

Report No.:

Test Time: 08.06.2020 18:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 4000K 120гр. диод 3Т матовое стекло

Number of Lamps: 1

Lumens per Lamp: 19176.5 lm

Luminous Length (mm): 316 mm

Luminous Width (mm): 316 mm

Luminous Height (mm): 132 mm

Voltage: 221.7 V

Current: 0.697 A

Power: 152.44 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 19176.5 lm

Measurement Flux: 19176.6 lm

Efficiency: 100.00%

Downward Ratio: 99.54%

Upward Ratio: 0.46%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 152.8, 154.7, 154.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.8, 101.6, 101.5, 101.5

Luminaire Efficacy Rating (LER): 125.85

Central Intensity: 7642.87 cd

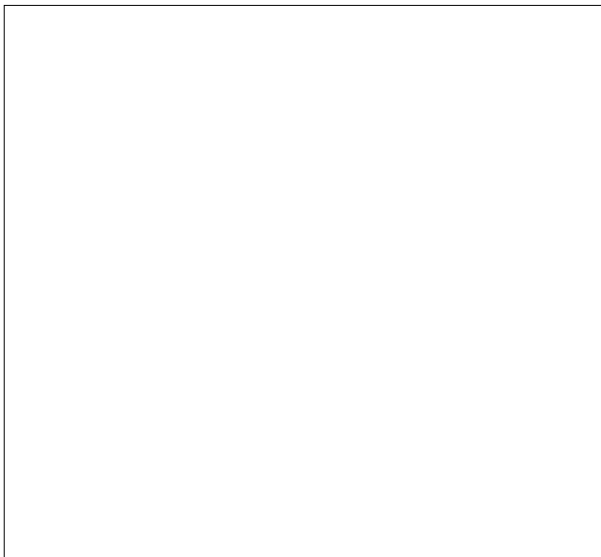
Max. Intensity: 7644.55 cd

Pos of Max. Intensity: H67.5 V0

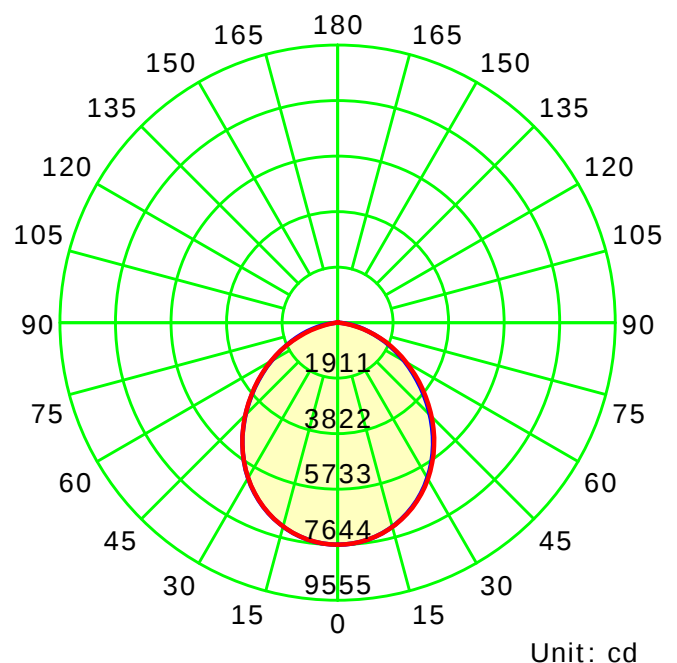
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

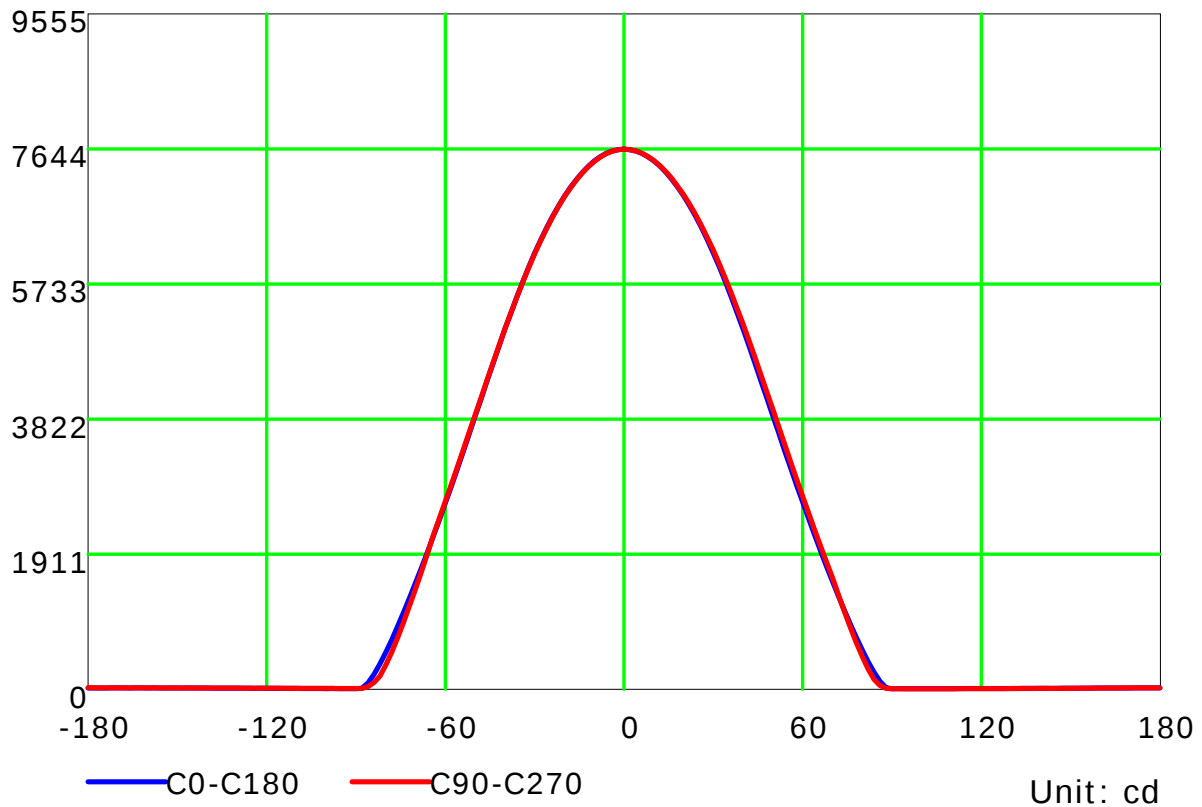
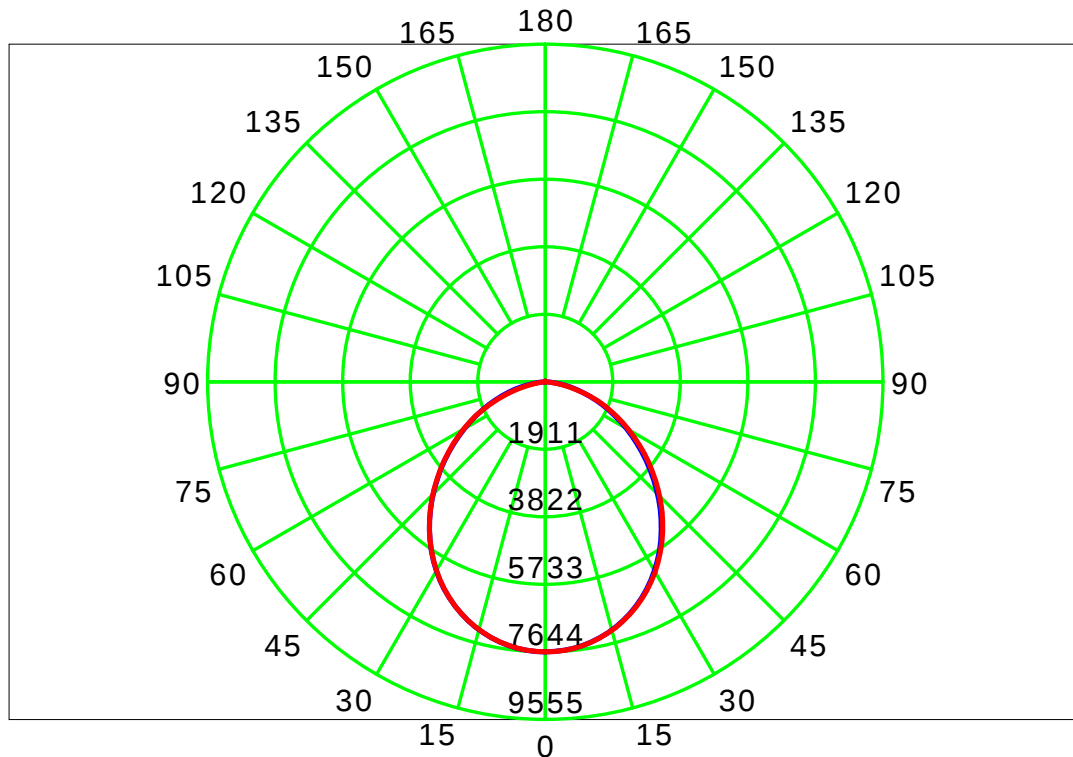
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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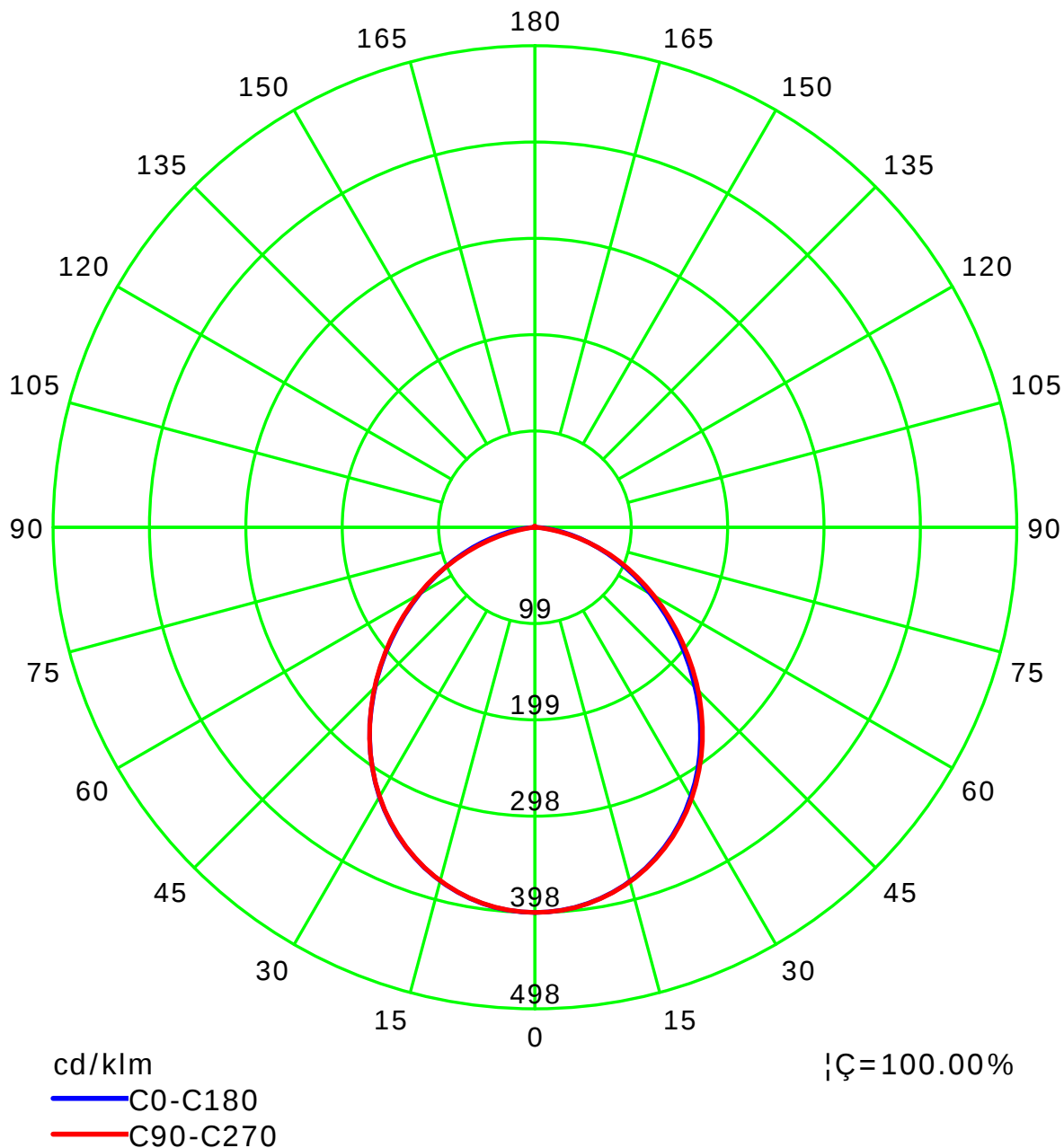
Test Device: LSG-1800B

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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Temperature:

Operator:

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Test Device: LSG-1800B

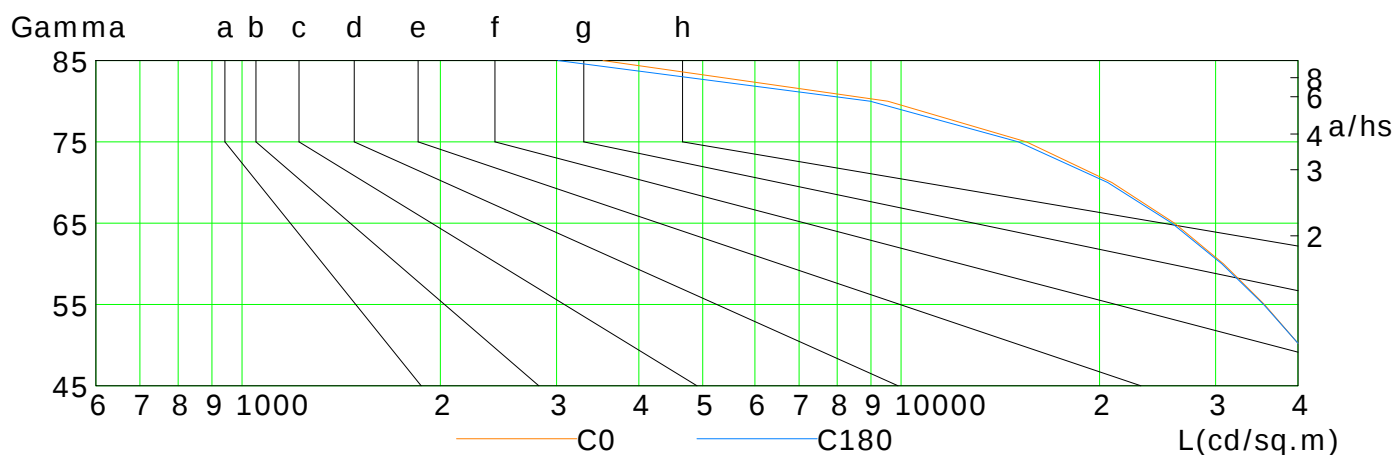
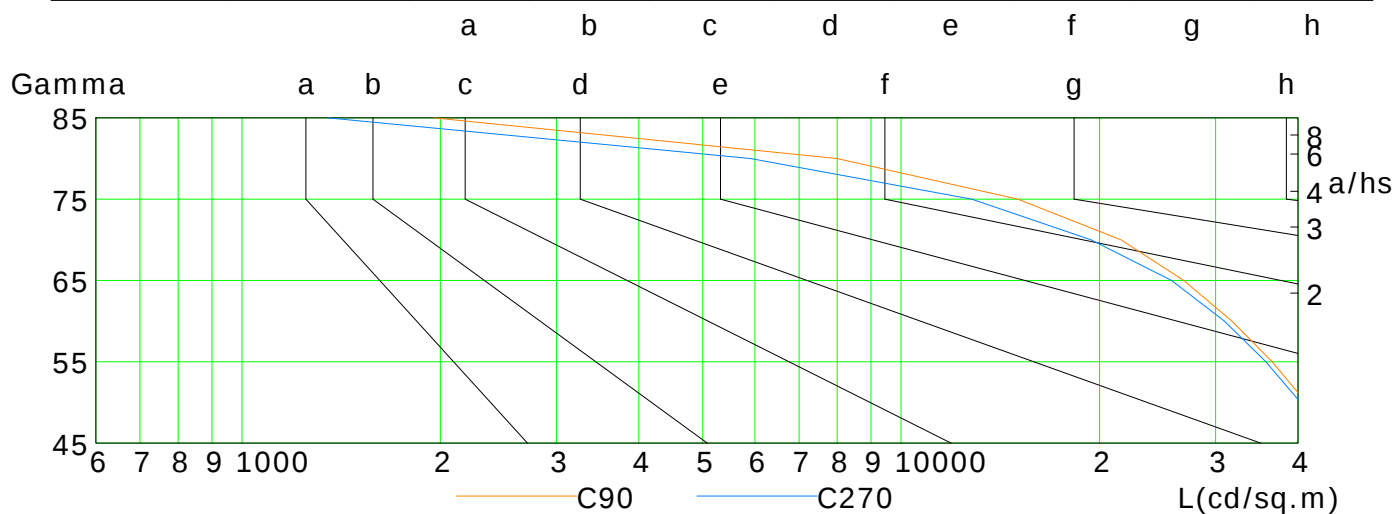
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	44870	40243	35584	30829	25990	20884	15486	9545	3529
C90	45712	41195	36554	31752	26838	21562	15037	7992	1955
C180	44849	40228	35475	30665	25754	20582	15062	8975	3016
C270	44957	40378	35753	30932	25719	19416	12800	5906	1350

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

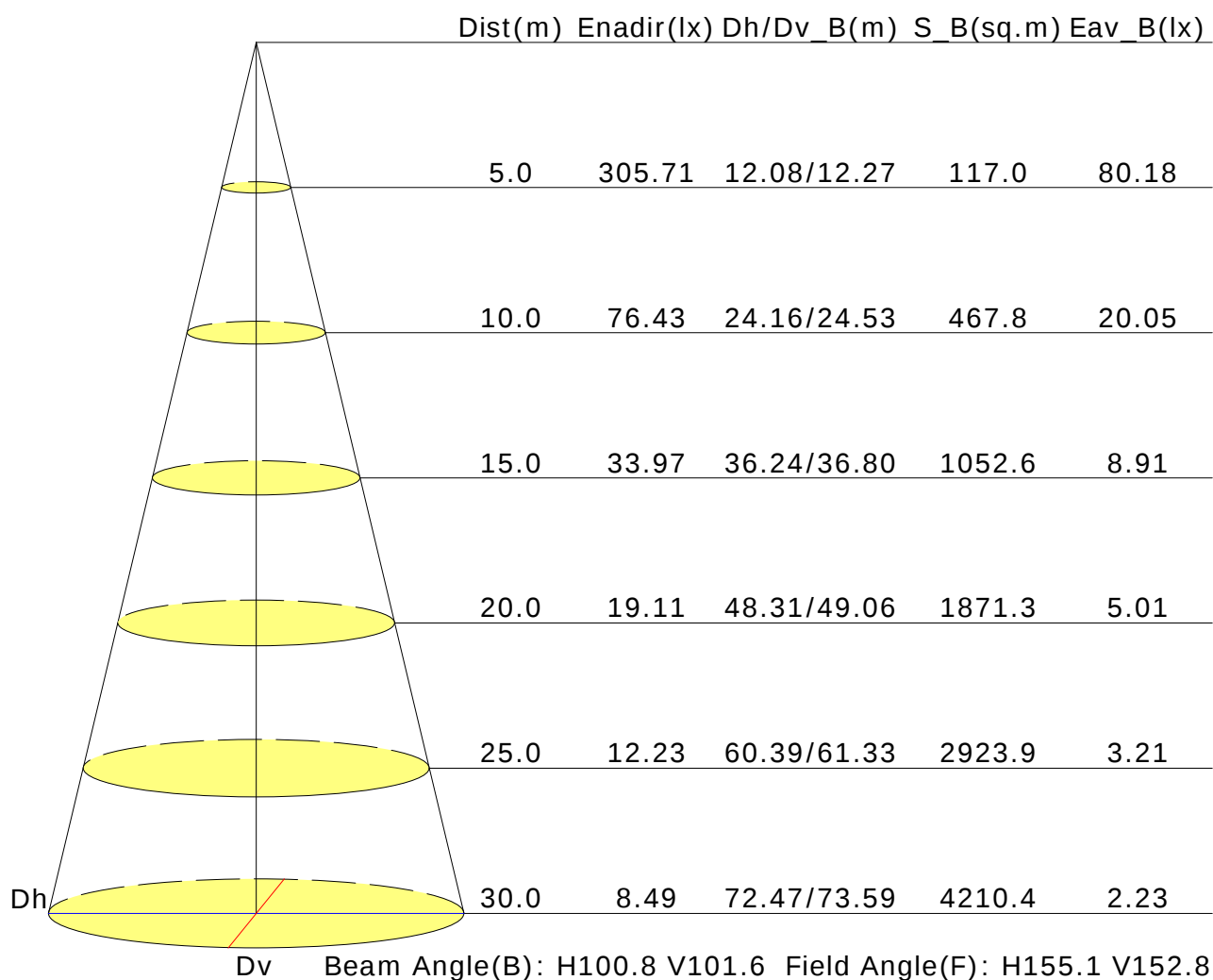
Test Device: LSG-1800B

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	24.6	25.9	24.9	26.1	26.4	24.6	26.0	24.9	26.2	26.5
3H	25.6	26.8	25.9	27.1	27.4	25.6	26.9	26.0	27.1	27.4
4H	25.9	27.1	26.3	27.3	27.7	25.9	27.1	26.3	27.3	27.7
6H	26.1	27.1	26.5	27.5	27.8	26.0	27.1	26.4	27.4	27.7
8H	26.1	27.1	26.5	27.4	27.8	26.0	27.0	26.4	27.3	27.7
12H	26.1	27.1	26.5	27.4	27.7	26.0	26.9	26.3	27.3	27.6
X=4H Y=2H	25.0	26.1	25.4	26.4	26.7	25.1	26.2	25.4	26.5	26.8
3H	26.2	27.2	26.6	27.5	27.8	26.2	27.2	26.6	27.5	27.9
4H	26.6	27.5	27.0	27.8	28.2	26.6	27.4	27.0	27.8	28.2
6H	26.8	27.6	27.3	28.0	28.4	26.7	27.5	27.1	27.9	28.3
8H	26.9	27.6	27.3	28.0	28.4	26.7	27.4	27.2	27.8	28.3
12H	26.9	27.5	27.3	27.9	28.4	26.7	27.3	27.2	27.8	28.2
X=8H Y=4H	26.7	27.4	27.1	27.8	28.2	26.7	27.4	27.1	27.8	28.2
6H	27.0	27.6	27.5	28.0	28.5	26.9	27.4	27.4	27.9	28.4
8H	27.1	27.6	27.6	28.0	28.5	26.9	27.4	27.4	27.9	28.4
12H	27.1	27.5	27.6	28.0	28.5	26.9	27.3	27.4	27.8	28.3
X=12H Y=4H	26.7	27.3	27.1	27.7	28.2	26.7	27.3	27.1	27.7	28.2
6H	27.0	27.5	27.5	28.0	28.5	26.9	27.4	27.4	27.8	28.3
8H	27.1	27.5	27.6	28.0	28.5	26.9	27.3	27.4	27.8	28.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.8				
S=2.0H	+0.9/-1.4					+0.9/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 19177lm ($8\log(F/F_0) = 10.3$).

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Temperature:

Operator:

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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	0.60	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.52	0.63	0.70	0.76	0.83	0.89	0.93	0.98	1.01	
	0.20		0.47	0.57	0.65	0.70	0.79	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.58	0.68	0.75	0.79	0.86	0.91	0.94	0.98	1.00	
	0.30		0.51	0.61	0.69	0.74	0.81	0.86	0.90	0.95	0.97	
	0.20		0.46	0.56	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.56	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.96	
	0.30		0.50	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.94	
	0.20		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.44	0.53	0.60	0.65	0.72	0.77	0.80	0.85	0.87	
Rating:152W 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	0.95	0.78	0.66	0.57	0.45	0.37	0.32	0.24	0.20	
	0.30		0.79	0.67	0.57	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.32	0.27	0.22	0.18	
0.50	0.50	0.20	0.92	0.75	0.63	0.55	0.43	0.39	0.30	0.23	0.19	
	0.30		0.78	0.65	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.67	0.57	0.50	0.44	0.36	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.89	0.72	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.66	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.56	0.46	0.40	0.34	0.28	0.23	0.19	0.15	0.12	
Rating:152W 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	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	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	0.16	0.17	0.18	0.18	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	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	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:152W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												