

Report No.:

Test Time: 08.06.2020 18:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 5000K 120гр. диод 3Т матовое стекло с БАП

Luminous Length (mm): 316

Luminous Width (mm): 316

Luminous Height (mm): 132

Voltage: 221.8 V

Current: 0.695 A

Power: 152.44 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 20365.9 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 20365.9 lm

Efficiency: 100%

Upward Ratio: 0%

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): 133.65

Central Intensity: 8116.9 cd

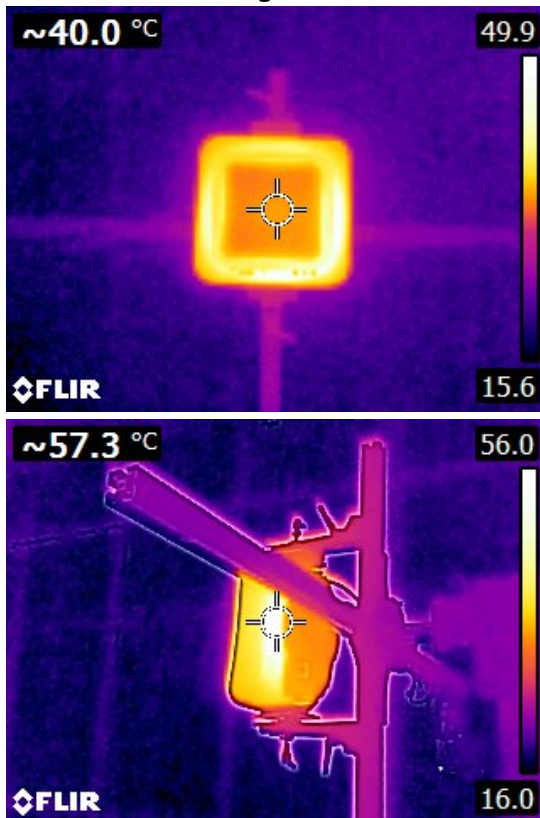
Max. Intensity: 8118.67 cd

Pos of Max. Intensity: H67.5 V0

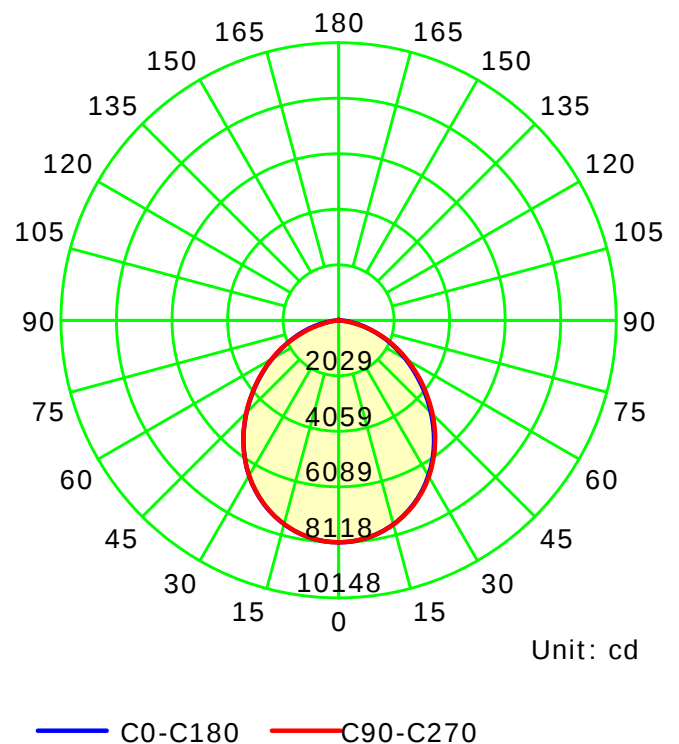
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.21

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

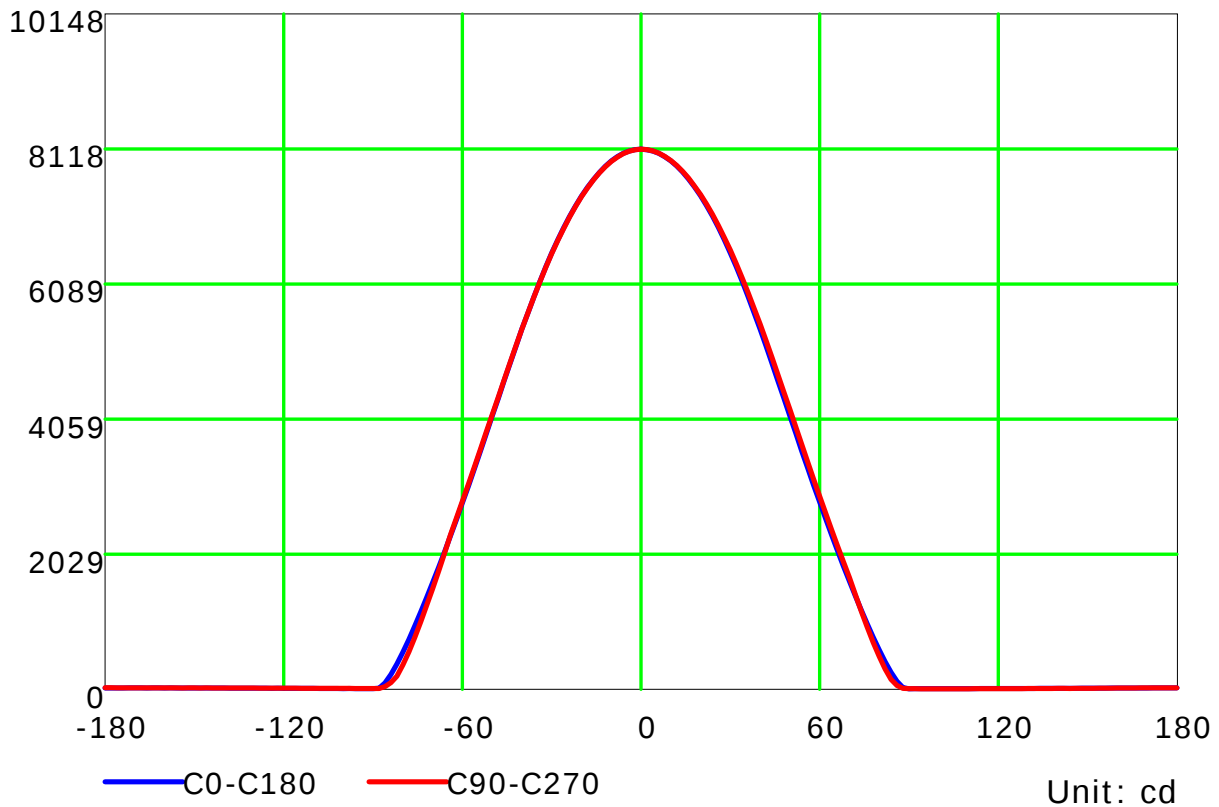
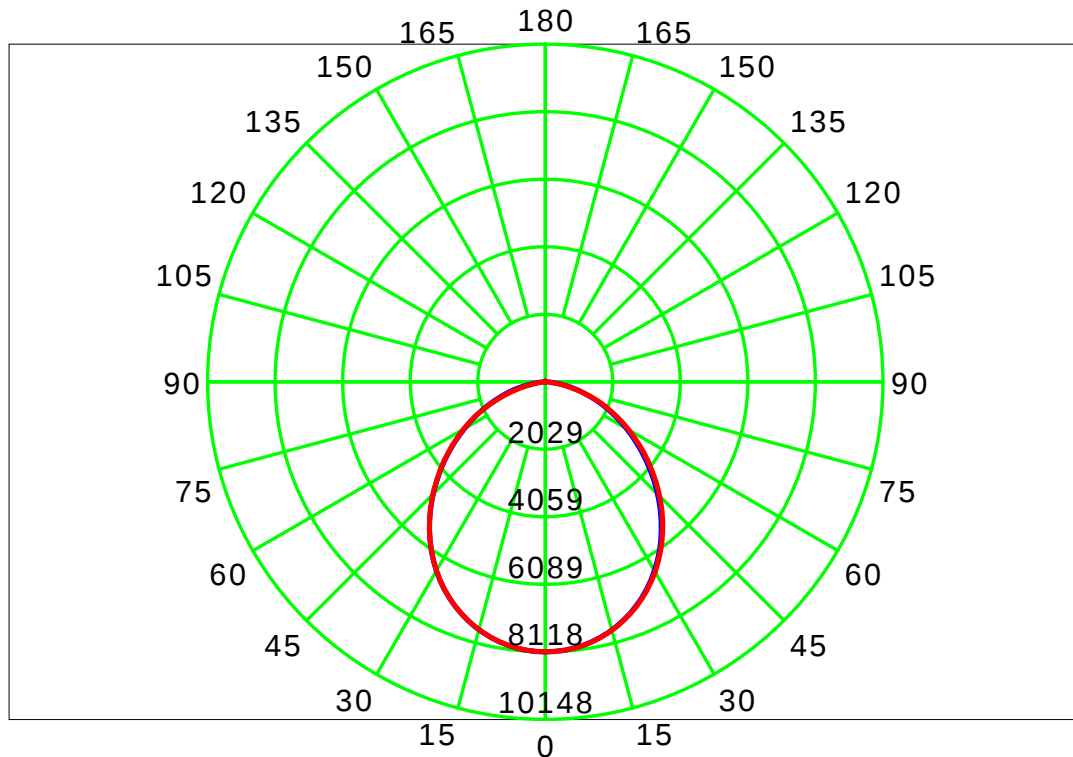
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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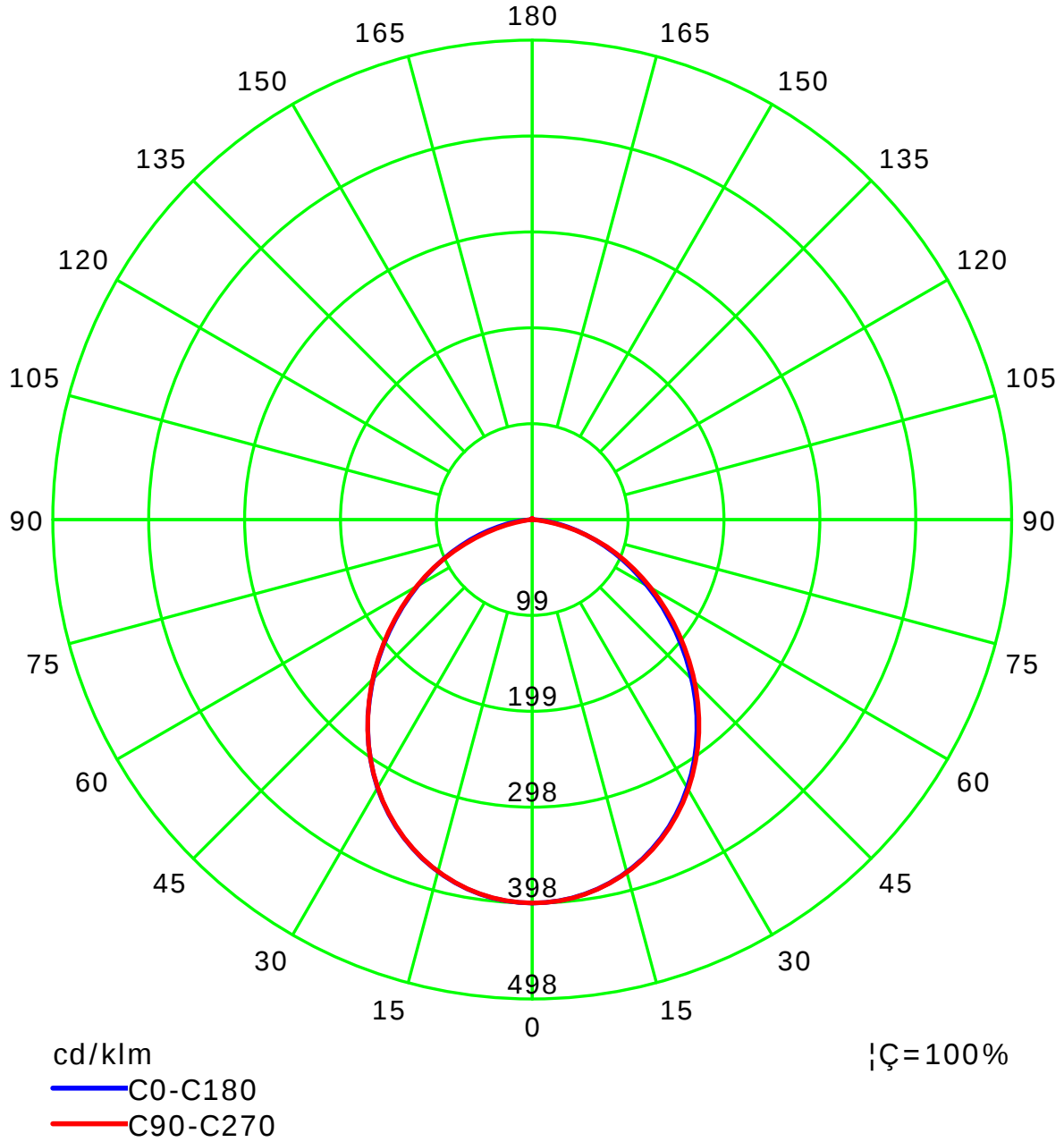
Test Device: LSG-1800B

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:

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Test Device: LSG-1800B

Distance: 12.677 m

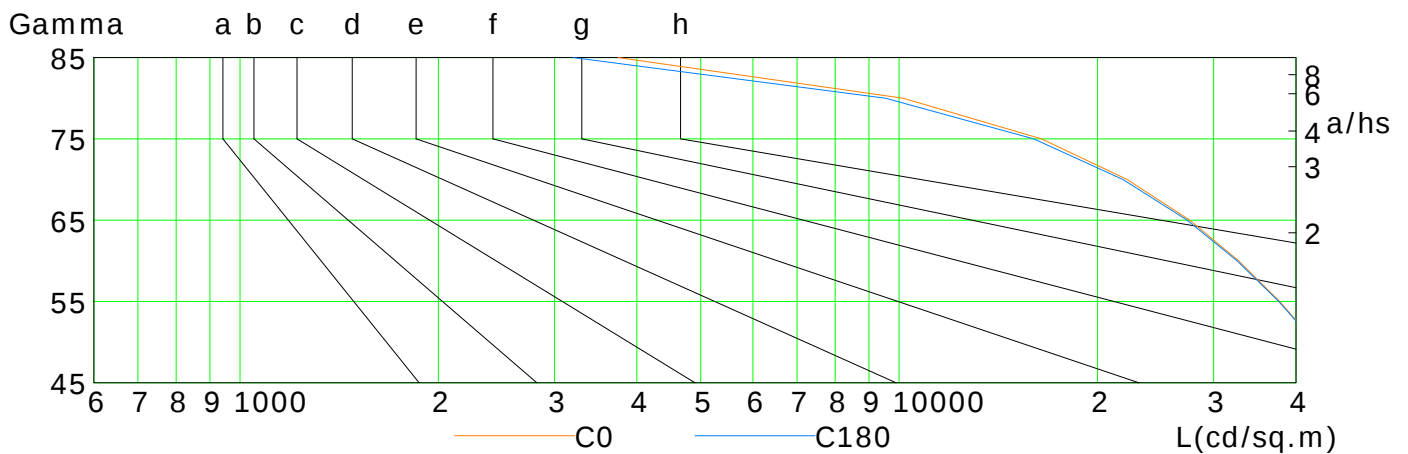
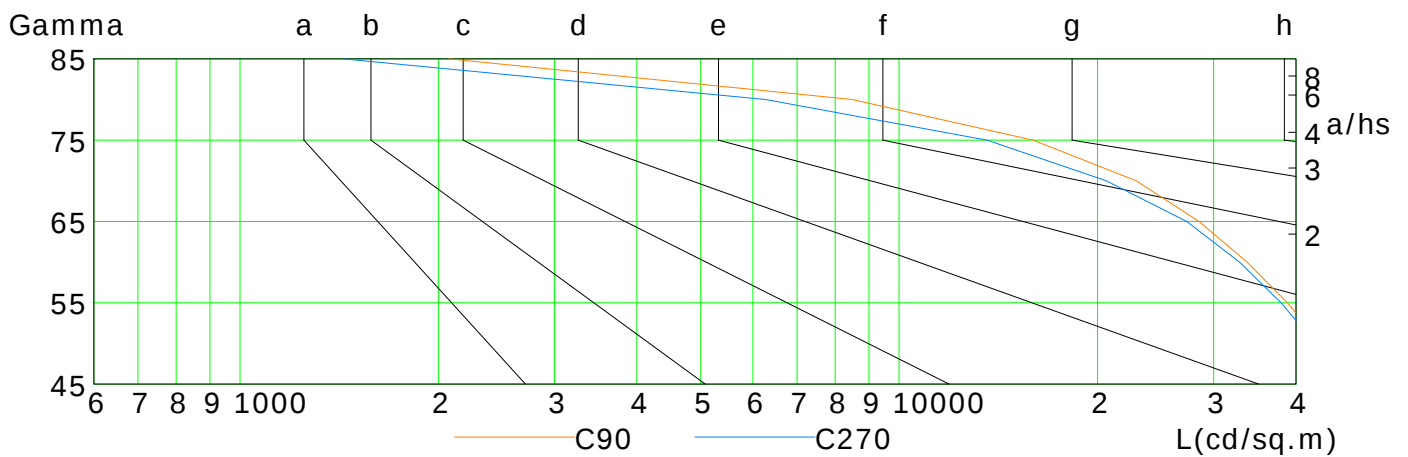
Humidity:

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	47652	42739	37791	32741	27602	22180	16447	10137	3748
C90	48548	43750	38821	33721	28503	22899	15970	8487	2076
C180	47630	42723	37675	32567	27352	21858	15997	9532	3202
C270	47745	42883	37970	32851	27315	20620	13594	6272	1434

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

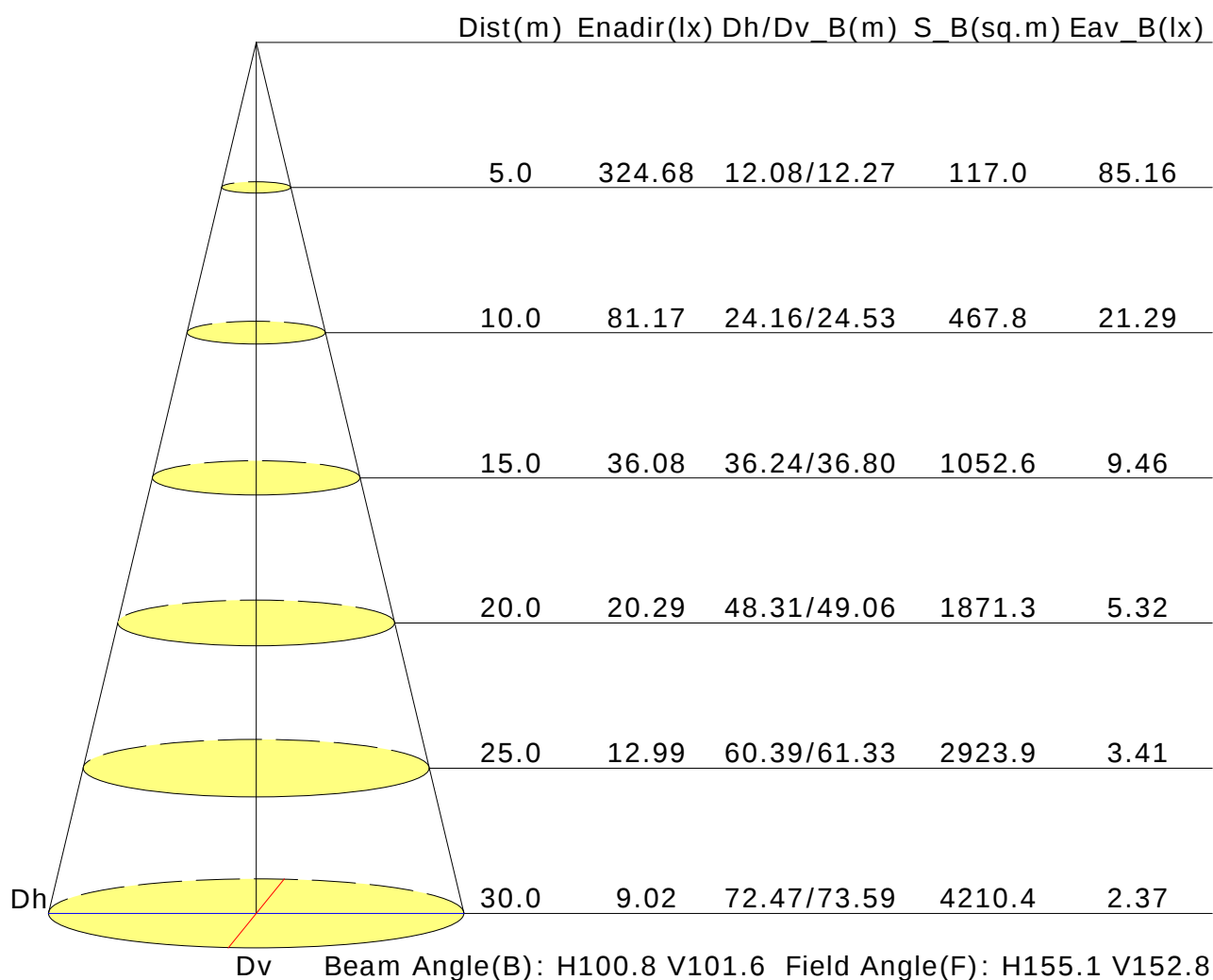
Test Device: LSG-1800B

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	24.8	26.1	25.1	26.3	26.6	24.9	26.2	25.2	26.4	26.7
3H	25.8	27.0	26.1	27.3	27.6	25.9	27.1	26.2	27.3	27.6
4H	26.1	27.3	26.5	27.6	27.9	26.1	27.3	26.5	27.6	27.9
6H	26.3	27.3	26.7	27.7	28.0	26.2	27.3	26.6	27.6	27.9
8H	26.3	27.3	26.7	27.7	28.0	26.2	27.2	26.6	27.5	27.9
12H	26.3	27.3	26.7	27.6	28.0	26.2	27.1	26.6	27.5	27.8
X=4H Y=2H	25.2	26.3	25.6	26.6	26.9	25.3	26.4	25.6	26.7	27.0
3H	26.4	27.4	26.8	27.7	28.0	26.4	27.4	26.8	27.7	28.1
4H	26.8	27.7	27.2	28.0	28.4	26.8	27.7	27.2	28.0	28.4
6H	27.0	27.8	27.5	28.2	28.6	26.9	27.7	27.4	28.1	28.5
8H	27.1	27.8	27.5	28.2	28.6	26.9	27.6	27.4	28.0	28.5
12H	27.1	27.7	27.5	28.1	28.6	26.9	27.5	27.4	28.0	28.4
X=8H Y=4H	26.9	27.6	27.4	28.0	28.5	26.9	27.6	27.3	28.0	28.4
6H	27.2	27.8	27.7	28.2	28.7	27.1	27.7	27.6	28.1	28.6
8H	27.3	27.8	27.8	28.2	28.7	27.1	27.6	27.6	28.1	28.6
12H	27.3	27.7	27.8	28.2	28.7	27.1	27.5	27.6	28.0	28.5
X=12H Y=4H	26.9	27.5	27.4	28.0	28.4	26.9	27.5	27.3	27.9	28.4
6H	27.2	27.7	27.7	28.2	28.7	27.1	27.6	27.6	28.0	28.5
8H	27.3	27.7	27.8	28.2	28.7	27.1	27.5	27.6	28.0	28.5
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 20366lm ($8\log(F/F_0) = 10.5$).

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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												