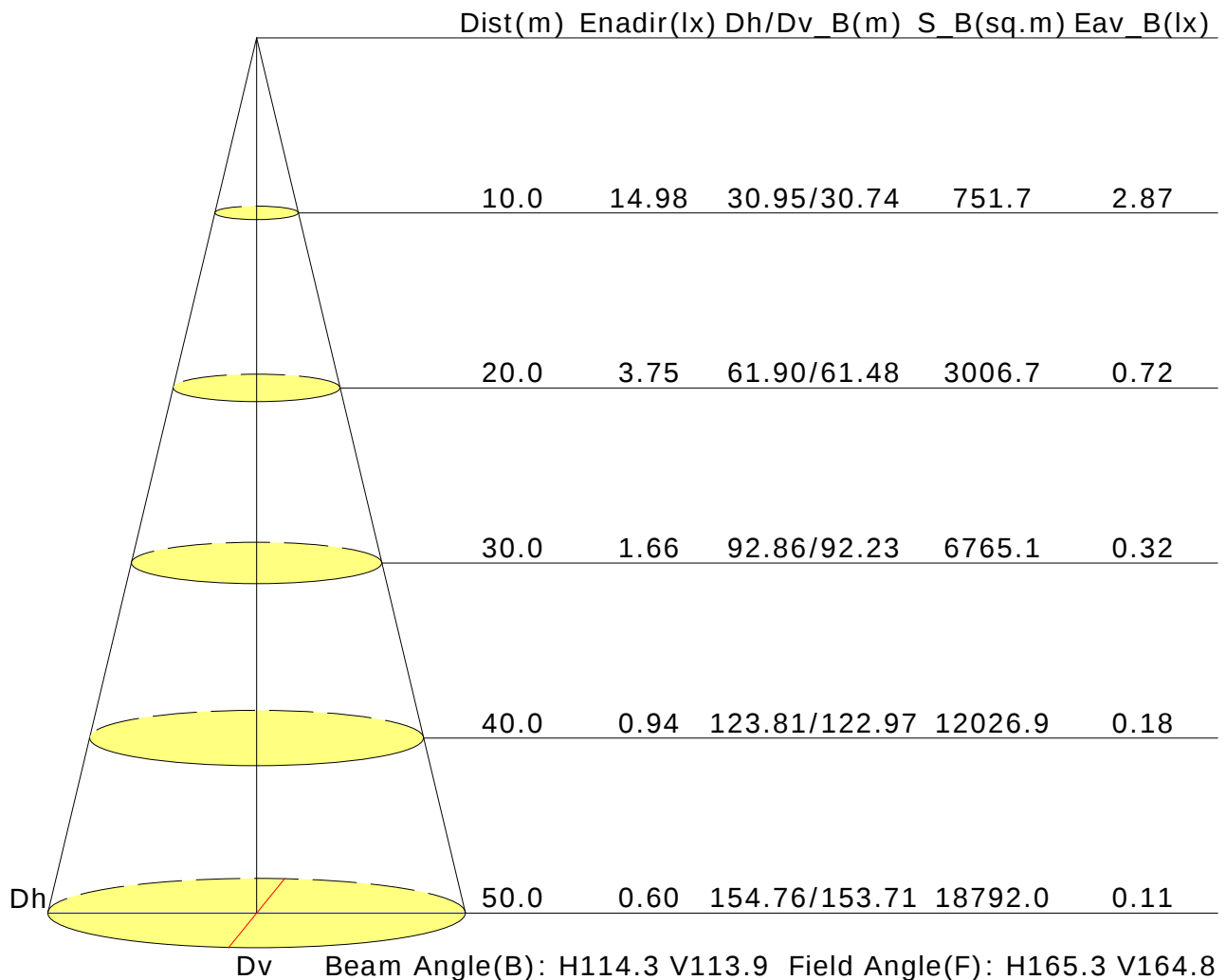
Test Device: LSG-1800B

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	16.8	18.2	17.2	18.5	18.8	16.7	18.1	17.0	18.3	18.6
3H	18.4	19.7	18.8	20.0	20.3	18.2	19.5	18.5	19.7	20.0
4H	19.1	20.3	19.4	20.6	20.9	18.8	20.0	19.1	20.3	20.6
6H	19.6	20.7	19.9	21.0	21.3	19.2	20.3	19.6	20.7	21.0
8H	19.7	20.8	20.1	21.1	21.5	19.3	20.4	19.7	20.8	21.1
12H	19.8	20.9	20.2	21.2	21.6	19.4	20.4	19.8	20.8	21.1
X=4H Y=2H	17.5	18.7	17.8	19.0	19.3	17.3	18.5	17.7	18.8	19.2
3H	19.2	20.3	19.6	20.6	21.0	19.0	20.1	19.4	20.4	20.8
4H	20.0	20.9	20.4	21.3	21.7	19.7	20.7	20.1	21.0	21.4
6H	20.6	21.4	21.0	21.8	22.2	20.3	21.1	20.7	21.5	21.9
8H	20.8	21.6	21.3	22.0	22.4	20.4	21.2	20.9	21.6	22.1
12H	21.0	21.7	21.4	22.1	22.6	20.6	21.2	21.0	21.7	22.1
X=8H Y=4H	20.2	21.0	20.7	21.4	21.9	20.0	20.8	20.5	21.2	21.6
6H	21.0	21.6	21.5	22.1	22.5	20.7	21.3	21.2	21.8	22.2
8H	21.3	21.8	21.8	22.3	22.8	20.9	21.5	21.4	22.0	22.5
12H	21.5	22.0	22.0	22.5	23.0	21.1	21.6	21.6	22.1	22.6
X=12H Y=4H	20.3	21.0	20.7	21.4	21.8	20.0	20.7	20.5	21.2	21.6
6H	21.0	21.6	21.5	22.1	22.6	20.8	21.3	21.3	21.8	22.3
8H	21.4	21.9	21.9	22.3	22.9	21.0	21.5	21.5	22.0	22.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.4/-0.5				
S=2.0H	+0.5/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4444lm ($8\log(F/F_0) = 5.2$).

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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	0.55	0.66	0.73	0.79	0.86	0.91	0.95	0.99	1.03	
	0.30		0.47	0.58	0.66	0.71	0.80	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
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	0.69	0.77	0.83	0.86	0.92	0.95	
	0.20		0.41	0.51	0.59	0.64	0.73	0.78	0.83	0.89	0.92	
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	0.63	0.71	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.68	0.73	0.76	0.81	0.84	
Rating:46W 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	1.02	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.56	0.46	0.38	0.33	0.26	0.22	
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	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	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.69	0.59	0.52	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	
0.00	0.00	0.00	0.61	0.51	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:46W 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	0.22	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	0.08	0.09	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	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	0.20	0.20	0.20	0.21	
	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:46W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												