

Report No.:

Test Time: 19.06.2020 22:31

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 52W 4000K матовый (opal)

Number of Lamps: 1

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.8 V

Current: 0.247 A

Power: 52.84 W

Power Factor: 0.962

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5398.7 lm

Measurement Flux: 5398.7 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 167.1, 161.0, 162.9, 162.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.2, 107.0, 109.7, 109.8

Luminaire Efficacy Rating (LER): 102.22

Central Intensity: 1906.11 cd

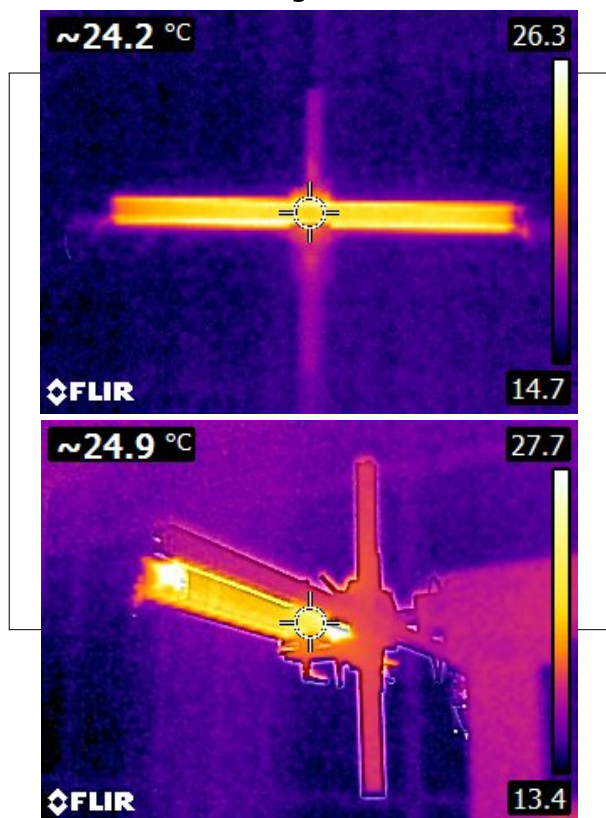
Max. Intensity: 1911.57 cd

Pos of Max. Intensity: H90 V0

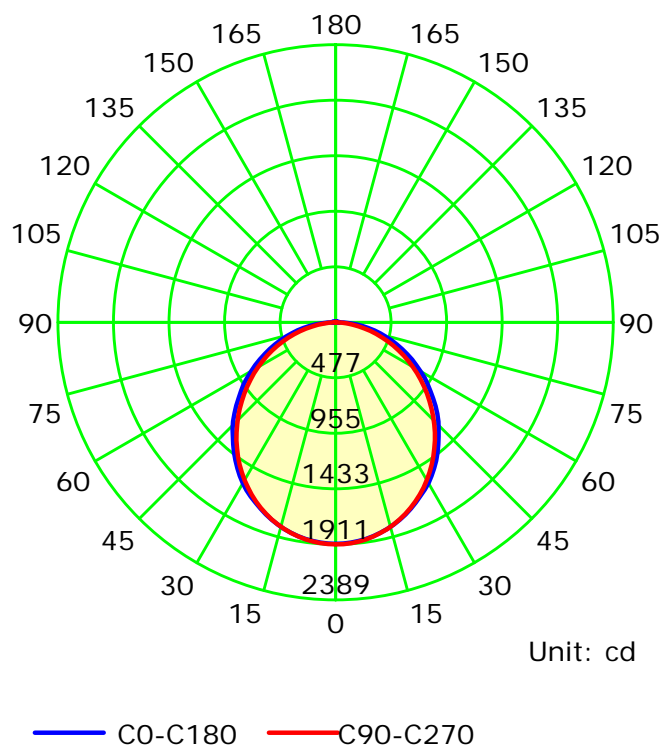
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.22

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

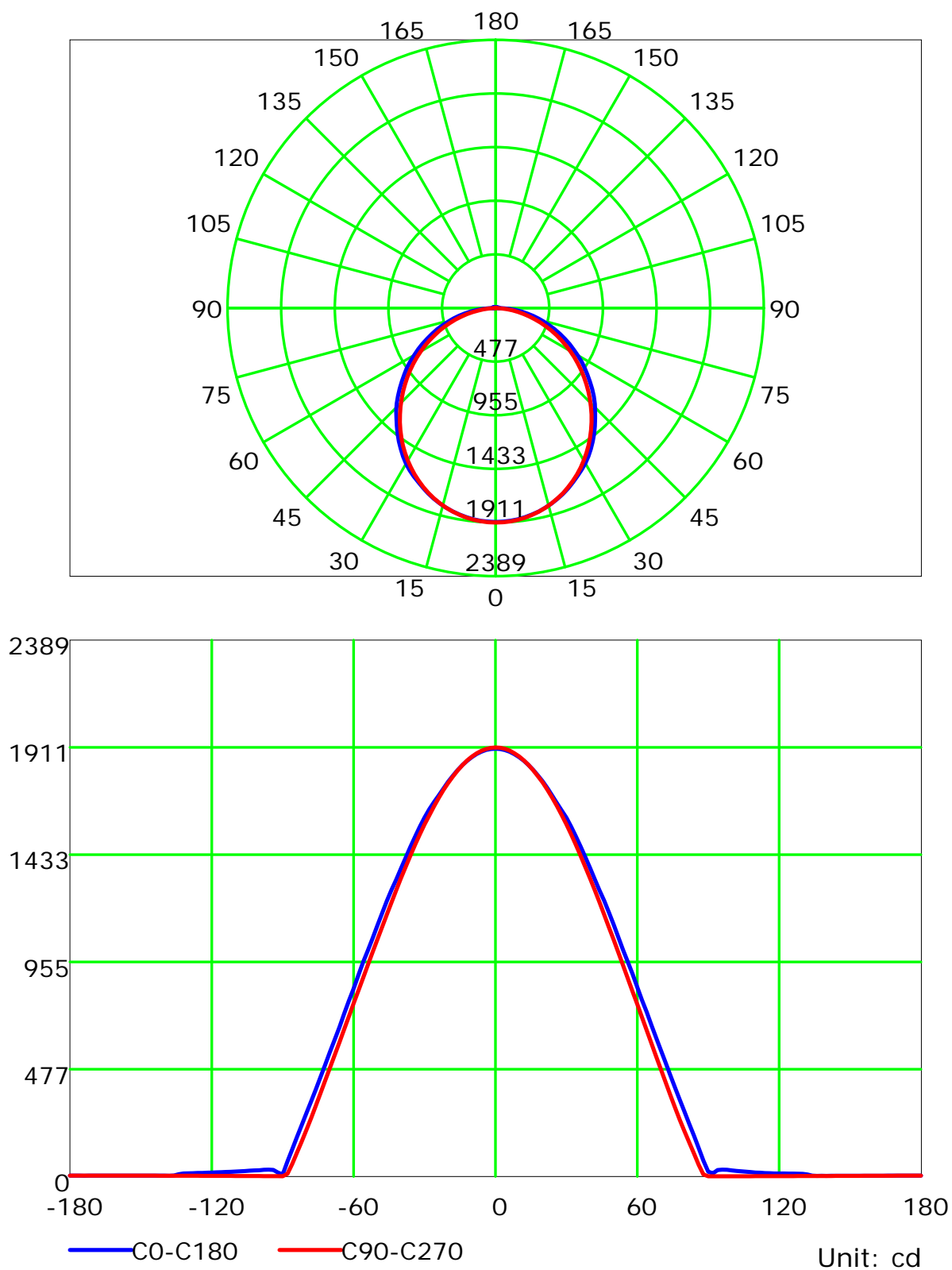
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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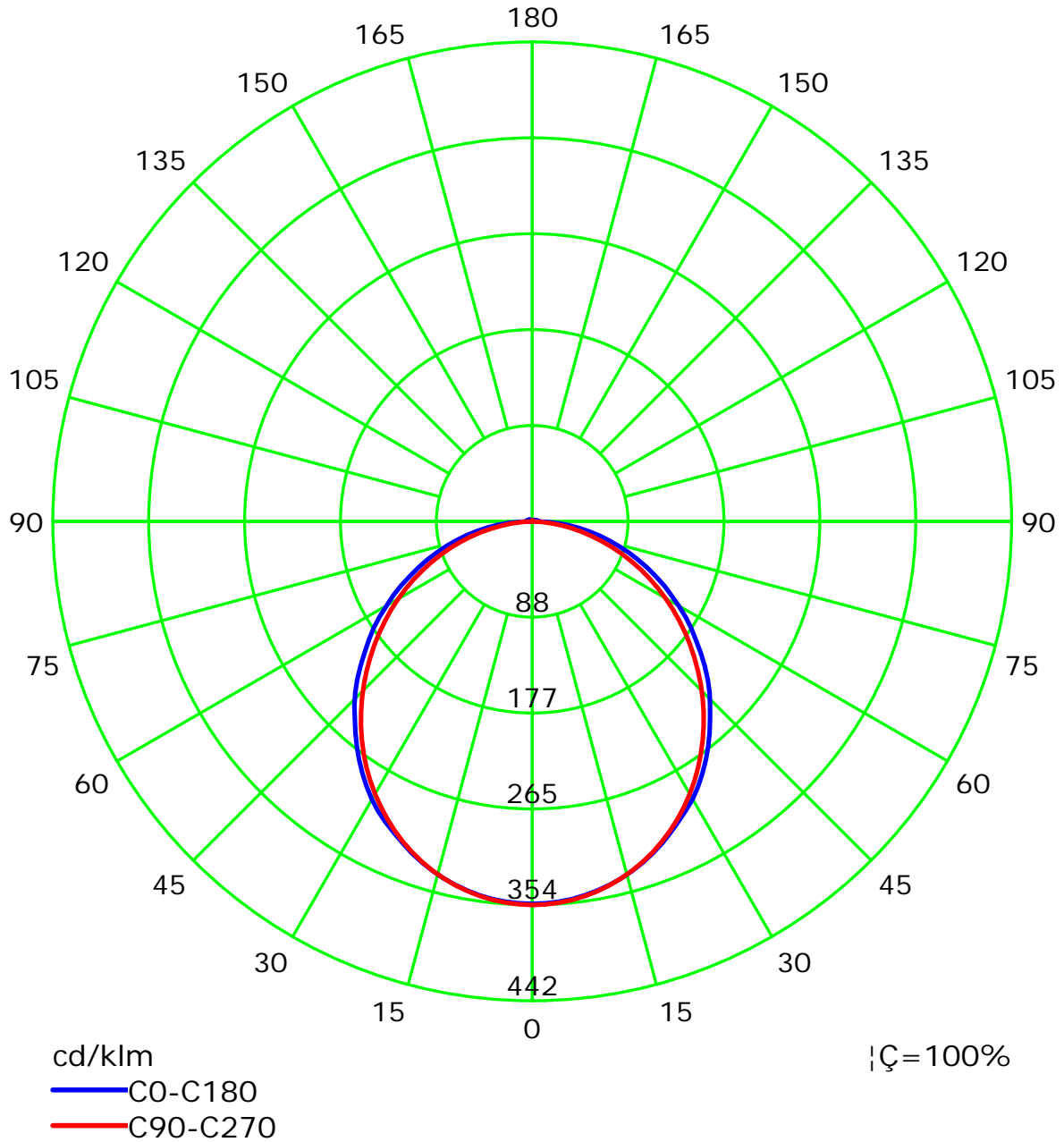
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

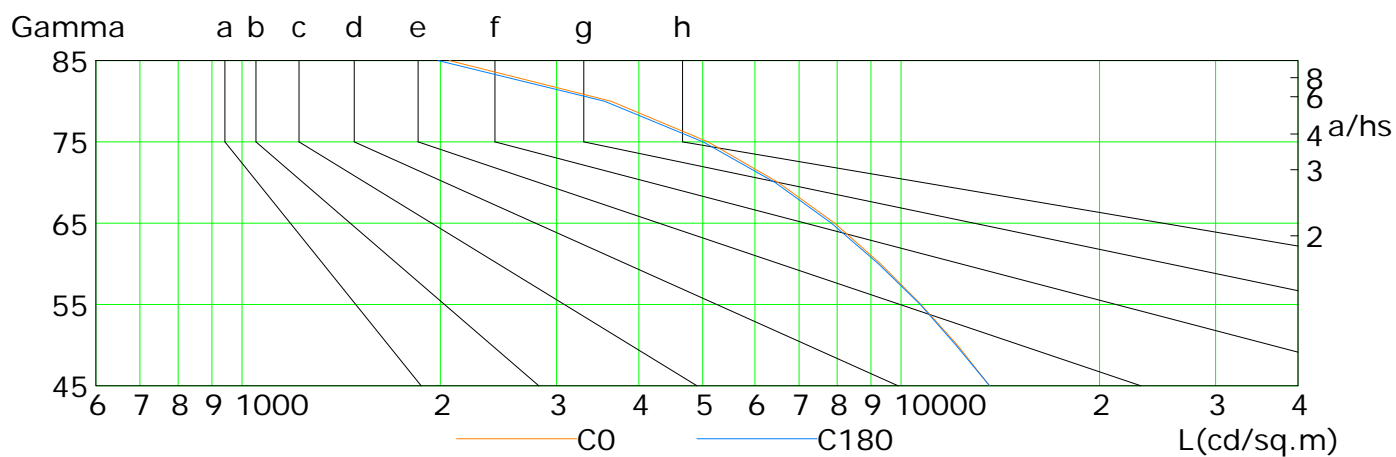
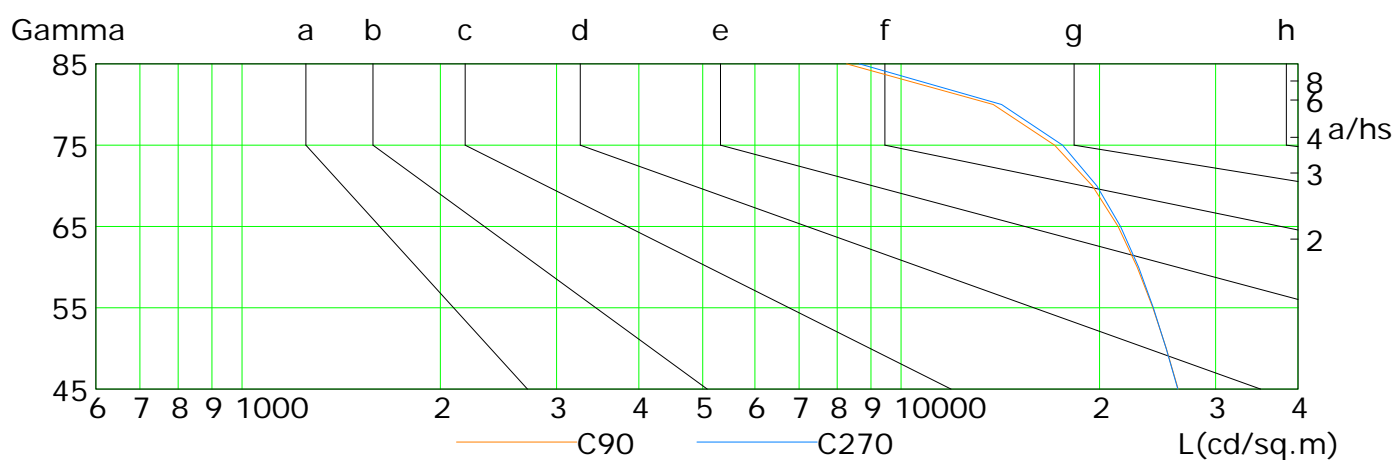
Humidity:

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	13623	12174	10714	9308	7925	6510	5094	3629	2063
C90	26324	25246	24094	22810	21345	19503	17095	13795	8264
C180	13623	12113	10693	9239	7839	6439	5006	3547	1984
C270	26297	25244	24141	22927	21520	19816	17577	14204	8645

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

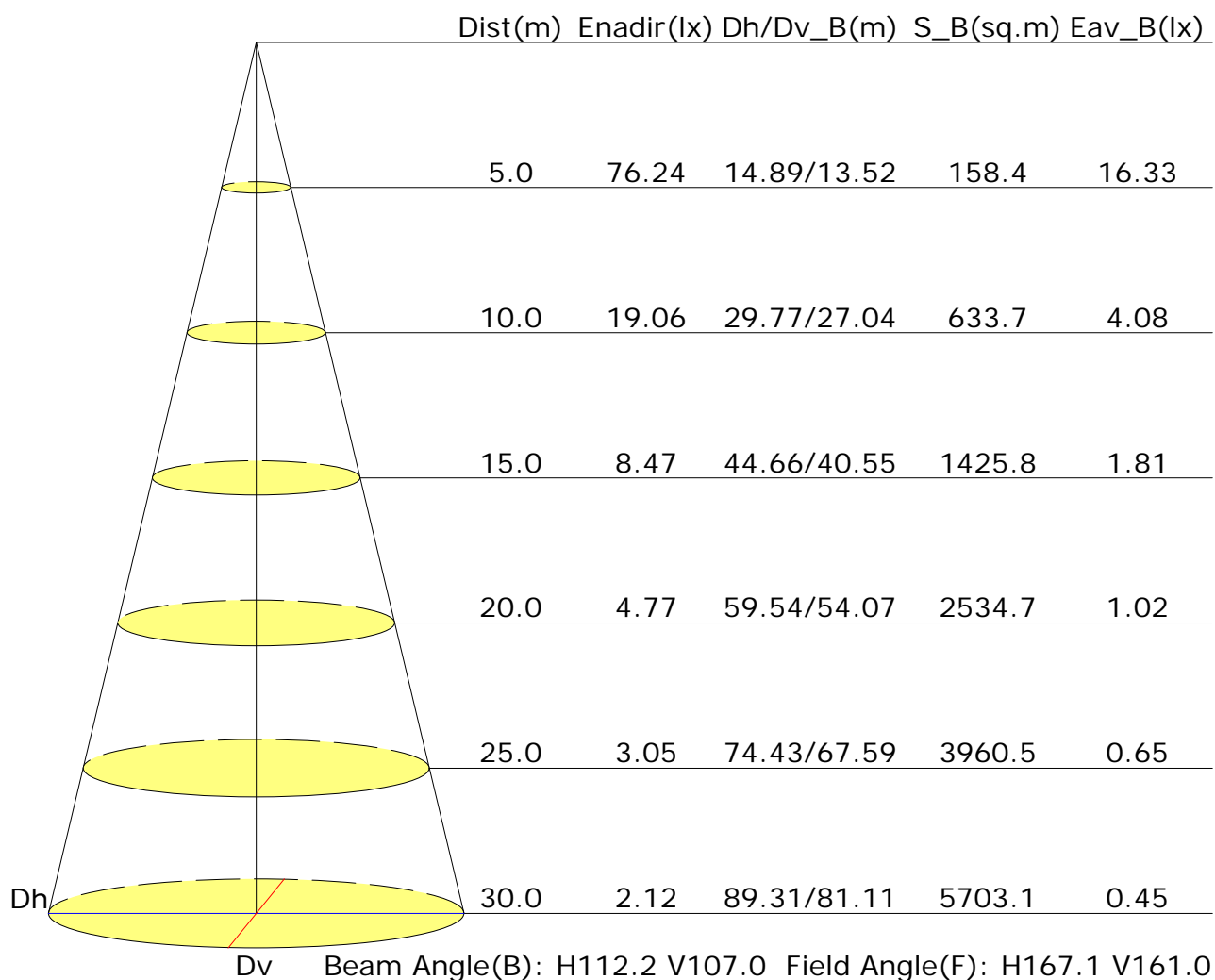
Test Device: LSG-1800B

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	21.0	22.4	21.3	22.6	22.9	22.3	23.7	22.6	23.9	24.2
3H	22.2	23.4	22.5	23.7	24.0	23.8	25.0	24.1	25.3	25.6
4H	22.6	23.8	23.0	24.1	24.4	24.3	25.5	24.7	25.8	26.1
6H	22.9	24.0	23.3	24.3	24.7	24.7	25.8	25.1	26.2	26.5
8H	23.0	24.1	23.4	24.4	24.7	24.8	25.9	25.2	26.2	26.6
12H	23.0	24.1	23.4	24.4	24.8	24.9	25.9	25.3	26.3	26.6
X=4H Y=2H	21.6	22.8	21.9	23.1	23.4	22.7	23.8	23.0	24.2	24.5
3H	22.9	24.0	23.3	24.3	24.7	24.2	25.3	24.6	25.6	26.0
4H	23.5	24.4	23.9	24.8	25.2	24.9	25.8	25.3	26.2	26.6
6H	23.9	24.7	24.3	25.1	25.5	25.4	26.2	25.8	26.6	27.0
8H	24.0	24.8	24.5	25.2	25.6	25.5	26.3	26.0	26.7	27.1
12H	24.1	24.8	24.5	25.2	25.7	25.6	26.3	26.1	26.7	27.2
X=8H Y=4H	23.7	24.5	24.2	24.9	25.3	25.0	25.8	25.5	26.2	26.6
6H	24.2	24.8	24.7	25.3	25.8	25.6	26.2	26.1	26.6	27.1
8H	24.4	24.9	24.9	25.4	25.9	25.8	26.3	26.3	26.8	27.3
12H	24.5	25.0	25.0	25.5	26.0	25.9	26.4	26.4	26.8	27.4
X=12H Y=4H	23.7	24.4	24.2	24.8	25.3	25.0	25.7	25.5	26.1	26.6
6H	24.2	24.8	24.7	25.3	25.8	25.6	26.1	26.1	26.6	27.1
8H	24.4	24.9	24.9	25.4	25.9	25.8	26.3	26.3	26.7	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/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 5399Im ($8\log(F/F_0) = 5.9$).

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	0.56	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.43	0.53	0.61	0.66	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.55	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.58	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	0.85	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: 53W 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	0.49	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	0.30	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	0.23	0.20	
0.30	0.50	0.20	0.94	0.76	0.65	0.57	0.45	0.37	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: 53W 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	0.09	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: 53W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											