

Report No.:

Test Time: 18.06.2020 17:28

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 32W 4000K prozrachniy iFA40'300(110) s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.2 V

Current: 0.156 A

Power: 33.34 W

Power Factor: 0.961

Photometric Results

CIE Class: Direct

Measurement Flux: 4844 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4844.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.2, 118.4, 134.1, 134.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.4, 108.4, 111.3, 111.1

Luminaire Efficacy Rating (LER): 145.34

Central Intensity: 1878.05 cd

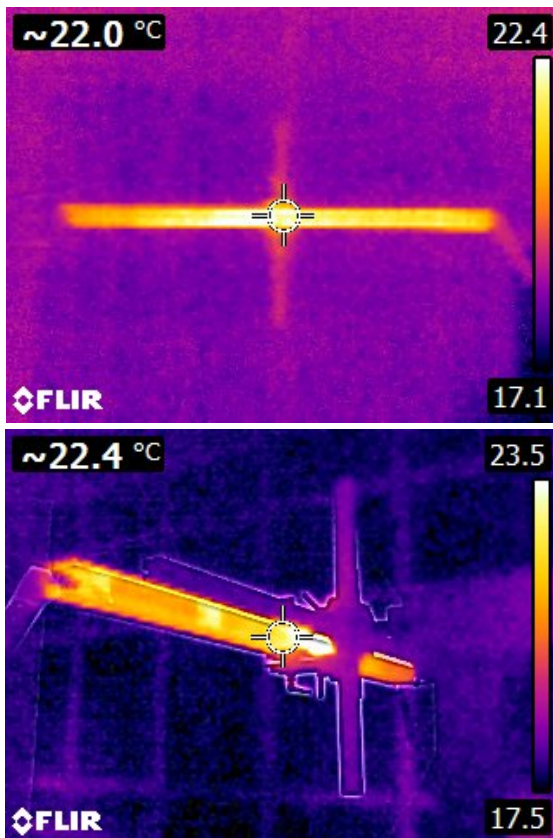
Max. Intensity: 1880.12 cd

Pos of Max. Intensity: H90 V0

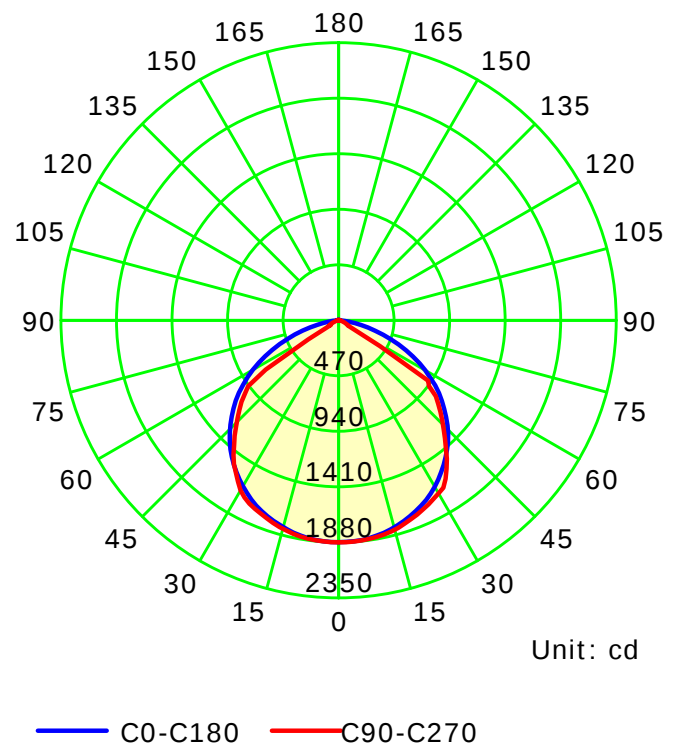
S/MH(C0/C180): 1.28

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

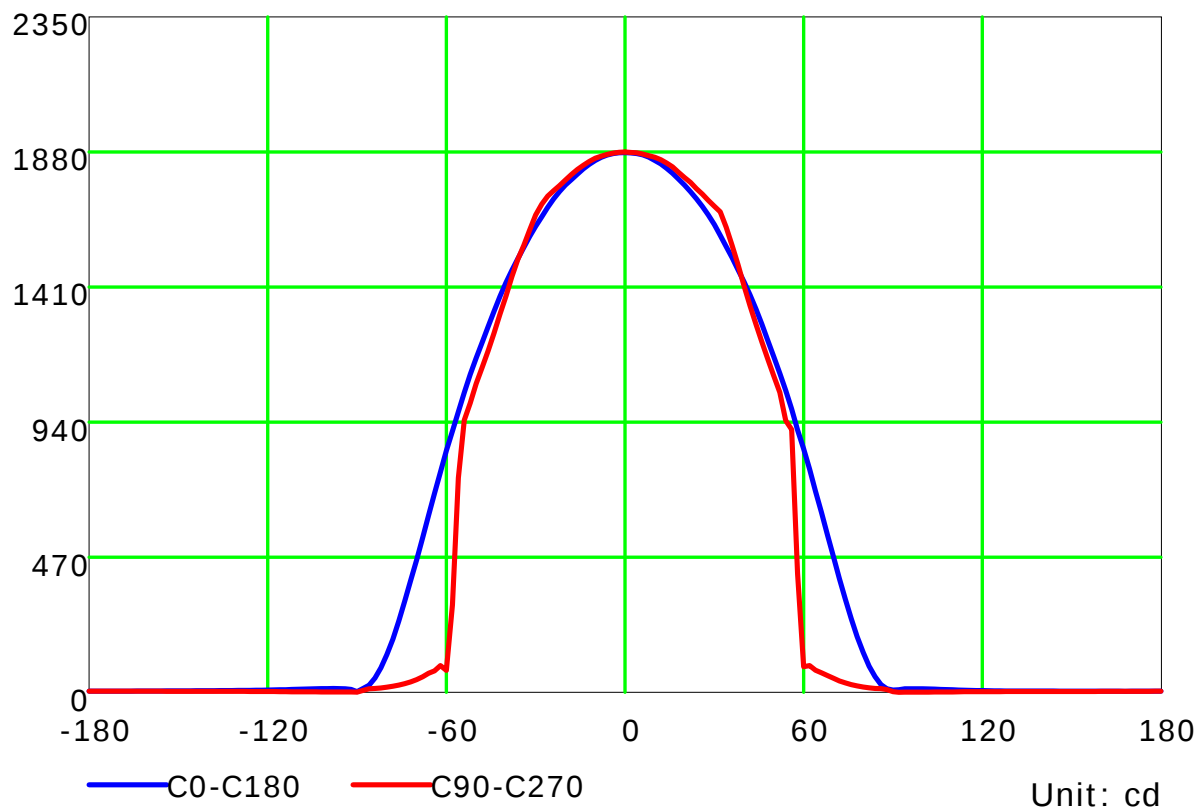
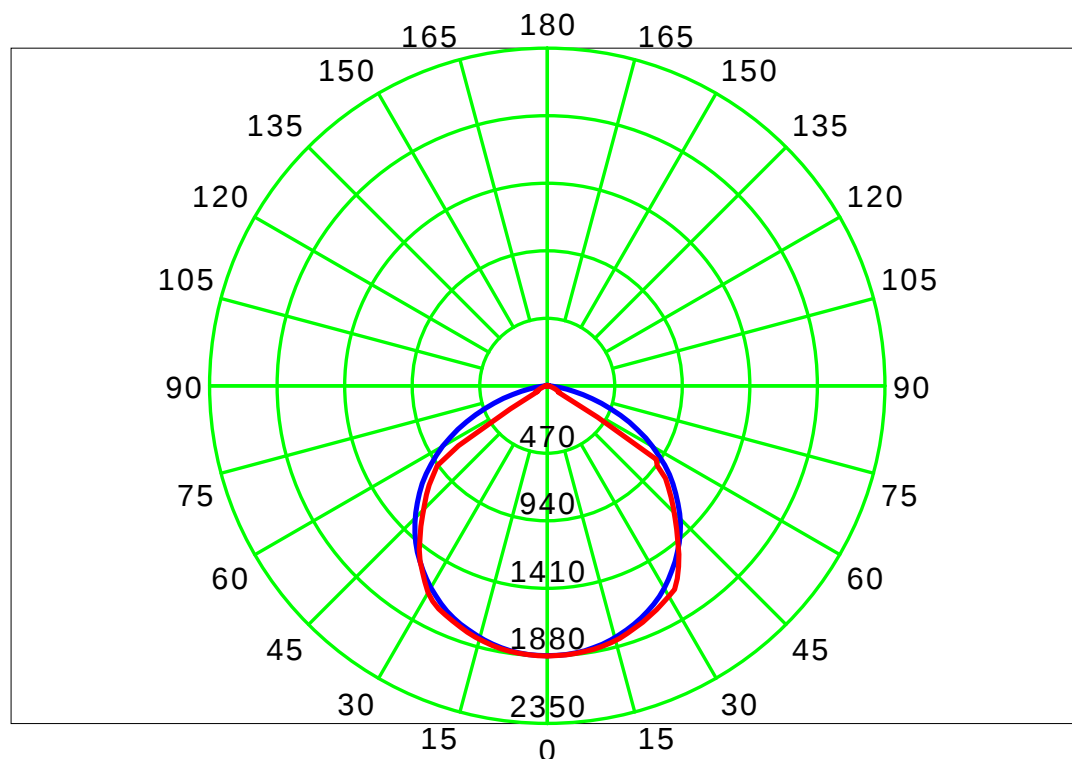
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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

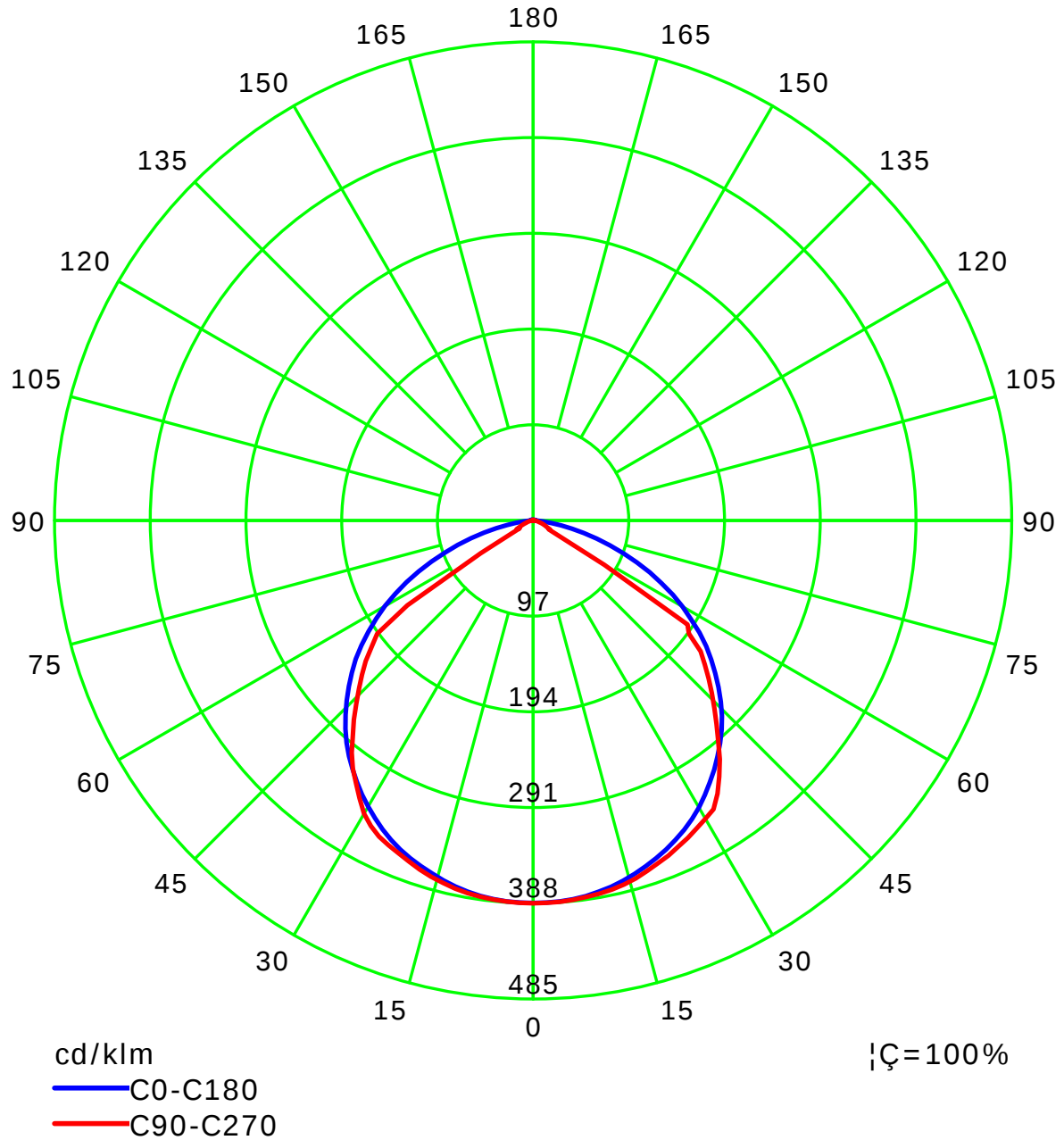
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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

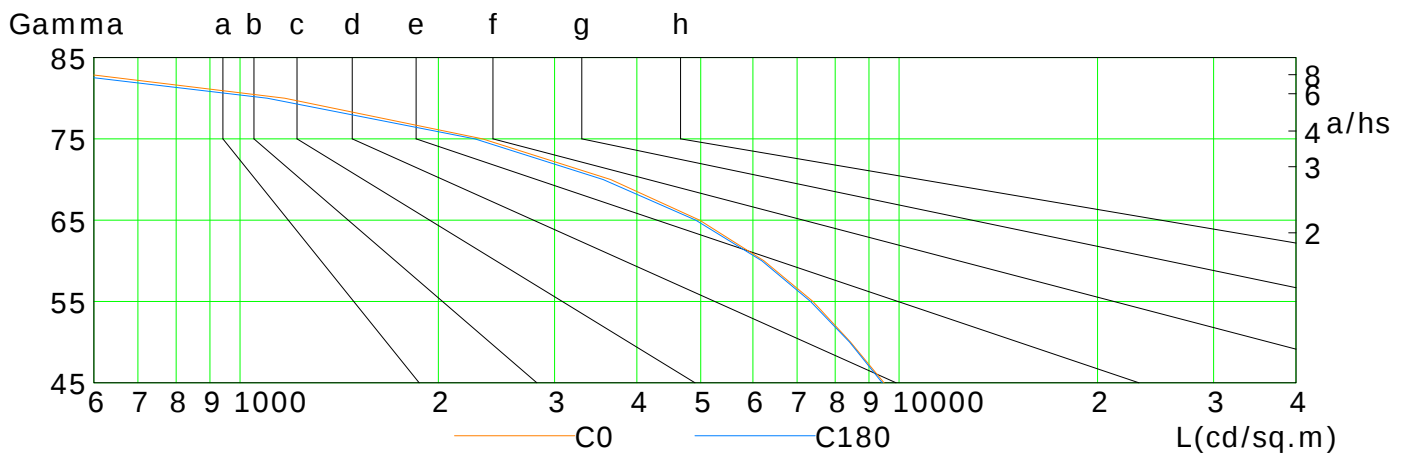
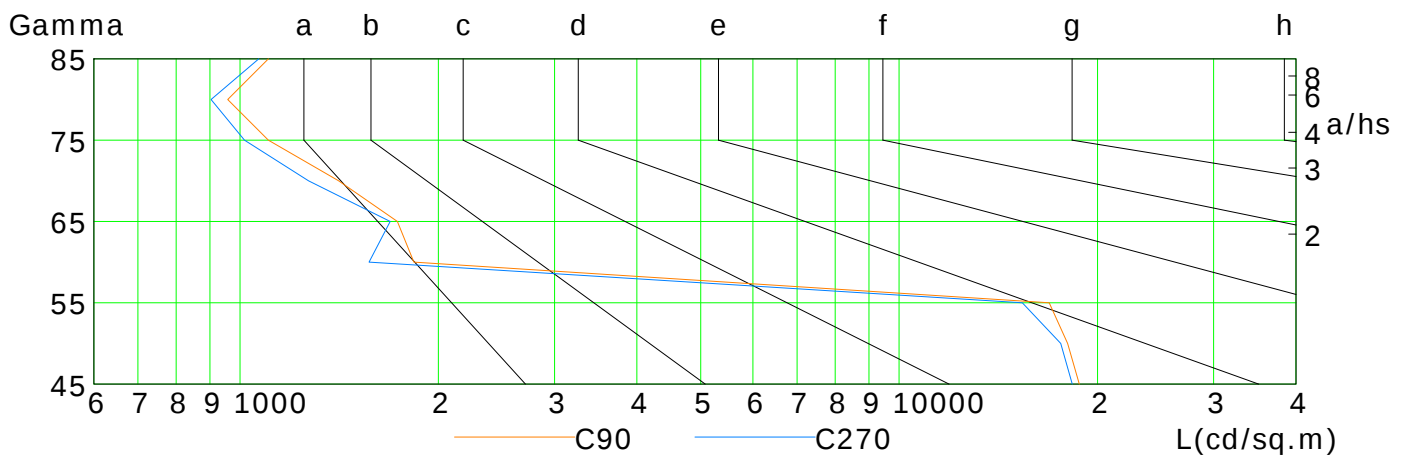
Humidity:

Inspector:

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	9484	8438	7398	6234	4979	3650	2333	1169	364
C90	18769	18017	16893	1835	1733	1412	1104	958	1104
C180	9426	8409	7337	6190	4914	3555	2271	1100	331
C270	18311	17590	15379	1569	1689	1271	1016	904	1068

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

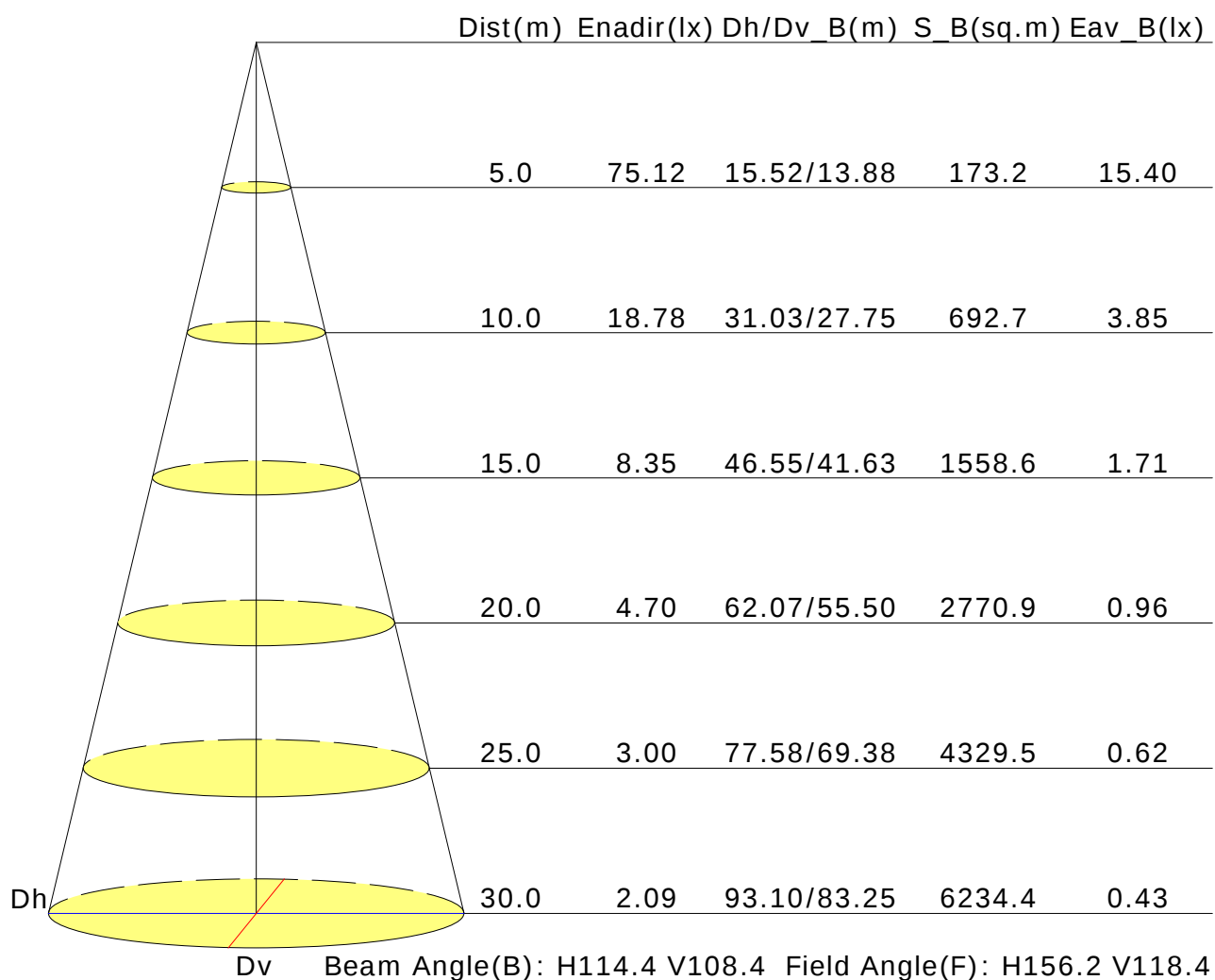
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	20.2	21.5	20.5	21.7	22.0	19.9	21.2	20.2	21.5	21.7
3H	21.1	22.2	21.4	22.5	22.8	19.8	21.0	20.1	21.2	21.5
4H	21.3	22.3	21.6	22.6	22.9	19.7	20.8	20.1	21.1	21.4
6H	21.3	22.3	21.7	22.6	22.9	19.7	20.7	20.0	21.0	21.3
8H	21.3	22.2	21.6	22.6	22.9	19.6	20.6	20.0	20.9	21.3
12H	21.2	22.2	21.6	22.5	22.8	19.6	20.5	20.0	20.9	21.2
X=4H Y=2H	20.5	21.6	20.8	21.9	22.2	20.2	21.3	20.5	21.6	21.9
3H	21.4	22.3	21.8	22.7	23.0	20.1	21.0	20.5	21.3	21.7
4H	21.7	22.5	22.1	22.8	23.2	20.0	20.8	20.4	21.2	21.6
6H	21.7	22.4	22.1	22.8	23.2	20.0	20.7	20.4	21.1	21.5
8H	21.7	22.3	22.1	22.7	23.2	19.9	20.6	20.4	21.0	21.4
12H	21.7	22.2	22.1	22.7	23.1	19.9	20.5	20.4	20.9	21.4
X=8H Y=4H	21.6	22.2	22.0	22.6	23.1	20.0	20.6	20.4	21.0	21.5
6H	21.6	22.1	22.1	22.6	23.0	19.9	20.4	20.4	20.9	21.4
8H	21.6	22.1	22.1	22.5	23.0	19.9	20.4	20.4	20.8	21.3
12H	21.6	22.0	22.1	22.5	23.0	19.9	20.3	20.4	20.8	21.3
X=12H Y=4H	21.5	22.1	22.0	22.5	23.0	19.9	20.5	20.4	21.0	21.4
6H	21.6	22.0	22.1	22.5	23.0	19.9	20.3	20.4	20.8	21.3
8H	21.6	22.0	22.1	22.4	23.0	19.9	20.3	20.4	20.7	21.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.7/-1.1				
S=1.5H	+0.6/-1.4					+2.4/-9.1				
S=2.0H	+1.1/-2.1					+3.9/-11.3				

Calculate in accordance with CIE Pub.117. The table is revised with 4844lm ($8\log(F/F_0) = 5.5$).

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:

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	0.61	0.72	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.00	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.72	0.77	0.84	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.80	0.86	0.89	0.94	0.98	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.96	
	0.20		0.47	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.94	
0.00	0.00	0.00	0.45	0.56	0.63	0.69	0.75	0.80	0.83	0.87	0.90	
Rating:33W 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	0.95	0.76	0.63	0.55	0.43	0.35	0.30	0.23	0.18	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	0.21	0.18	
	0.20		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.73	0.61	0.52	0.41	0.37	0.28	0.22	0.17	
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.88	0.70	0.58	0.50	0.39	0.32	0.27	0.20	0.17	
	0.30		0.75	0.61	0.52	0.45	0.36	0.30	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.55	0.45	0.37	0.32	0.25	0.21	0.18	0.13	0.11	
Rating:33W 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	0.18	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	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	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	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	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	0.19	
	0.20		0.05	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:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												