

Report No.:

Test Time: 27.10.2020 10:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 81 90LED 0,35A 20W 6000K prozrachn (ИПС TRION Solaris AC25) (2P)

Luminous Length (mm): 1215

Luminous Width (mm): 80

Luminous Height (mm): 46

Voltage: 221.3 V

Current: 0.096 A

Power: 20.01 W

Power Factor: 0.932

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3209.7 lm

Measurement Flux: 3209.7 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 161.8, 157.7, 157.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 113.9, 115.7, 115.8

Luminaire Efficacy Rating (LER): 160.45

Central Intensity: 1090.83 cd

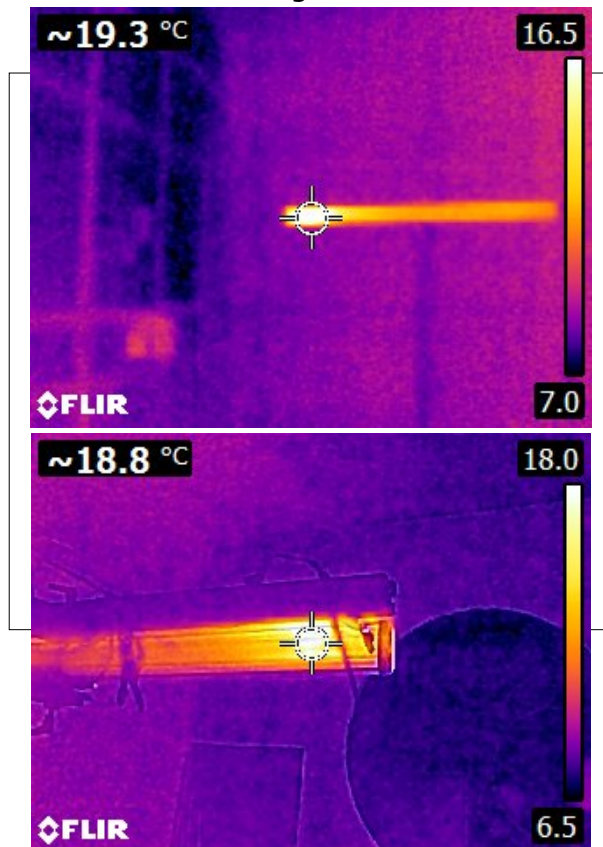
Max. Intensity: 1091.28 cd

Pos of Max. Intensity: H67.5 V4

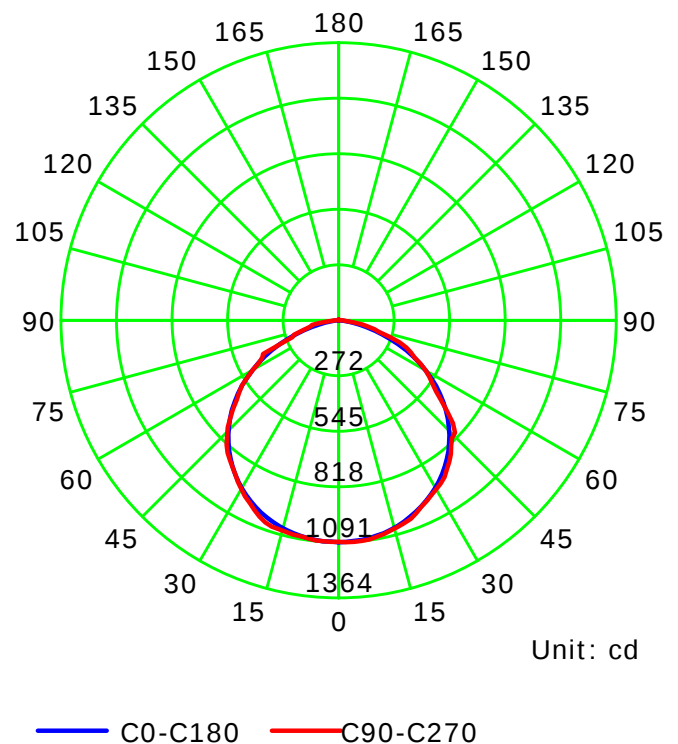
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.31

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

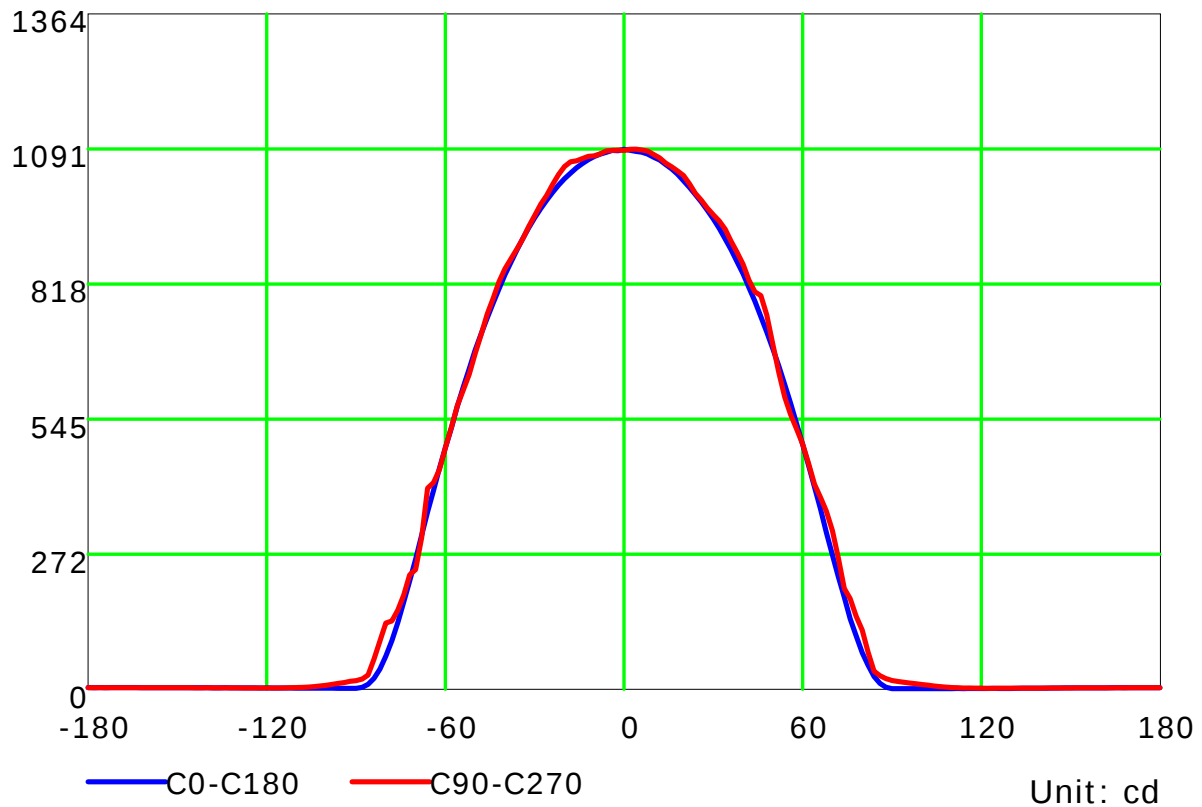
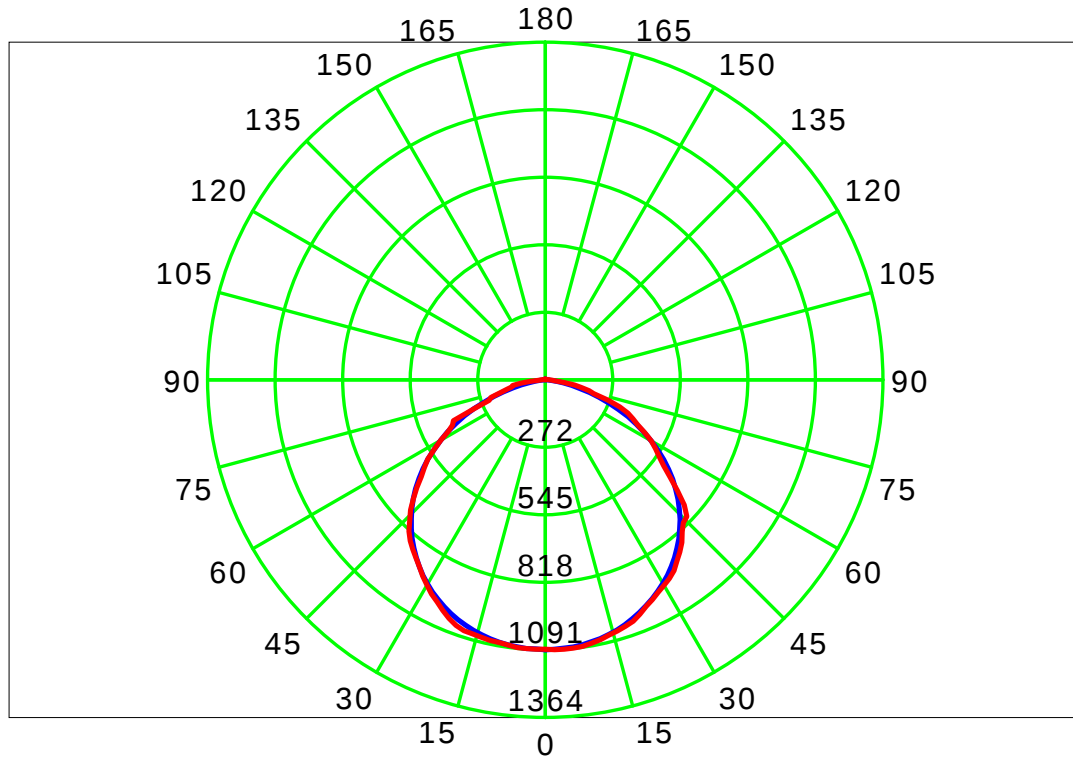
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

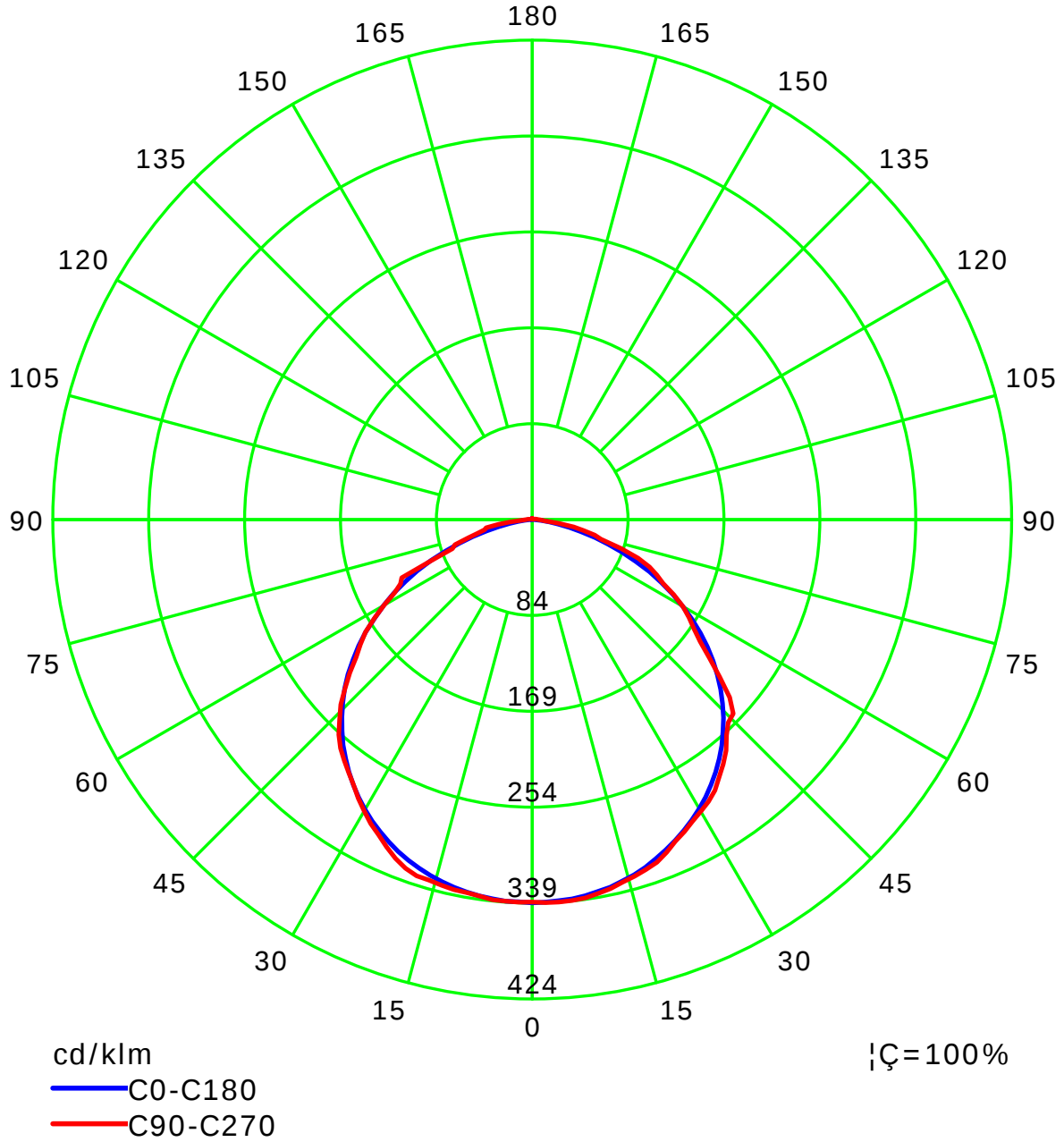
Luminous Intensity Distribution Curve



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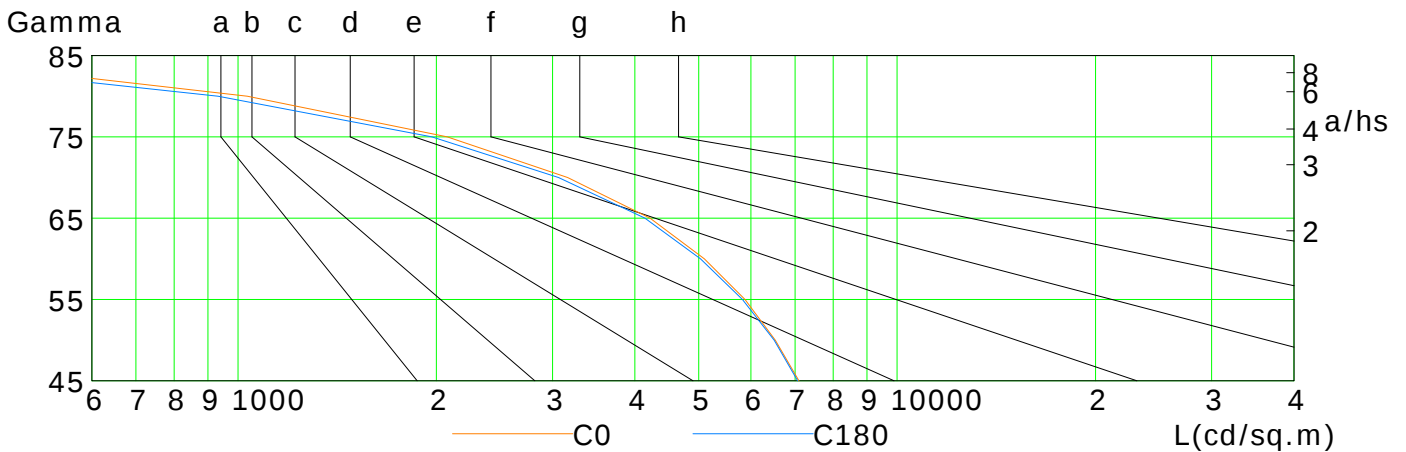
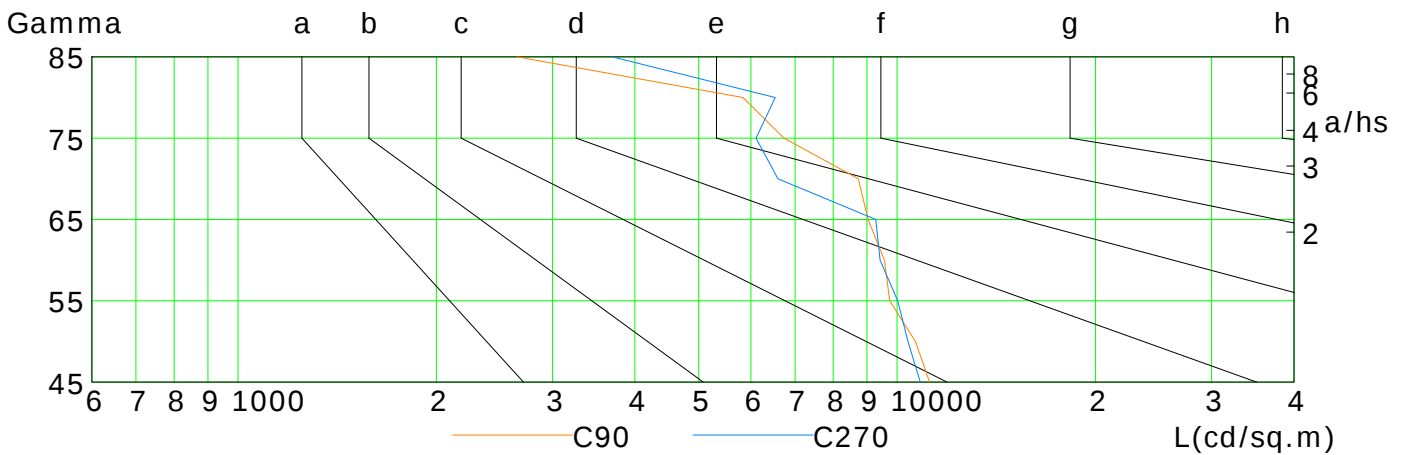
Luminous Intensity Distribution Curve(cd / klm)



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	7097	6531	5876	5100	4218	3164	2077	1033	298
C90	11202	10664	9746	9566	9035	8734	6737	5835	2650
C180	7065	6505	5825	5031	4144	3064	1968	933	251
C270	10840	10382	10022	9422	9279	6594	6108	6532	3697

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Test Type: TYPE C

Temperature:

Operator:

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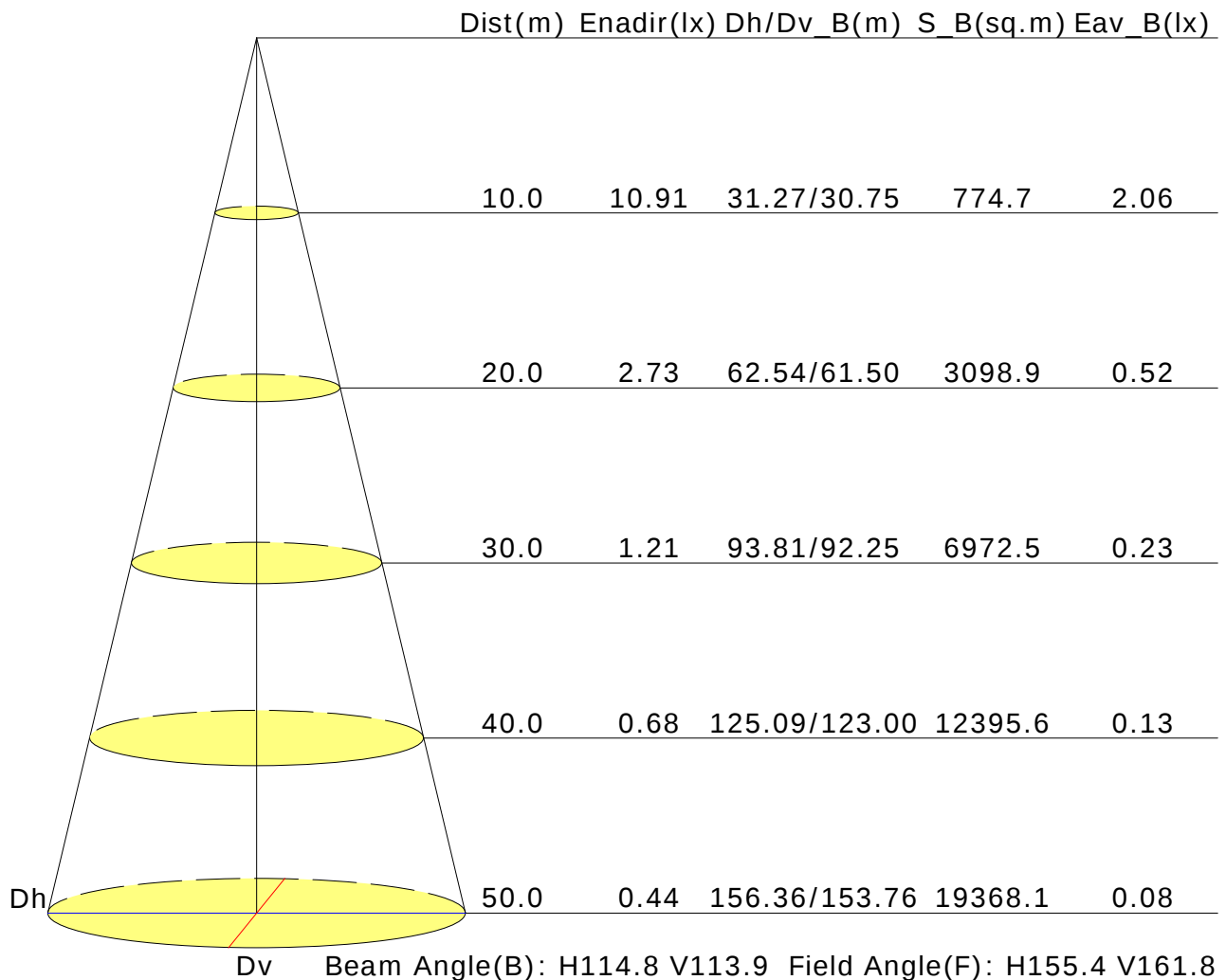
Test Device: LSG-1800B

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	18.9	20.3	19.3	20.6	20.8	19.9	21.2	20.2	21.5	21.8
3H	19.9	21.2	20.3	21.5	21.8	21.3	22.5	21.6	22.8	23.1
4H	20.2	21.4	20.5	21.7	22.0	21.7	22.9	22.1	23.2	23.5
6H	20.2	21.3	20.6	21.7	22.0	22.1	23.2	22.4	23.5	23.8
8H	20.2	21.3	20.6	21.6	22.0	22.2	23.2	22.5	23.5	23.9
12H	20.2	21.2	20.6	21.6	21.9	22.2	23.2	22.6	23.5	23.9
X=4H Y=2H	19.5	20.7	19.9	21.0	21.3	20.3	21.4	20.6	21.7	22.0
3H	20.7	21.7	21.0	22.0	22.4	21.8	22.8	22.2	23.1	23.5
4H	21.0	21.9	21.4	22.2	22.6	22.3	23.2	22.7	23.6	24.0
6H	21.1	21.9	21.5	22.3	22.7	22.7	23.5	23.2	23.9	24.3
8H	21.1	21.8	21.5	22.2	22.7	22.9	23.6	23.3	24.0	24.5
12H	21.1	21.7	21.5	22.2	22.6	22.9	23.6	23.4	24.0	24.5
X=8H Y=4H	21.1	21.8	21.6	22.3	22.7	22.4	23.1	22.8	23.5	23.9
6H	21.3	21.9	21.8	22.3	22.8	22.9	23.5	23.4	23.9	24.4
8H	21.3	21.9	21.8	22.3	22.8	23.1	23.6	23.6	24.1	24.6
12H	21.3	21.8	21.8	22.3	22.8	23.2	23.6	23.7	24.1	24.6
X=12H Y=4H	21.1	21.8	21.6	22.2	22.7	22.3	23.0	22.8	23.4	23.9
6H	21.3	21.8	21.8	22.3	22.8	22.9	23.4	23.4	23.9	24.4
8H	21.4	21.8	21.9	22.3	22.8	23.1	23.5	23.6	24.0	24.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.1				
S=1.5H	+0.5/-0.8					+0.3/-0.6				
S=2.0H	+0.8/-1.5					+0.9/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3210lm ($8\log(F/F_0) = 4.1$).

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Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.60	0.69	0.76	0.82	0.89	0.93	0.97	1.01	1.04	
	0.30		0.53	0.61	0.69	0.75	0.83	0.88	0.92	0.97	1.01	
	0.20		0.47	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.59	0.67	0.74	0.79	0.85	0.90	0.93	0.97	1.00	
	0.30		0.52	0.60	0.68	0.73	0.81	0.85	0.89	0.94	0.97	
	0.20		0.47	0.55	0.63	0.69	0.76	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.57	0.65	0.72	0.76	0.82	0.87	0.89	0.93	0.96	
	0.30		0.51	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.93	
	0.20		0.47	0.54	0.62	0.67	0.75	0.80	0.83	0.88	0.91	
0.00	0.00	0.00	0.45	0.52	0.59	0.64	0.71	0.76	0.79	0.84	0.87	
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 = 1.50									
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	0.94	0.79	0.66	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.78	0.68	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.67	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.90	0.76	0.63	0.55	0.43	0.39	0.31	0.24	0.19	
	0.30		0.76	0.66	0.56	0.49	0.40	0.33	0.29	0.22	0.18	
	0.20		0.66	0.58	0.50	0.45	0.37	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.87	0.73	0.61	0.53	0.41	0.34	0.29	0.22	0.18	
	0.30		0.74	0.64	0.54	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.65	0.57	0.49	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.55	0.47	0.40	0.35	0.28	0.23	0.20	0.15	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 = 1.50									
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	0.12	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	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	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		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.17	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	0.10	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:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												