

Report No.:

Test Time: 18.06.2020 22:18

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 45W 4000K prozrachniy ИПС50-382Т(130) IP20 s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.3 V

Current: 0.202 A

Power: 44.07 W

Power Factor: 0.980

Photometric Results

CIE Class: Direct

Measurement Flux: 6337.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 6337.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.2, 118.3, 134.3, 134.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.3, 109.1, 111.5, 111.5

Luminaire Efficacy Rating (LER): 143.86

Central Intensity: 2454.49 cd

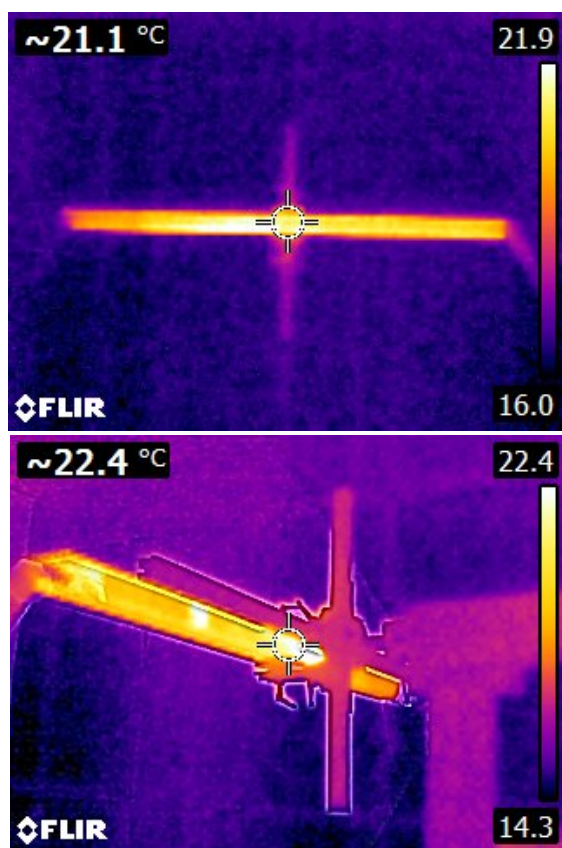
Max. Intensity: 2456.5 cd

Pos of Max. Intensity: H90 V0

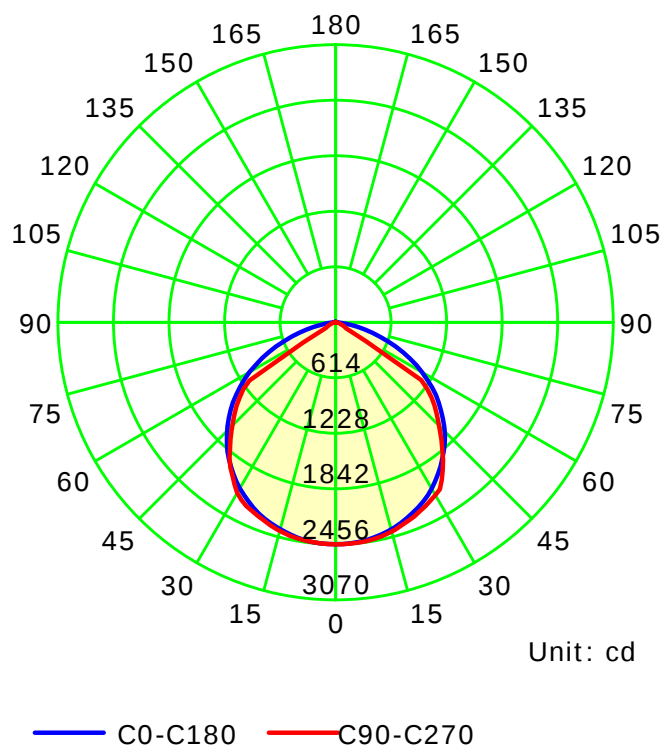
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.31

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

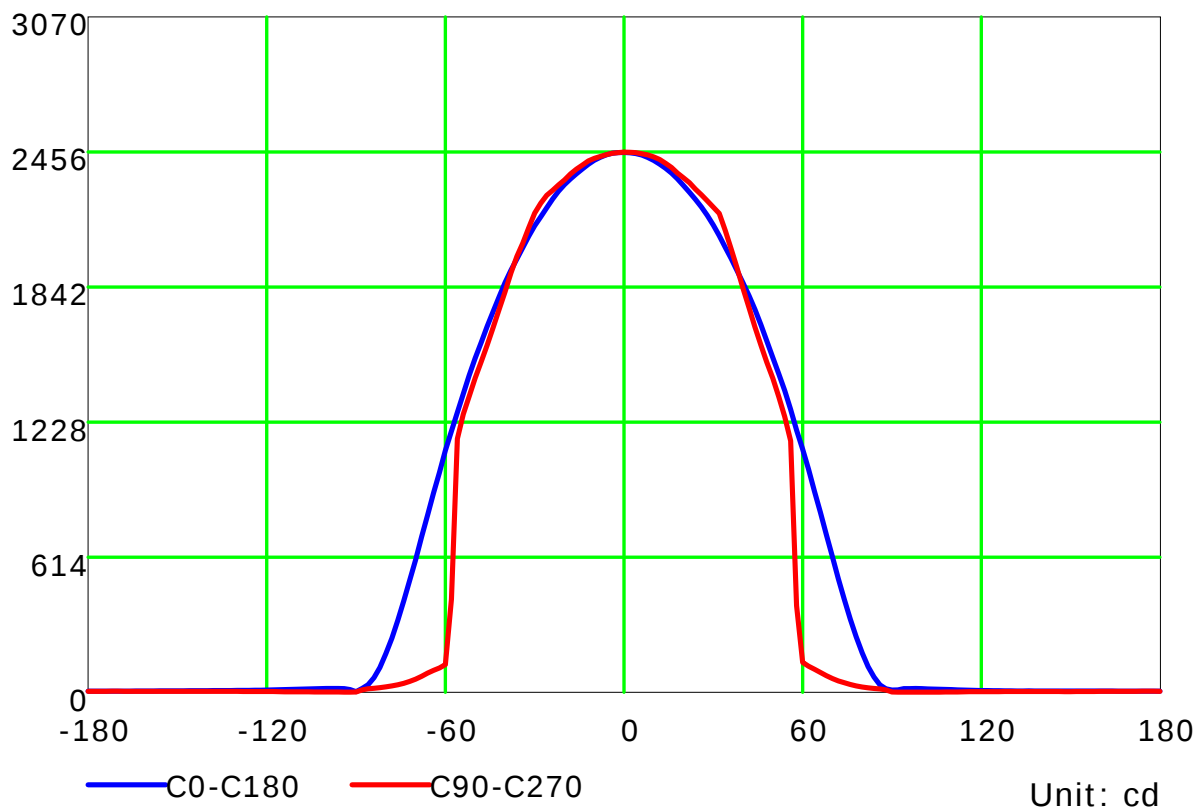
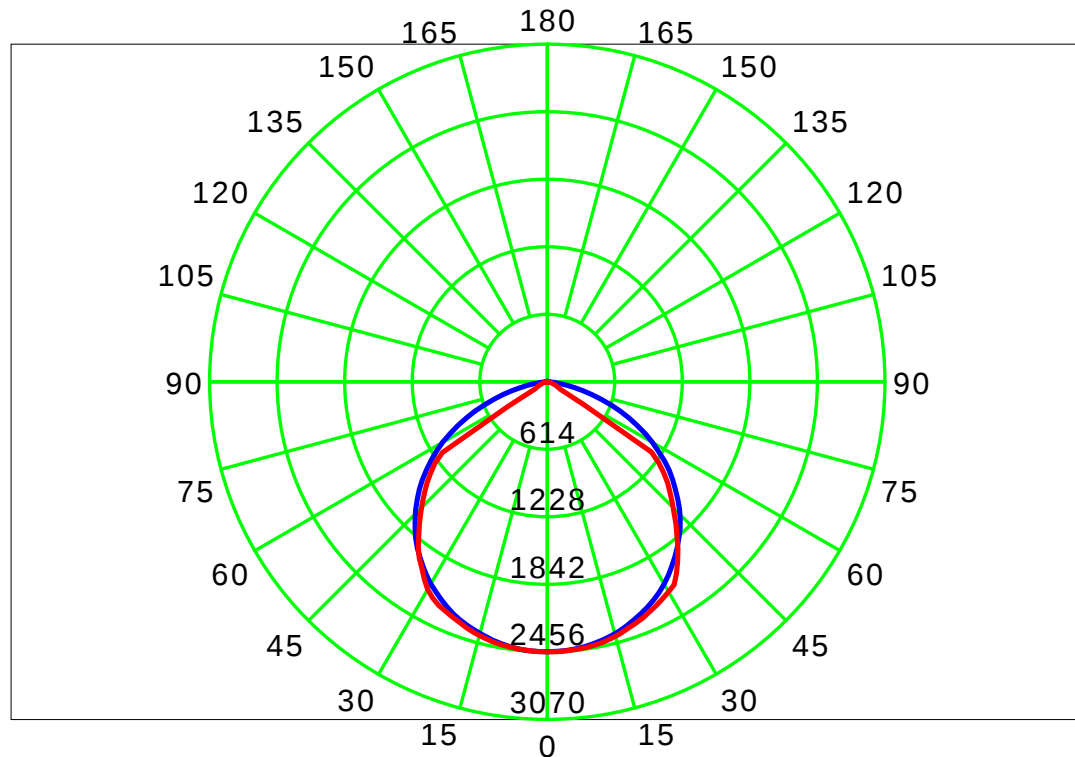
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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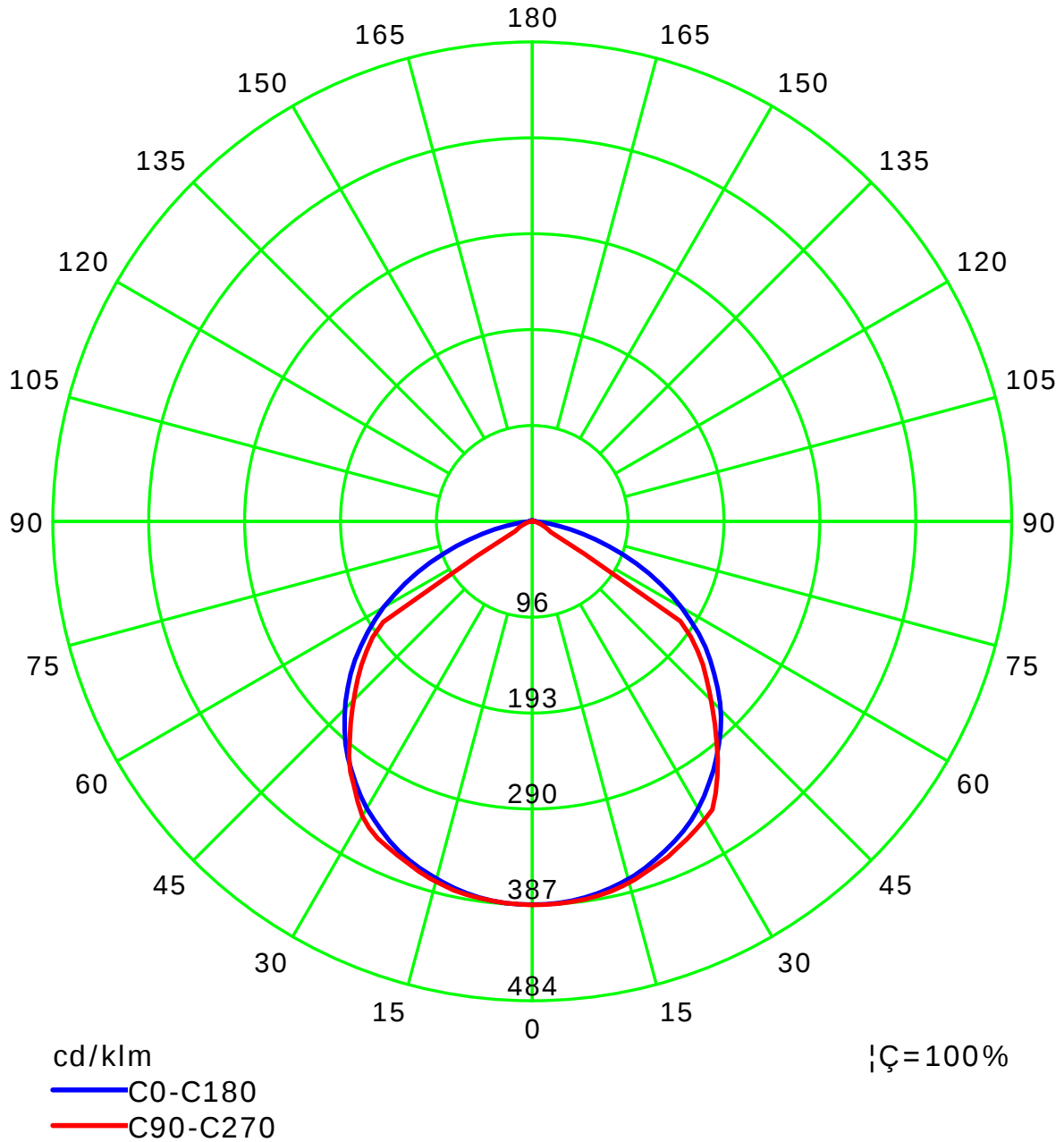
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1800B

Distance: 12.677 m

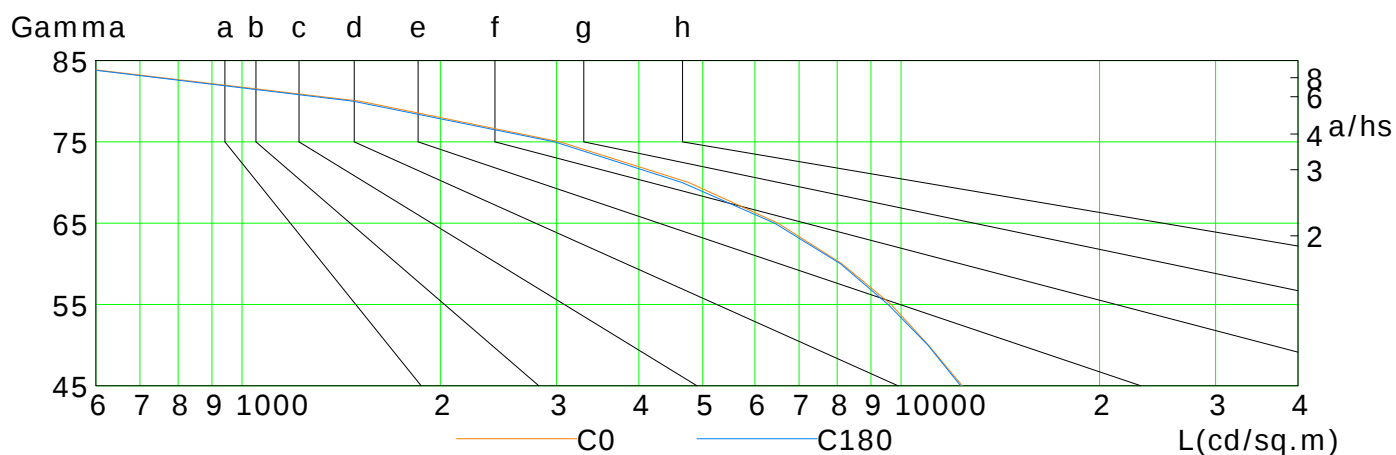
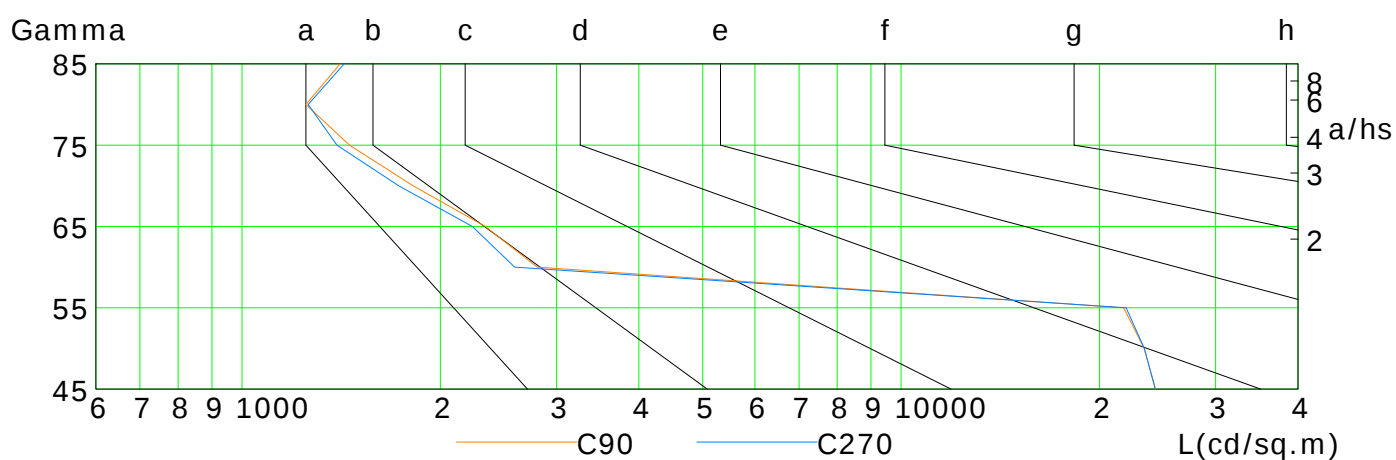
Humidity:

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	12375	11002	9656	8133	6503	4763	3037	1510	457
C90	24319	23367	21766	2804	2340	1818	1456	1250	1409
C180	12308	10984	9556	8090	6428	4651	2980	1475	452
C270	24294	23392	21950	2592	2236	1729	1393	1260	1429

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

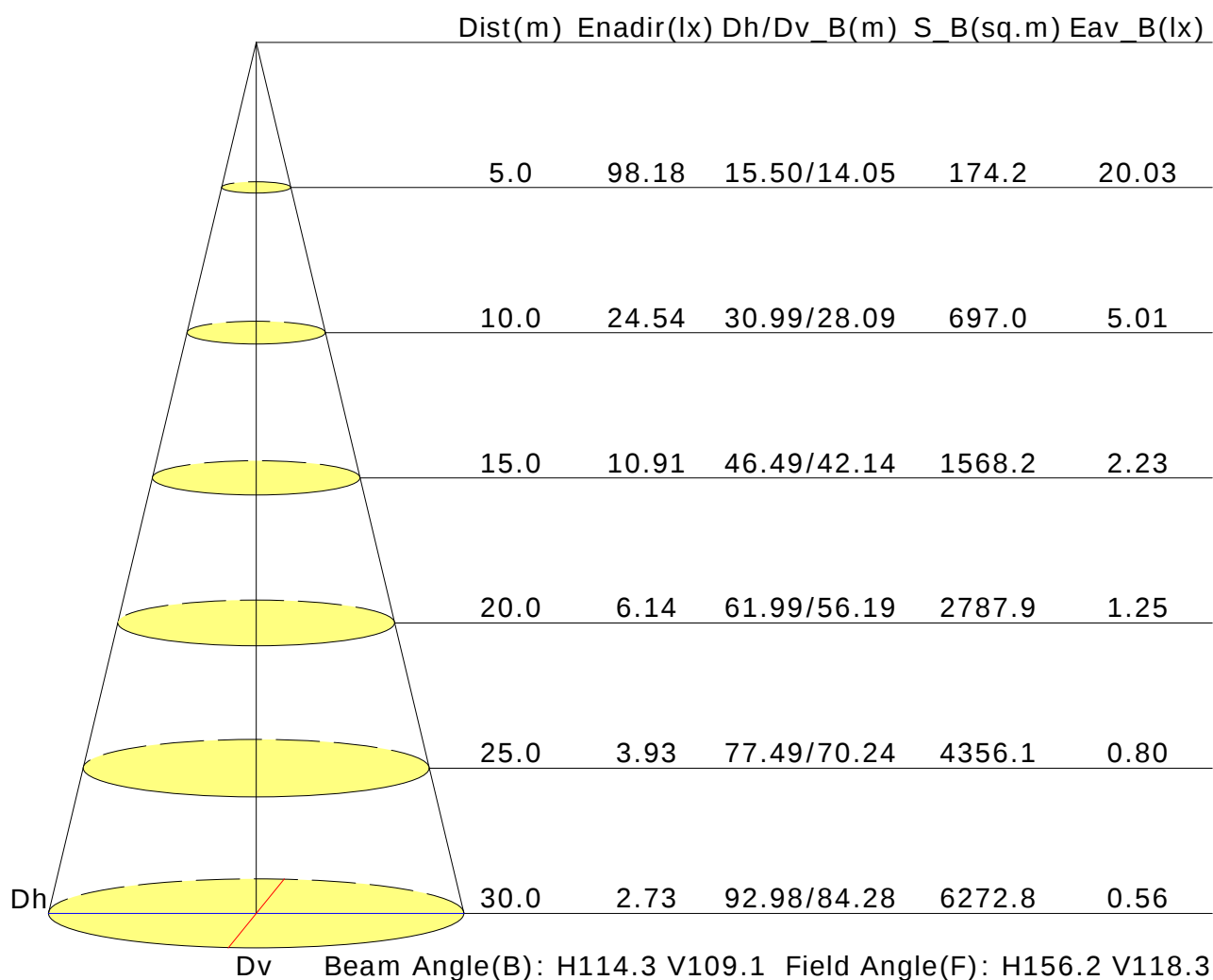
Test Device: LSG-1800B

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	21.1	22.4	21.4	22.6	22.9	20.9	22.2	21.2	22.4	22.7
3H	22.0	23.1	22.3	23.4	23.7	20.8	21.9	21.1	22.2	22.5
4H	22.2	23.3	22.5	23.5	23.8	20.7	21.8	21.0	22.1	22.4
6H	22.2	23.2	22.6	23.5	23.8	20.6	21.6	21.0	21.9	22.3
8H	22.2	23.1	22.5	23.5	23.8	20.6	21.6	21.0	21.9	22.2
12H	22.1	23.1	22.5	23.4	23.7	20.6	21.5	20.9	21.8	22.2
X=4H Y=2H	21.4	22.5	21.7	22.8	23.1	21.1	22.2	21.5	22.5	22.8
3H	22.3	23.2	22.7	23.6	23.9	21.0	22.0	21.4	22.3	22.6
4H	22.6	23.4	23.0	23.8	24.1	21.0	21.8	21.4	22.2	22.5
6H	22.6	23.3	23.0	23.7	24.1	20.9	21.6	21.3	22.0	22.4
8H	22.6	23.3	23.0	23.7	24.1	20.9	21.5	21.3	22.0	22.4
12H	22.6	23.2	23.0	23.6	24.0	20.9	21.5	21.3	21.9	22.3
X=8H Y=4H	22.5	23.1	22.9	23.5	24.0	20.9	21.6	21.4	22.0	22.4
6H	22.5	23.0	23.0	23.5	24.0	20.9	21.4	21.4	21.8	22.3
8H	22.5	23.0	23.0	23.4	23.9	20.9	21.3	21.3	21.8	22.3
12H	22.5	22.9	23.0	23.4	23.9	20.8	21.2	21.3	21.7	22.2
X=12H Y=4H	22.4	23.0	22.9	23.5	23.9	20.9	21.5	21.4	21.9	22.4
6H	22.5	22.9	23.0	23.4	23.9	20.8	21.3	21.3	21.8	22.3
8H	22.5	22.9	23.0	23.4	23.9	20.8	21.2	21.3	21.7	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.8/-1.0				
S=1.5H	+0.6/-1.4					+2.5/-9.0				
S=2.0H	+1.1/-2.1					+4.0/-11.3				

Calculate in accordance with CIE Pub.117. The table is revised with 6338lm ($8\log(F/F_0) = 6.4$).

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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	0.61	0.72	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.00	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.72	0.77	0.84	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.80	0.86	0.89	0.94	0.98	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.96	
	0.20		0.47	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.45	0.56	0.63	0.68	0.75	0.80	0.83	0.87	0.90	
Rating:44W 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	0.76	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	0.22	0.18	
	0.20		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.73	0.61	0.52	0.41	0.37	0.28	0.22	0.17	
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.89	0.70	0.58	0.50	0.39	0.32	0.27	0.20	0.17	
	0.30		0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.55	0.45	0.37	0.32	0.25	0.21	0.18	0.13	0.11	
Rating:44W 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	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	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	0.14	0.15	0.17	0.18
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	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20
	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	0.09	0.10	0.12	0.13	0.14	0.16	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:44W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											