

Report No.:

Test Time: 26.05.2020 22:09

Luminaire Property

Luminaire Manufacturer:

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

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.1 V

Current: 0.335 A

Power: 72.70 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 8329.2 lm

Total Rated Lamp Lumens: 8329.2 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 150.3, 152.8, 152.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.2, 90.1, 94.5, 94.9

Luminaire Efficacy Rating (LER): 114.62

Central Intensity: 3563.68 cd

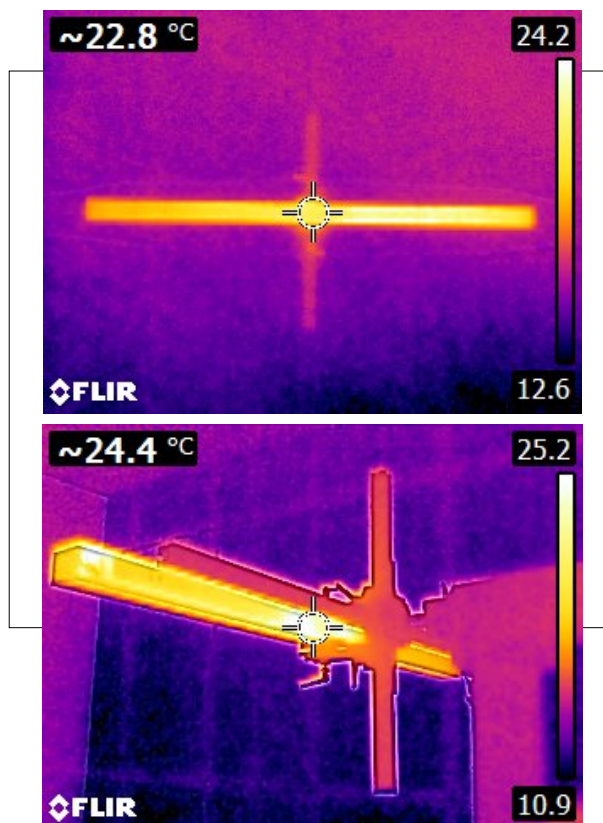
Max. Intensity: 3569.32 cd

Pos of Max. Intensity: H90 V0

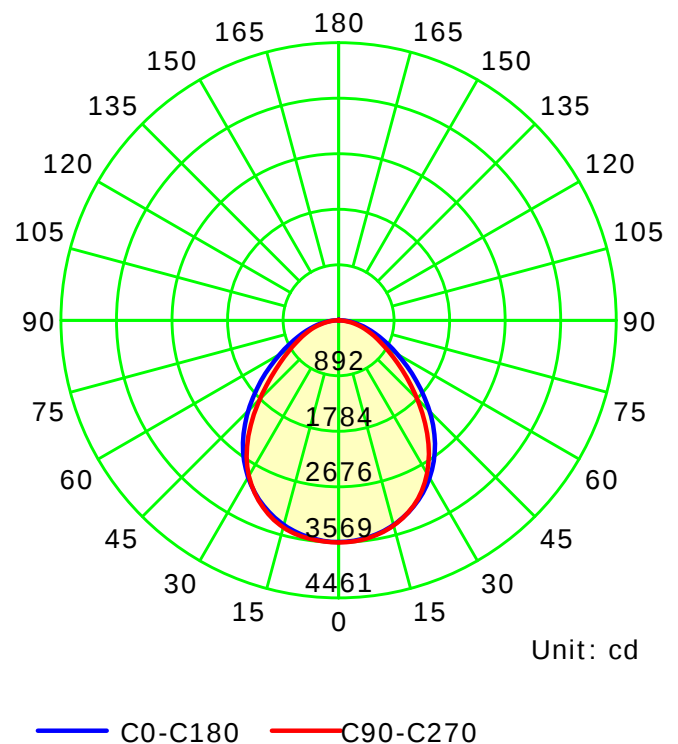
S/MH(C0/C180): 1.22

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

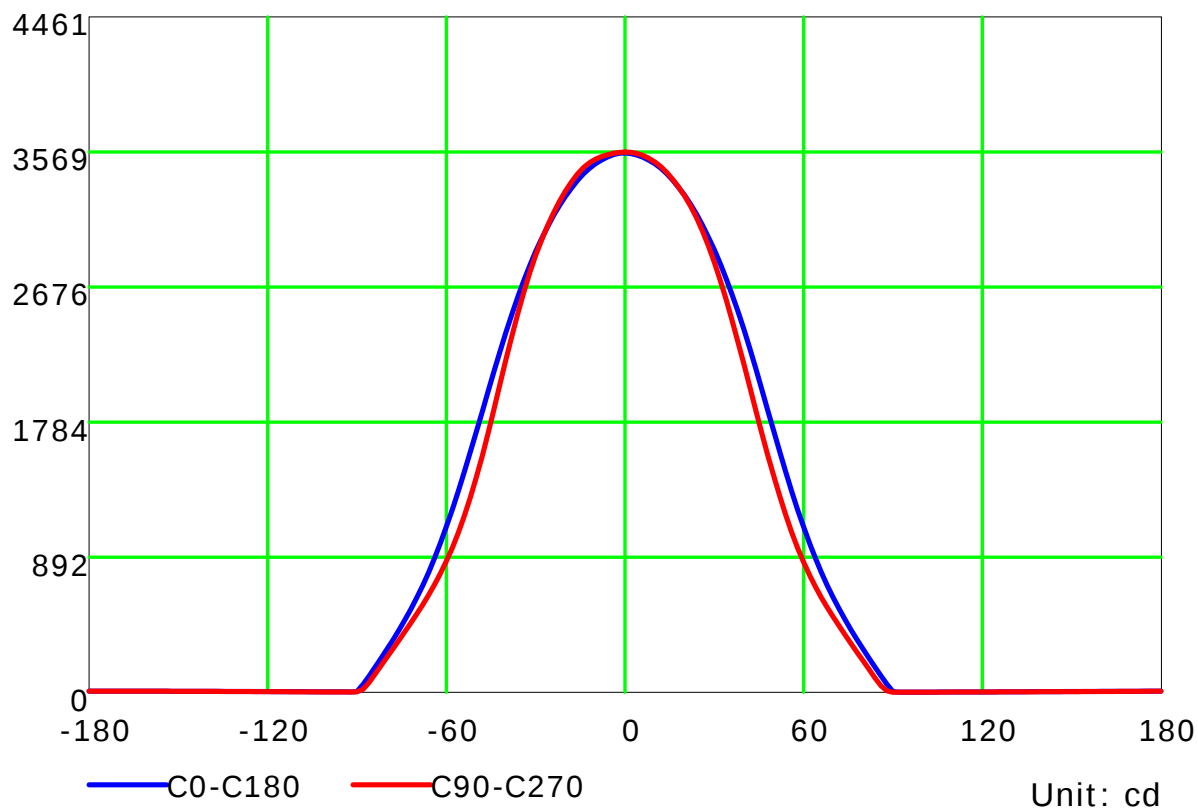
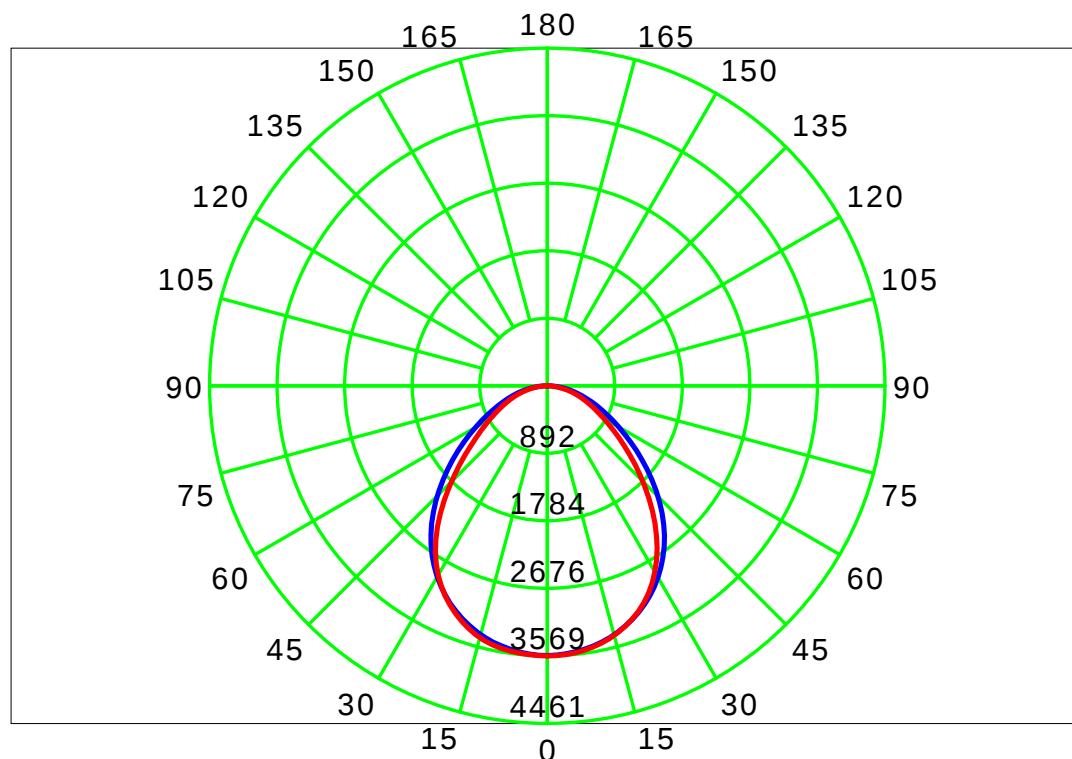
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

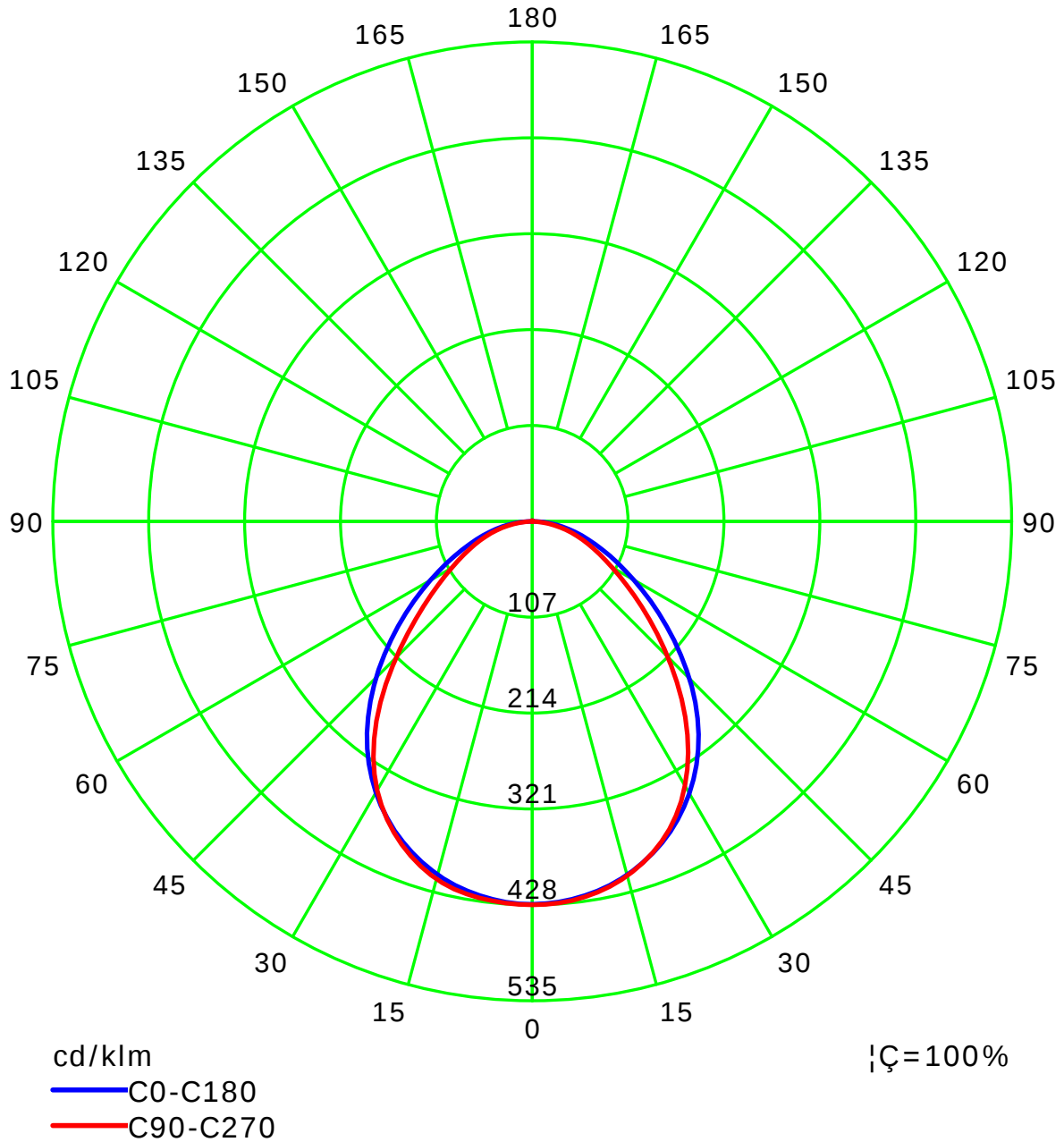
Test Device: LSG-1800B

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:

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Test Device: LSG-1800B

Distance: 12.677 m

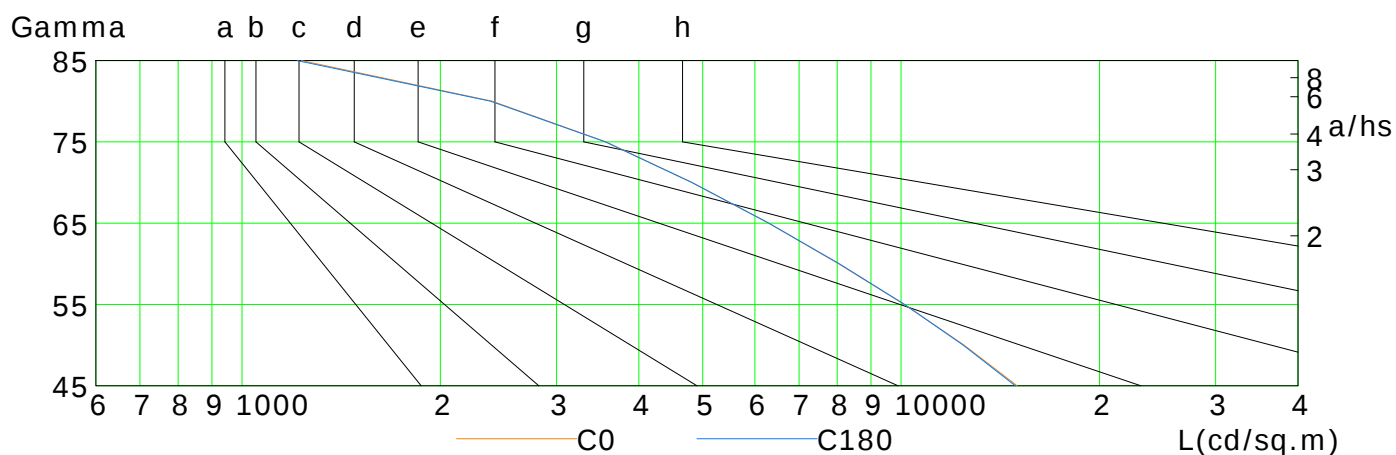
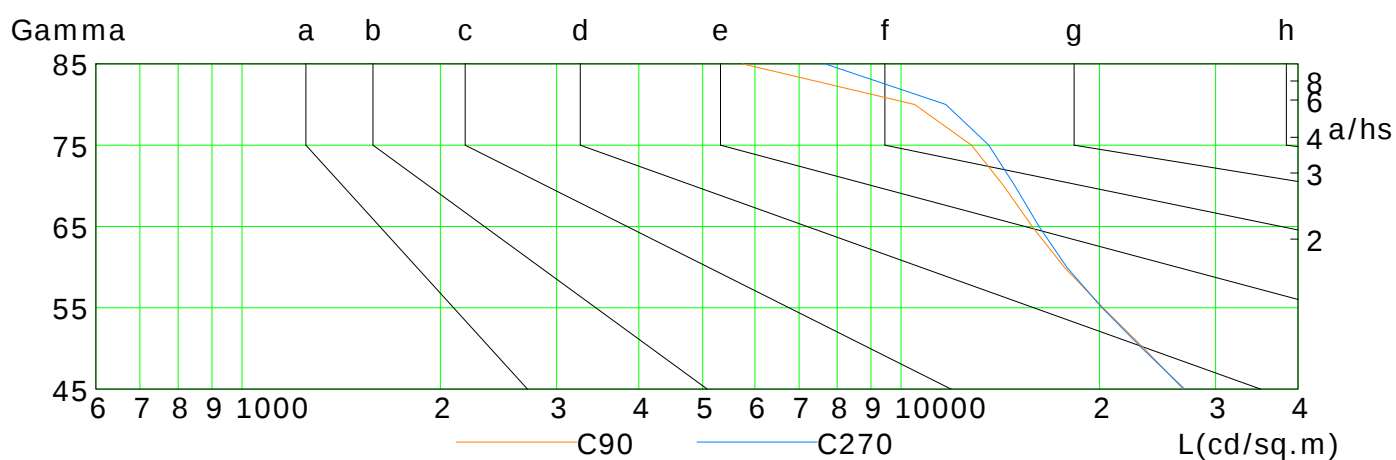
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	14997	12463	10117	8037	6294	4818	3565	2397	1231
C90	26797	23367	20252	17673	15806	14303	12789	10485	5748
C180	14907	12416	10123	8060	6299	4813	3558	2383	1212
C270	26916	23214	20174	17832	16189	14876	13582	11692	7666

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

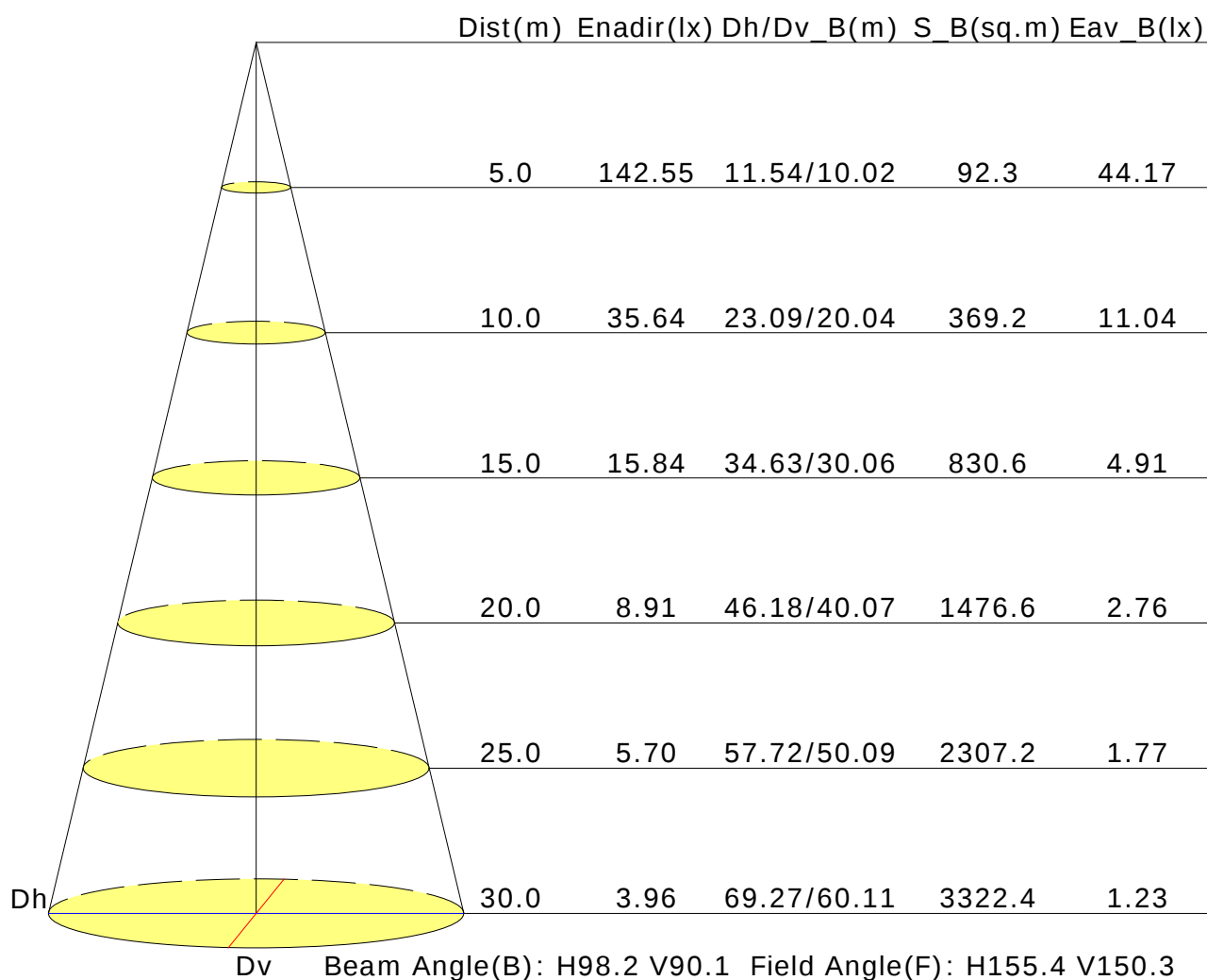
Test Device: LSG-1800B

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	20.6	21.9	20.9	22.1	22.4	21.3	22.6	21.6	22.9	23.1
3H	21.4	22.5	21.7	22.8	23.1	22.4	23.5	22.7	23.8	24.1
4H	21.6	22.7	22.0	23.0	23.3	22.8	23.9	23.1	24.2	24.5
6H	21.8	22.8	22.1	23.1	23.4	23.1	24.1	23.5	24.5	24.8
8H	21.8	22.8	22.2	23.1	23.5	23.2	24.2	23.6	24.5	24.9
12H	21.8	22.8	22.2	23.1	23.4	23.2	24.2	23.6	24.5	24.9
X=4H Y=2H	21.0	22.1	21.3	22.4	22.7	21.6	22.7	21.9	23.0	23.3
3H	21.9	22.8	22.3	23.2	23.5	22.7	23.7	23.1	24.0	24.4
4H	22.2	23.1	22.7	23.5	23.8	23.3	24.1	23.7	24.5	24.9
6H	22.5	23.2	22.9	23.6	24.0	23.7	24.4	24.1	24.8	25.2
8H	22.6	23.2	23.0	23.7	24.1	23.8	24.5	24.2	24.9	25.3
12H	22.6	23.2	23.0	23.6	24.1	23.9	24.5	24.3	24.9	25.4
X=8H Y=4H	22.4	23.1	22.8	23.5	23.9	23.3	24.0	23.8	24.4	24.9
6H	22.7	23.3	23.2	23.7	24.2	23.8	24.4	24.3	24.8	25.3
8H	22.8	23.3	23.3	23.8	24.3	24.0	24.5	24.5	24.9	25.4
12H	22.9	23.3	23.4	23.8	24.3	24.1	24.5	24.6	25.0	25.5
X=12H Y=4H	22.4	23.0	22.8	23.4	23.9	23.3	24.0	23.8	24.4	24.8
6H	22.7	23.2	23.2	23.7	24.2	23.8	24.3	24.3	24.8	25.3
8H	22.9	23.3	23.4	23.8	24.3	24.0	24.4	24.5	24.9	25.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.3/-0.4				
S=1.5H	+0.6/-1.1					+0.8/-1.0				
S=2.0H	+1.2/-1.8					+1.6/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 8329lm ($8\log(F/F_0) = 7.4$).

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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 = 1.25									
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	0.98	1.02	
	0.20		0.50	0.60	0.67	0.72	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: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 = 1.25									
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: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 = 1.25									
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	0.22	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:73W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												