

Report No.:

Test Time: 01.10.2020 16:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0.3A 45W 4000K prozrachnoe steclo

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.219 A

Power: 47.48 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 7027.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 7027.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.0, 155.9, 153.1, 153.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.9, 116.5, 121.2, 121.0

Luminaire Efficacy Rating (LER): 148.06

Central Intensity: 2480.46 cd

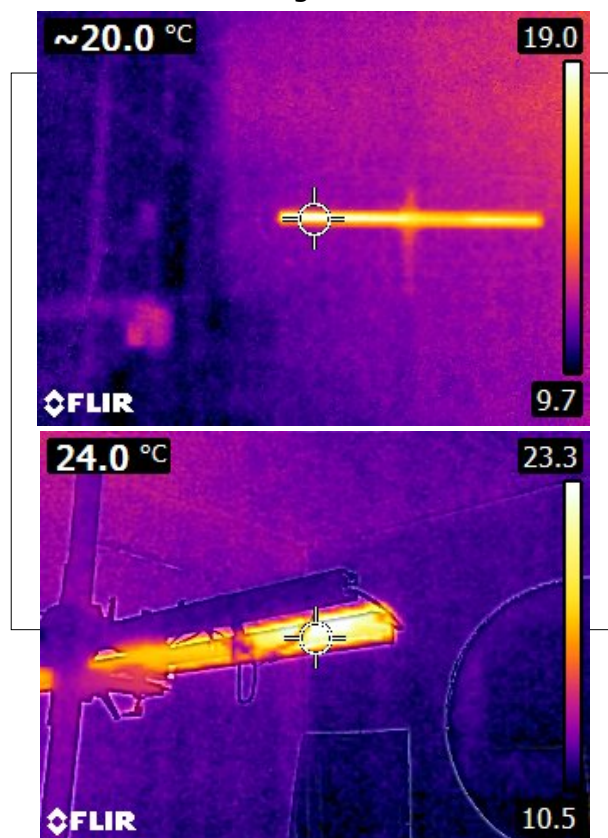
Max. Intensity: 2496.39 cd

Pos of Max. Intensity: H112.5 V6

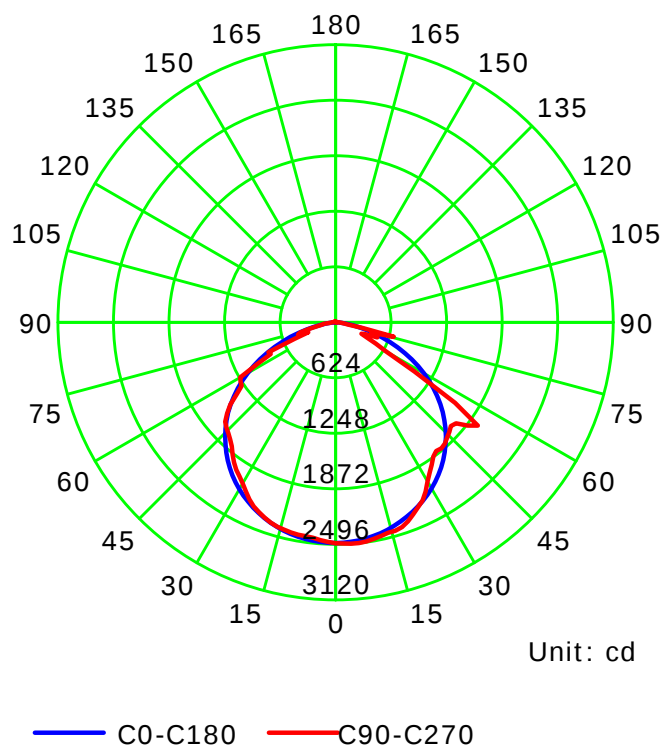
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.24

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

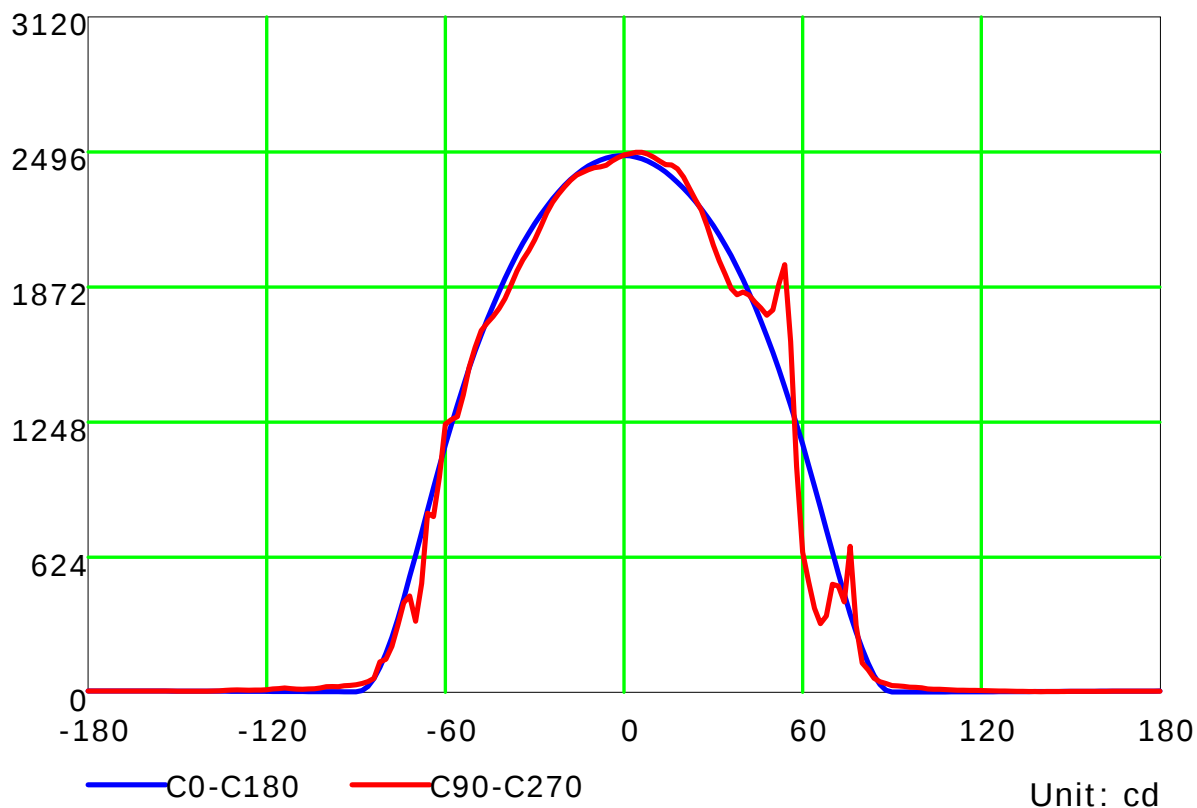
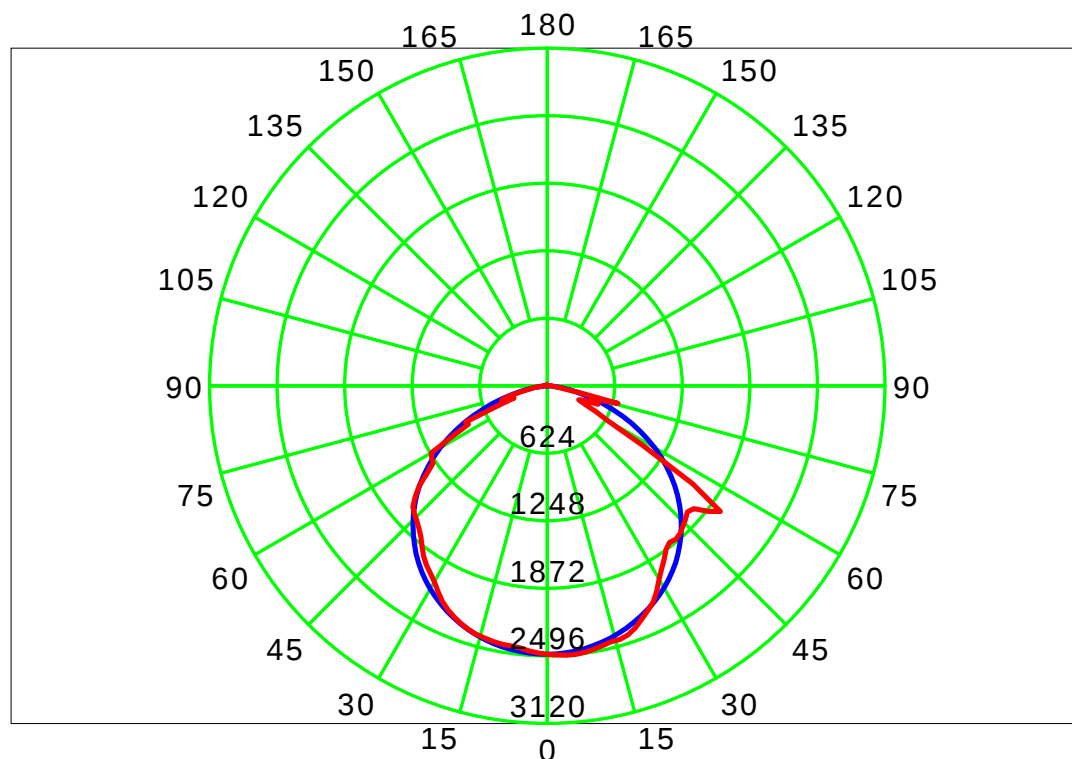
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

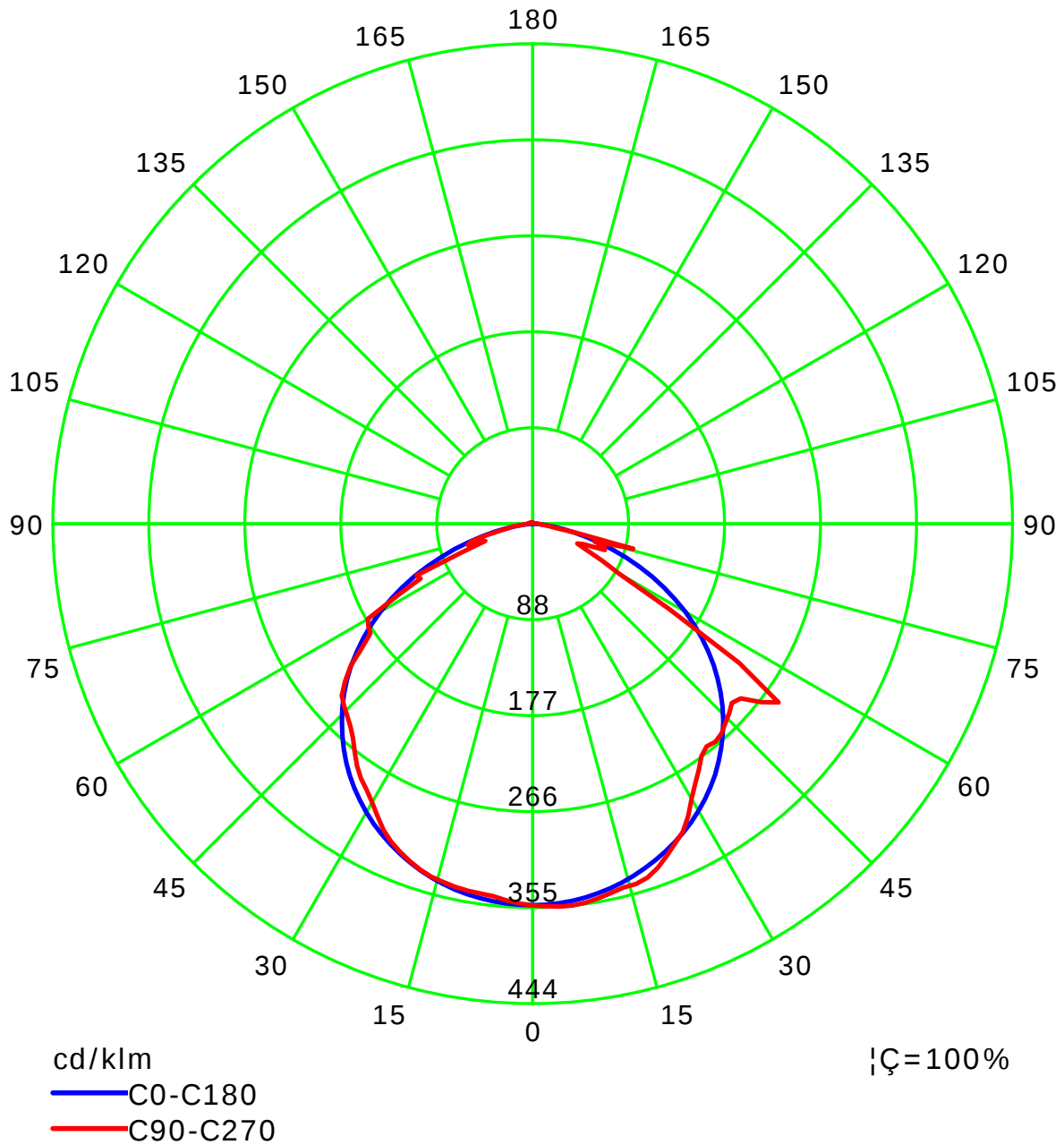
Luminous Intensity Distribution Curve



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(cd / klm)



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

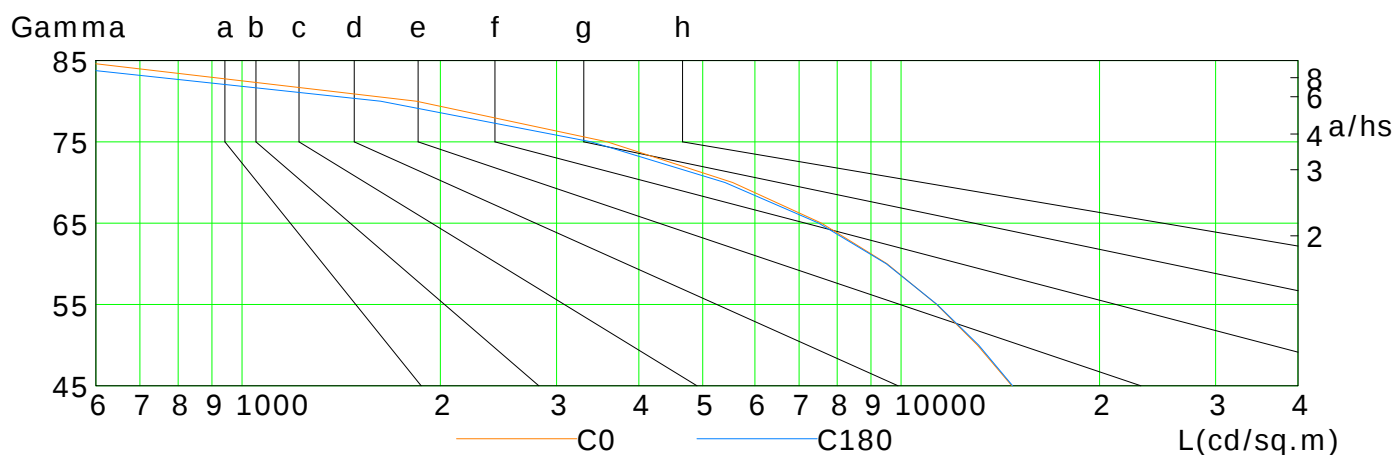
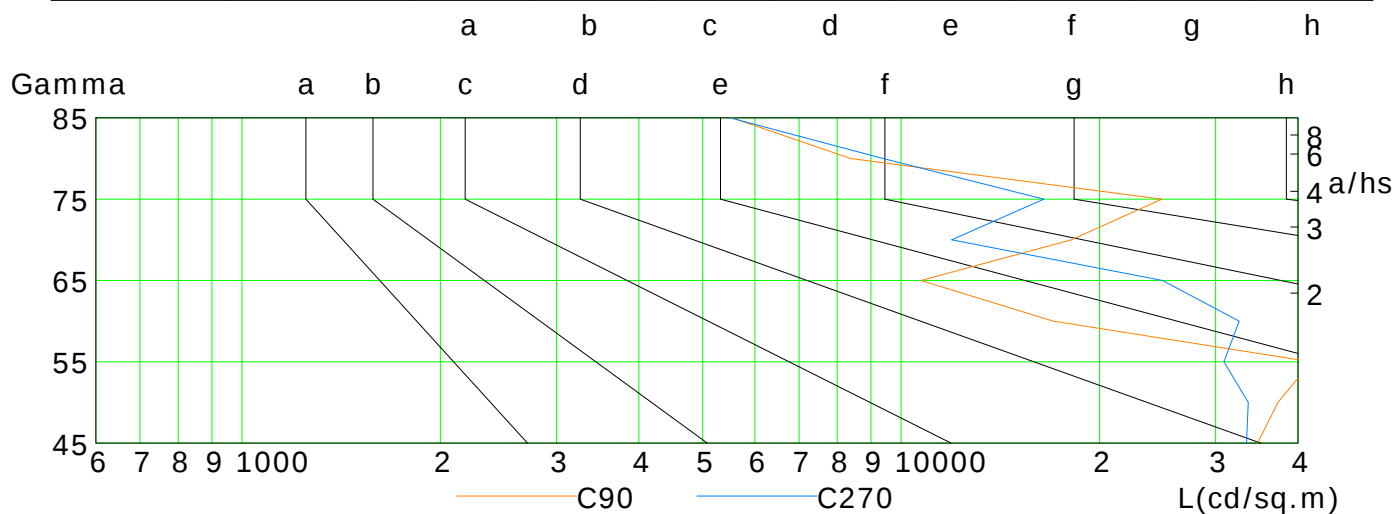
Distance: 12.682 m

Humidity:

Inspector:

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	14725	13056	11321	9523	7573	5551	3583	1838	547
C90	34726	37283	41936	17006	10719	18125	24864	8380	5543
C180	14761	13115	11339	9494	7498	5403	3387	1623	434
C270	33411	33630	30878	32578	24909	11930	16463	9391	5506

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

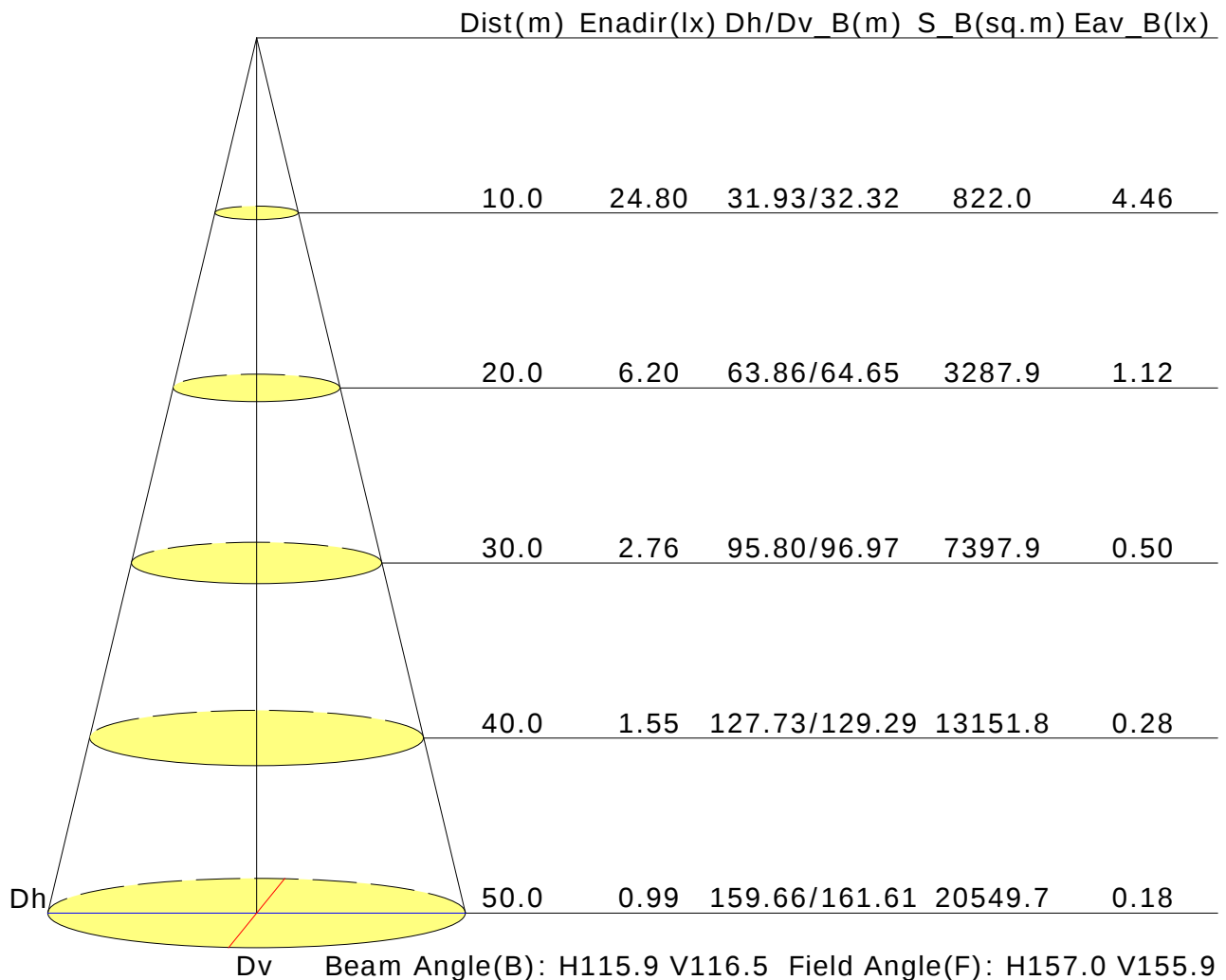
Test Device: LSG-1800B

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	21.1	22.5	21.4	22.7	23.0	23.2	24.5	23.5	24.8	25.0
3H	22.1	23.3	22.4	23.6	23.9	23.8	25.0	24.1	25.3	25.6
4H	22.3	23.5	22.7	23.8	24.1	24.3	25.4	24.7	25.8	26.1
6H	22.4	23.4	22.7	23.8	24.1	24.6	25.7	25.0	26.0	26.4
8H	22.3	23.4	22.7	23.7	24.1	24.6	25.7	25.0	26.0	26.4
12H	22.3	23.3	22.7	23.7	24.0	24.6	25.6	25.0	26.0	26.3
X=4H Y=2H	21.7	22.9	22.1	23.2	23.5	23.4	24.5	23.8	24.8	25.2
3H	22.8	23.8	23.2	24.1	24.5	24.0	25.0	24.4	25.4	25.7
4H	23.1	23.9	23.5	24.3	24.7	24.7	25.6	25.1	25.9	26.3
6H	23.1	23.9	23.6	24.3	24.7	25.1	25.9	25.5	26.3	26.7
8H	23.1	23.8	23.6	24.2	24.7	25.1	25.9	25.6	26.3	26.7
12H	23.1	23.7	23.6	24.2	24.6	25.1	25.8	25.6	26.2	26.7
X=8H Y=4H	23.1	23.8	23.5	24.2	24.7	24.7	25.4	25.1	25.8	26.3
6H	23.2	23.8	23.7	24.2	24.7	25.2	25.7	25.6	26.2	26.7
8H	23.2	23.7	23.7	24.2	24.7	25.2	25.7	25.7	26.2	26.7
12H	23.2	23.6	23.7	24.1	24.6	25.2	25.7	25.7	26.2	26.7
X=12H Y=4H	23.1	23.7	23.5	24.2	24.6	24.7	25.3	25.1	25.7	26.2
6H	23.2	23.7	23.7	24.2	24.7	25.1	25.6	25.6	26.1	26.6
8H	23.2	23.7	23.7	24.1	24.7	25.2	25.6	25.7	26.1	26.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.6/-1.1					+0.7/-1.2				
S=2.0H	+1.1/-1.8					+1.8/-2.7				

Calculate in accordance with CIE Pub.117. The table is revised with 7028lm ($8\log(F/F_0) = 6.8$).

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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		0.50	0.61	0.69	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	0.56	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00	
	0.30		0.49	0.59	0.67	0.73	0.80	0.85	0.89	0.94	0.97	
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.86	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	0.66	0.71	0.78	0.83	0.86	0.91	0.94	
	0.20		0.43	0.54	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	0.64	0.71	0.76	0.79	0.84	0.87	
Rating:47W 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	0.80	0.68	0.59	0.47	0.38	0.33	0.25	0.21	
	0.30		0.82	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	0.38	0.33	0.28	0.22	0.19	
0.50	0.50	0.20	0.95	0.77	0.65	0.56	0.44	0.40	0.31	0.24	0.19	
	0.30		0.80	0.67	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.70	0.59	0.51	0.46	0.37	0.32	0.27	0.22	0.18	
0.30	0.50	0.20	0.92	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.79	0.65	0.56	0.49	0.39	0.33	0.28	0.22	0.18	
	0.20		0.69	0.58	0.50	0.45	0.36	0.31	0.26	0.21	0.17	
0.00	0.00	0.00	0.59	0.48	0.41	0.36	0.29	0.24	0.20	0.16	0.13	
Rating:47W 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	0.21	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	0.19	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		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	
	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	0.08	0.10	0.11	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:47W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												