

Report No.:

Test Time: 26.05.2020 23:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,7A 72W 4000K microprizma

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.7 V

Current: 0.336 A

Power: 72.73 W

Power Factor: 0.973

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 7601.3 lm

Measurement Flux: 7601.3 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 158.9, 149.5, 149.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.0, 74.0, 74.4, 74.5

Luminaire Efficacy Rating (LER): 104.56

Central Intensity: 4123.05 cd

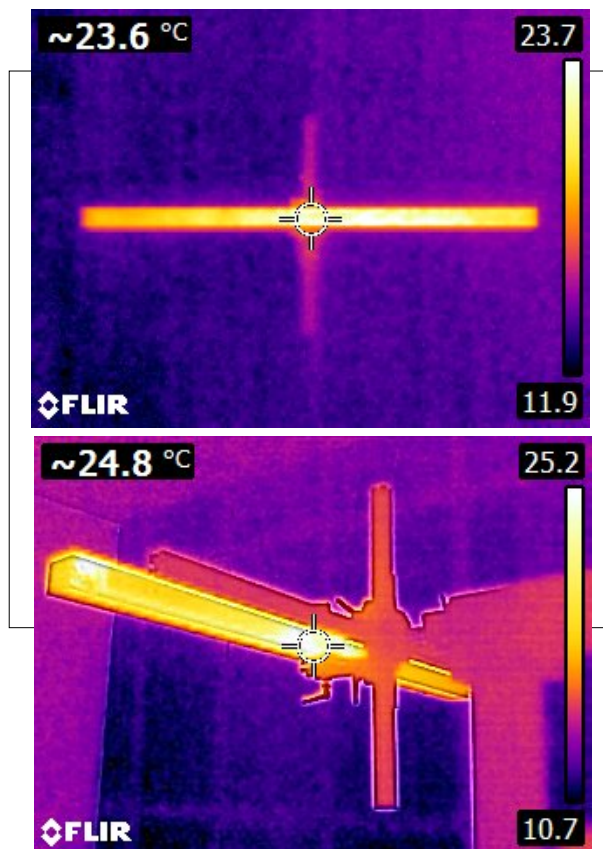
Max. Intensity: 4125.78 cd

Pos of Max. Intensity: H45 V0

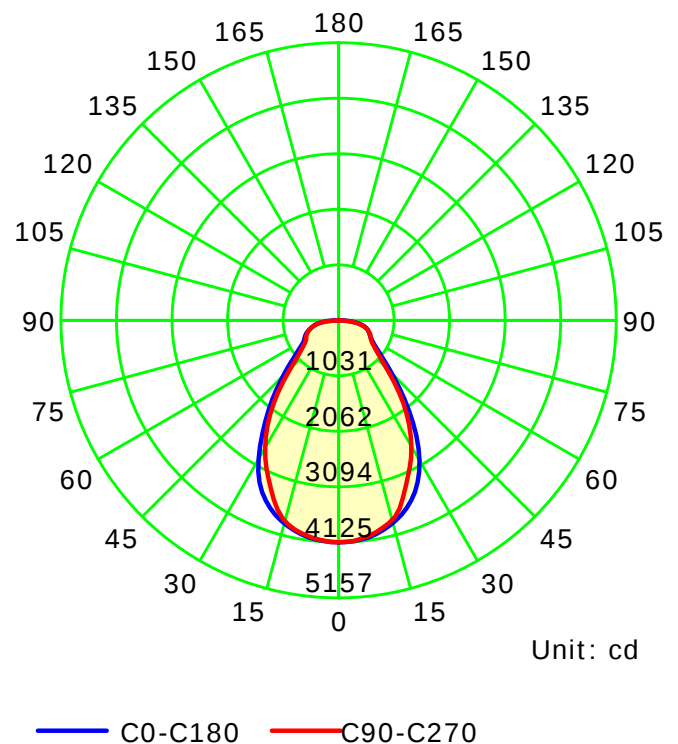
S/MH(C0/C180): 1.11

S/MH(C90/C270): 1.03

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

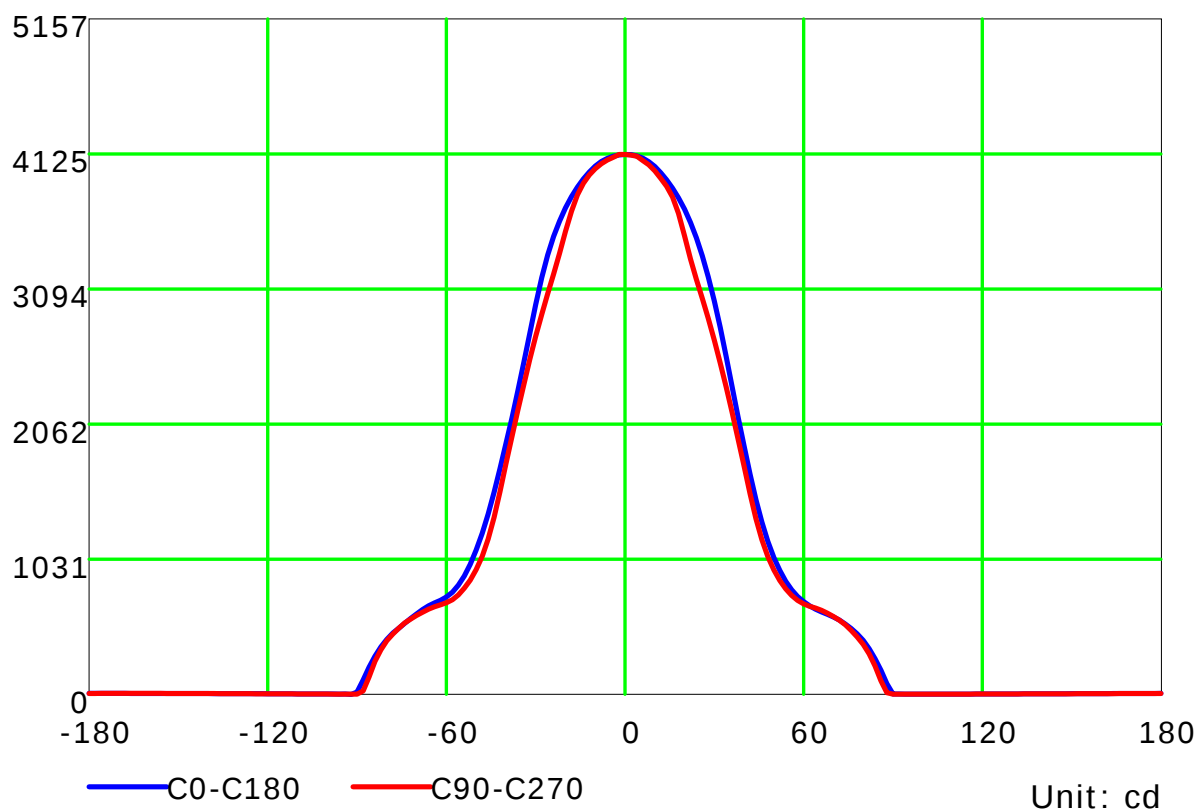
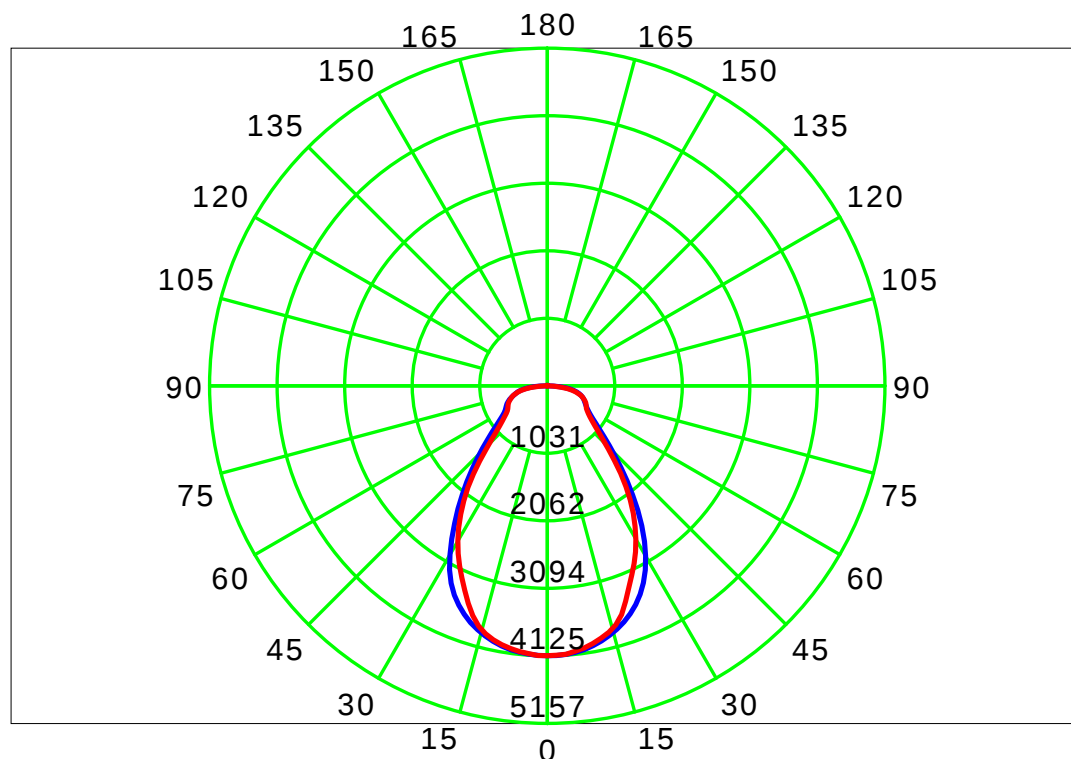
Temperature:

Humidity:

Operator:

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

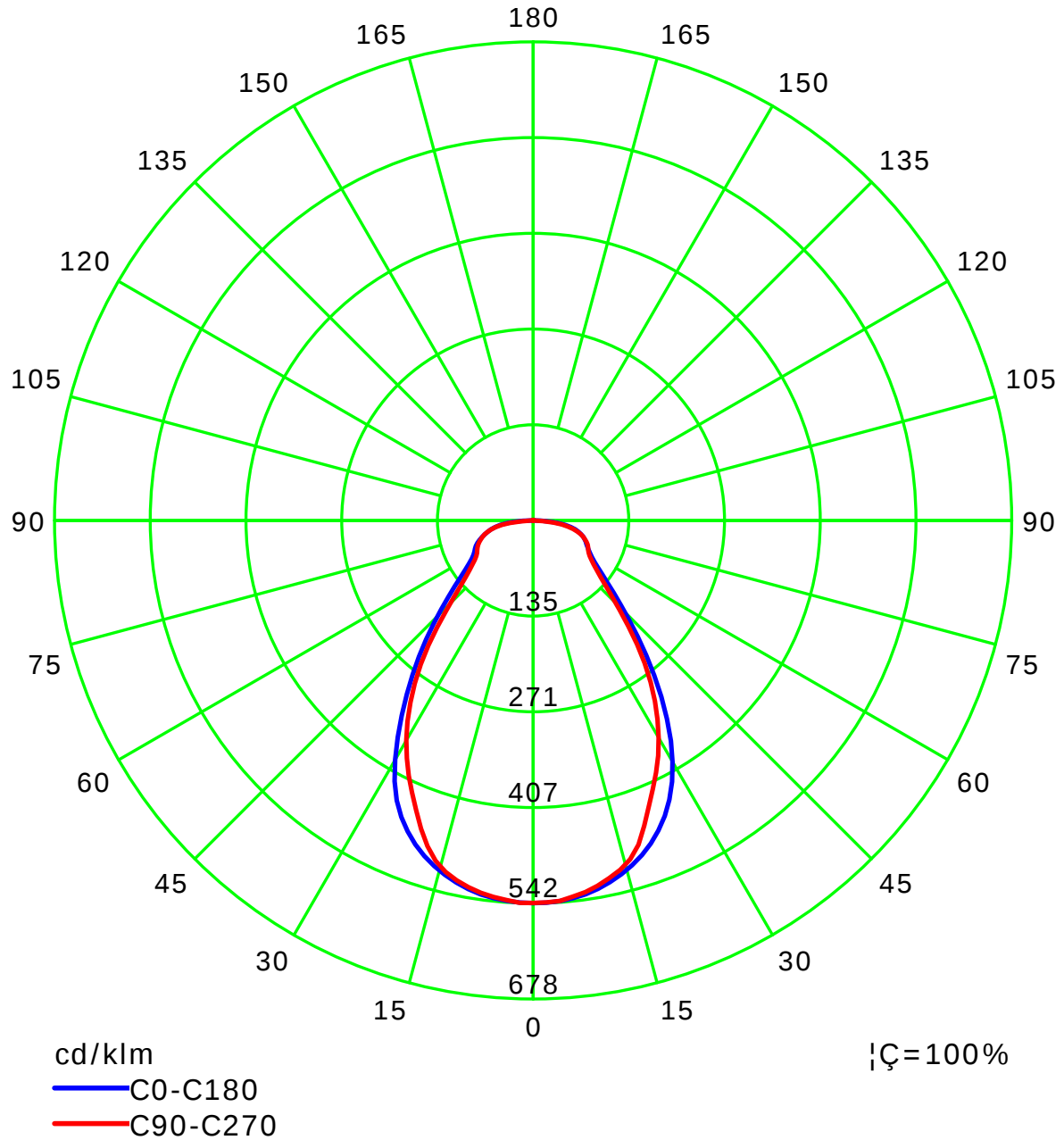
Test Device: LSG-1800B

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

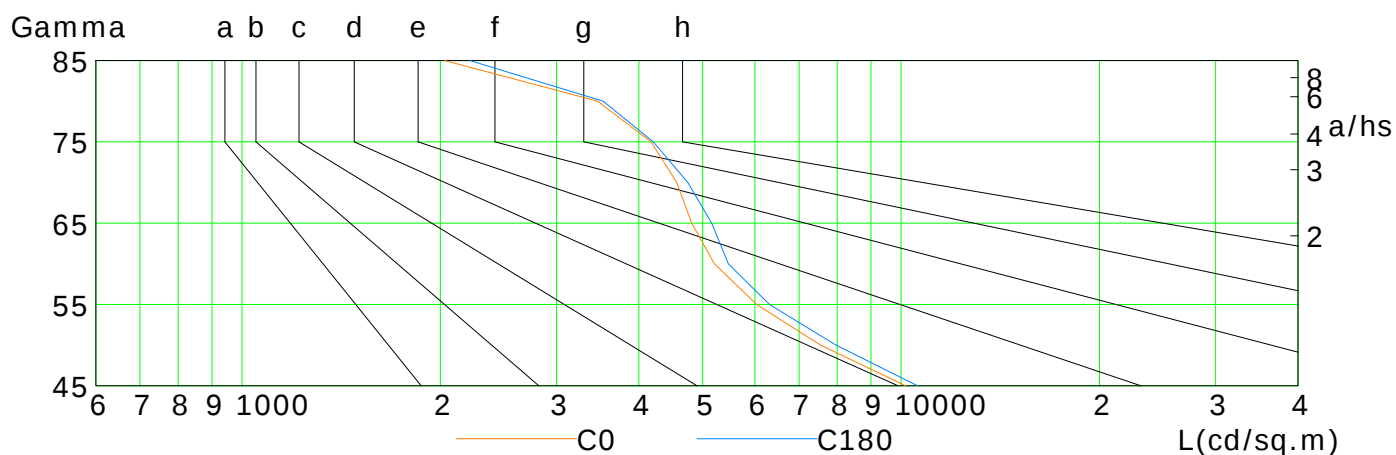
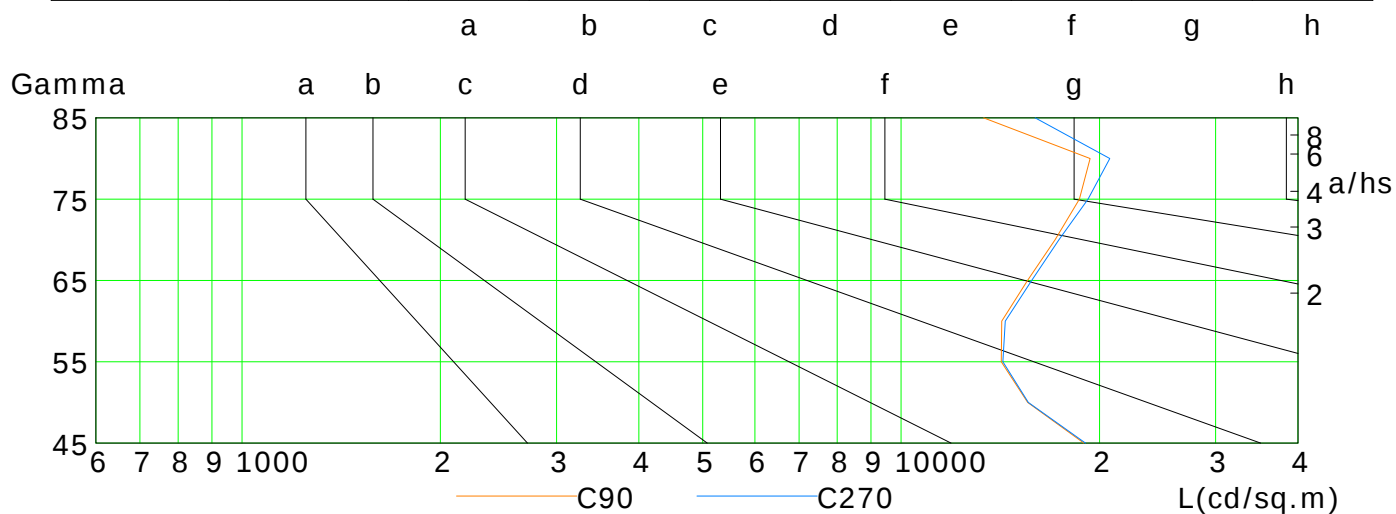
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10161	7548	6036	5207	4810	4568	4173	3465	2030
C90	18938	15563	14186	14214	15551	17121	18644	19351	13338
C180	10588	7966	6315	5468	5159	4746	4207	3530	2218
C270	19043	15594	14264	14386	15775	17351	19212	20732	15974

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

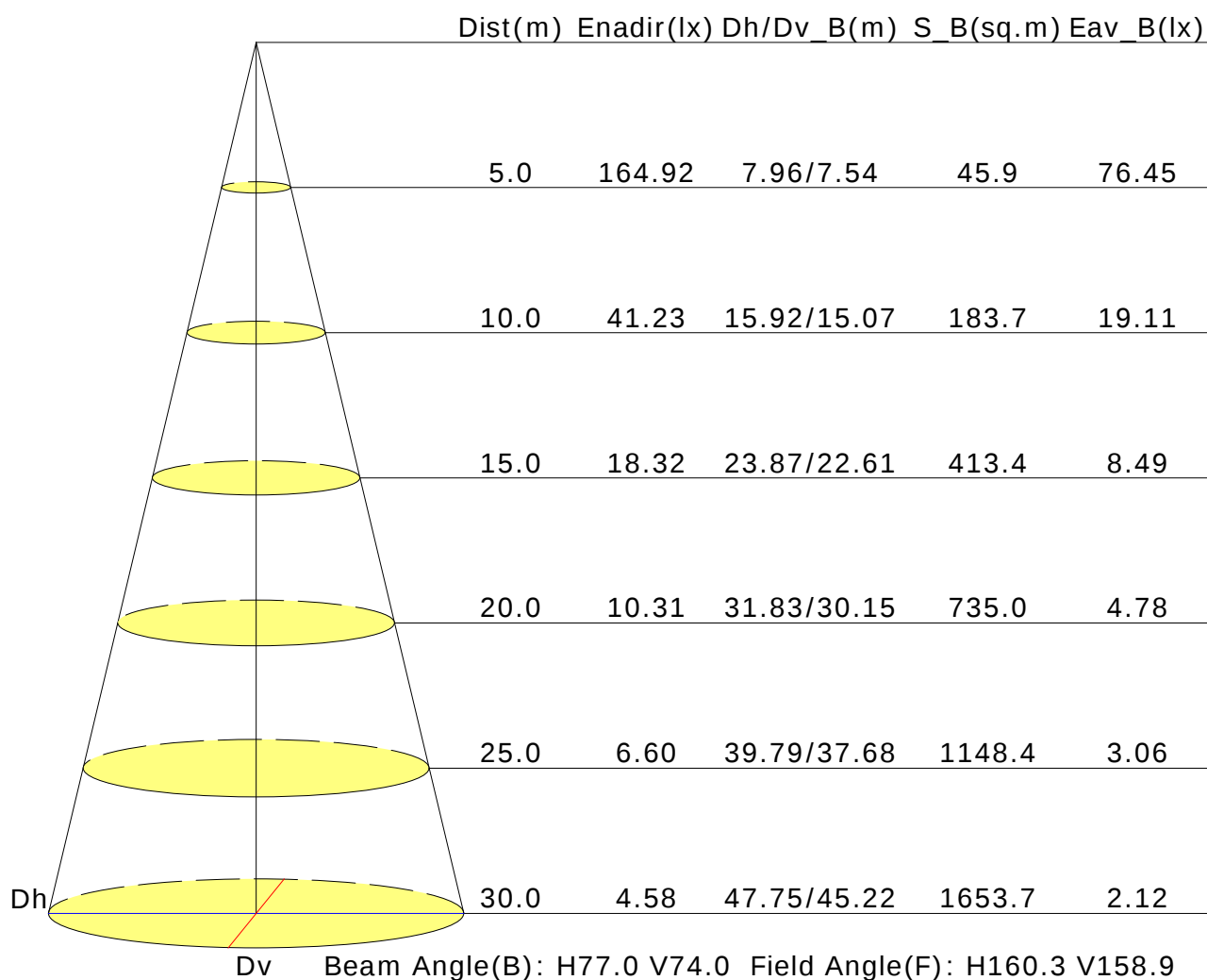
Test Device: LSG-1800B

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	18.5	19.8	18.8	20.0	20.2	19.9	21.1	20.2	21.3	21.6
3H	19.7	20.8	20.0	21.1	21.3	21.7	22.8	22.0	23.1	23.4
4H	20.3	21.4	20.6	21.6	21.9	22.7	23.8	23.0	24.1	24.4
6H	20.8	21.8	21.2	22.1	22.5	23.7	24.7	24.1	25.0	25.3
8H	21.0	22.0	21.4	22.3	22.6	24.1	25.1	24.5	25.4	25.7
12H	21.1	22.1	21.5	22.4	22.7	24.3	25.3	24.7	25.6	25.9
X=4H Y=2H	19.0	20.0	19.3	20.3	20.6	20.1	21.2	20.4	21.5	21.8
3H	20.3	21.3	20.7	21.6	22.0	22.1	23.0	22.5	23.3	23.7
4H	21.1	22.0	21.5	22.3	22.7	23.2	24.1	23.6	24.4	24.8
6H	21.8	22.5	22.2	22.9	23.3	24.4	25.1	24.8	25.5	25.9
8H	22.1	22.7	22.5	23.1	23.6	24.8	25.5	25.3	25.9	26.3
12H	22.2	22.8	22.7	23.3	23.7	25.1	25.7	25.6	26.2	26.6
X=8H Y=4H	21.4	22.1	21.8	22.5	22.9	23.3	24.0	23.8	24.4	24.9
6H	22.2	22.8	22.7	23.2	23.7	24.6	25.1	25.0	25.6	26.0
8H	22.5	23.0	23.0	23.5	24.0	25.1	25.6	25.6	26.0	26.5
12H	22.8	23.2	23.3	23.7	24.2	25.4	25.9	25.9	26.3	26.9
X=12H Y=4H	21.5	22.1	21.9	22.5	22.9	23.3	24.0	23.8	24.4	24.8
6H	22.3	22.8	22.8	23.2	23.7	24.6	25.1	25.1	25.5	26.0
8H	22.6	23.1	23.1	23.5	24.1	25.1	25.5	25.6	26.0	26.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.6/-0.8					+0.7/-0.7				
S=2.0H	+1.2/-1.2					+1.2/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 7601lm ($8\log(F/F_0) = 7.0$).

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 = 1.00									
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	0.63	0.73	0.79	0.83	0.90	0.94	0.98	1.02	1.04	
	0.30		0.56	0.66	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.51	0.60	0.67	0.72	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.71	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.30		0.56	0.64	0.71	0.75	0.82	0.87	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.60	0.69	0.74	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.55	0.63	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.51	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.48	0.57	0.62	0.67	0.73	0.77	0.80	0.84	0.87	
Rating:73W 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	0.90	0.74	0.64	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.75	0.64	0.56	0.49	0.41	0.34	0.30	0.24	0.20	
	0.20		0.64	0.56	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.86	0.71	0.61	0.53	0.43	0.39	0.31	0.24	0.20	
	0.30		0.73	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.63	0.55	0.48	0.43	0.36	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.84	0.68	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.71	0.60	0.52	0.46	0.38	0.32	0.27	0.22	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.52	0.43	0.38	0.33	0.27	0.23	0.20	0.16	0.13	
Rating:73W 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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.17	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:73W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												