

Report No.:

Test Time: 22.06.2020 13:49

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 48W 4000K матовый (opal)

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.3 V

Current: 0.232 A

Power: 49.02 W

Power Factor: 0.947

Photometric Results

CIE Class: Direct

Measurement Flux: 5063.3 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 5063.3 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 167.1, 161.6, 163.4, 163.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.1, 107.3, 109.7, 109.7

Luminaire Efficacy Rating (LER): 103.34

Central Intensity: 1786.57 cd

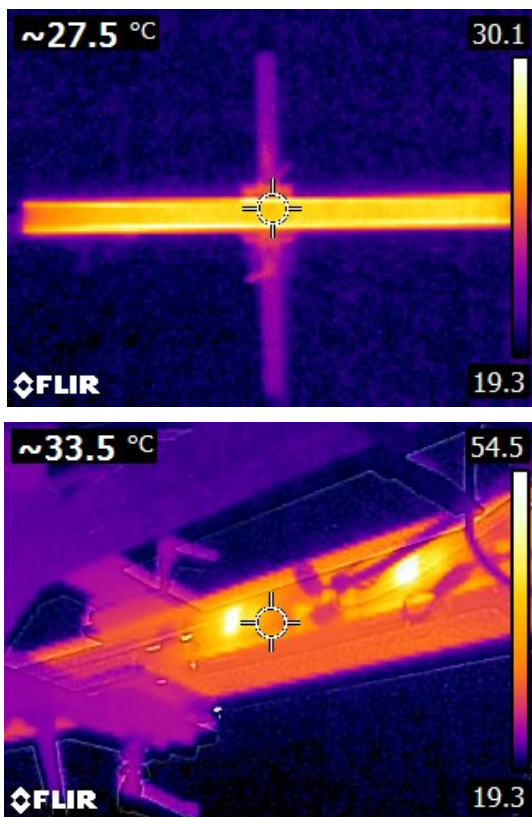
Max. Intensity: 1788.78 cd

Pos of Max. Intensity: H67.5 V0

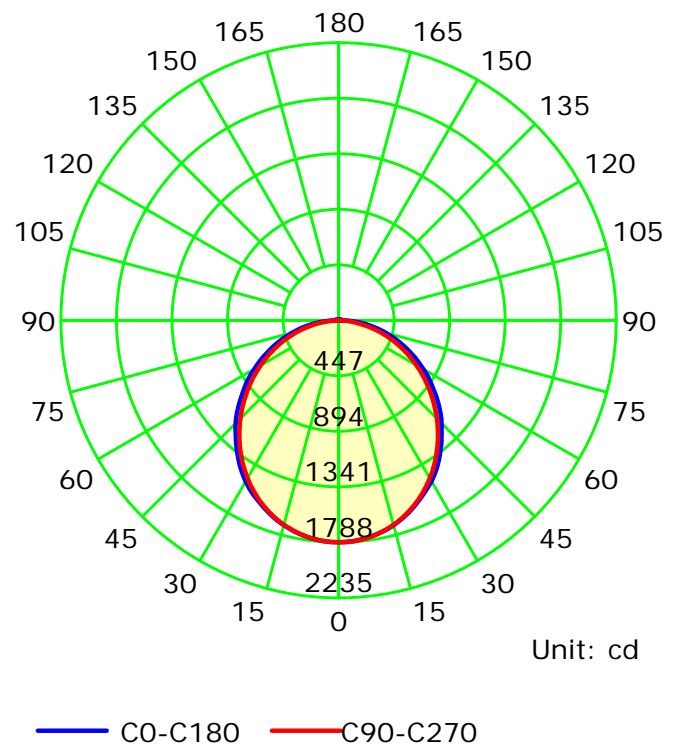
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.22

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

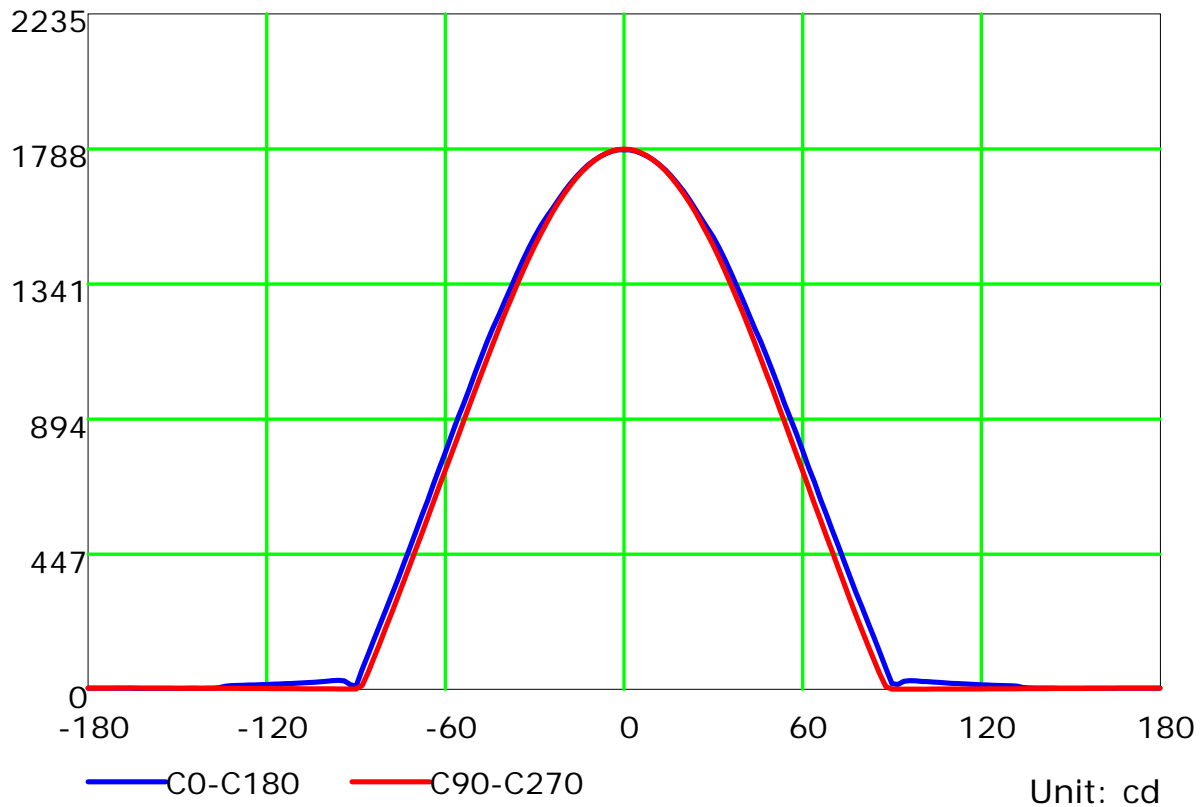
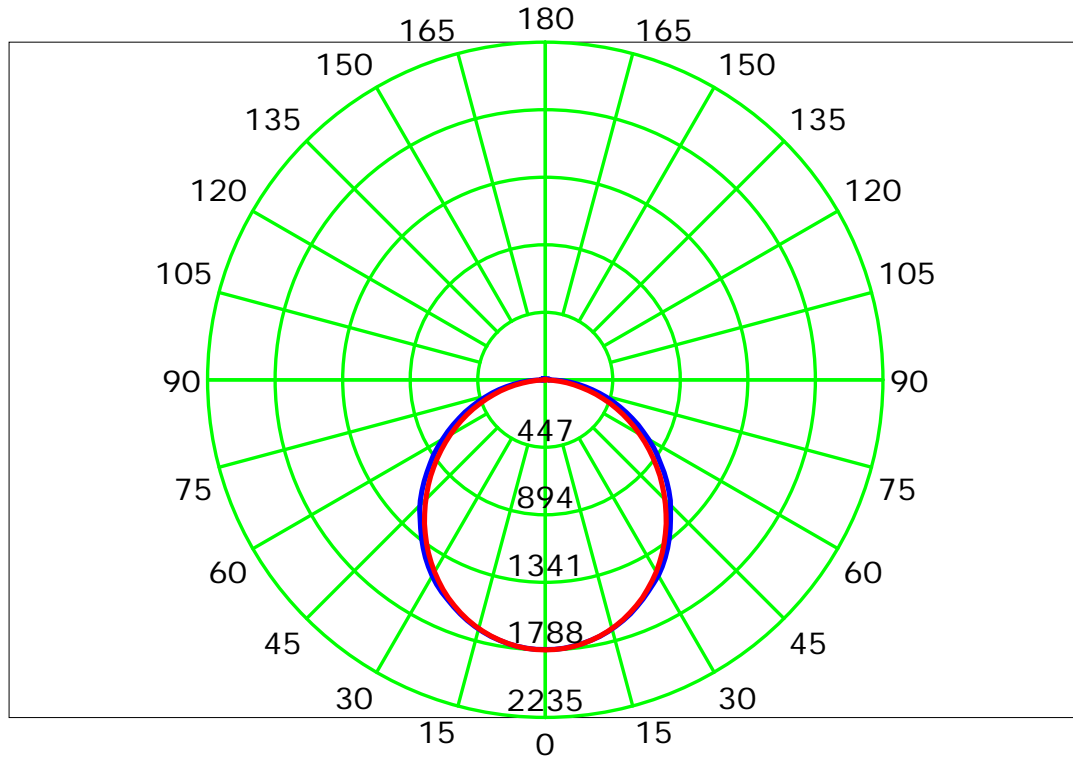
Test Device: LSG-1800B

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

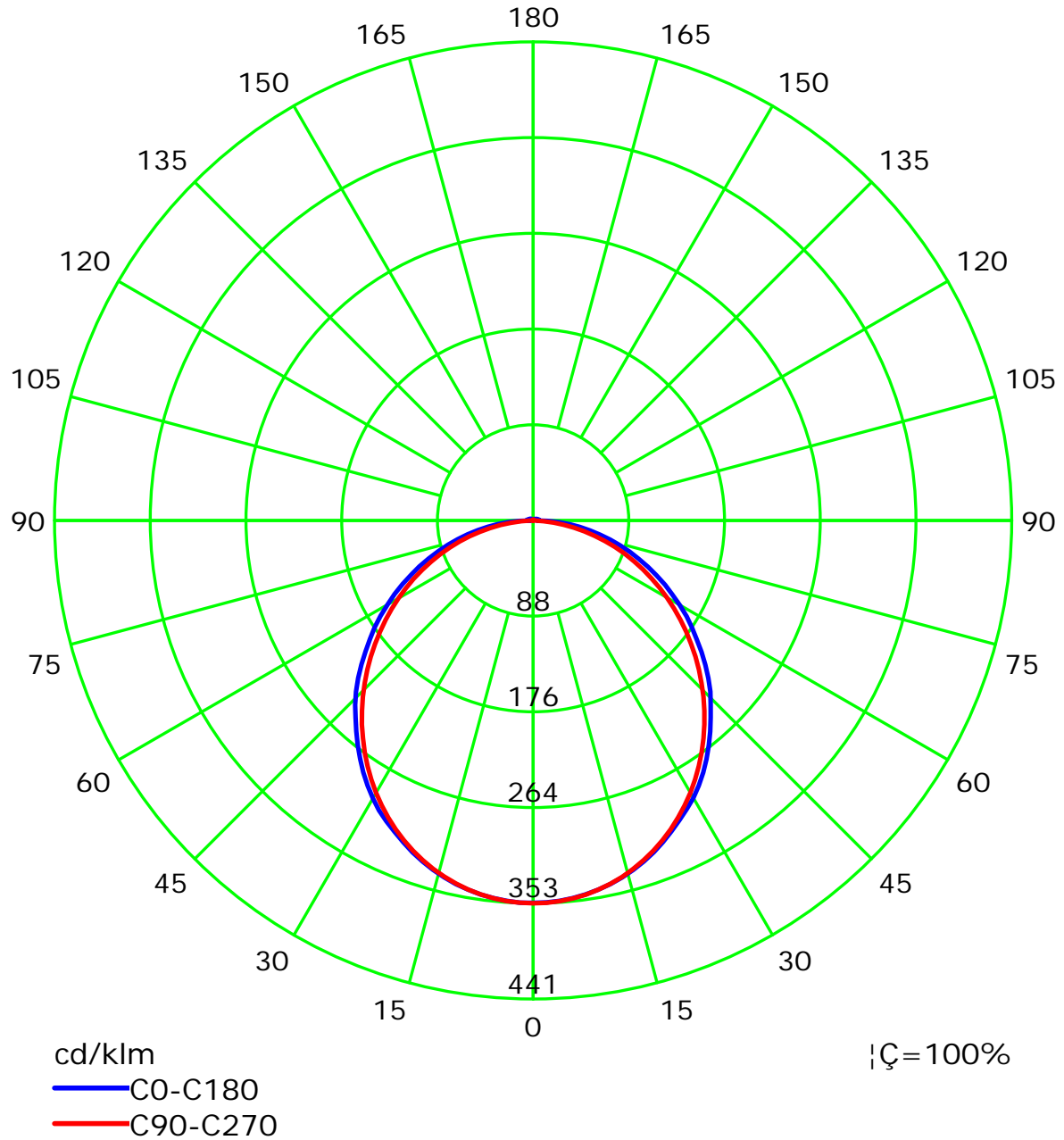
Test Device: LSG-1800B

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

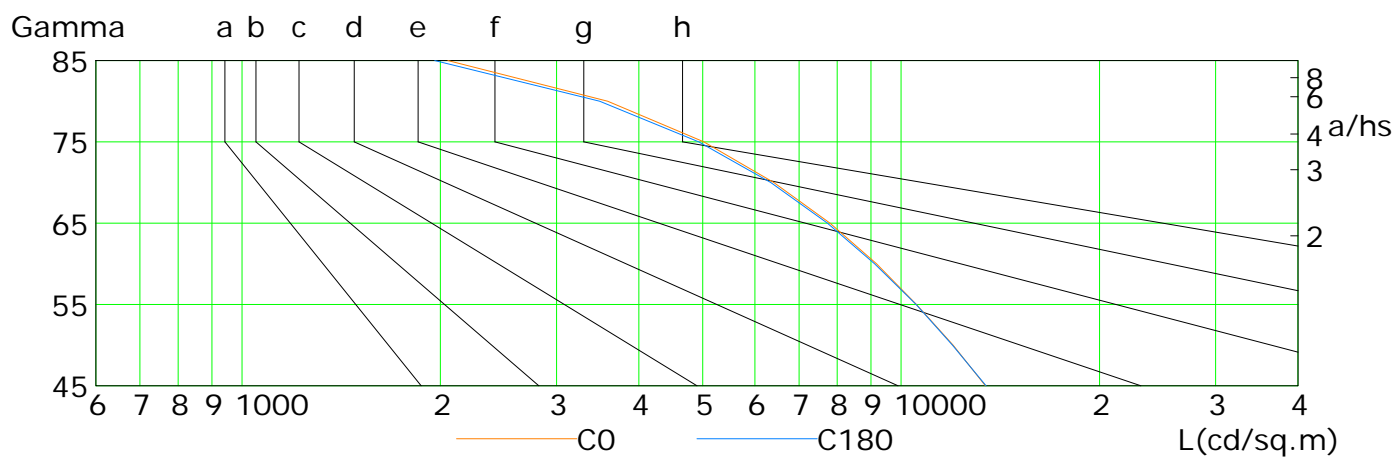
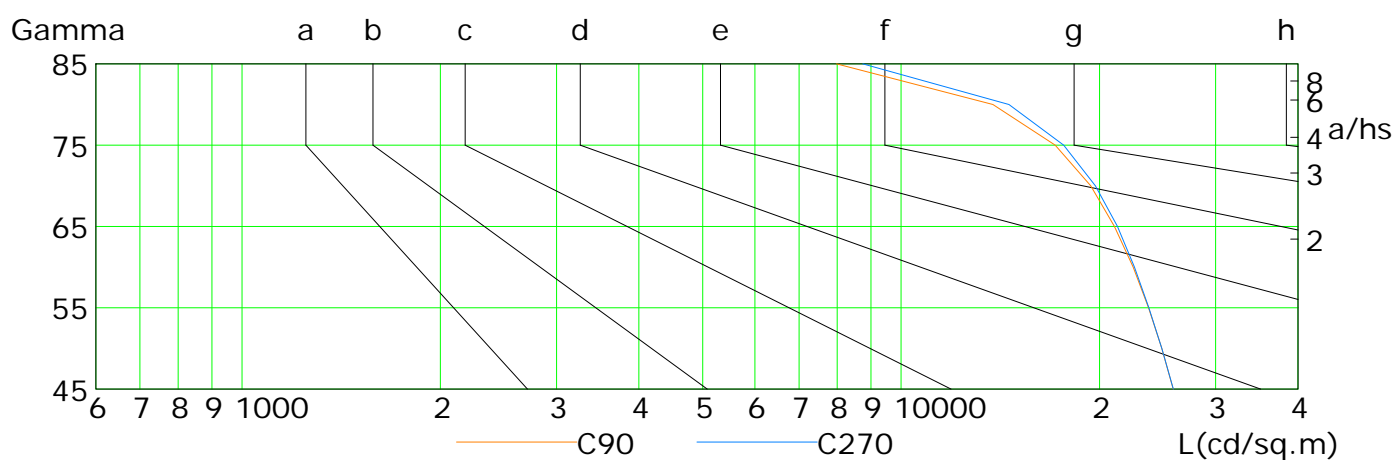
Humidity:

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	13423	11991	10548	9177	7800	6410	5021	3586	2053
C90	25869	24854	23727	22491	21071	19394	17134	13782	7979
C180	13451	11961	10535	9114	7732	6340	4931	3489	1961
C270	25876	24857	23757	22596	21296	19708	17642	14574	8748

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

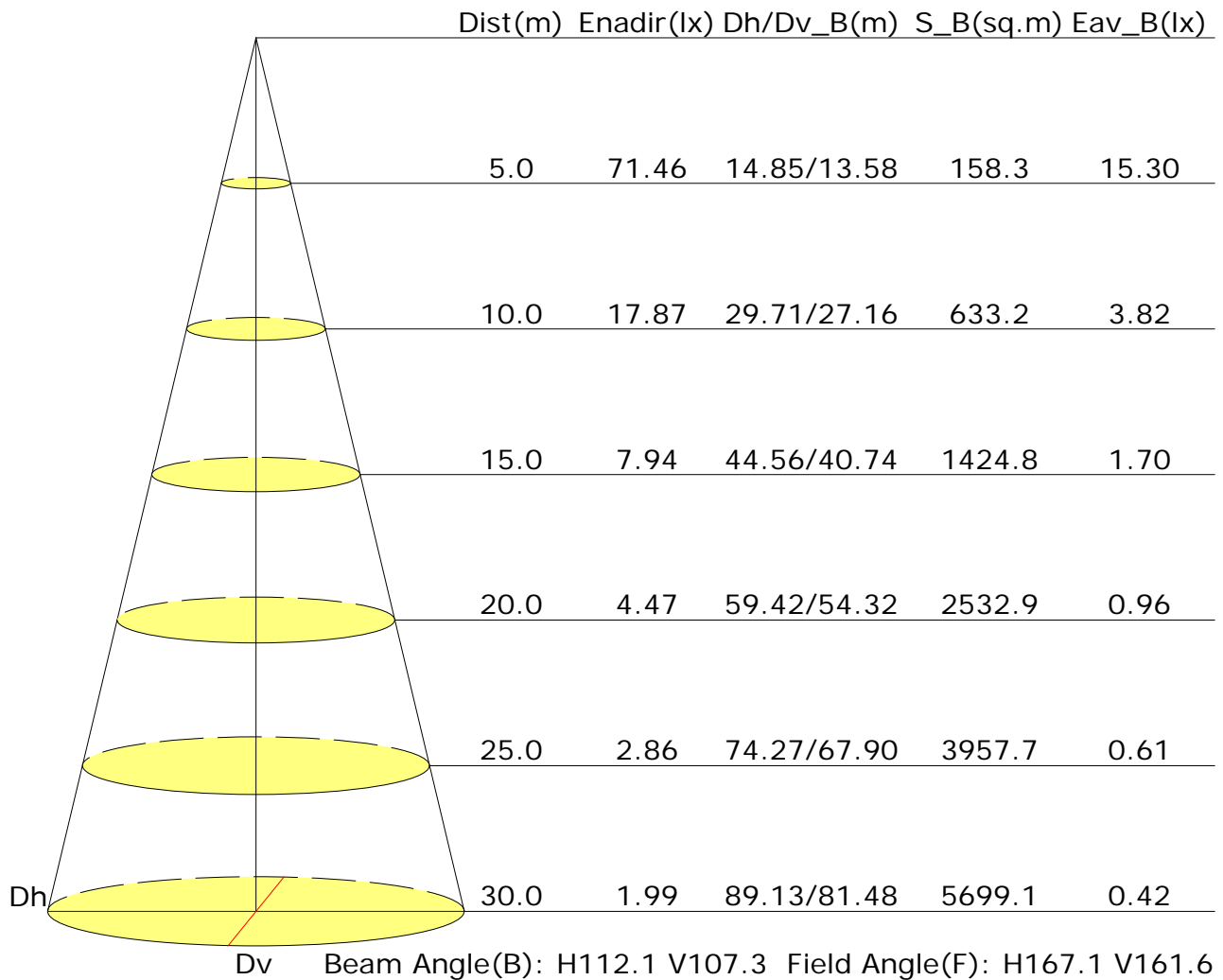
Test Device: LSG-1800B

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	20.9	22.3	21.2	22.5	22.8	22.2	23.6	22.6	23.9	24.1
3H	22.1	23.4	22.4	23.6	23.9	23.7	25.0	24.1	25.3	25.6
4H	22.5	23.7	22.9	24.0	24.4	24.3	25.5	24.7	25.8	26.1
6H	22.8	24.0	23.2	24.3	24.6	24.7	25.8	25.1	26.2	26.5
8H	22.9	24.0	23.3	24.3	24.7	24.8	25.9	25.2	26.2	26.6
12H	23.0	24.0	23.4	24.3	24.7	24.9	25.9	25.3	26.3	26.6
X=4H Y=2H	21.5	22.7	21.9	23.0	23.3	22.6	23.8	23.0	24.1	24.4
3H	22.9	23.9	23.3	24.3	24.6	24.2	25.2	24.6	25.6	25.9
4H	23.4	24.3	23.8	24.7	25.1	24.9	25.8	25.3	26.2	26.6
6H	23.8	24.6	24.3	25.0	25.5	25.4	26.2	25.8	26.6	27.0
8H	23.9	24.7	24.4	25.1	25.5	25.5	26.3	26.0	26.7	27.2
12H	24.0	24.7	24.5	25.1	25.6	25.6	26.3	26.1	26.7	27.2
X=8H Y=4H	23.7	24.4	24.1	24.8	25.3	25.0	25.7	25.4	26.2	26.6
6H	24.1	24.8	24.6	25.2	25.7	25.6	26.2	26.1	26.6	27.1
8H	24.3	24.9	24.8	25.3	25.8	25.8	26.3	26.3	26.8	27.3
12H	24.4	24.9	24.9	25.4	25.9	25.9	26.4	26.4	26.9	27.4
X=12H Y=4H	23.7	24.3	24.1	24.8	25.2	25.0	25.7	25.4	26.1	26.6
6H	24.2	24.7	24.7	25.2	25.7	25.6	26.1	26.1	26.6	27.1
8H	24.4	24.8	24.9	25.3	25.9	25.8	26.3	26.3	26.8	27.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.6				
S=2.0H	+0.6/-1.2					+1.0/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 5063lm ($8\log(F/F_0) = 5.6$).

C Plane (°):0.0-360.0: 22.5

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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	0.56	0.66	0.74	0.79	0.86	0.92	0.95	1.00	1.03	
		0.30	0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
		0.20	0.43	0.53	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
		0.30	0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.95	
		0.20	0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.84	0.88	0.92	0.94	
		0.30	0.47	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
		0.20	0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.40	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating: 49W 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	1.00	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.43	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.38	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.50	0.44	0.38	0.31	0.26	0.23	0.18	0.15	
Rating: 49W 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	0.19	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		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	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	0.16	0.17	0.18	0.19	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	0.08	0.10	0.11	0.13	0.14	0.15	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: 49W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												