

Report No.:

Test Time: 26.10.2020 10:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 81 90LED 0,35A 17W 6000K prozrachniy (источник Diolight) (2P)

Luminous Length (mm): 1215

Luminous Width (mm): 80

Luminous Height (mm): 46

Voltage: 221.4 V

Current: 0.098 A

Power: 17.64 W

Power Factor: 0.810

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2996.3 lm

Measurement Flux: 2996.3 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.3, 161.8, 156.5, 160.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 111.6, 115.4, 111.7

Luminaire Efficacy Rating (LER): 169.91

Central Intensity: 1026.57 cd

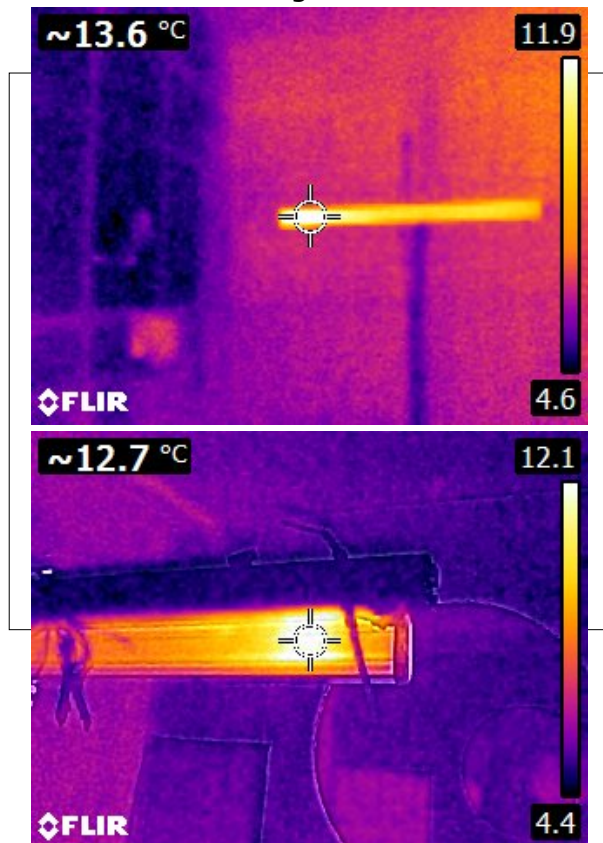
Max. Intensity: 1028.83 cd

Pos of Max. Intensity: H67.5 V4

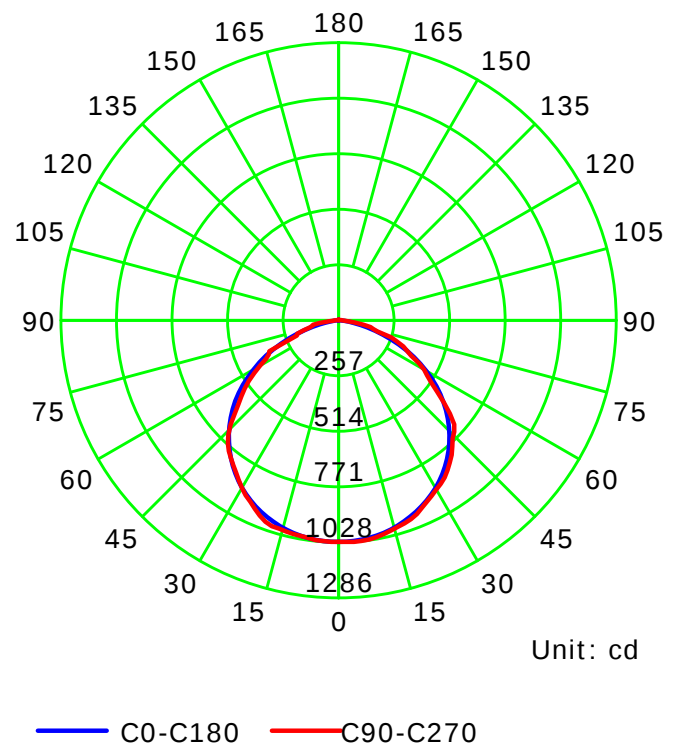
S/MH(C0/C180): 1.30

S/MH(C90/C270): 1.30

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: 12.682 m

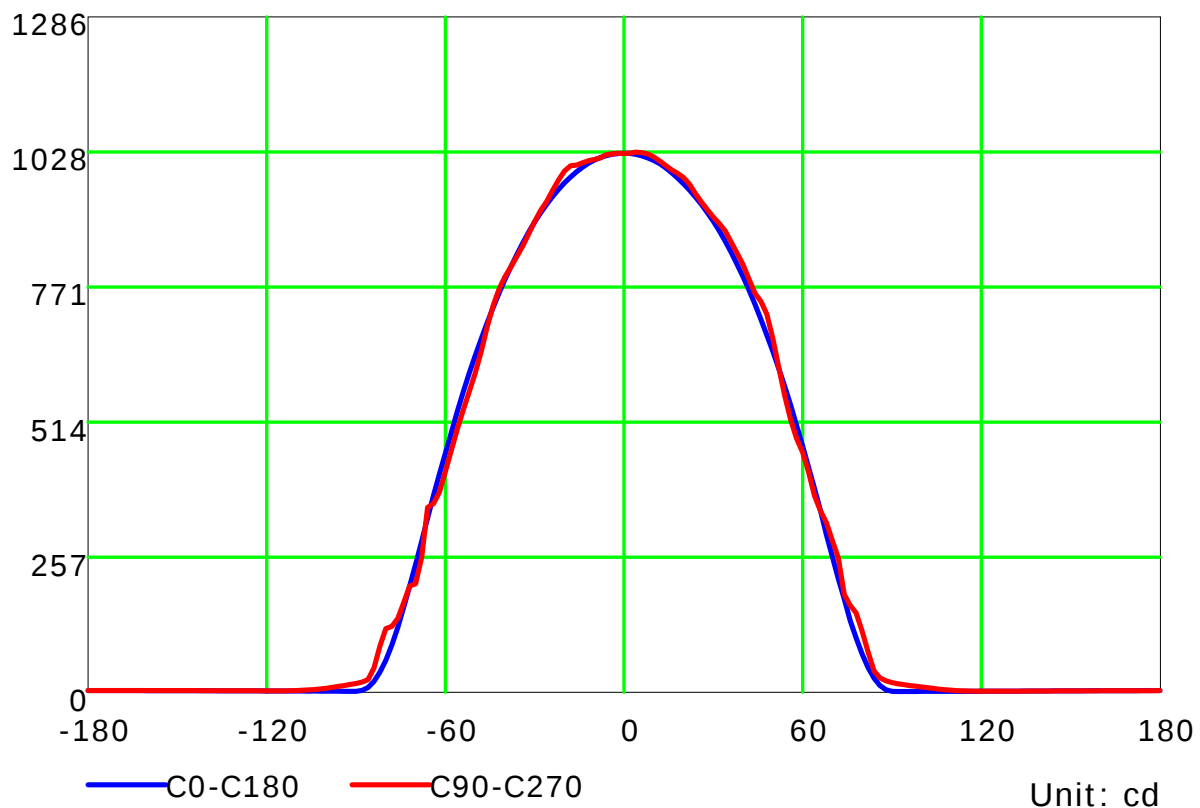
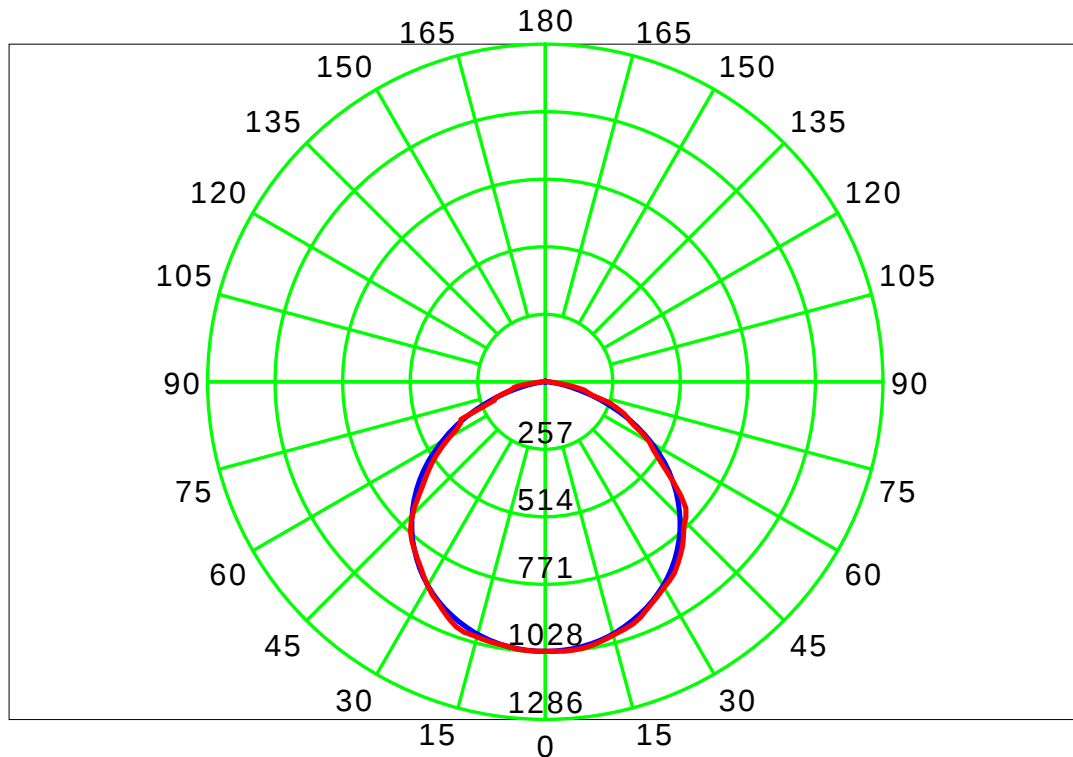
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



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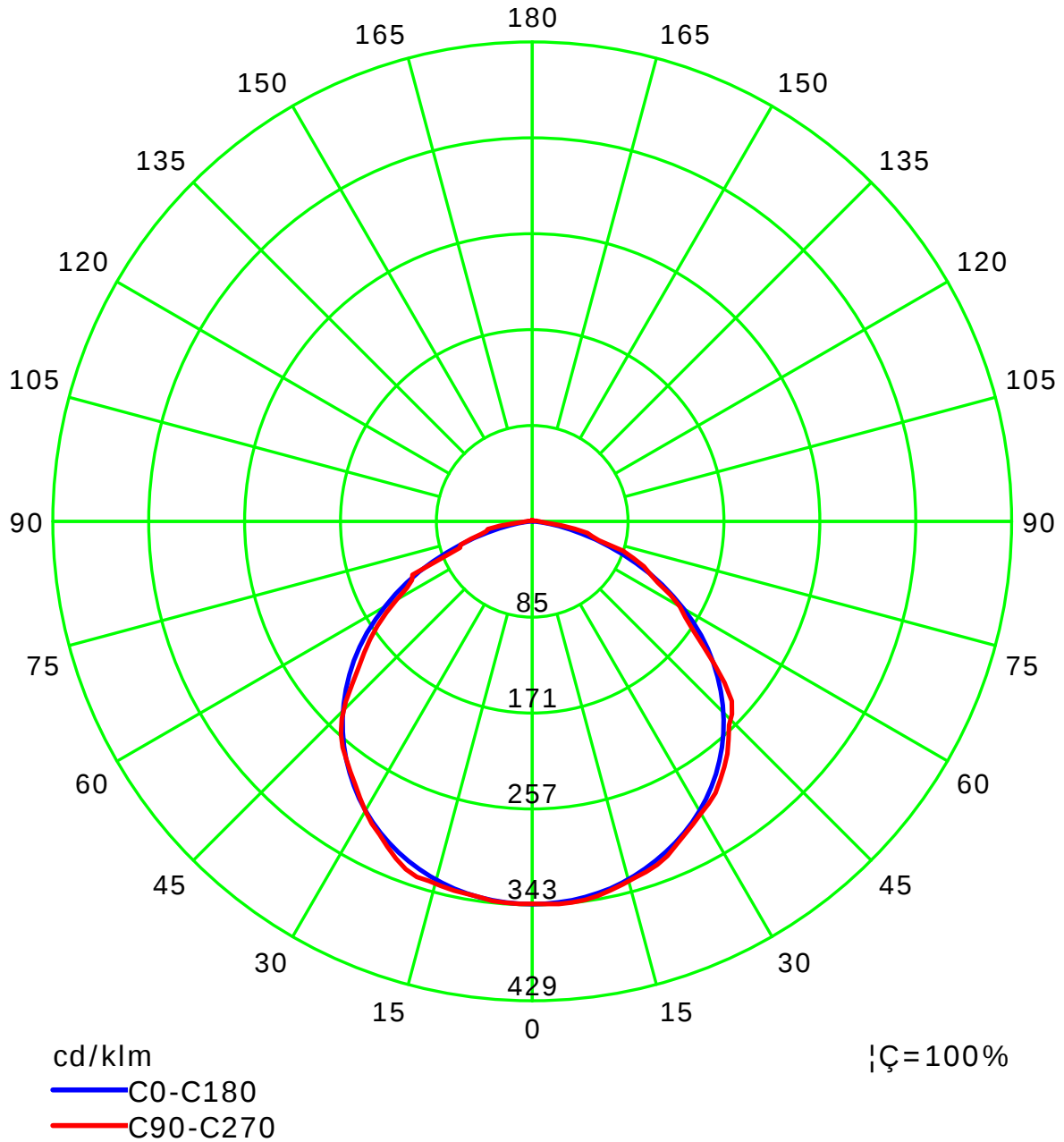
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

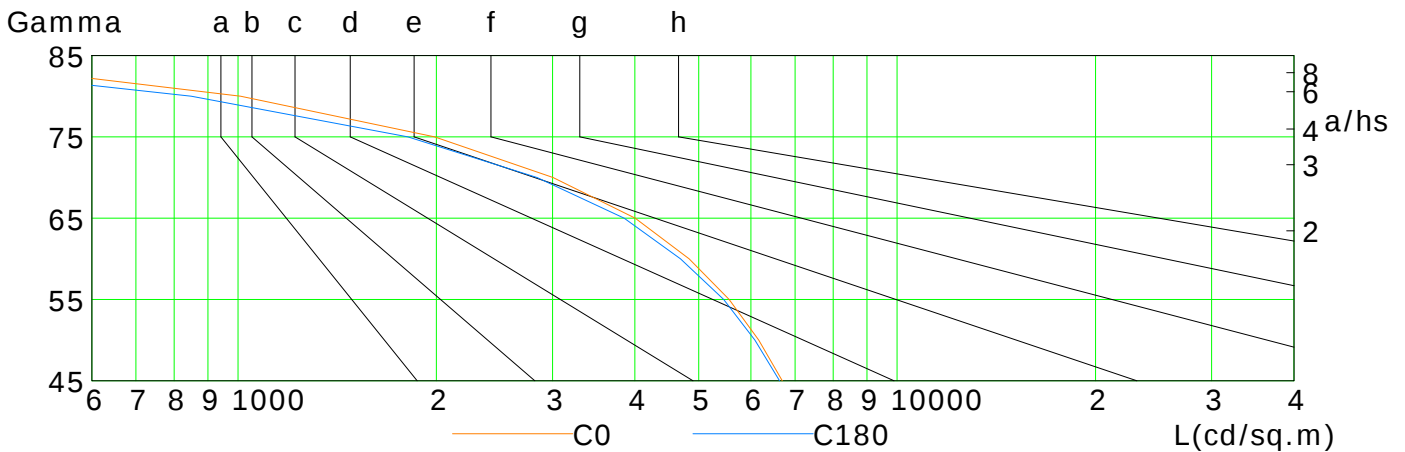
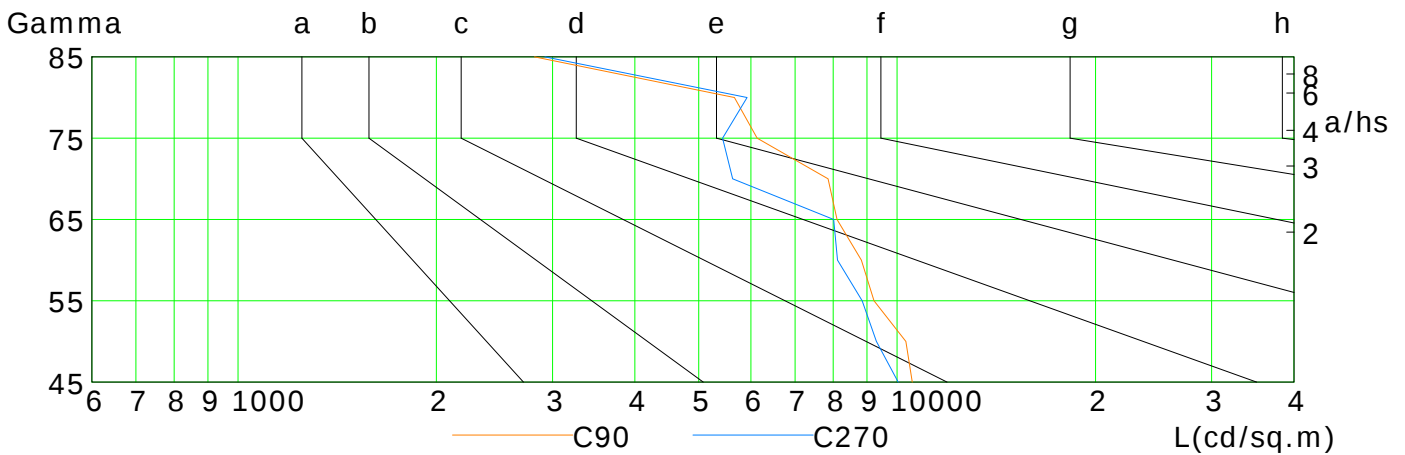
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6696	6167	5561	4835	4004	3007	1987	1009	310
C90	10546	10310	9222	8827	8106	7855	6133	5663	2817
C180	6632	6086	5455	4692	3853	2842	1810	849	235
C270	10035	9304	8848	8118	8012	5631	5434	5920	2921

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

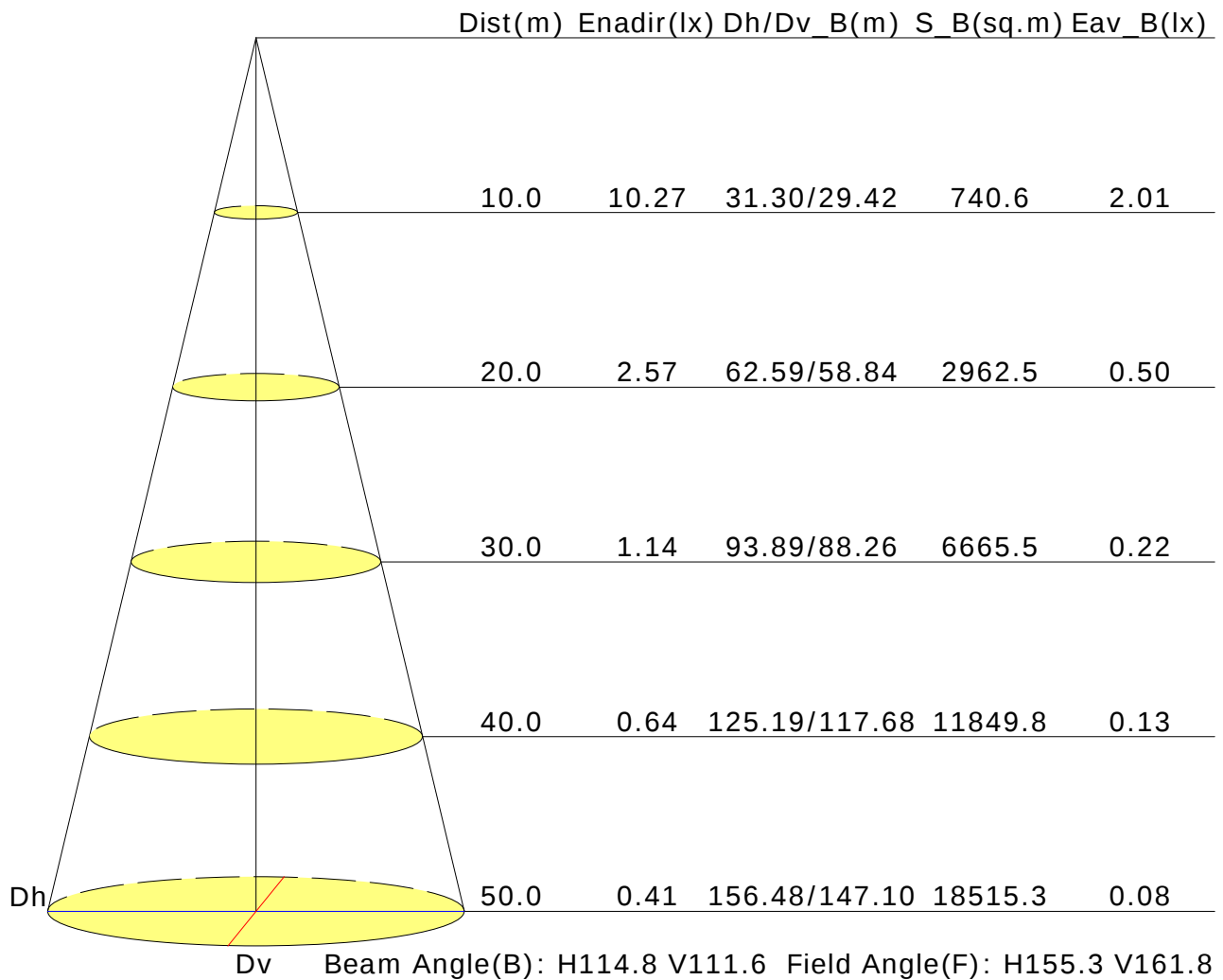
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

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	18.8	20.1	19.1	20.4	20.6	19.5	20.9	19.8	21.1	21.4
3H	19.8	21.0	20.1	21.3	21.6	20.8	22.0	21.2	22.3	22.6
4H	20.0	21.2	20.4	21.5	21.8	21.3	22.4	21.6	22.7	23.0
6H	20.1	21.2	20.5	21.5	21.8	21.6	22.7	22.0	23.0	23.4
8H	20.1	21.1	20.5	21.5	21.8	21.7	22.8	22.1	23.1	23.5
12H	20.0	21.0	20.4	21.4	21.8	21.8	22.8	22.2	23.1	23.5
X=4H Y=2H	19.3	20.5	19.7	20.8	21.1	19.9	21.1	20.2	21.4	21.7
3H	20.5	21.5	20.8	21.8	22.2	21.3	22.3	21.7	22.6	23.0
4H	20.8	21.7	21.2	22.0	22.4	21.8	22.7	22.2	23.1	23.5
6H	20.9	21.7	21.3	22.1	22.5	22.3	23.1	22.7	23.5	23.9
8H	20.9	21.6	21.3	22.0	22.5	22.5	23.2	22.9	23.6	24.0
12H	20.9	21.5	21.3	22.0	22.4	22.5	23.2	23.0	23.6	24.1
X=8H Y=4H	20.9	21.6	21.3	22.0	22.5	21.9	22.6	22.4	23.0	23.5
6H	21.1	21.7	21.6	22.1	22.6	22.5	23.0	22.9	23.5	24.0
8H	21.1	21.6	21.6	22.1	22.6	22.7	23.2	23.2	23.6	24.1
12H	21.1	21.6	21.6	22.0	22.6	22.7	23.2	23.3	23.7	24.2
X=12H Y=4H	20.9	21.6	21.4	22.0	22.4	21.9	22.5	22.4	23.0	23.4
6H	21.1	21.6	21.6	22.1	22.6	22.5	23.0	23.0	23.4	23.9
8H	21.2	21.6	21.7	22.1	22.6	22.7	23.1	23.2	23.6	24.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.8					+0.3/-0.6				
S=2.0H	+0.8/-1.6					+0.9/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2996lm ($8\log(F/F_0) = 3.8$).

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.69	0.77	0.82	0.89	0.94	0.97	1.01	1.04	
	0.30		0.53	0.62	0.70	0.75	0.83	0.88	0.92	0.97	1.01	
	0.20		0.48	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.59	0.67	0.74	0.79	0.86	0.90	0.93	0.97	1.00	
	0.30		0.52	0.60	0.68	0.73	0.81	0.86	0.89	0.94	0.97	
	0.20		0.47	0.56	0.63	0.69	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.57	0.65	0.72	0.76	0.83	0.87	0.90	0.93	0.96	
	0.30		0.51	0.59	0.67	0.72	0.79	0.83	0.86	0.91	0.93	
	0.20		0.47	0.55	0.62	0.68	0.75	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.45	0.52	0.60	0.65	0.72	0.76	0.79	0.84	0.87	
Rating:18W 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 = 1.50									
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	0.93	0.78	0.66	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.78	0.67	0.57	0.50	0.41	0.34	0.30	0.23	0.19	
	0.20		0.67	0.59	0.51	0.45	0.37	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.89	0.75	0.63	0.54	0.43	0.39	0.30	0.23	0.19	
	0.30		0.76	0.65	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.58	0.50	0.44	0.36	0.31	0.27	0.21	0.17	
0.30	0.50	0.20	0.87	0.72	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.74	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.65	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.54	0.47	0.39	0.34	0.27	0.23	0.20	0.15	0.12	
Rating:18W 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 = 1.50									
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		0.06	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	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	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:18W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												