

Report No.:

Test Time: 26.05.2020 19:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,6A 65W 4000K frozen

Number of Lamps: 1

Luminous Width (mm): 60

Voltage: 222.1 V

Power: 64.05 W

Luminous Length (mm): 1500

Luminous Height (mm): 70

Current: 0.299 A

Power Factor: 0.962

Photometric Results

CIE Class: Direct

Measurement Flux: 7619.2 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 150.1, 152.7, 152.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.2, 90.1, 94.6, 95.0

Luminaire Efficacy Rating (LER): 119.01

Max. Intensity: 3263.66 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 7619.2 lm

Efficiency: 100%

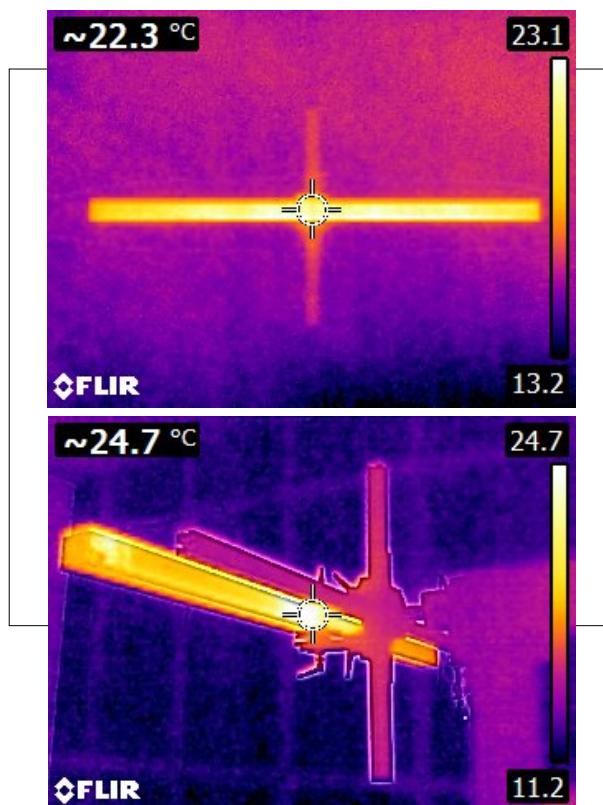
Upward Ratio: 0%

Central Intensity: 3261.23 cd

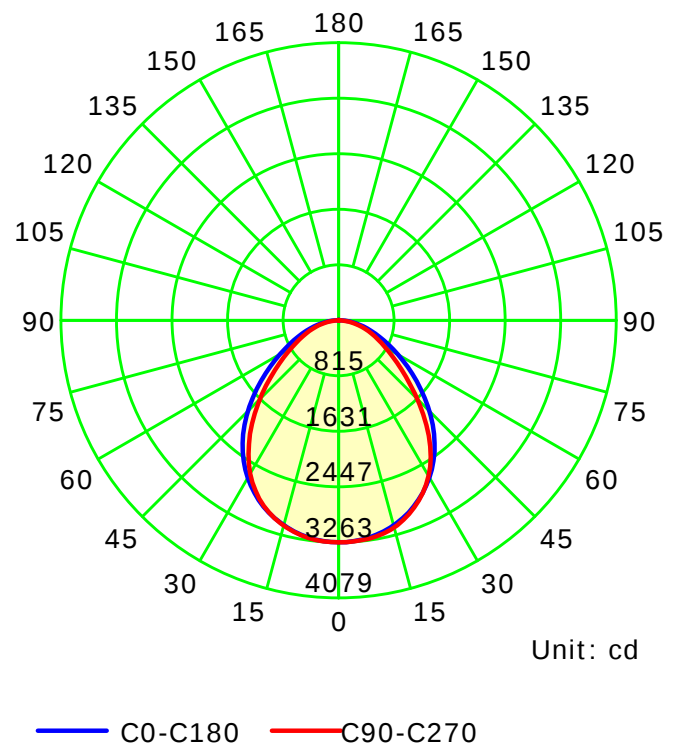
Pos of Max. Intensity: H67.5 V0

S/MH(C90/C270): 1.19

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

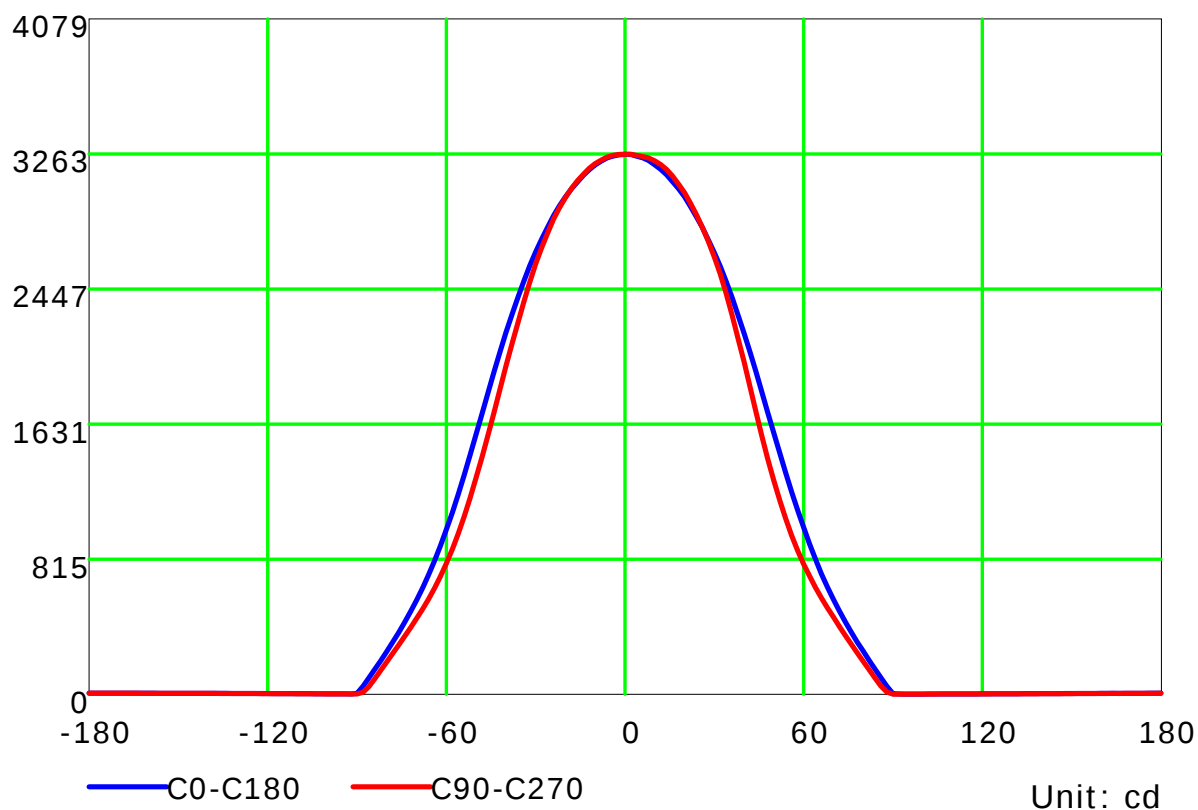
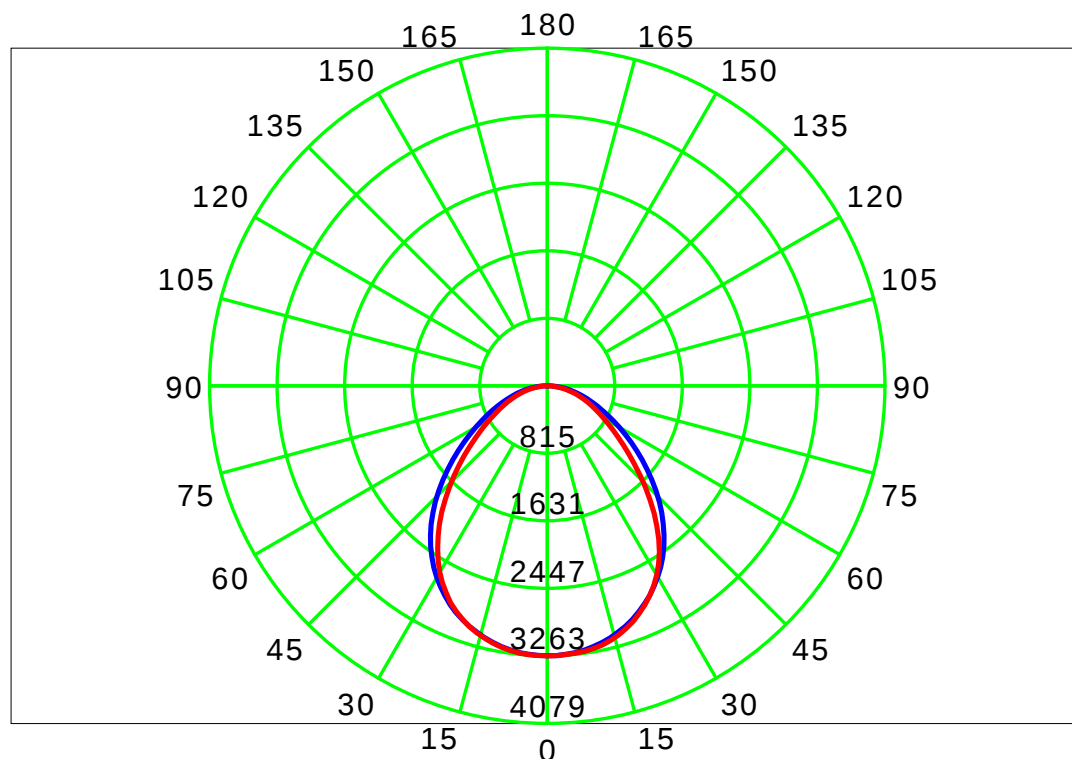
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

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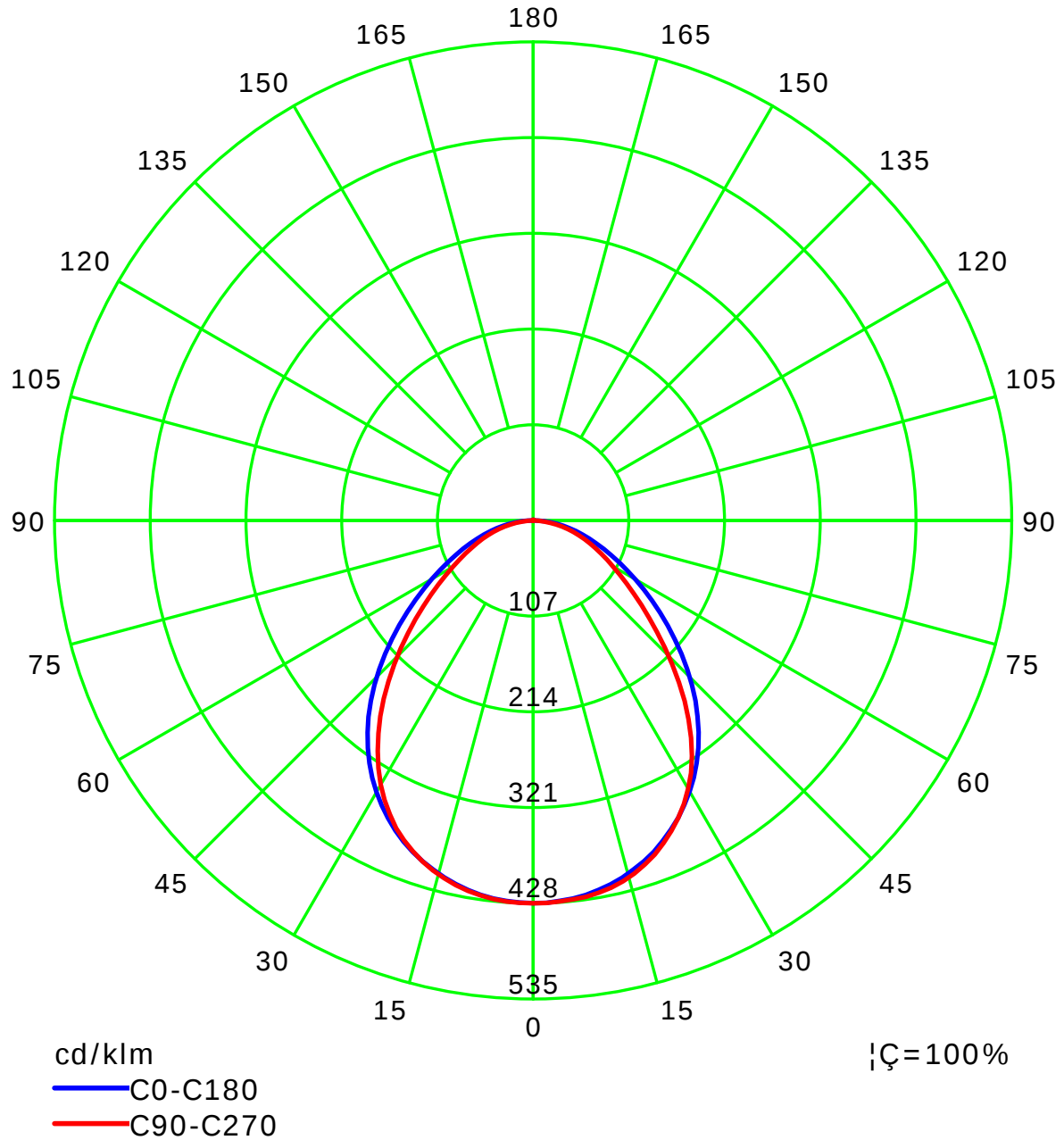
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

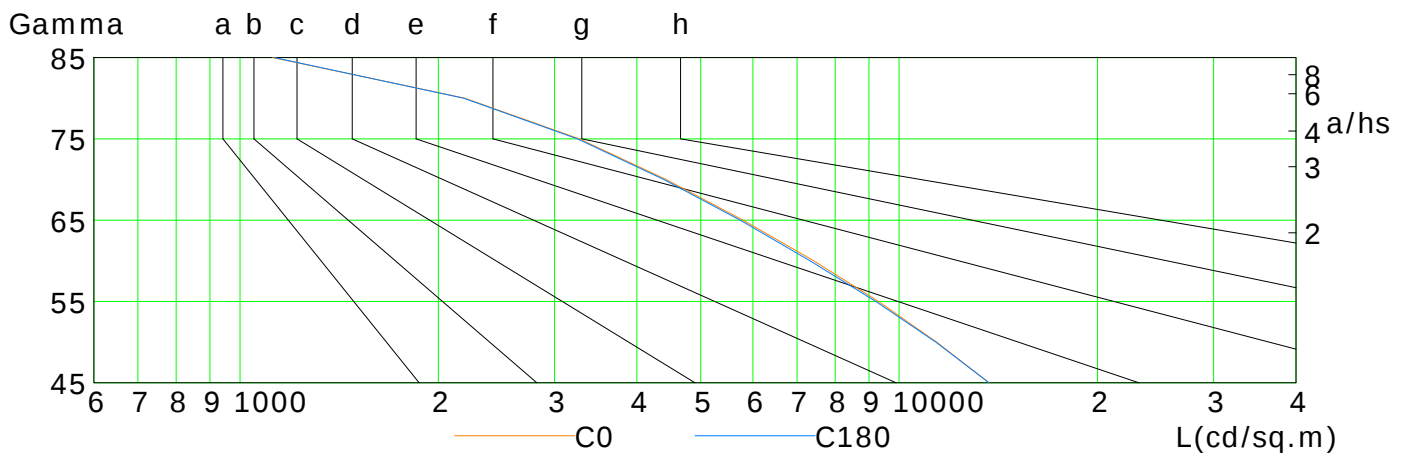
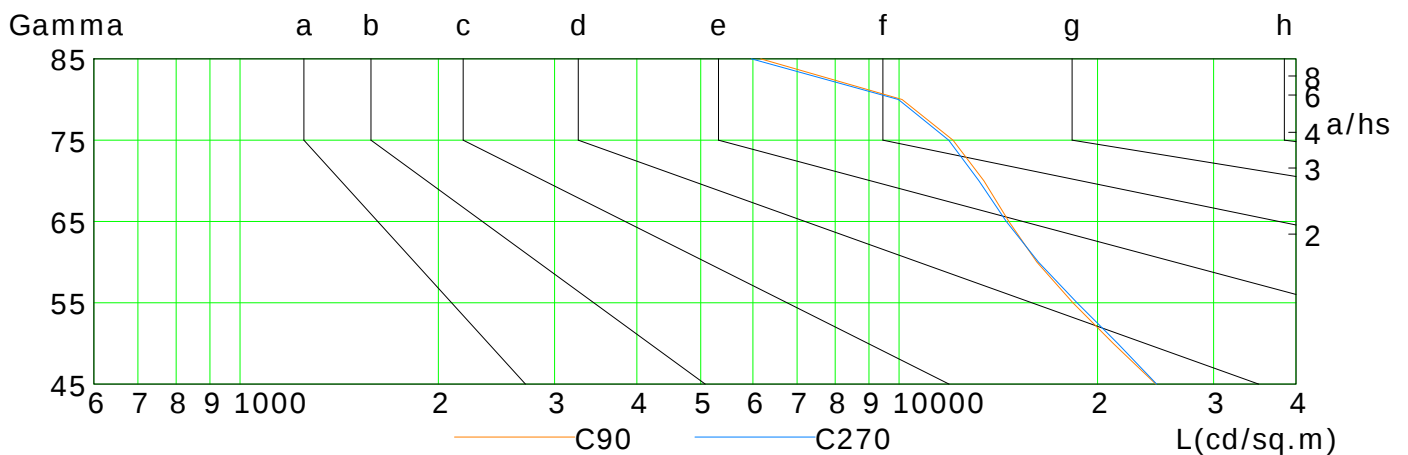
Luminous Intensity Distribution Curve(cd / klm)



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	13690	11404	9302	7420	5797	4430	3270	2194	1121
C90	24519	21131	18349	16178	14672	13445	12068	10104	6167
C180	13685	11369	9219	7328	5741	4397	3251	2184	1127
C270	24577	21457	18613	16272	14545	13212	11889	9974	5971

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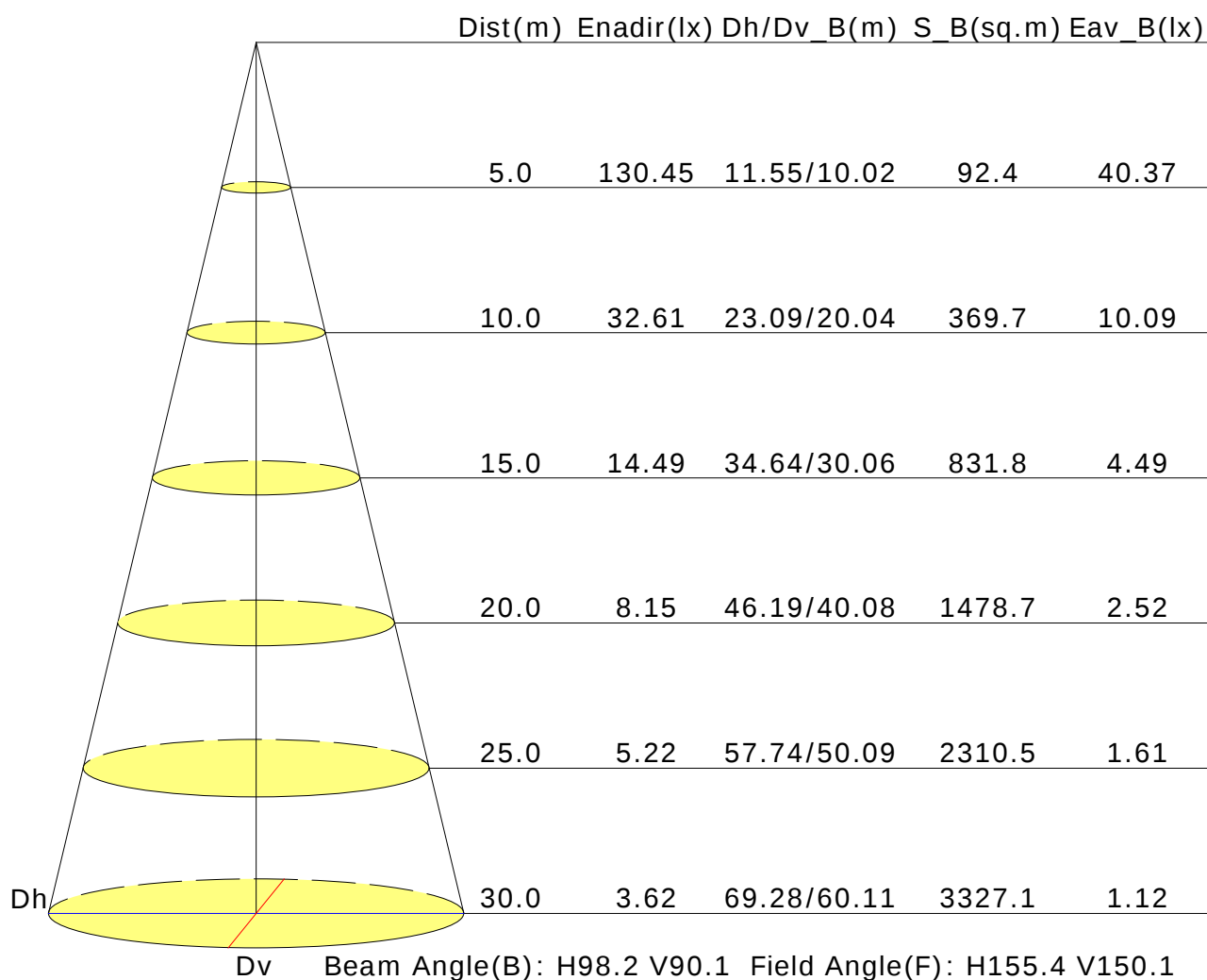
Test Device: LSG-1800B

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	20.3	21.6	20.6	21.9	22.1	21.0	22.3	21.3	22.6	22.8
3H	21.1	22.2	21.4	22.5	22.8	22.0	23.2	22.4	23.5	23.8
4H	21.3	22.4	21.7	22.7	23.0	22.5	23.6	22.8	23.9	24.2
6H	21.5	22.5	21.8	22.8	23.1	22.8	23.8	23.2	24.1	24.5
8H	21.5	22.5	21.9	22.8	23.2	22.9	23.9	23.3	24.2	24.5
12H	21.5	22.5	21.9	22.8	23.1	22.9	23.9	23.3	24.2	24.5
X=4H Y=2H	20.7	21.8	21.0	22.1	22.4	21.3	22.4	21.6	22.7	23.0
3H	21.6	22.5	22.0	22.9	23.2	22.4	23.4	22.8	23.7	24.1
4H	22.0	22.8	22.4	23.2	23.5	22.9	23.8	23.4	24.2	24.5
6H	22.2	22.9	22.6	23.3	23.7	23.3	24.1	23.8	24.5	24.9
8H	22.3	22.9	22.7	23.3	23.8	23.5	24.2	23.9	24.6	25.0
12H	22.3	22.9	22.7	23.3	23.8	23.5	24.2	24.0	24.6	25.0
X=8H Y=4H	22.1	22.8	22.5	23.2	23.6	23.0	23.7	23.5	24.1	24.5
6H	22.4	23.0	22.9	23.4	23.9	23.5	24.0	24.0	24.5	25.0
8H	22.5	23.0	23.0	23.5	24.0	23.7	24.1	24.1	24.6	25.1
12H	22.6	23.0	23.1	23.5	24.0	23.7	24.2	24.2	24.6	25.1
X=12H Y=4H	22.1	22.7	22.5	23.1	23.6	23.0	23.6	23.5	24.0	24.5
6H	22.4	22.9	22.9	23.4	23.9	23.5	24.0	24.0	24.4	24.9
8H	22.5	23.0	23.0	23.4	24.0	23.7	24.1	24.2	24.6	25.1
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.2/-0.4				
S=1.5H	+0.6/-1.1					+0.7/-1.0				
S=2.0H	+1.2/-1.8					+1.5/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 7619lm ($8\log(F/F_0) = 7.1$).

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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 = 1.25									
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	0.62	0.72	0.79	0.84	0.90	0.95	0.98	1.02	1.05	
	0.30		0.55	0.65	0.72	0.77	0.85	0.90	0.94	0.99	1.02	
	0.20		0.50	0.60	0.67	0.73	0.80	0.86	0.90	0.95	0.99	
0.50	0.50	0.20	0.61	0.70	0.77	0.81	0.87	0.92	0.94	0.98	1.01	
	0.30		0.54	0.64	0.71	0.76	0.83	0.87	0.91	0.95	0.98	
	0.20		0.49	0.59	0.66	0.71	0.79	0.84	0.87	0.92	0.96	
0.30	0.50	0.20	0.59	0.68	0.74	0.79	0.84	0.88	0.91	0.95	0.97	
	0.30		0.53	0.63	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.20		0.49	0.59	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.47	0.56	0.63	0.67	0.74	0.78	0.81	0.85	0.88	
Rating:64W 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	0.92	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.20	
	0.30		0.76	0.64	0.55	0.49	0.40	0.33	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.36	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.88	0.72	0.61	0.53	0.42	0.38	0.29	0.23	0.19	
	0.30		0.75	0.62	0.54	0.47	0.38	0.32	0.28	0.21	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.85	0.69	0.58	0.50	0.40	0.33	0.28	0.21	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		0.64	0.54	0.47	0.42	0.34	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.53	0.44	0.37	0.33	0.26	0.22	0.19	0.15	0.12	
Rating:64W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.17	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	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	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:64W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												