

Report No.:

Test Time: 19.06.2020 16:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 72W 4000K microprisma iFA40'320(110) (x2) s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.2 V

Current: 0.347 A

Power: 75.01 W

Power Factor: 0.972

Photometric Results

CIE Class: Direct

Measurement Flux: 8381.9 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 8381.9 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.1, 154.7, 146.1, 148.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.8, 73.7, 73.8, 73.8

Luminaire Efficacy Rating (LER): 111.79

Central Intensity: 4514.03 cd

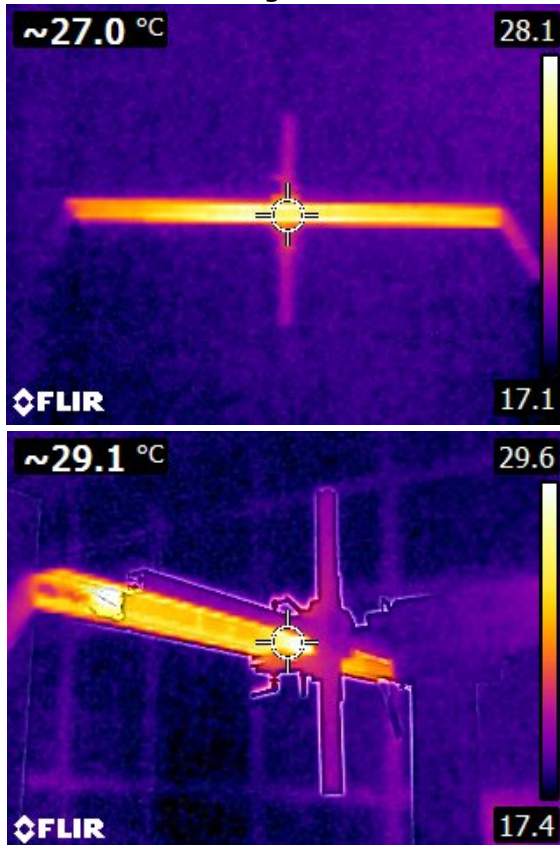
Max. Intensity: 4529.9 cd

Pos of Max. Intensity: H112.5 V0

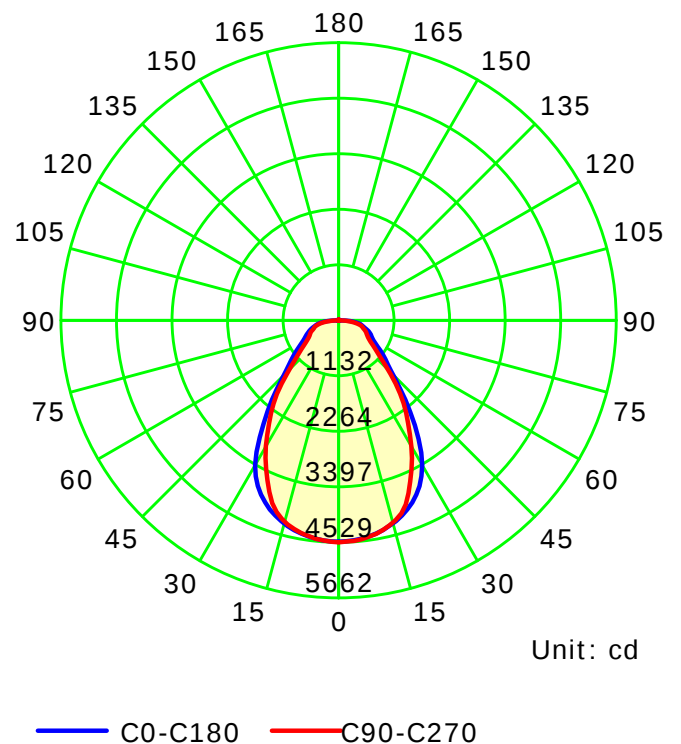
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.04

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

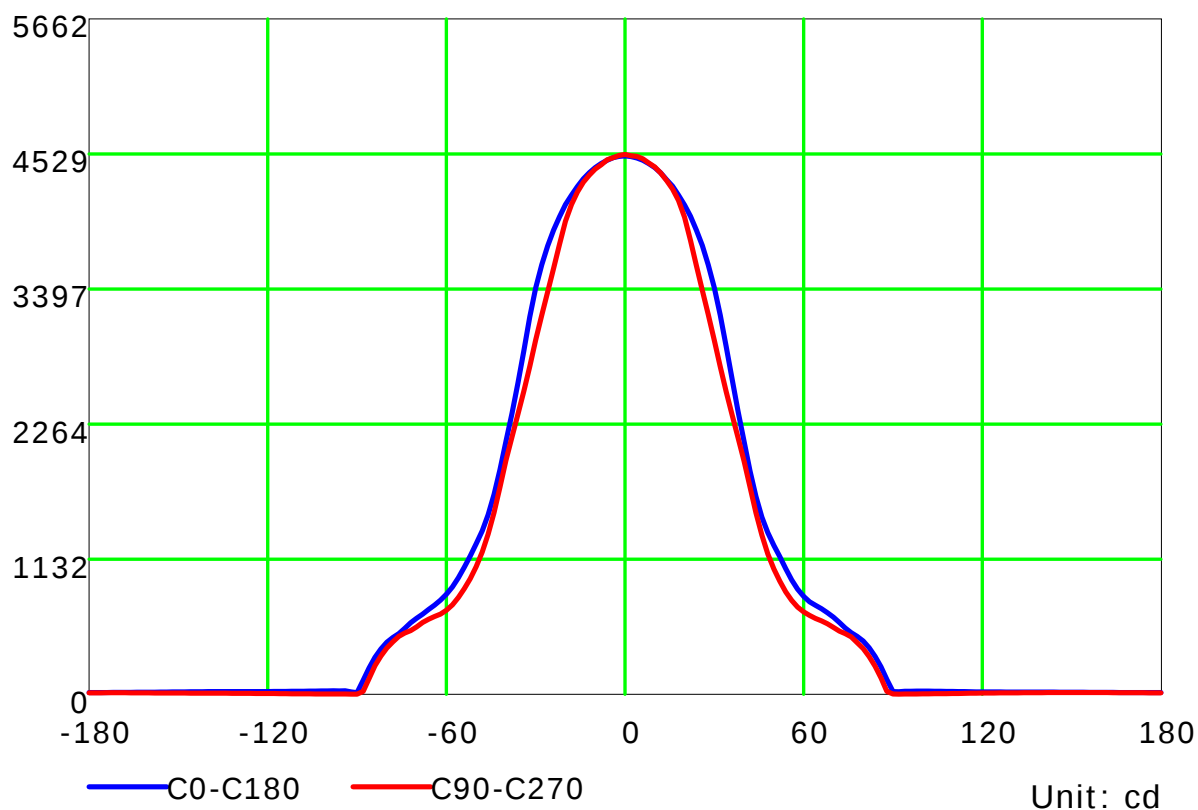
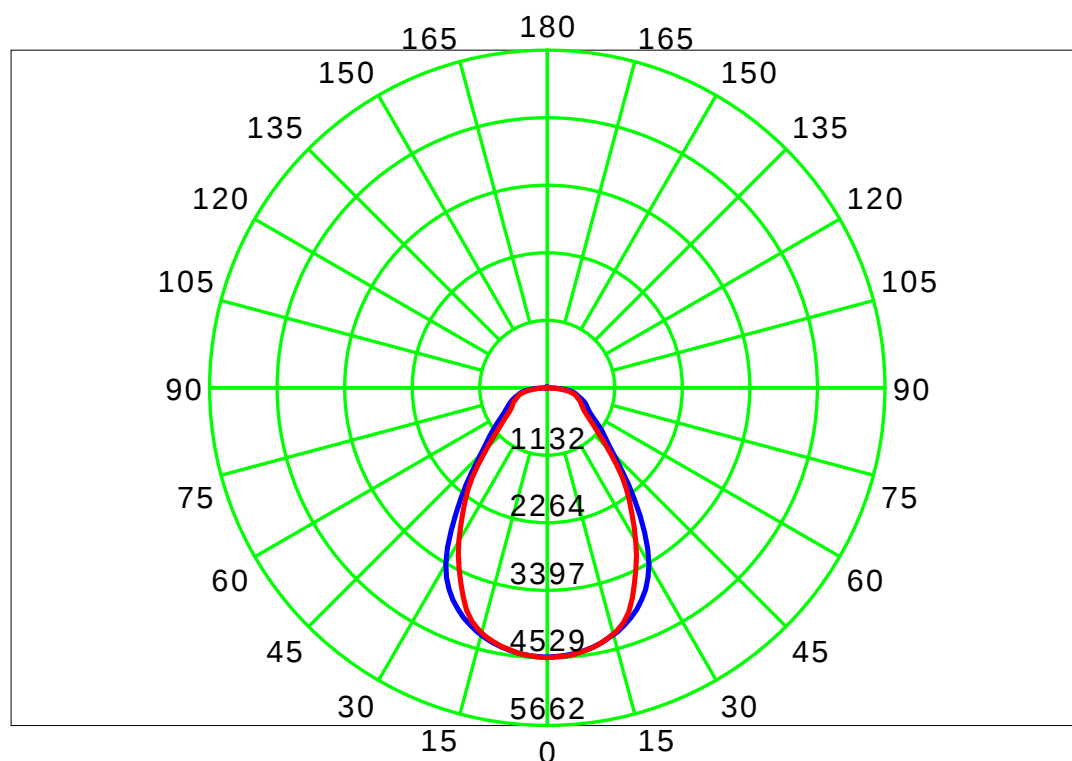
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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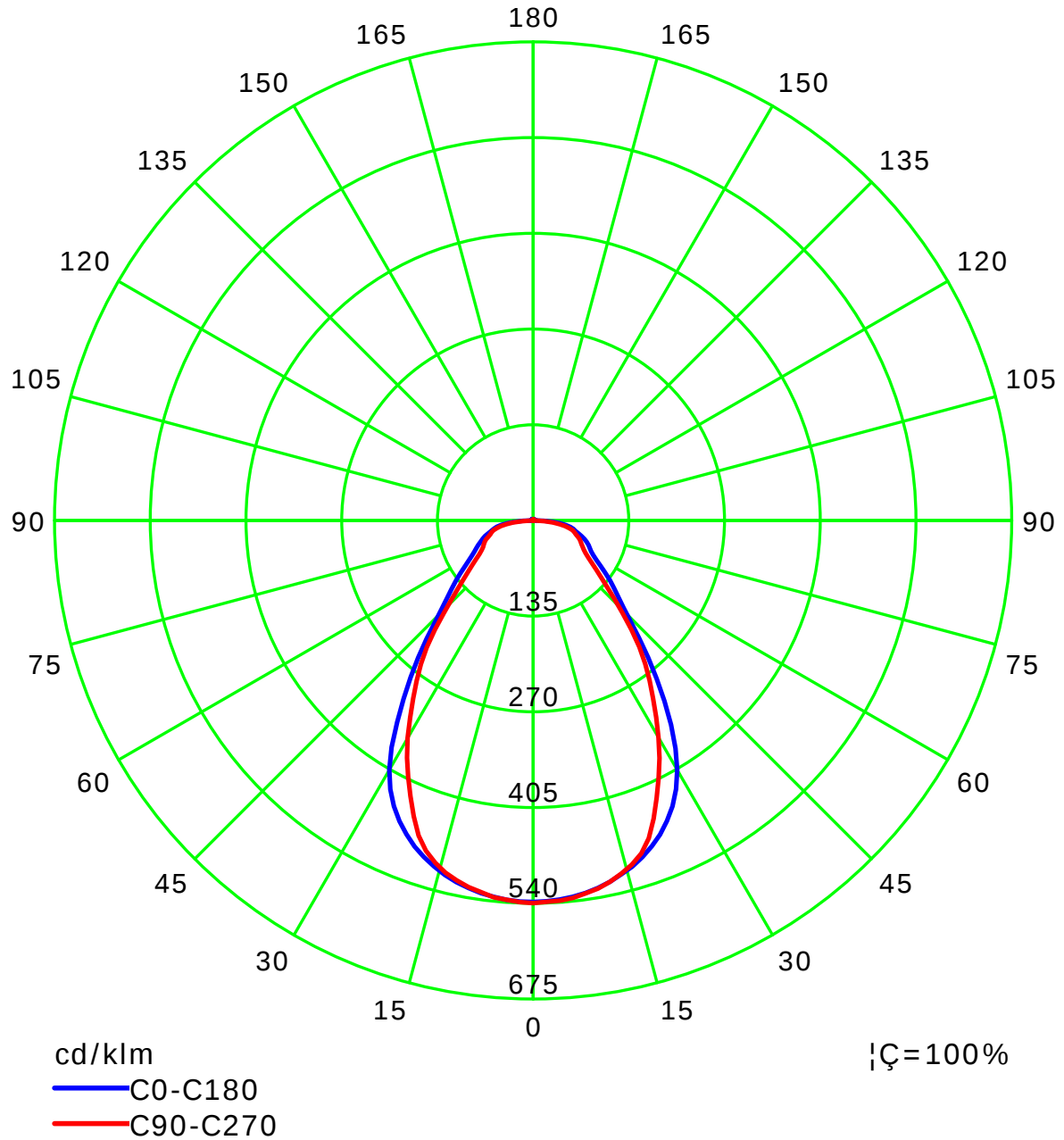
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1800B

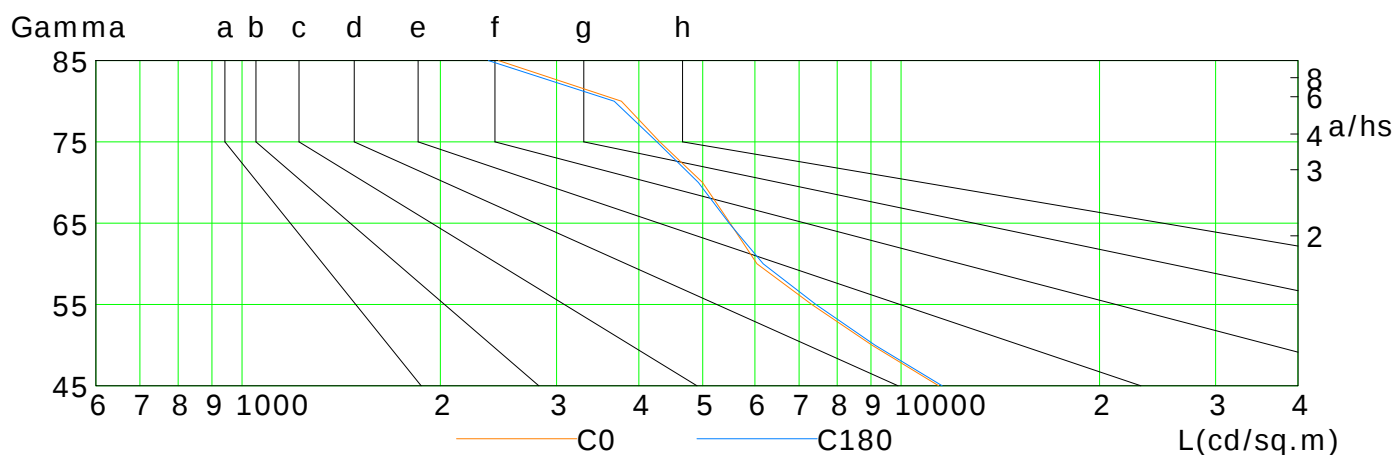
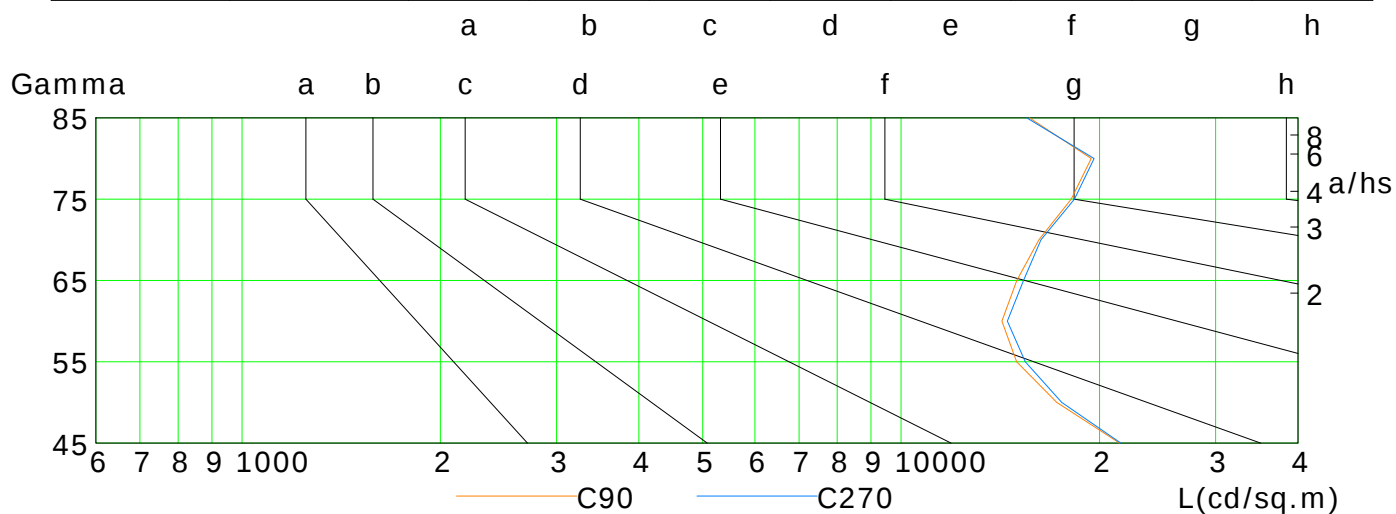
Distance: 12.677 m

Humidity:

Inspector:

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	11401	9031	7317	6042	5501	4996	4305	3763	2450
C90	21453	17224	14969	14219	14975	16176	18115	19422	15652
C180	11539	9126	7424	6176	5484	4926	4260	3669	2364
C270	21540	17526	15429	14492	15332	16300	18315	19627	15508

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

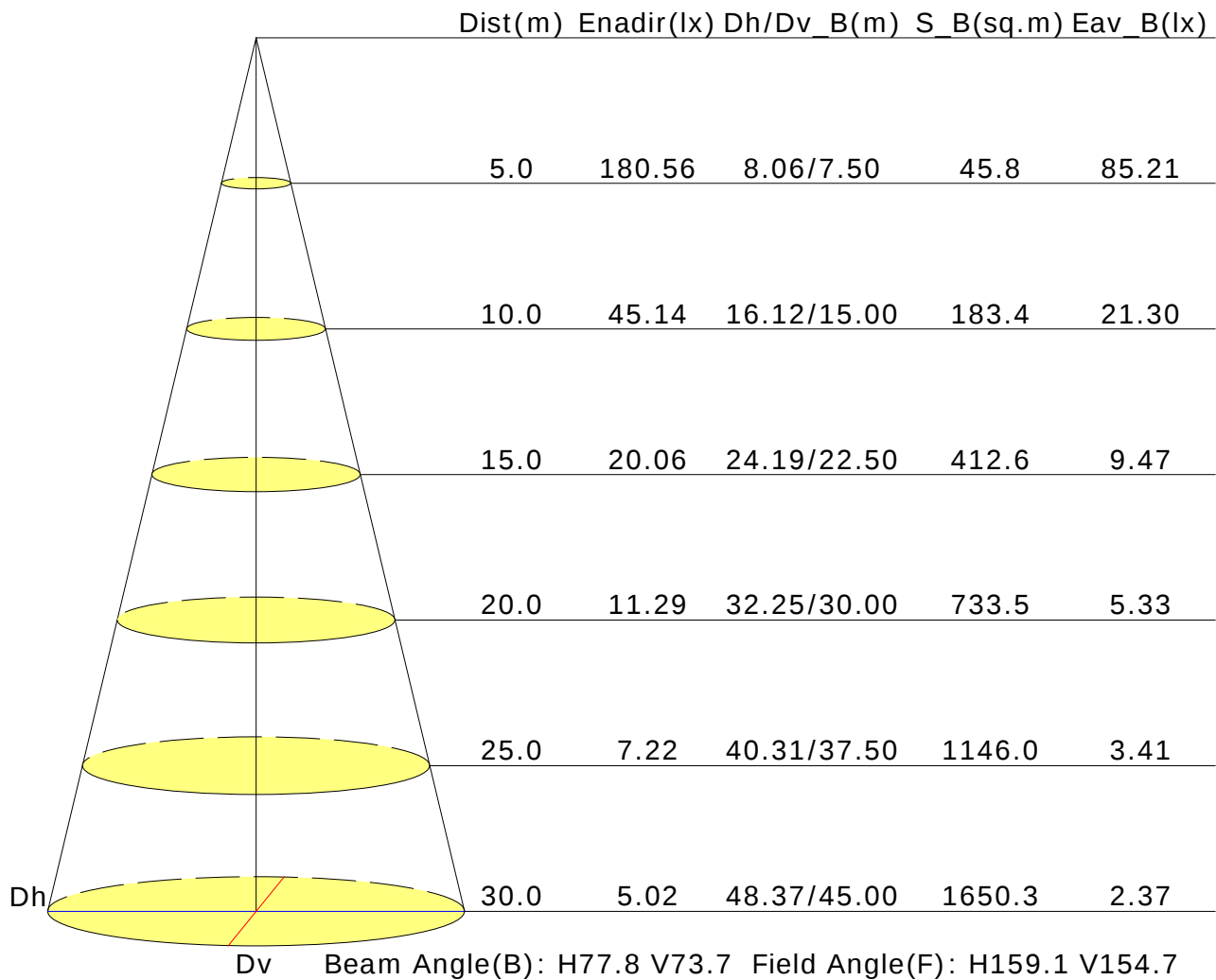
Test Device: LSG-1800B

Distance: 12.677 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	19.0	20.2	19.3	20.5	20.7	19.9	21.1	20.2	21.4	21.6
3H	20.1	21.2	20.4	21.5	21.8	21.4	22.6	21.8	22.8	23.1
4H	20.6	21.7	21.0	22.0	22.3	22.4	23.4	22.7	23.7	24.0
6H	21.1	22.1	21.5	22.4	22.8	23.3	24.3	23.7	24.6	24.9
8H	21.3	22.3	21.7	22.6	22.9	23.7	24.6	24.1	25.0	25.3
12H	21.4	22.4	21.8	22.7	23.1	23.9	24.9	24.3	25.2	25.6
X=4H Y=2H	19.4	20.4	19.7	20.7	21.0	20.1	21.2	20.5	21.5	21.8
3H	20.7	21.6	21.1	21.9	22.3	21.9	22.8	22.3	23.1	23.5
4H	21.4	22.2	21.8	22.6	23.0	22.9	23.7	23.3	24.1	24.5
6H	22.0	22.7	22.5	23.1	23.6	24.0	24.7	24.4	25.1	25.5
8H	22.3	22.9	22.7	23.4	23.8	24.4	25.1	24.9	25.5	26.0
12H	22.5	23.1	22.9	23.5	24.0	24.7	25.3	25.2	25.8	26.2
X=8H Y=4H	21.6	22.3	22.1	22.7	23.2	23.0	23.7	23.5	24.1	24.6
6H	22.4	22.9	22.9	23.4	23.9	24.2	24.7	24.7	25.2	25.7
8H	22.7	23.2	23.2	23.7	24.2	24.7	25.2	25.2	25.7	26.2
12H	23.0	23.4	23.5	23.9	24.4	25.1	25.5	25.6	26.0	26.5
X=12H Y=4H	21.7	22.3	22.1	22.7	23.2	23.0	23.6	23.5	24.1	24.5
6H	22.5	22.9	23.0	23.4	23.9	24.2	24.7	24.7	25.2	25.7
8H	22.8	23.3	23.3	23.7	24.3	24.7	25.2	25.3	25.7	26.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.7/-0.9					+0.8/-0.8				
S=2.0H	+1.4/-1.2					+1.3/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 8382lm ($8\log(F/F_0) = 7.4$).

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Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00									
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	0.64	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.30		0.57	0.66	0.73	0.77	0.85	0.89	0.93	0.98	1.01	
	0.20		0.52	0.61	0.67	0.72	0.80	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.30		0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.87	0.92	0.95	
0.30	0.50	0.20	0.61	0.69	0.74	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.55	0.64	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.51	0.59	0.65	0.70	0.77	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.49	0.57	0.63	0.67	0.73	0.77	0.80	0.84	0.87	
Rating:75W 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 = 1.00									
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	0.89	0.73	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.74	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.85	0.70	0.60	0.52	0.42	0.38	0.30	0.23	0.19	
	0.30		0.72	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.63	0.54	0.47	0.43	0.35	0.30	0.26	0.21	0.18	
0.30	0.50	0.20	0.83	0.67	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.30		0.70	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.62	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.51	0.42	0.37	0.32	0.26	0.22	0.19	0.15	0.13	
Rating:75W 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 = 1.00									
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	0.16	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		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.20	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	0.08	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:75W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												