

Report No.:

Test Time: 21.10.2020 13:13

Luminaire Property

Luminaire Manufacturer:

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

Luminous Length (mm): 1215

Luminous Width (mm): 80

Luminous Height (mm): 46

Voltage: 221.4 V

Current: 0.181 A

Power: 34.39 W

Power Factor: 0.856

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5741.8 lm

Measurement Flux: 5741.8 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.3, 162.0, 158.1, 158.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.1, 114.0, 115.8, 116.1

Luminaire Efficacy Rating (LER): 167.01

Central Intensity: 1948.94 cd

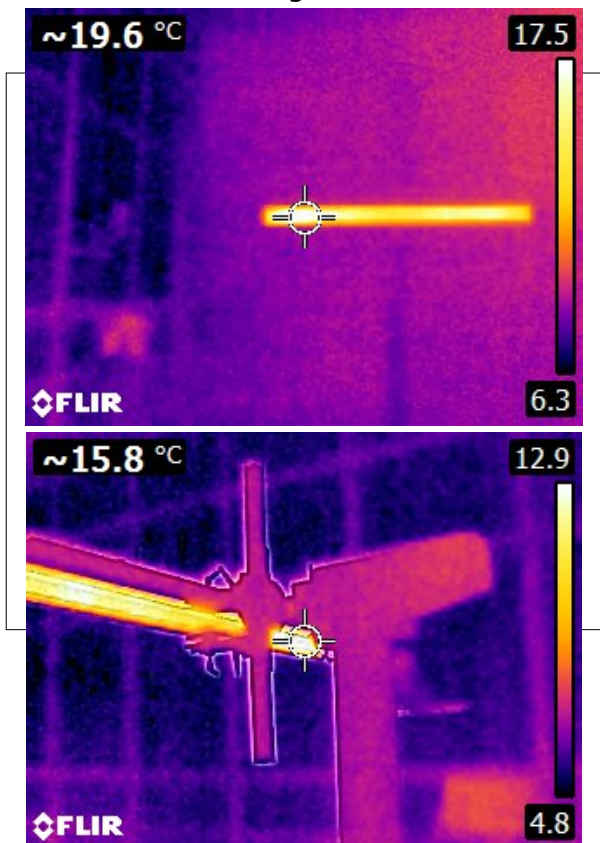
Max. Intensity: 1952.34 cd

Pos of Max. Intensity: H67.5 V6

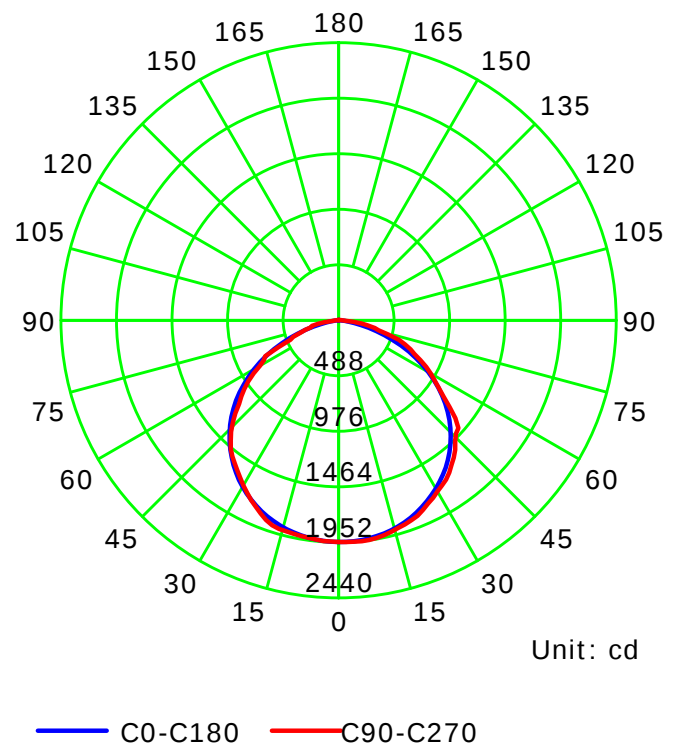
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.30

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

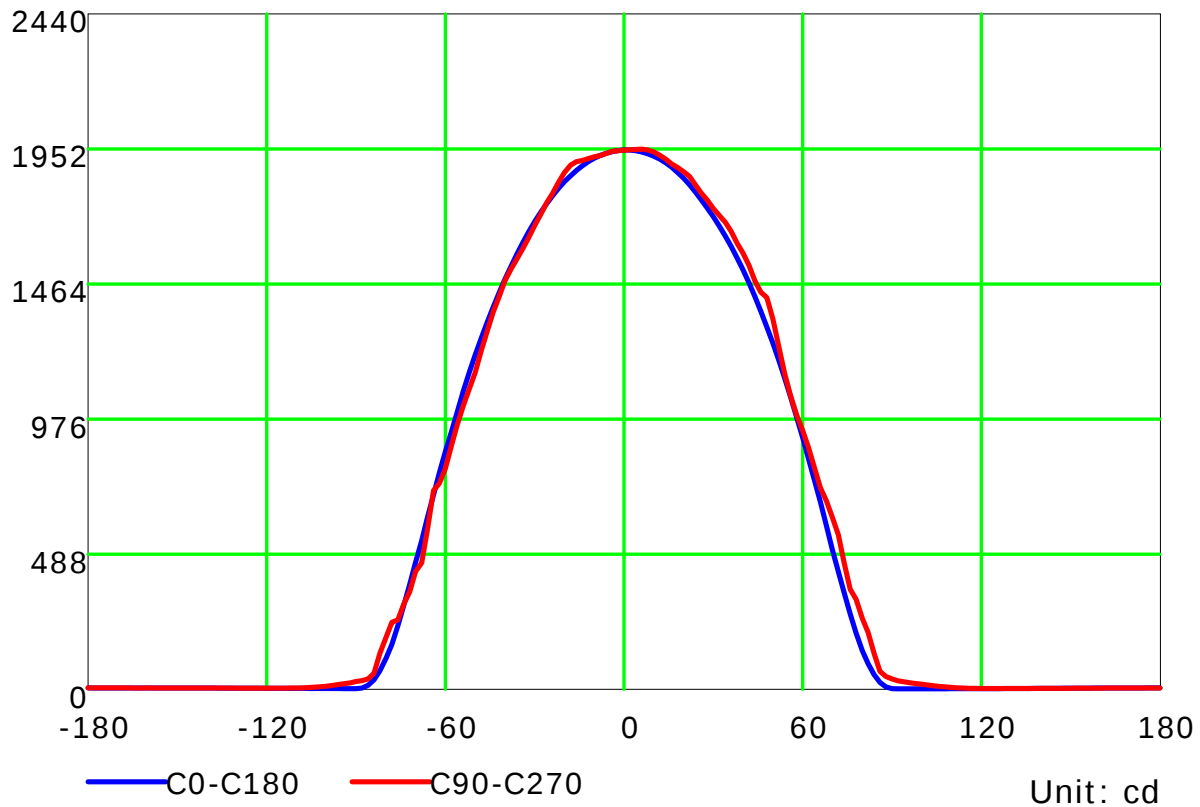
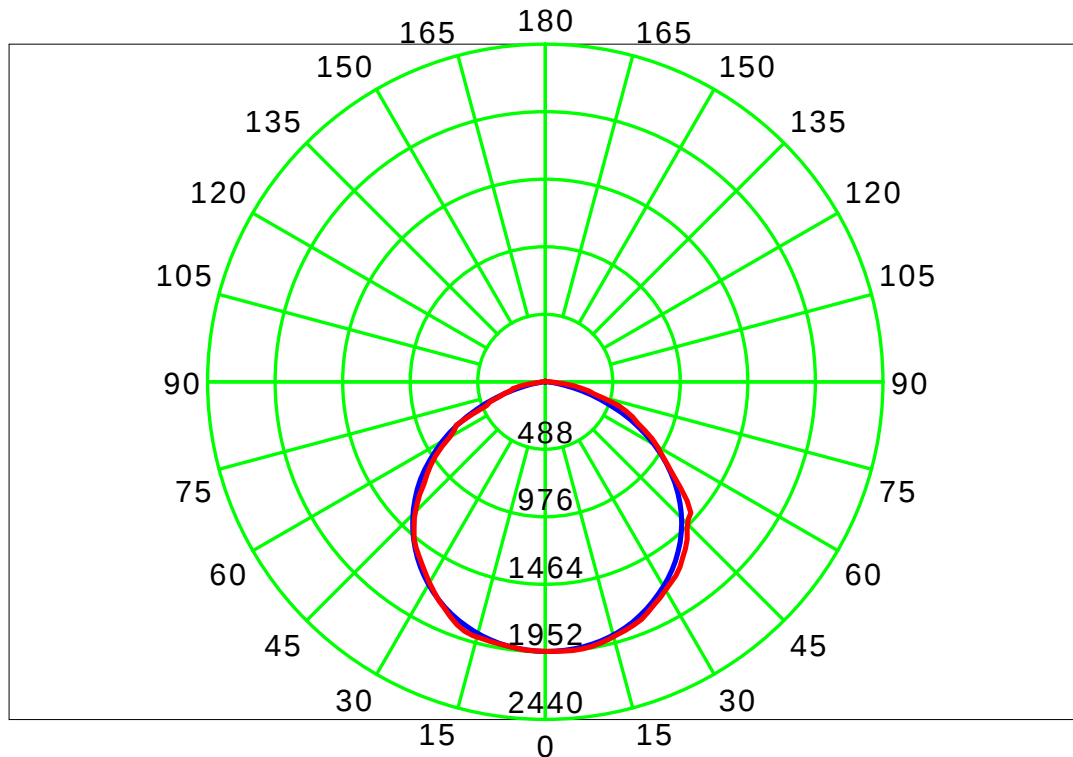
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

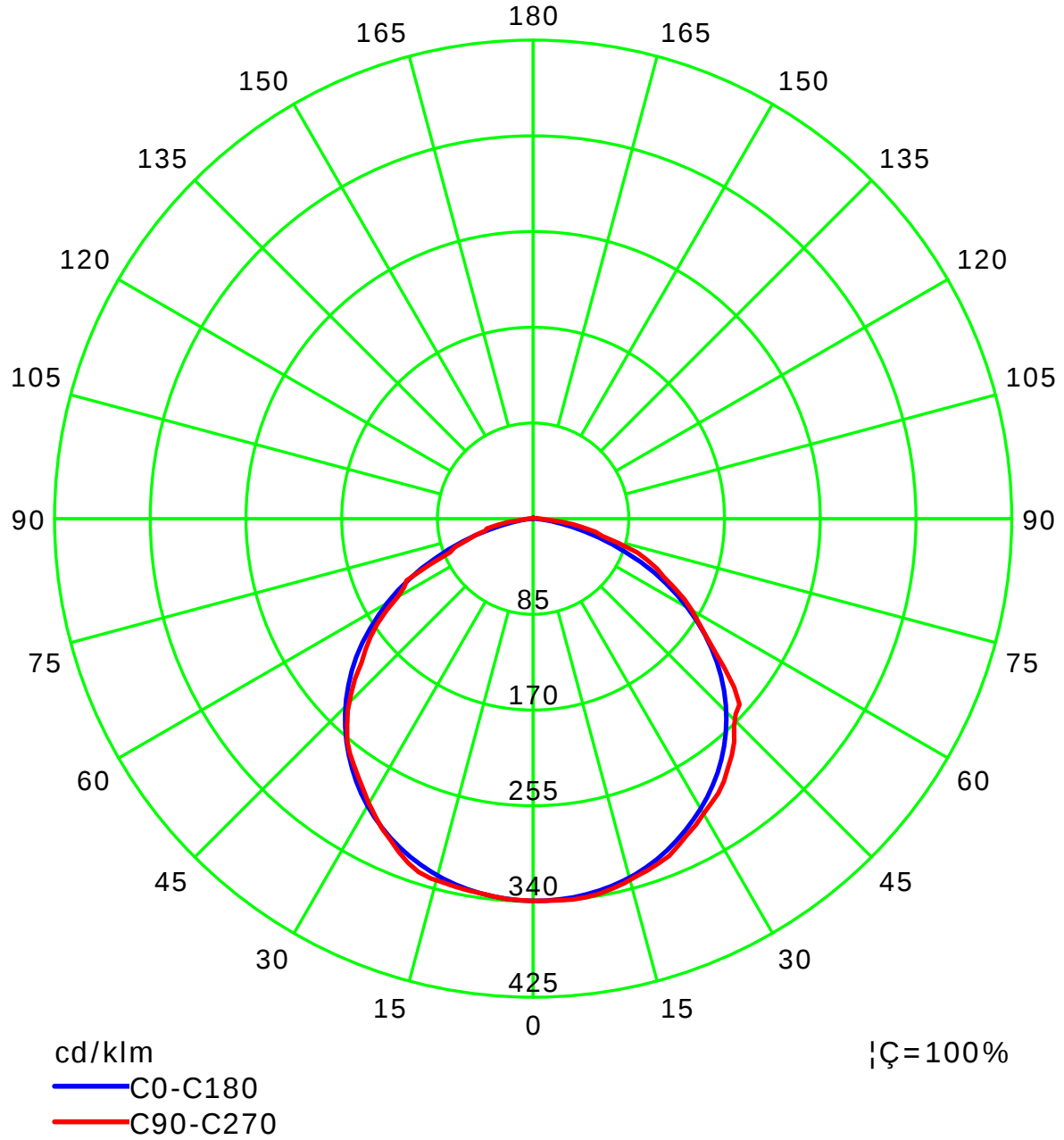
Luminous Intensity Distribution Curve



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Test Lab:
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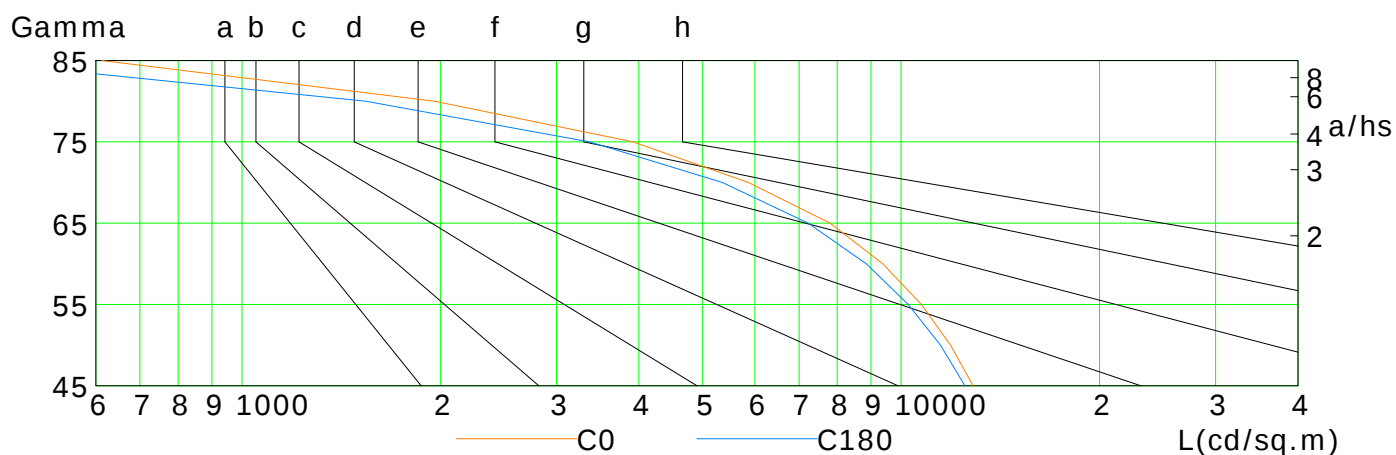
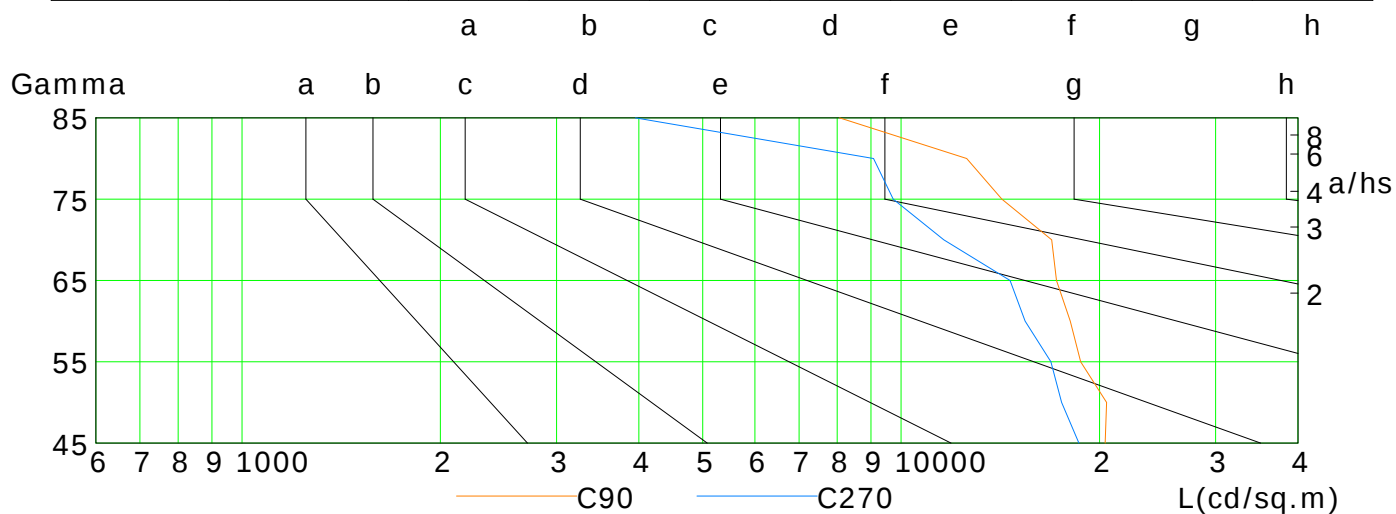
Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

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	12861	11881	10731	9380	7803	5868	3919	1960	613
C90	20401	20502	18725	18059	17206	16919	14223	12573	8067
C180	12499	11472	10250	8855	7229	5355	3368	1541	381
C270	18611	17519	16873	15420	14634	11609	9728	9082	3953

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

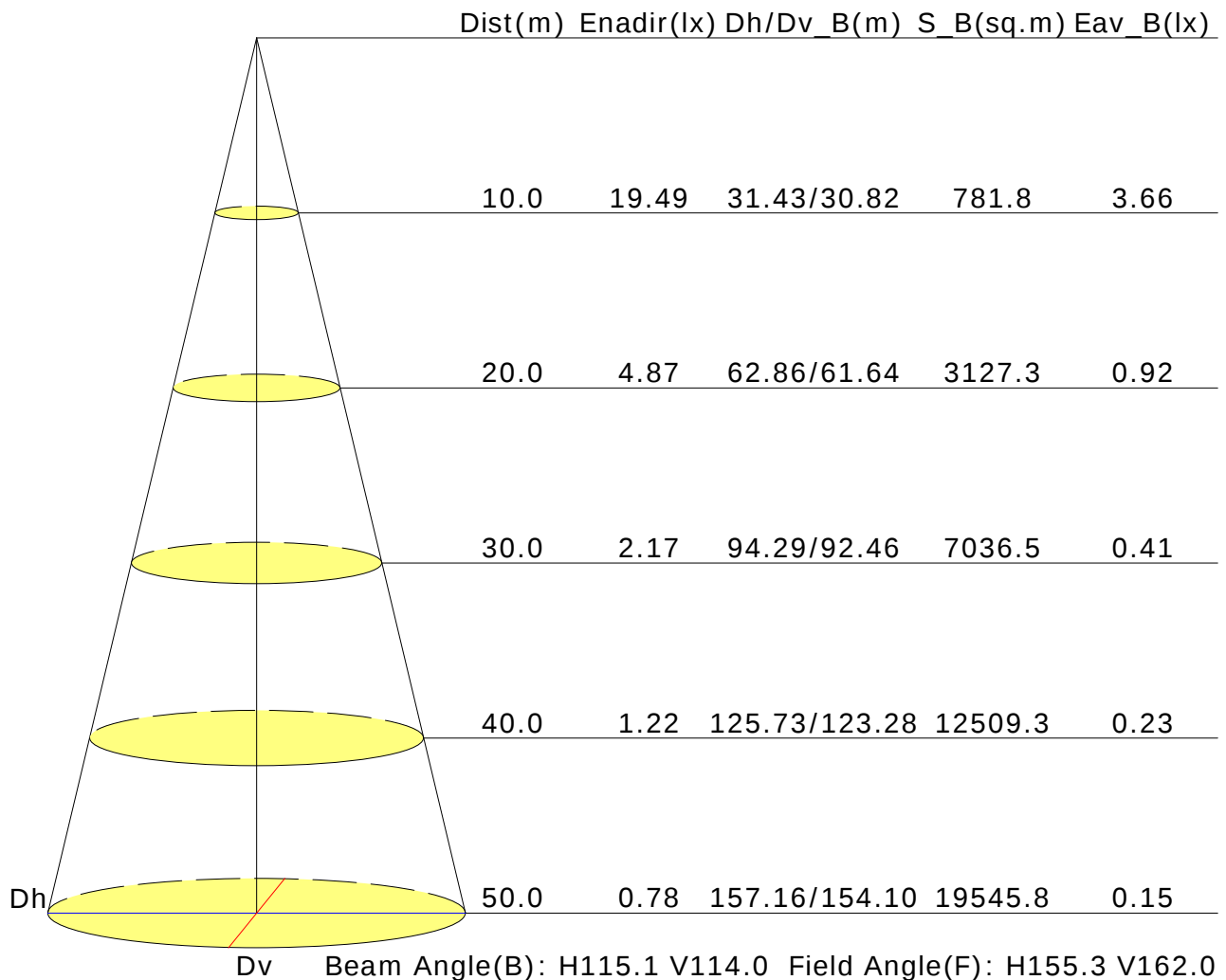
Test Device: LSG-1800B

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	21.1	22.5	21.4	22.7	23.0	22.0	23.3	22.3	23.6	23.8
3H	22.1	23.4	22.5	23.7	23.9	23.3	24.6	23.7	24.9	25.1
4H	22.4	23.6	22.7	23.9	24.2	23.8	25.0	24.2	25.3	25.6
6H	22.5	23.6	22.8	23.9	24.2	24.2	25.3	24.6	25.6	26.0
8H	22.4	23.5	22.8	23.8	24.2	24.3	25.4	24.7	25.7	26.1
12H	22.4	23.4	22.8	23.8	24.1	24.4	25.4	24.8	25.7	26.1
X=4H Y=2H	21.7	22.8	22.0	23.1	23.4	22.4	23.5	22.7	23.8	24.1
3H	22.9	23.9	23.2	24.2	24.6	23.8	24.9	24.2	25.2	25.6
4H	23.2	24.1	23.6	24.5	24.8	24.4	25.4	24.9	25.7	26.1
6H	23.3	24.1	23.8	24.5	24.9	24.9	25.7	25.4	26.1	26.5
8H	23.3	24.1	23.8	24.5	24.9	25.1	25.8	25.5	26.2	26.7
12H	23.3	24.0	23.8	24.4	24.9	25.2	25.8	25.6	26.3	26.7
X=8H Y=4H	23.4	24.1	23.8	24.5	24.9	24.5	25.3	25.0	25.7	26.1
6H	23.6	24.2	24.0	24.6	25.1	25.1	25.7	25.6	26.1	26.6
8H	23.6	24.1	24.1	24.6	25.1	25.3	25.9	25.8	26.3	26.8
12H	23.6	24.1	24.1	24.5	25.1	25.4	25.9	25.9	26.4	26.9
X=12H Y=4H	23.4	24.0	23.8	24.5	24.9	24.5	25.2	25.0	25.6	26.1
6H	23.6	24.1	24.1	24.6	25.1	25.1	25.6	25.6	26.1	26.6
8H	23.6	24.1	24.2	24.6	25.1	25.3	25.8	25.9	26.3	26.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.3				
S=1.5H	+0.4/-0.8					+0.4/-0.6				
S=2.0H	+0.8/-1.4					+0.7/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 5742lm ($8\log(F/F_0) = 6.1$).

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Test Lab:

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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 = 1.50									
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	0.76	0.82	0.89	0.93	0.97	1.01	1.04	
	0.30		0.53	0.61	0.69	0.75	0.83	0.88	0.92	0.97	1.01	
	0.20		0.47	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	0.85	0.90	0.93	0.97	1.00	
	0.30		0.52	0.60	0.68	0.73	0.80	0.85	0.89	0.94	0.97	
	0.20		0.47	0.55	0.63	0.68	0.76	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.57	0.65	0.72	0.76	0.82	0.87	0.89	0.93	0.96	
	0.30		0.51	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.93	
	0.20		0.47	0.54	0.62	0.67	0.75	0.80	0.83	0.88	0.91	
0.00	0.00	0.00	0.44	0.52	0.59	0.64	0.71	0.76	0.79	0.84	0.87	
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 = 1.50									
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	0.94	0.79	0.67	0.58	0.46	0.38	0.32	0.25	0.20	
	0.30		0.78	0.68	0.58	0.51	0.41	0.35	0.30	0.24	0.19	
	0.20		0.67	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.90	0.76	0.64	0.55	0.44	0.40	0.31	0.24	0.19	
	0.30		0.76	0.66	0.56	0.49	0.40	0.33	0.29	0.23	0.18	
	0.20		0.66	0.58	0.50	0.45	0.37	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.87	0.73	0.61	0.53	0.42	0.34	0.29	0.23	0.18	
	0.30		0.75	0.64	0.55	0.48	0.38	0.32	0.28	0.22	0.18	
	0.20		0.65	0.57	0.49	0.44	0.36	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.55	0.47	0.40	0.35	0.28	0.23	0.20	0.16	0.13	
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 = 1.50									
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	0.16	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	0.13	0.15	0.16	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	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	0.18	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.15	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:34W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												