

Report No.:

Test Time: 08.06.2020 21:57

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 5000K 120гр. диод 3Т матовое стекло

Luminous Length (mm): 364

Luminous Width (mm): 364

Luminous Height (mm): 138

Voltage: 221.7 V

Current: 0.899 A

Power: 198.22 W

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Measurement Flux: 26821.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 26821.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.9, 153.7, 155.5, 155.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.1, 102.1, 102.3, 102.3

Luminaire Efficacy Rating (LER): 135.36

Central Intensity: 10584.45 cd

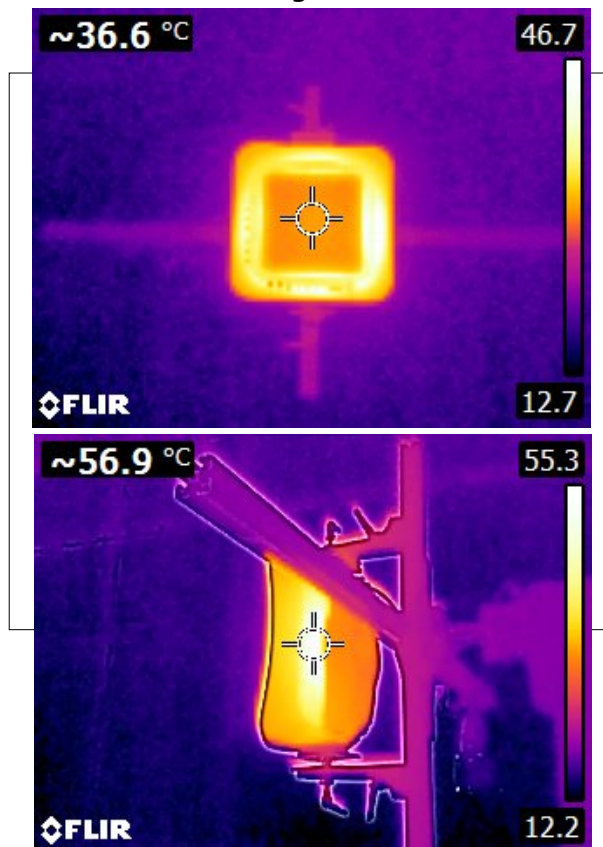
Max. Intensity: 10588.59 cd

Pos of Max. Intensity: H45 V0

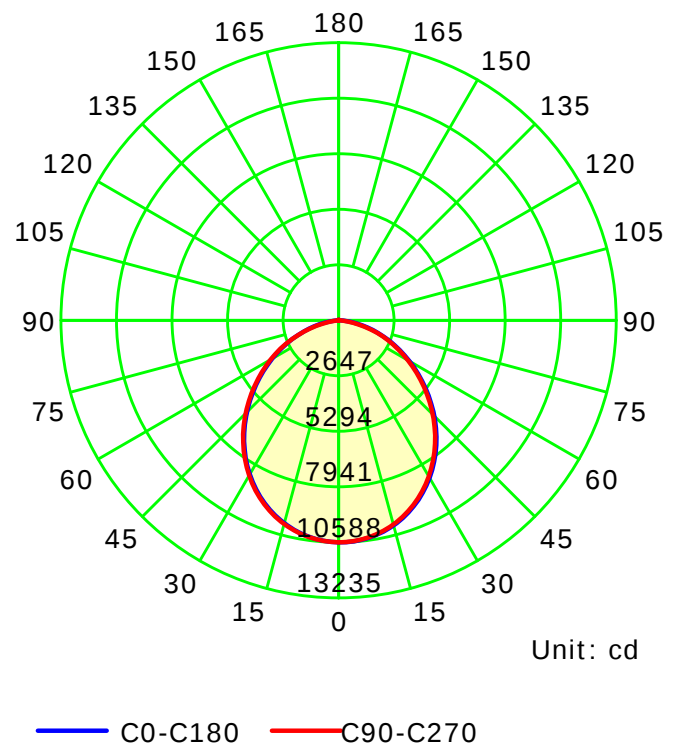
S/MH(C0/C180): 1.21

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

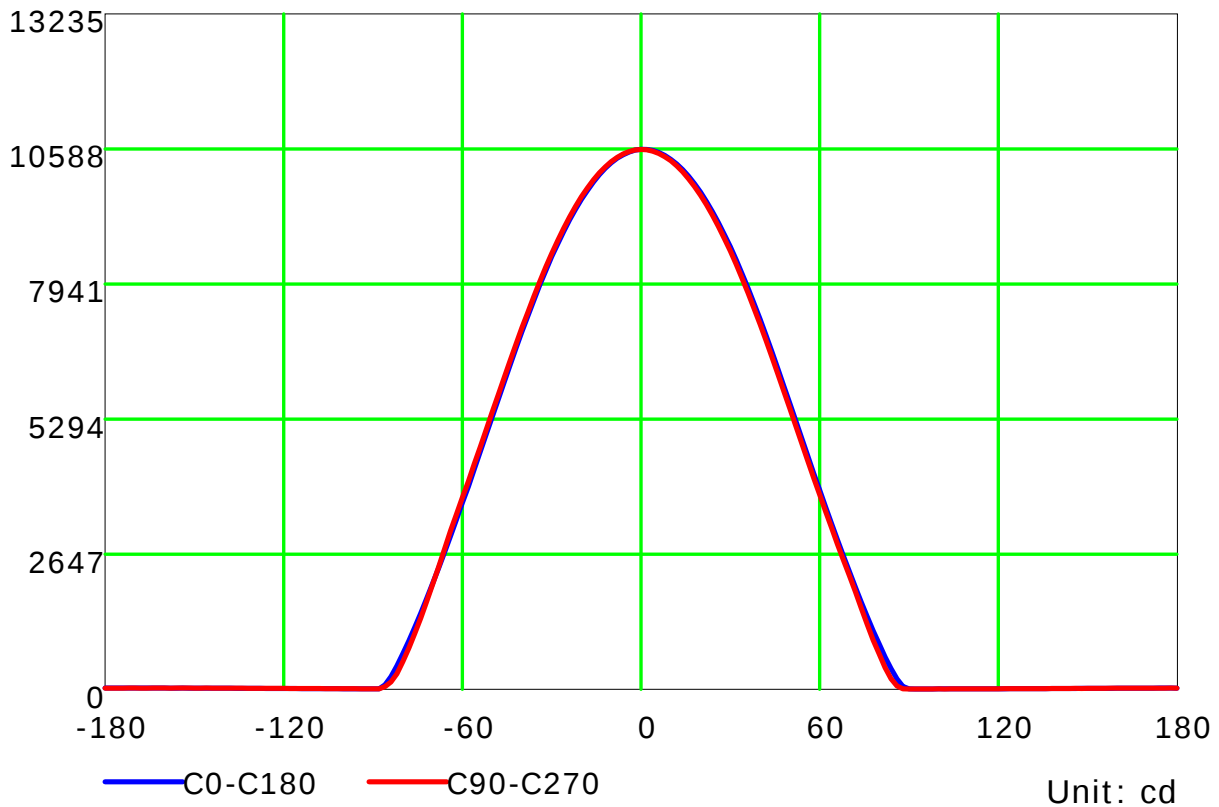
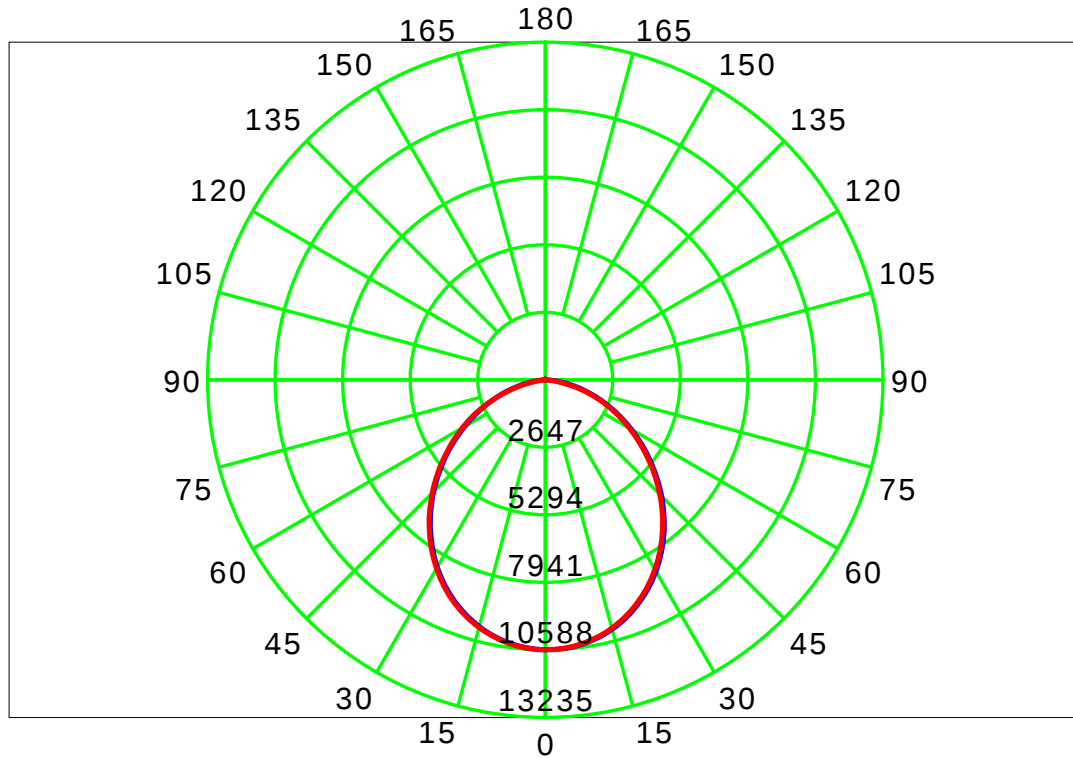
Test Device: LSG-1800B

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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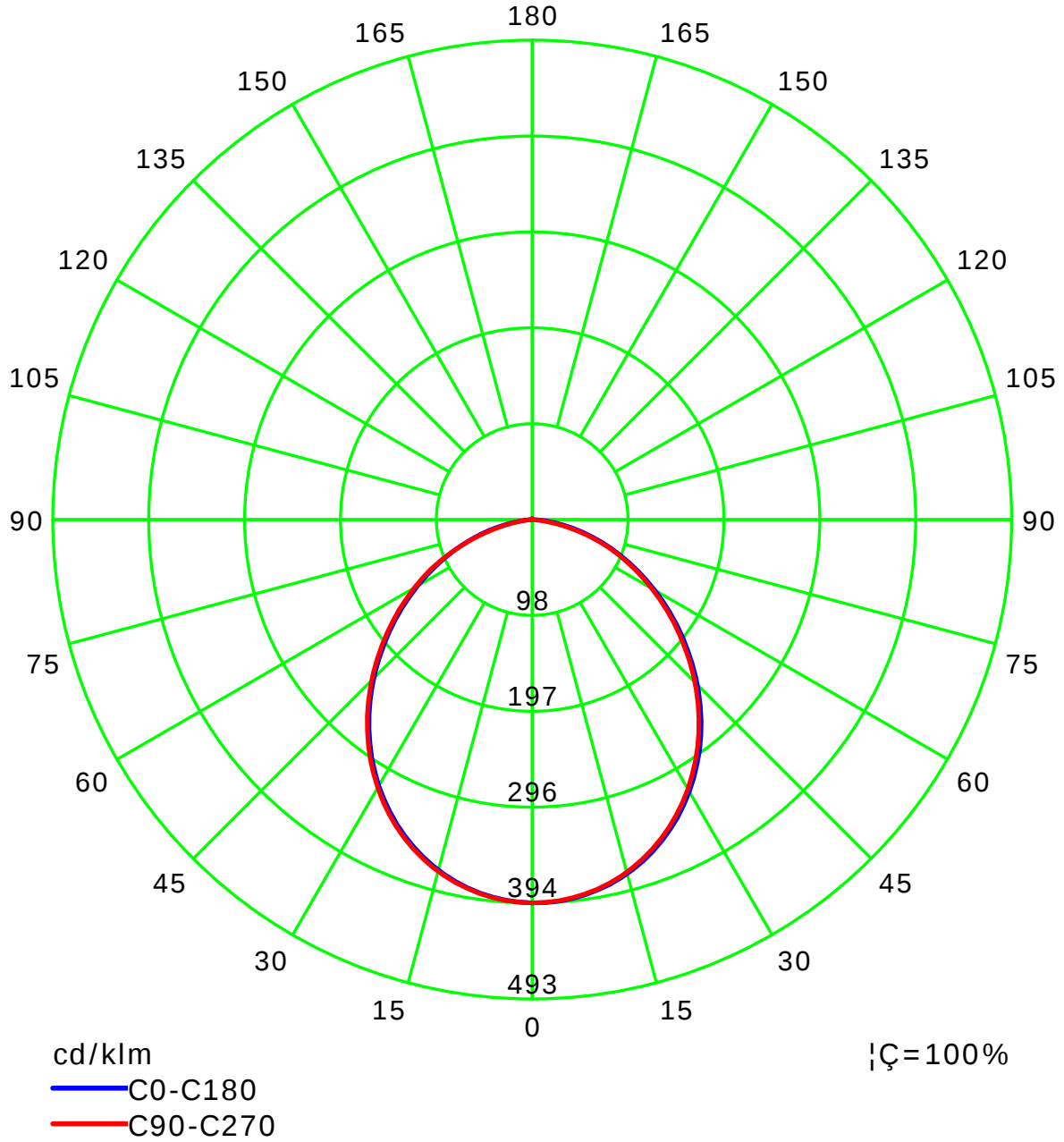
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

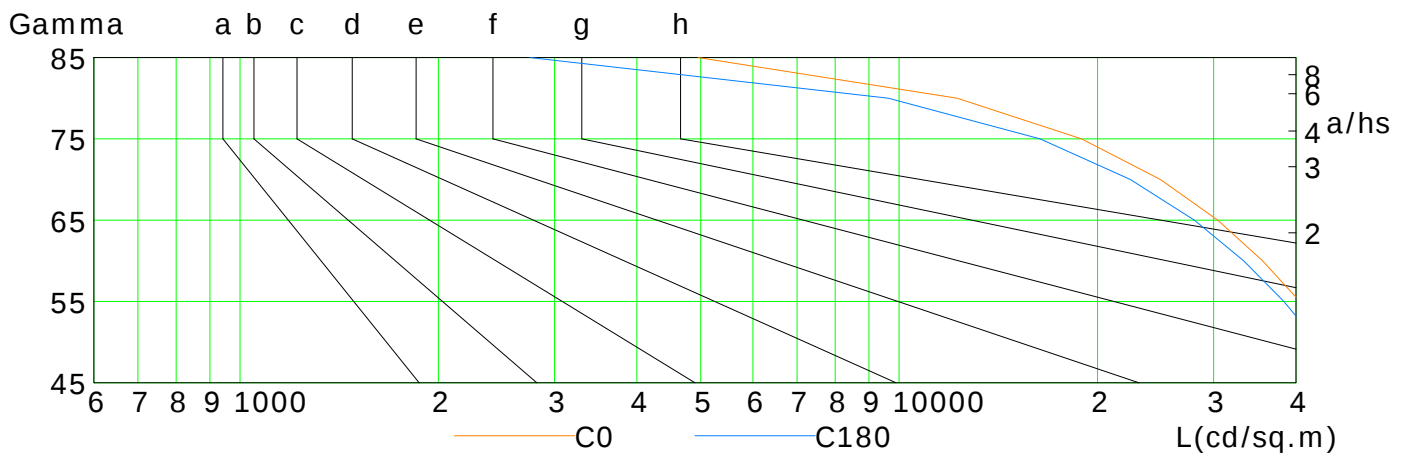
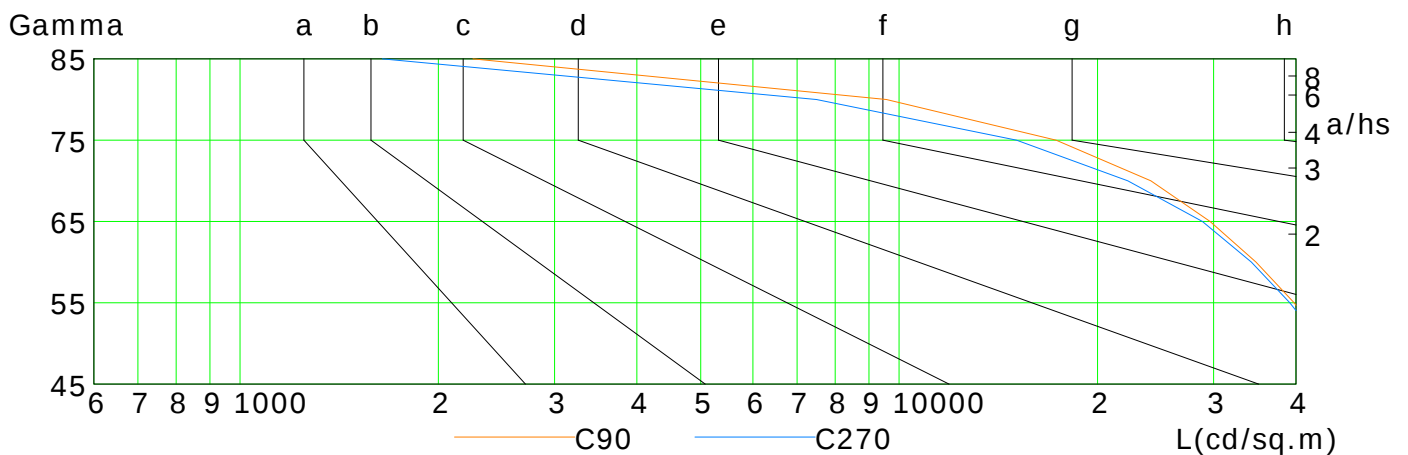
Humidity:

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	49891	45296	40549	35607	30441	24918	18913	12250	4956
C90	49116	44505	39748	34782	29640	24090	17305	9566	2257
C180	47898	43165	38355	33326	28054	22433	16358	9627	2757
C270	48538	43911	39149	34239	28849	22233	15075	7492	1644

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

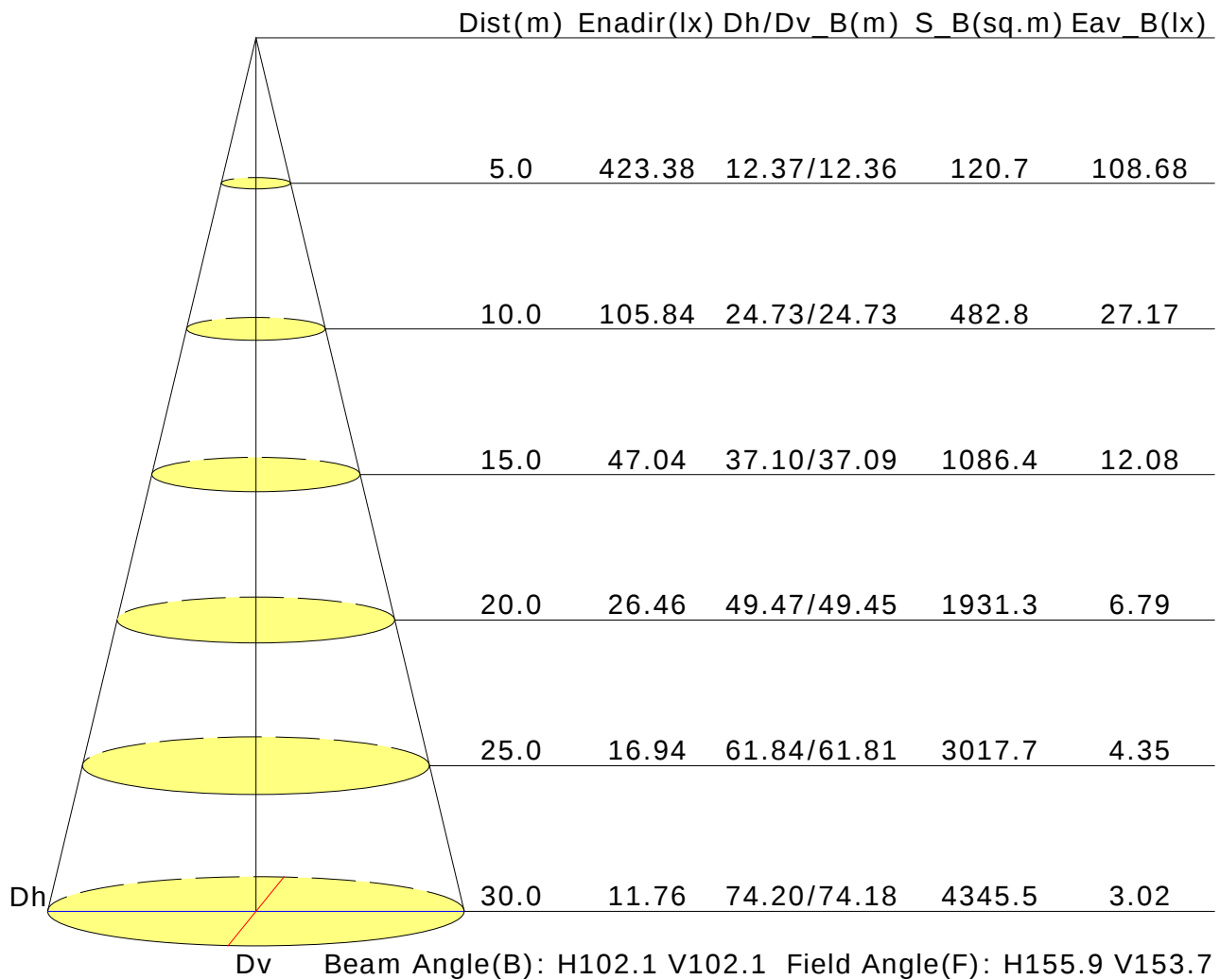
Test Device: LSG-1800B

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	25.1	26.5	25.4	26.7	27.0	25.0	26.4	25.3	26.6	26.8
3H	26.2	27.4	26.6	27.7	28.0	26.1	27.3	26.4	27.6	27.8
4H	26.6	27.7	26.9	28.0	28.3	26.4	27.5	26.7	27.8	28.1
6H	26.8	27.9	27.2	28.2	28.5	26.5	27.5	26.8	27.8	28.2
8H	26.8	27.9	27.2	28.2	28.5	26.5	27.5	26.8	27.8	28.1
12H	26.8	27.8	27.2	28.1	28.5	26.4	27.4	26.8	27.7	28.1
X=4H Y=2H	25.6	26.7	25.9	27.0	27.3	25.5	26.6	25.8	26.9	27.2
3H	26.8	27.8	27.2	28.1	28.5	26.7	27.7	27.1	28.0	28.4
4H	27.3	28.2	27.7	28.5	28.9	27.1	27.9	27.5	28.3	28.7
6H	27.6	28.3	28.0	28.7	29.1	27.2	28.0	27.7	28.4	28.8
8H	27.6	28.3	28.1	28.7	29.2	27.2	28.0	27.7	28.4	28.8
12H	27.6	28.3	28.1	28.7	29.2	27.2	27.9	27.7	28.3	28.7
X=8H Y=4H	27.4	28.1	27.9	28.5	29.0	27.2	27.9	27.6	28.3	28.8
6H	27.8	28.3	28.2	28.8	29.3	27.4	28.0	27.9	28.4	28.9
8H	27.9	28.4	28.3	28.8	29.3	27.5	28.0	28.0	28.4	28.9
12H	27.9	28.3	28.4	28.8	29.3	27.5	27.9	28.0	28.4	28.9
X=12H Y=4H	27.4	28.0	27.9	28.5	28.9	27.2	27.8	27.7	28.3	28.7
6H	27.8	28.3	28.3	28.7	29.2	27.4	27.9	27.9	28.4	28.9
8H	27.9	28.3	28.4	28.8	29.3	27.5	27.9	28.0	28.4	28.9
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.7				
S=2.0H	+0.8/-1.3					+0.8/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 26822lm ($8\log(F/F_0) = 11.4$).

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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	0.59	0.70	0.77	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.52	0.62	0.70	0.75	0.83	0.89	0.93	0.98	1.01	
	0.20		0.46	0.57	0.64	0.70	0.78	0.84	0.89	0.94	0.98	
0.50	0.50	0.20	0.58	0.67	0.74	0.79	0.86	0.90	0.93	0.98	1.00	
	0.30		0.51	0.61	0.68	0.74	0.81	0.86	0.90	0.94	0.97	
	0.20		0.46	0.56	0.63	0.69	0.77	0.82	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	0.55	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.43	0.53	0.60	0.65	0.72	0.77	0.80	0.84	0.87	
Rating:198W 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	0.96	0.78	0.66	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.68	0.59	0.51	0.46	0.38	0.32	0.28	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	0.40	0.33	0.28	0.22	0.18	
	0.20		0.68	0.58	0.50	0.45	0.37	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.89	0.72	0.61	0.53	0.41	0.34	0.29	0.22	0.18	
	0.30		0.76	0.64	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.67	0.57	0.49	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.56	0.47	0.40	0.35	0.28	0.23	0.20	0.15	0.12	
Rating:198W 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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	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	0.12	0.13	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	0.16	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	0.17	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:198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												