

Report No.:

Test Time: 26.05.2020 17:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,35A 34W 4000K prozrachnoe

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 220.7 V

Current: 0.158 A

Power: 34.48 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5008.9 lm

Measurement Flux: 5008.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.1, 117.8, 132.8, 134.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.6, 109.0, 110.4, 110.9

Luminaire Efficacy Rating (LER): 145.32

Central Intensity: 1953.21 cd

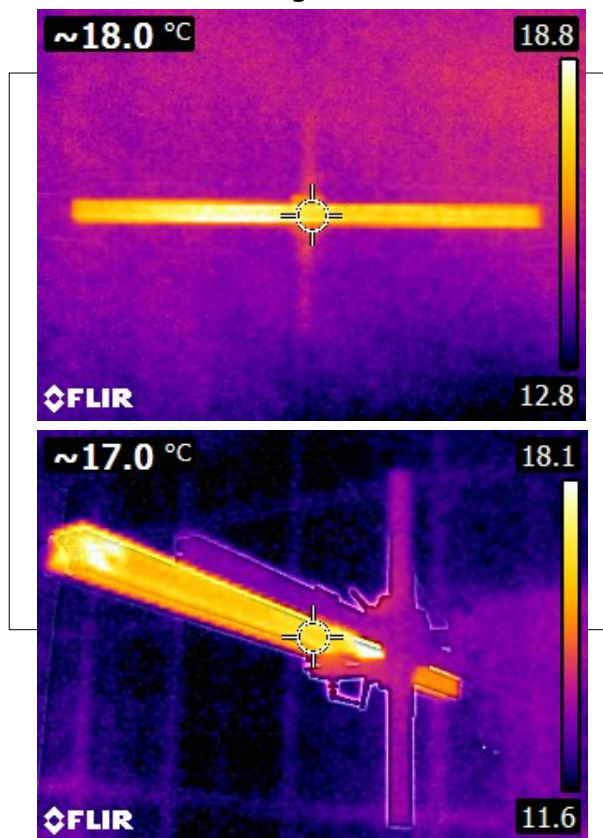
Max. Intensity: 1957.59 cd

Pos of Max. Intensity: H337.5 V2

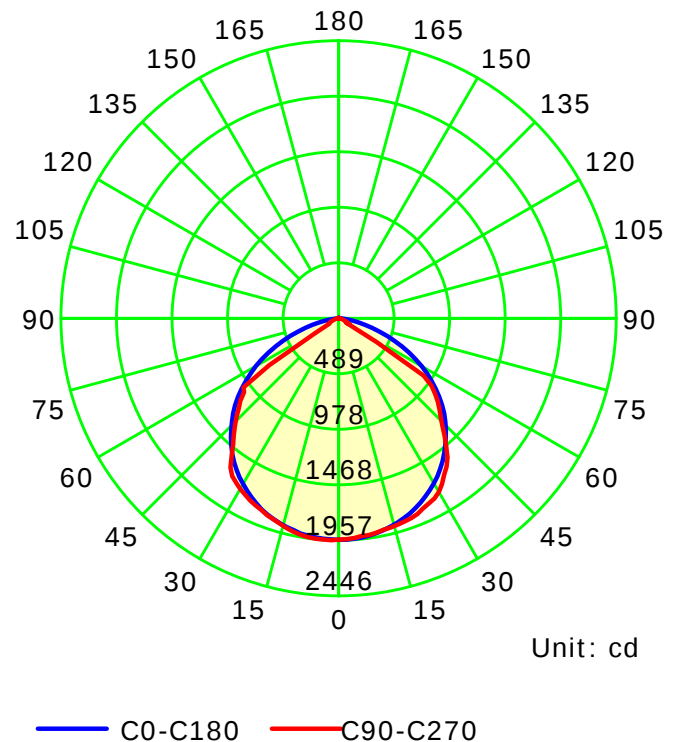
S/MH(C0/C180): 1.28

S/MH(C90/C270): 1.32

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

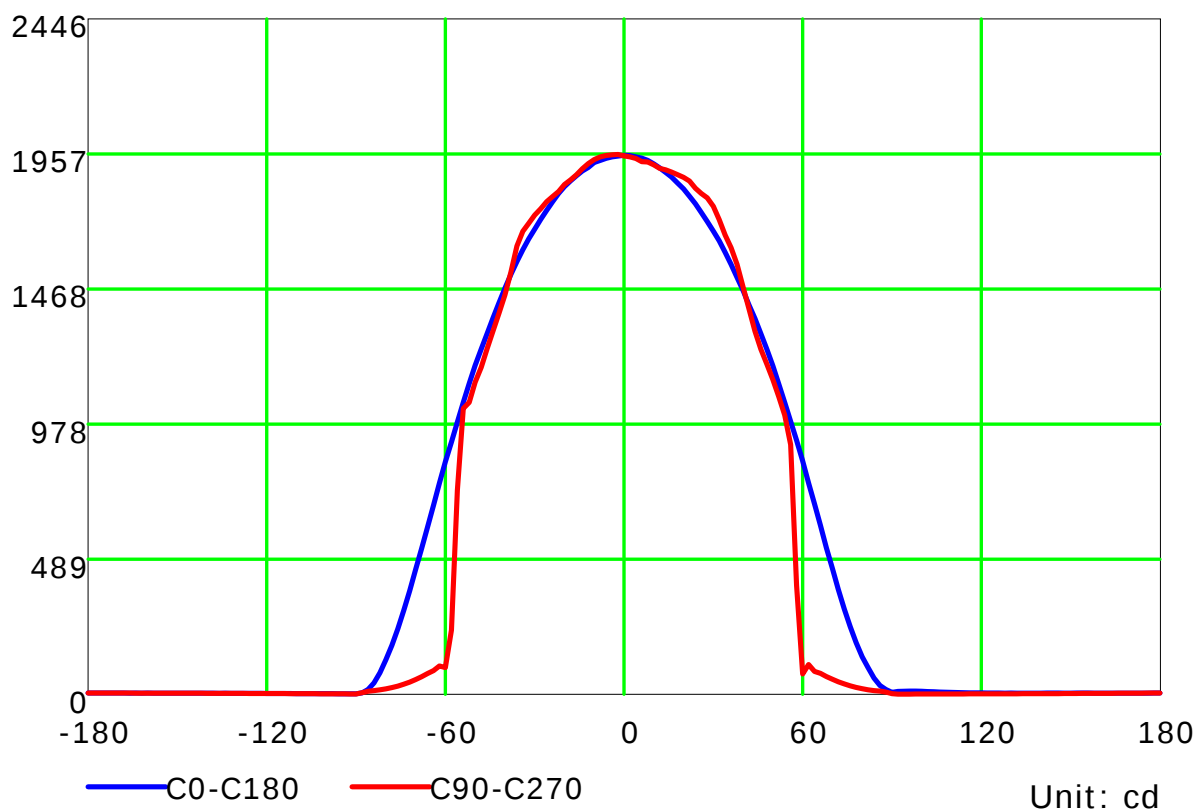
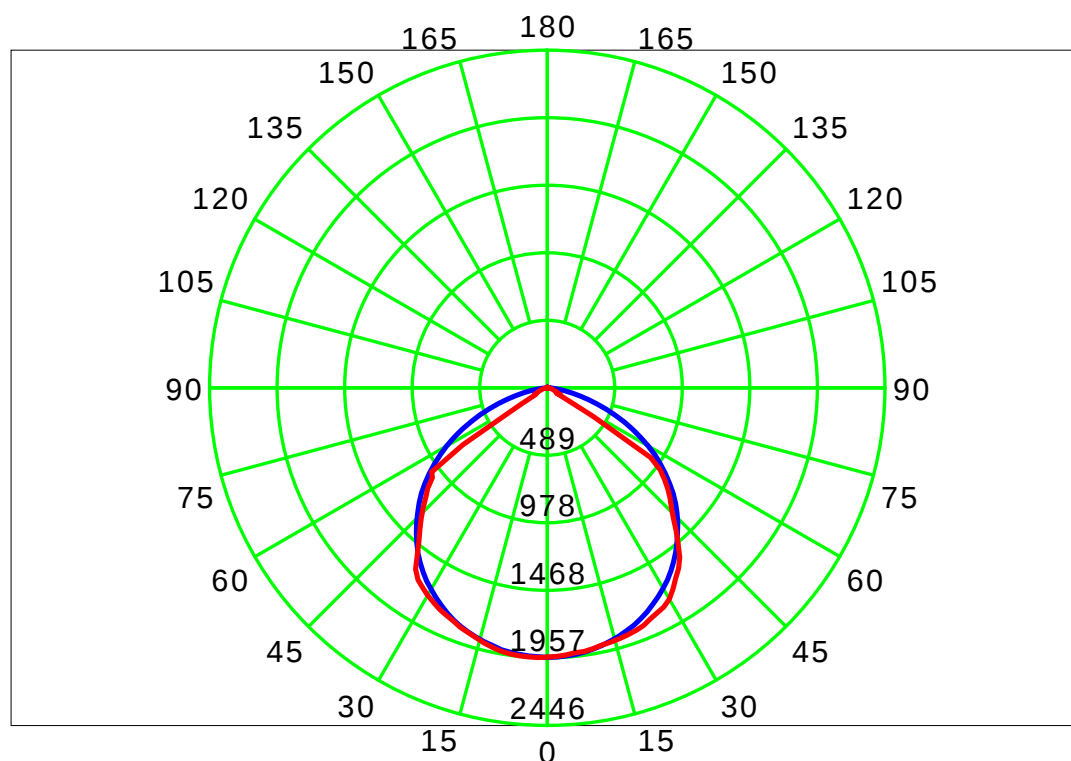
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

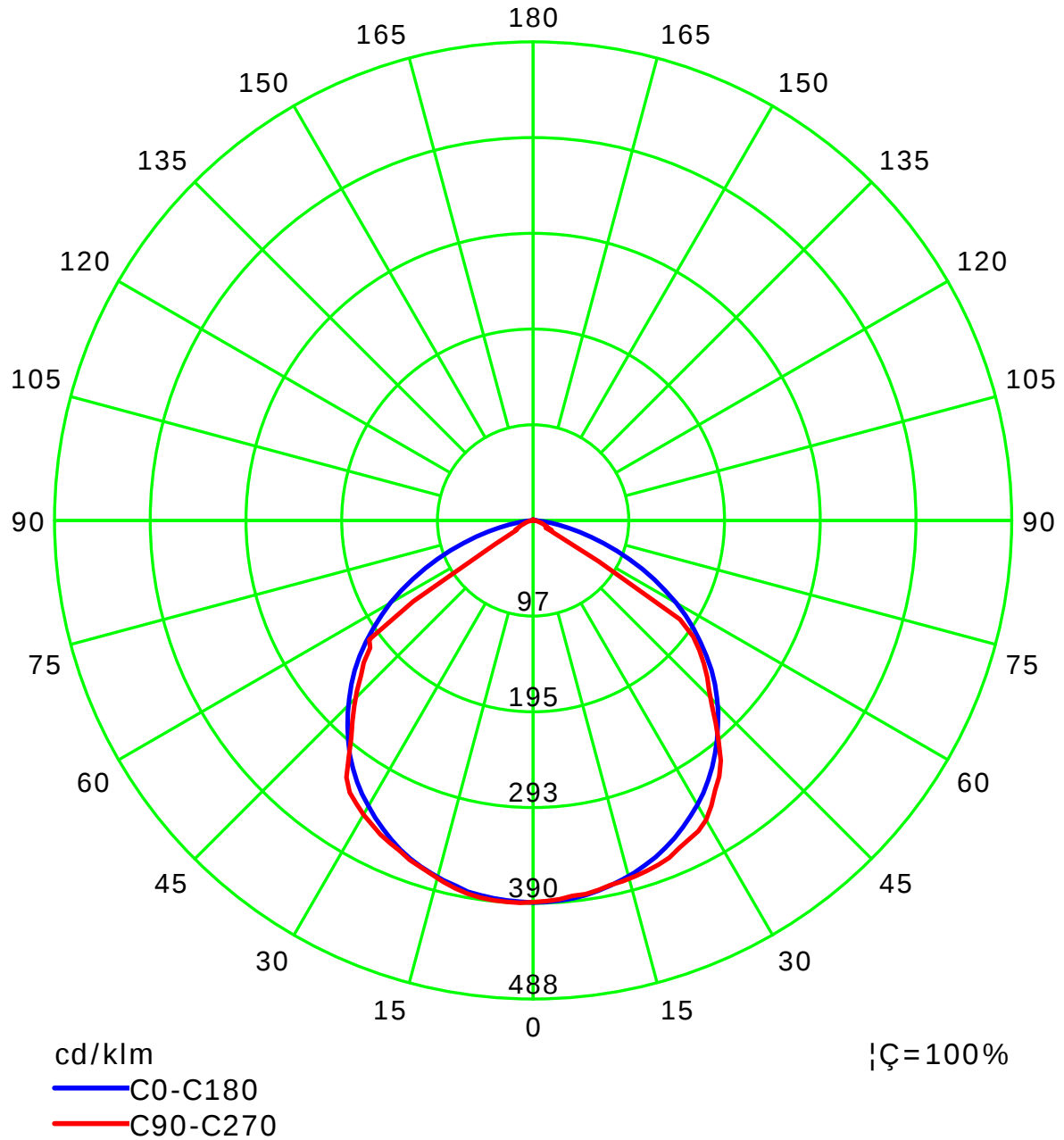
Test Device: LSG-1800B

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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Test Device: LSG-1800B

Distance: 12.677 m

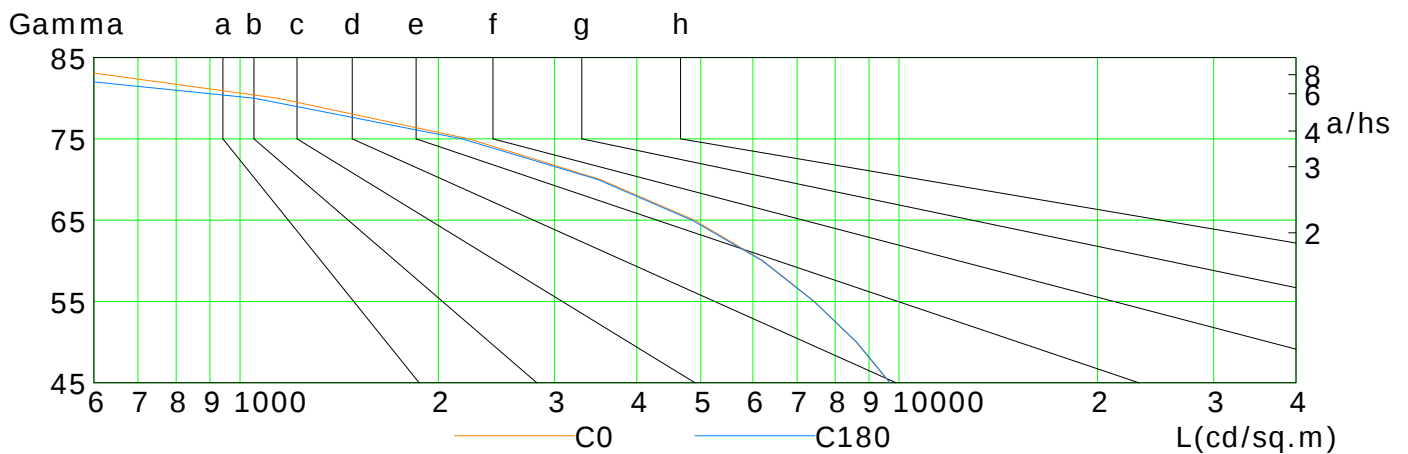
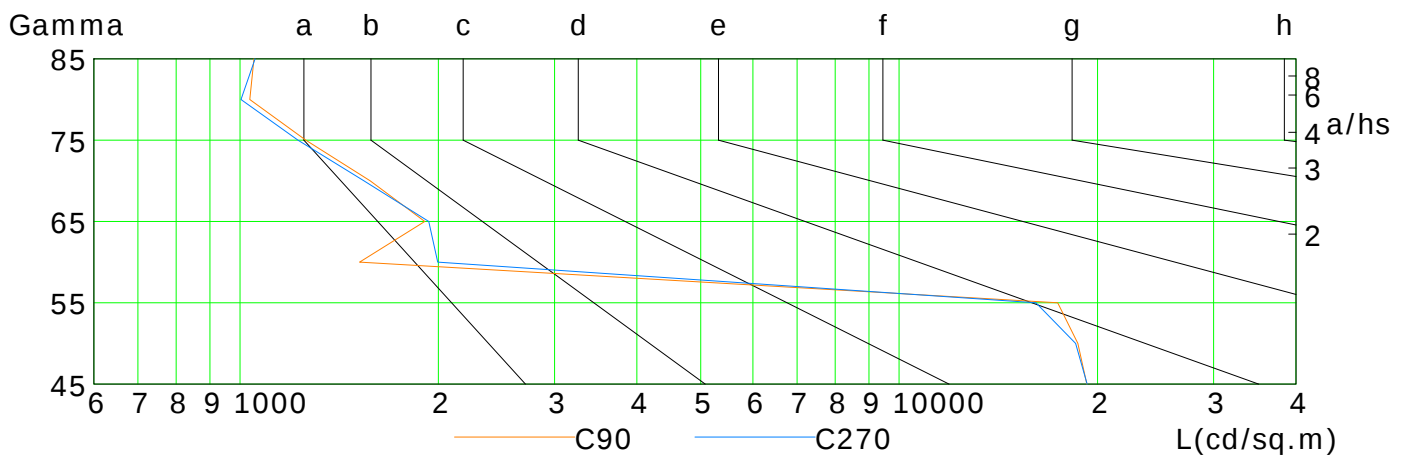
Humidity:

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	9678	8606	7432	6220	4893	3522	2224	1141	404
C90	19261	18674	17403	1519	1907	1576	1258	1035	1050
C180	9688	8618	7428	6201	4849	3490	2172	1051	264
C270	19290	18525	16123	1995	1934	1542	1224	1003	1054

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

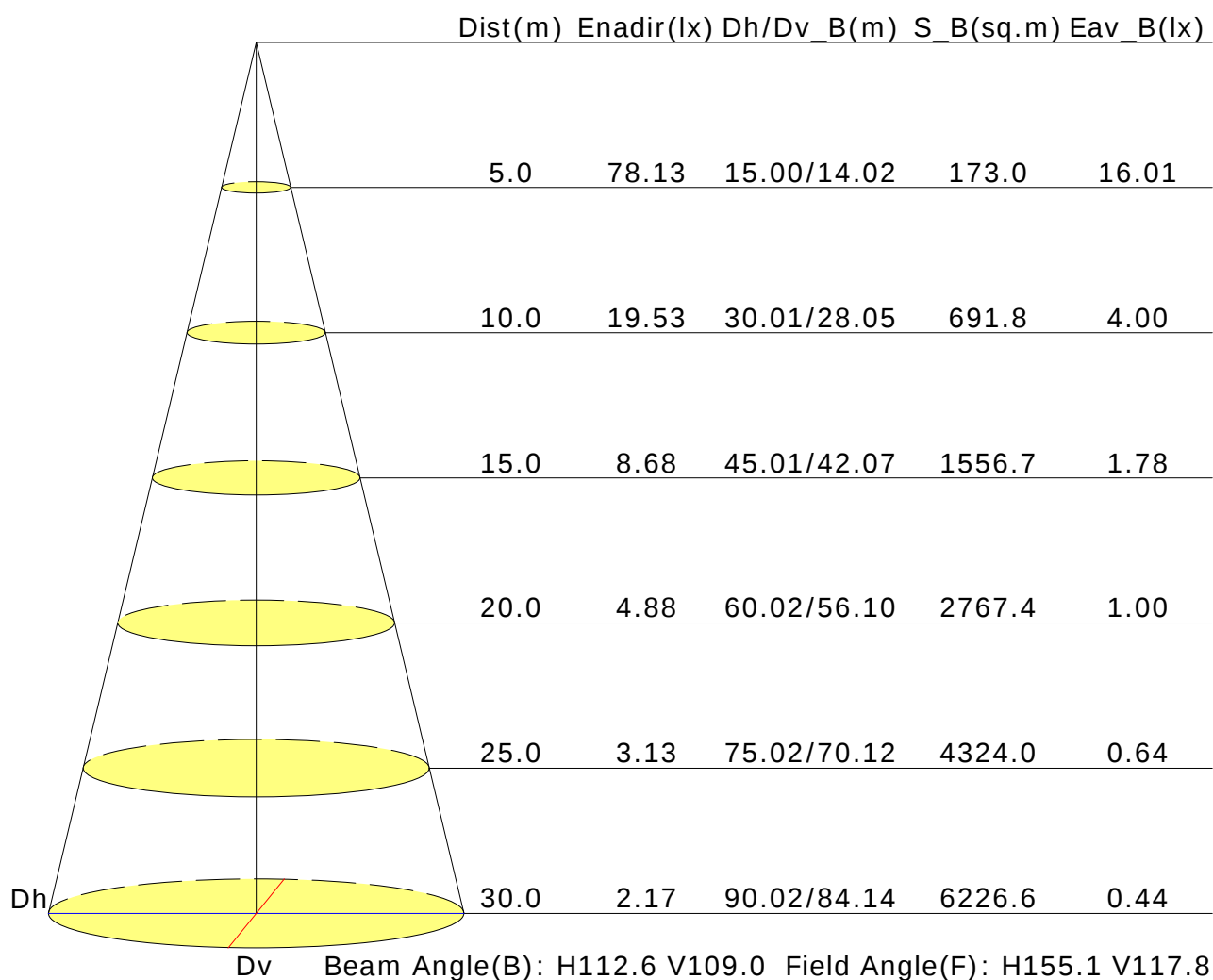
Test Device: LSG-1800B

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	20.3	21.6	20.6	21.8	22.1	20.1	21.4	20.4	21.6	21.9
3H	21.1	22.3	21.4	22.5	22.8	20.0	21.1	20.3	21.4	21.7
4H	21.3	22.4	21.6	22.7	23.0	19.9	21.0	20.2	21.3	21.6
6H	21.3	22.3	21.7	22.6	23.0	19.8	20.8	20.2	21.2	21.5
8H	21.3	22.3	21.7	22.6	22.9	19.8	20.8	20.2	21.1	21.4
12H	21.3	22.2	21.7	22.5	22.9	19.8	20.7	20.2	21.0	21.4
X=4H Y=2H	20.6	21.7	20.9	22.0	22.3	20.3	21.4	20.7	21.7	22.0
3H	21.5	22.4	21.8	22.7	23.1	20.2	21.2	20.6	21.5	21.8
4H	21.7	22.5	22.1	22.9	23.3	20.2	21.0	20.6	21.4	21.7
6H	21.7	22.5	22.2	22.9	23.3	20.1	20.8	20.6	21.2	21.6
8H	21.7	22.4	22.2	22.8	23.2	20.1	20.8	20.5	21.2	21.6
12H	21.7	22.3	22.2	22.7	23.2	20.1	20.7	20.5	21.1	21.5
X=8H Y=4H	21.6	22.3	22.1	22.7	23.1	20.1	20.8	20.6	21.2	21.6
6H	21.7	22.2	22.1	22.6	23.1	20.1	20.6	20.6	21.1	21.5
8H	21.7	22.1	22.1	22.6	23.1	20.1	20.5	20.6	21.0	21.5
12H	21.6	22.0	22.1	22.5	23.0	20.0	20.4	20.5	20.9	21.4
X=12H Y=4H	21.6	22.2	22.0	22.6	23.0	20.1	20.7	20.6	21.1	21.6
6H	21.6	22.1	22.1	22.6	23.0	20.1	20.5	20.5	21.0	21.5
8H	21.6	22.0	22.1	22.5	23.0	20.0	20.4	20.5	20.9	21.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.7/-1.2				
S=1.5H	+0.7/-1.6					+2.6/-8.9				
S=2.0H	+1.3/-2.5					+4.1/-10.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5009lm ($8\log(F/F_0) = 5.6$).

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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:

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	1.01	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	0.60	0.70	0.78	0.83	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.72	0.77	0.85	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.58	0.69	0.75	0.80	0.86	0.90	0.93	0.96	0.99	
	0.30		0.52	0.63	0.70	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.48	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	0.64	0.69	0.76	0.80	0.83	0.87	0.90	
Rating:34W 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	0.63	0.54	0.43	0.35	0.30	0.23	0.18	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	0.21	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	0.21	0.17	
	0.30		0.77	0.63	0.53	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	0.88	0.70	0.58	0.50	0.39	0.31	0.27	0.20	0.16	
	0.30		0.75	0.61	0.52	0.45	0.36	0.29	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.18	0.15	
0.00	0.00	0.00	0.55	0.44	0.37	0.32	0.25	0.21	0.17	0.13	0.11	
Rating:34W 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	0.16	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	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
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:34W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												