

Report No.:

Test Time: 19.11.2020 12:27

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 80LED 0,764A 2x100W 4000K prozrachnoe steclo

Luminous Length (mm): 1550

Luminous Width (mm): 60

Luminous Height (mm): 83

Voltage: 221.3 V

Current: 0.885 A

Power: 192.75 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 27438.9 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 27438.9 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.1, 160.8, 141.5, 142.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.9, 119.4, 121.1, 121.4

Luminaire Efficacy Rating (LER): 142.40

Central Intensity: 9695.98 cd

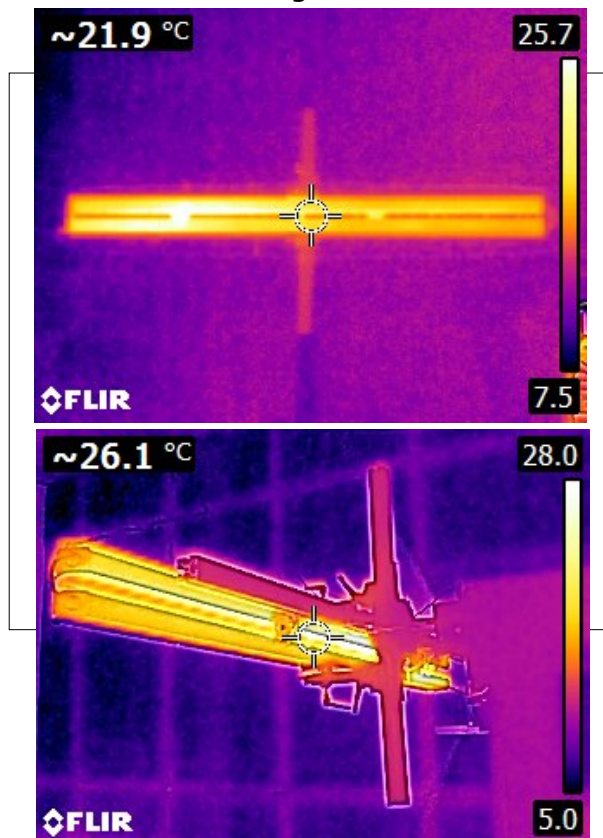
Max. Intensity: 9742.89 cd

Pos of Max. Intensity: H67.5 V4

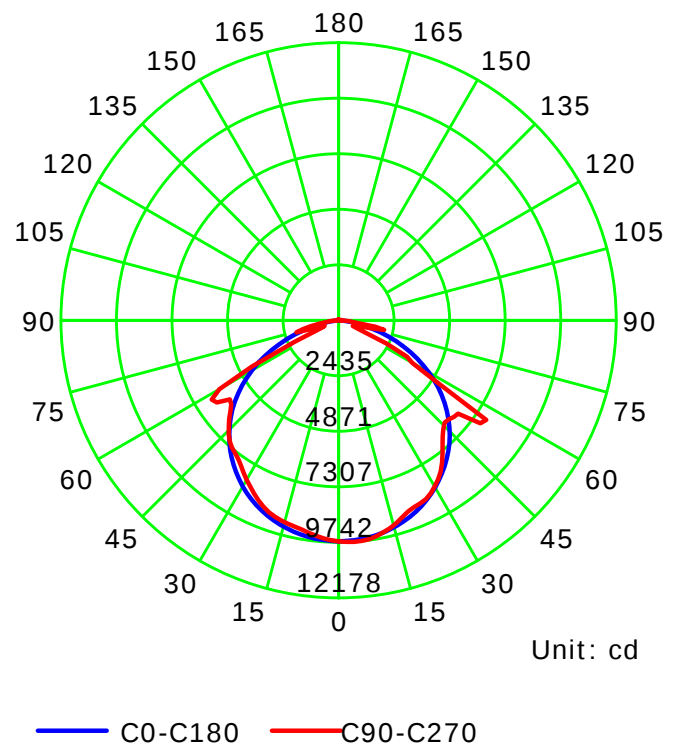
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.26

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

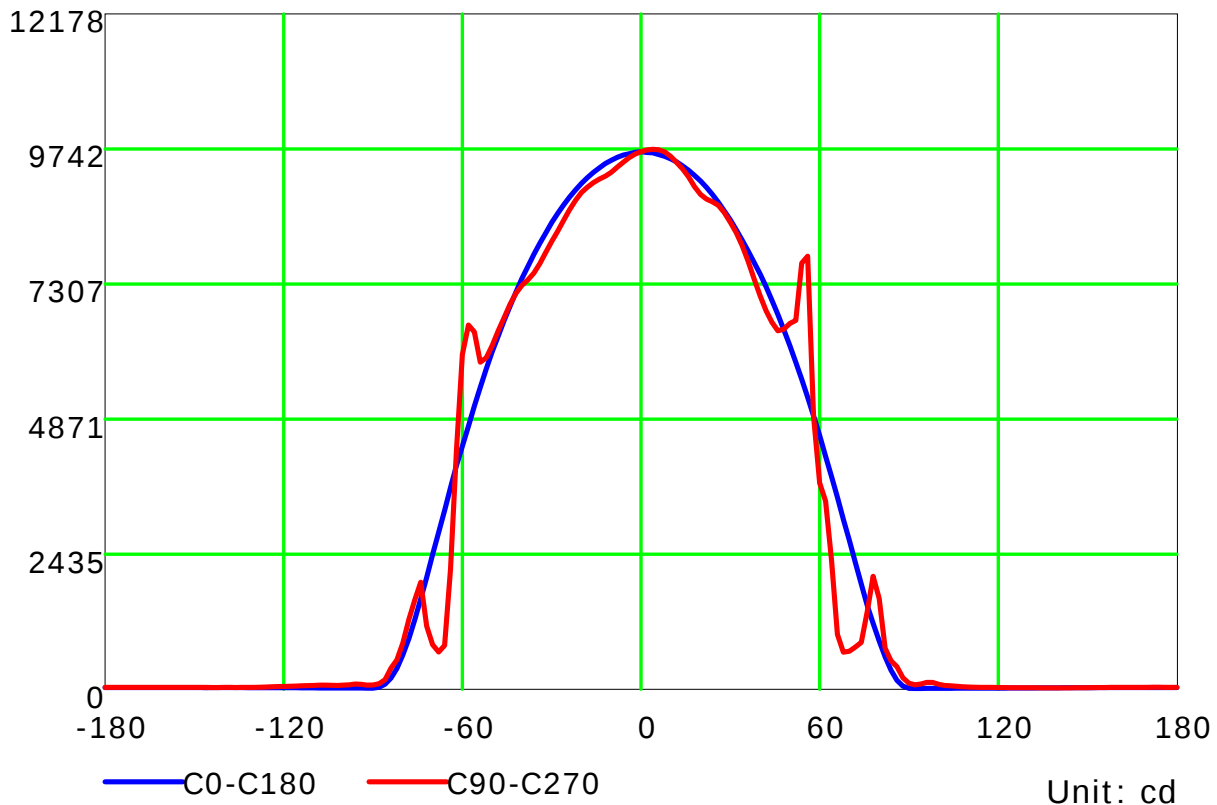
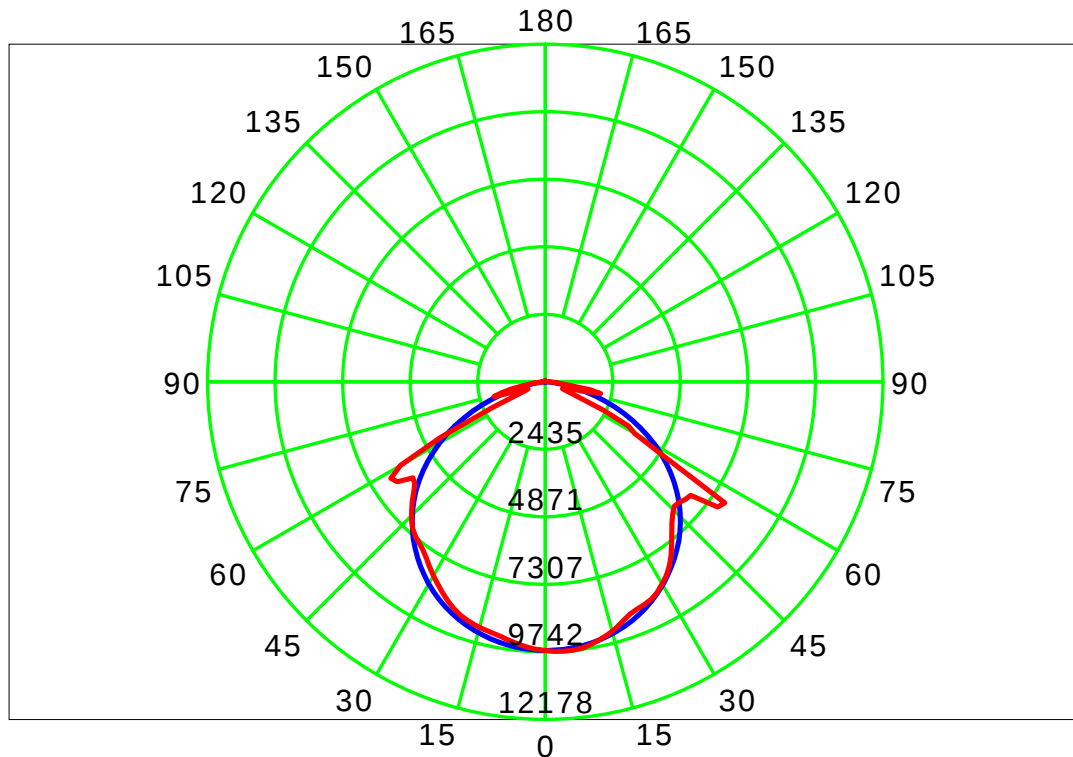
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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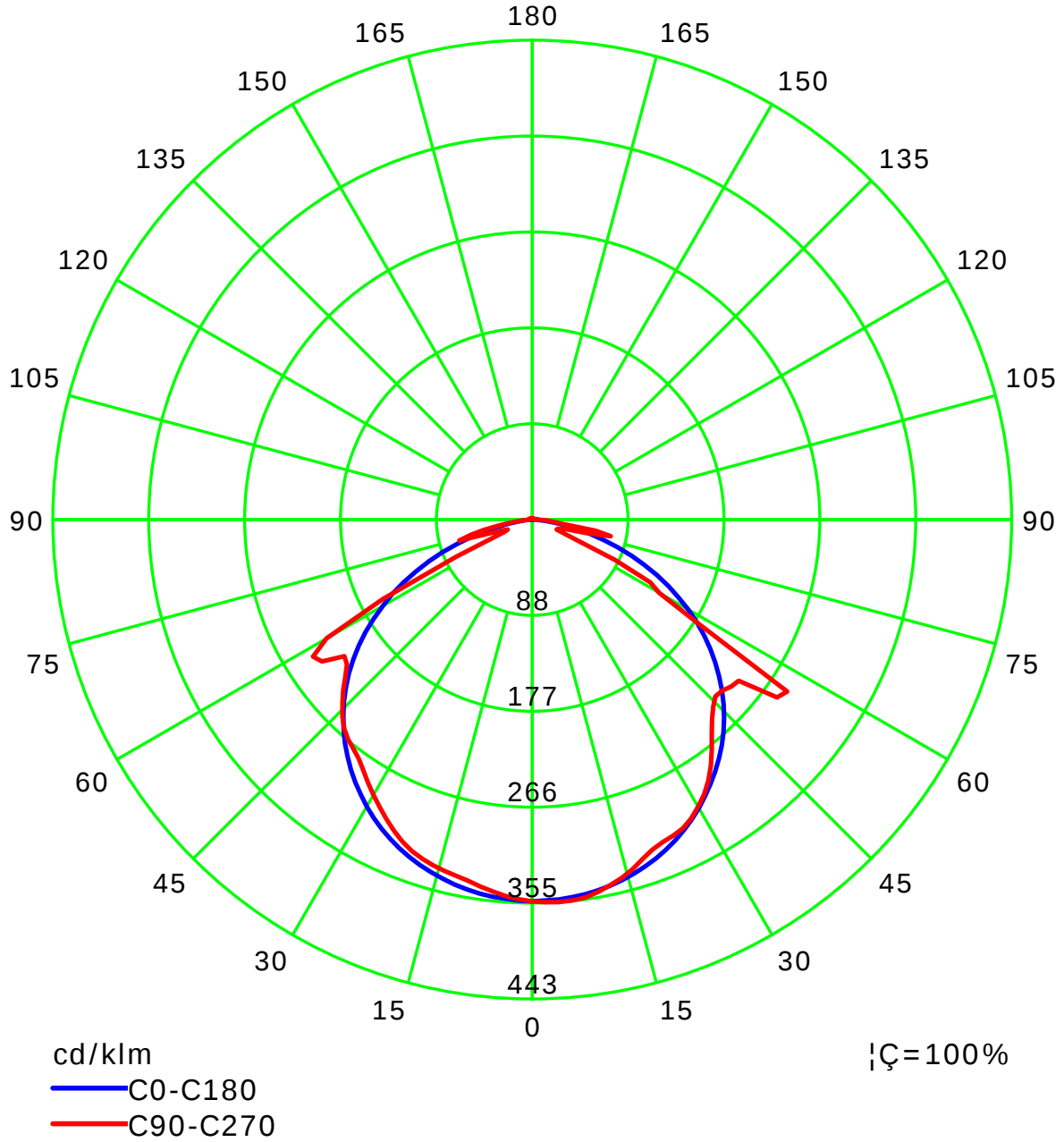
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

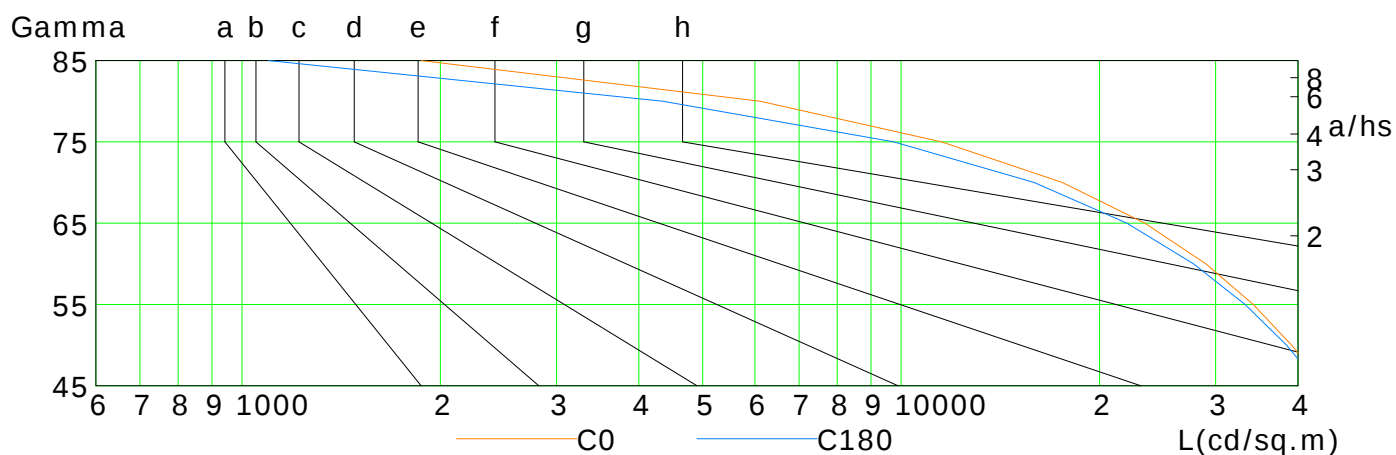
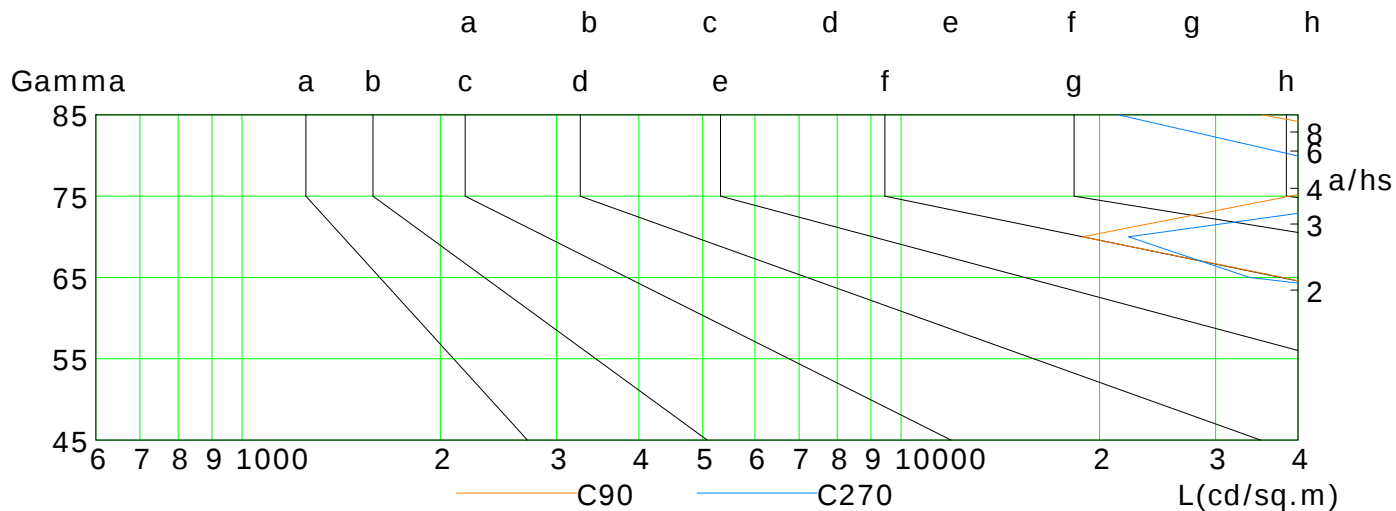
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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	43943	39135	34211	28997	23424	17567	11516	6109	1869
C90	94418	103740	134934	73216	37986	18846	38872	77852	35322
C180	43278	38442	33256	27772	22007	15917	9747	4347	1098
C270	98497	97472	107503	118838	33775	22129	61421	39711	21369

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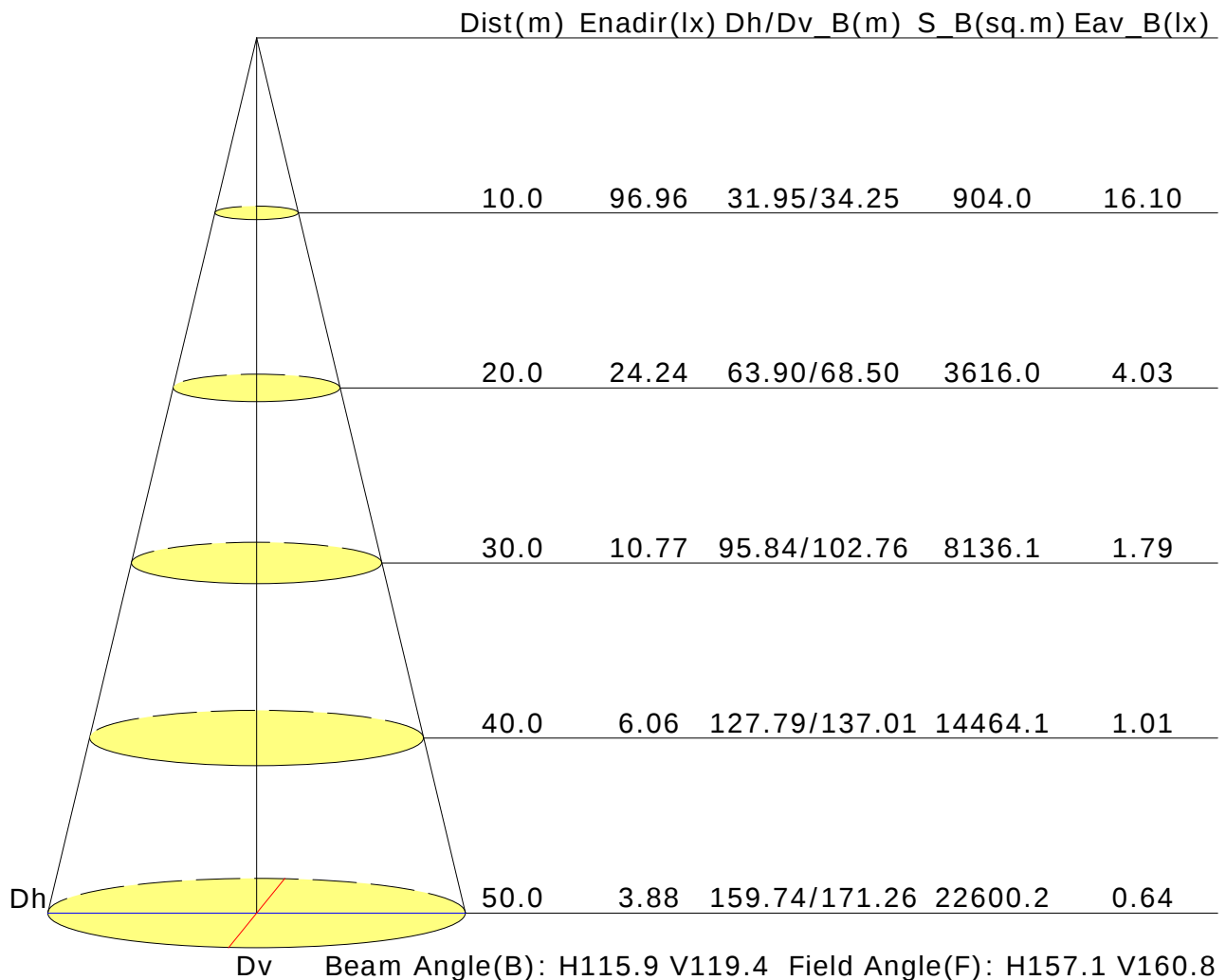
Test Device: LSG-1800B

Distance: 12.682 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	25.0	26.4	25.3	26.6	26.9	27.6	29.0	28.0	29.2	29.5
3H	26.0	27.2	26.3	27.5	27.8	27.7	28.9	28.0	29.2	29.5
4H	26.3	27.4	26.6	27.7	28.0	27.9	29.1	28.3	29.4	29.7
6H	26.3	27.4	26.7	27.7	28.1	28.5	29.6	28.9	29.9	30.3
8H	26.3	27.4	26.7	27.7	28.0	28.7	29.7	29.0	30.0	30.4
12H	26.3	27.3	26.7	27.6	28.0	28.7	29.7	29.1	30.0	30.4
X=4H Y=2H	25.8	26.9	26.1	27.2	27.5	27.9	29.0	28.2	29.3	29.6
3H	26.8	27.8	27.2	28.1	28.5	27.9	28.9	28.3	29.3	29.6
4H	27.1	28.0	27.5	28.4	28.8	28.2	29.1	28.6	29.5	29.9
6H	27.2	28.0	27.6	28.4	28.8	29.0	29.7	29.4	30.1	30.6
8H	27.2	27.9	27.6	28.3	28.7	29.1	29.9	29.6	30.3	30.7
12H	27.2	27.8	27.6	28.2	28.7	29.2	29.9	29.7	30.3	30.8
X=8H Y=4H	27.1	27.8	27.5	28.2	28.6	28.2	28.9	28.6	29.3	29.7
6H	27.2	27.7	27.6	28.2	28.7	29.0	29.6	29.5	30.1	30.5
8H	27.2	27.7	27.7	28.1	28.6	29.3	29.8	29.7	30.2	30.7
12H	27.1	27.6	27.7	28.1	28.6	29.4	29.8	29.9	30.3	30.8
X=12H Y=4H	27.1	27.7	27.5	28.1	28.6	28.1	28.8	28.6	29.2	29.7
6H	27.2	27.7	27.7	28.1	28.6	29.0	29.5	29.5	30.0	30.5
8H	27.2	27.6	27.7	28.1	28.6	29.2	29.7	29.8	30.2	30.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.7/-0.8				
S=1.5H	+0.4/-0.9					+1.7/-2.0				
S=2.0H	+1.0/-2.2					+3.3/-4.6				

Calculate in accordance with CIE Pub.117. The table is revised with 27439lm ($8\log(F/F_0) = 11.5$).

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.682 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	0.57	0.68	0.76	0.81	0.88	0.93	0.97	1.01	1.04	
	0.30		0.49	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
	0.20		0.44	0.55	0.63	0.69	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.55	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.48	0.59	0.67	0.72	0.80	0.85	0.89	0.94	0.97	
	0.20		0.43	0.54	0.62	0.68	0.76	0.81	0.85	0.91	0.94	
0.30	0.50	0.20	0.54	0.64	0.71	0.76	0.82	0.86	0.89	0.93	0.96	
	0.30		0.48	0.58	0.65	0.71	0.78	0.83	0.86	0.91	0.93	
	0.20		0.43	0.53	0.61	0.67	0.74	0.80	0.83	0.88	0.91	
0.00	0.00	0.00	0.41	0.51	0.58	0.63	0.71	0.76	0.79	0.84	0.86	
Rating:193W 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	0.99	0.81	0.68	0.59	0.47	0.39	0.33	0.25	0.21	
	0.30		0.83	0.69	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.71	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.50	0.50	0.20	0.96	0.78	0.65	0.56	0.45	0.40	0.31	0.24	0.20	
	0.30		0.81	0.67	0.58	0.51	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.59	0.52	0.46	0.37	0.32	0.27	0.22	0.18	
0.30	0.50	0.20	0.93	0.74	0.63	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.79	0.66	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.69	0.58	0.51	0.45	0.36	0.31	0.26	0.21	0.17	
0.00	0.00	0.00	0.59	0.49	0.41	0.36	0.29	0.24	0.20	0.16	0.13	
Rating:193W 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	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.19	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	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	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	0.14	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:193W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												