

Report No.:

Test Time: 02.10.2020 13:40

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0.35A 55W 4000K opal

Luminous Length (mm): 1245

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.256 A

Power: 55.54 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 5567.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 5567.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.0, 164.7, 162.5, 162.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.7, 114.2, 114.6, 114.6

Luminaire Efficacy Rating (LER): 100.29

Central Intensity: 1876.54 cd

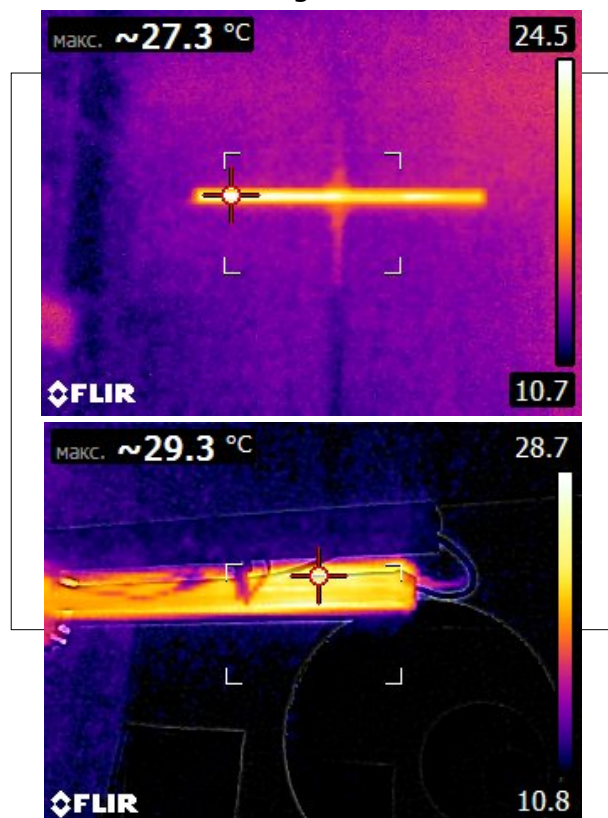
Max. Intensity: 1881.41 cd

Pos of Max. Intensity: H157.5 V0

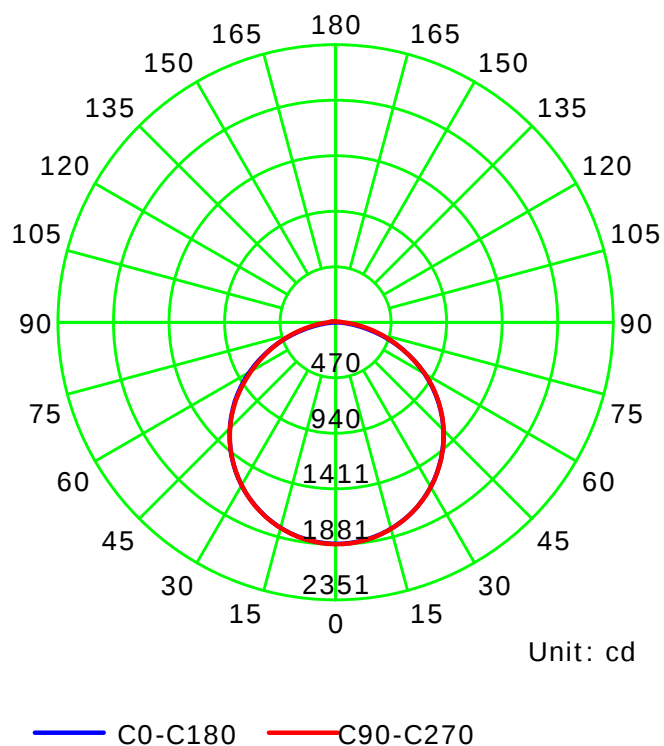
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.27

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

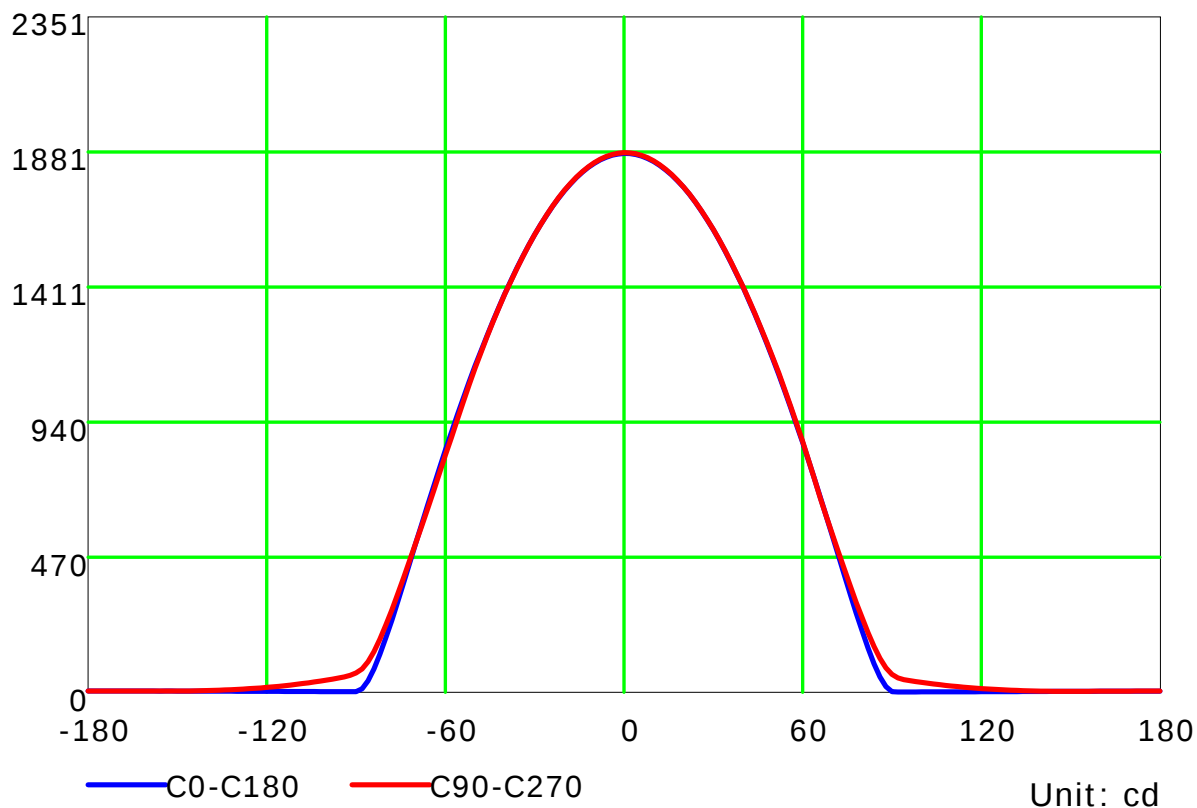
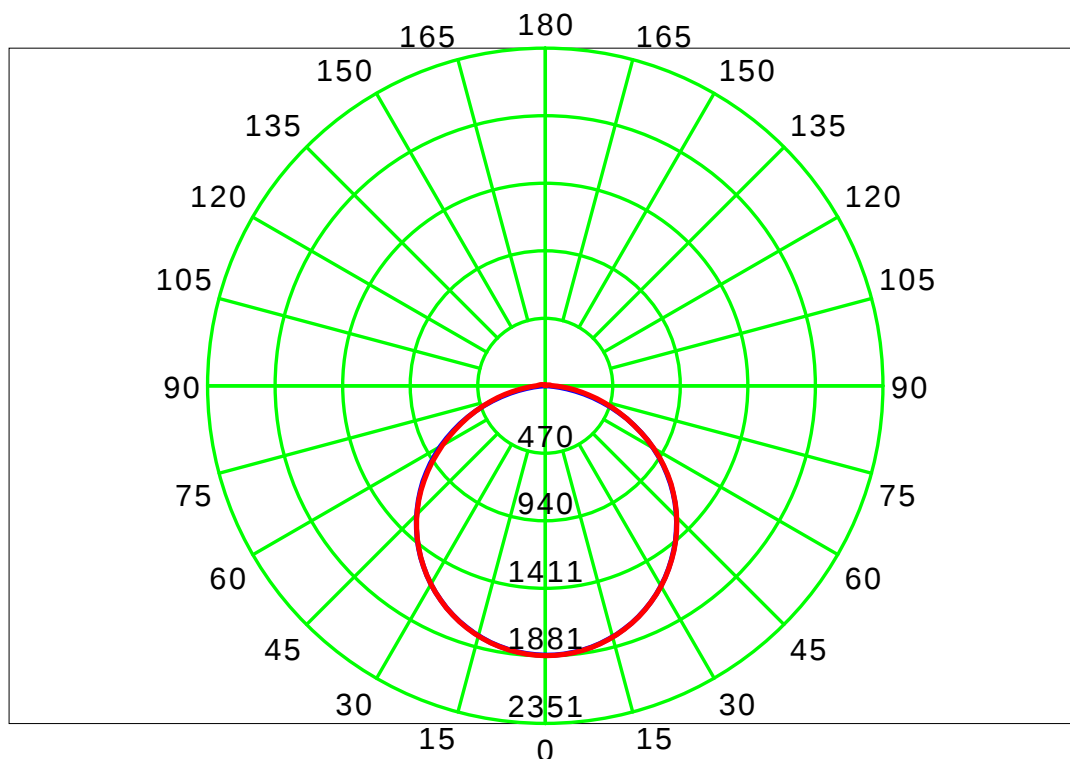
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

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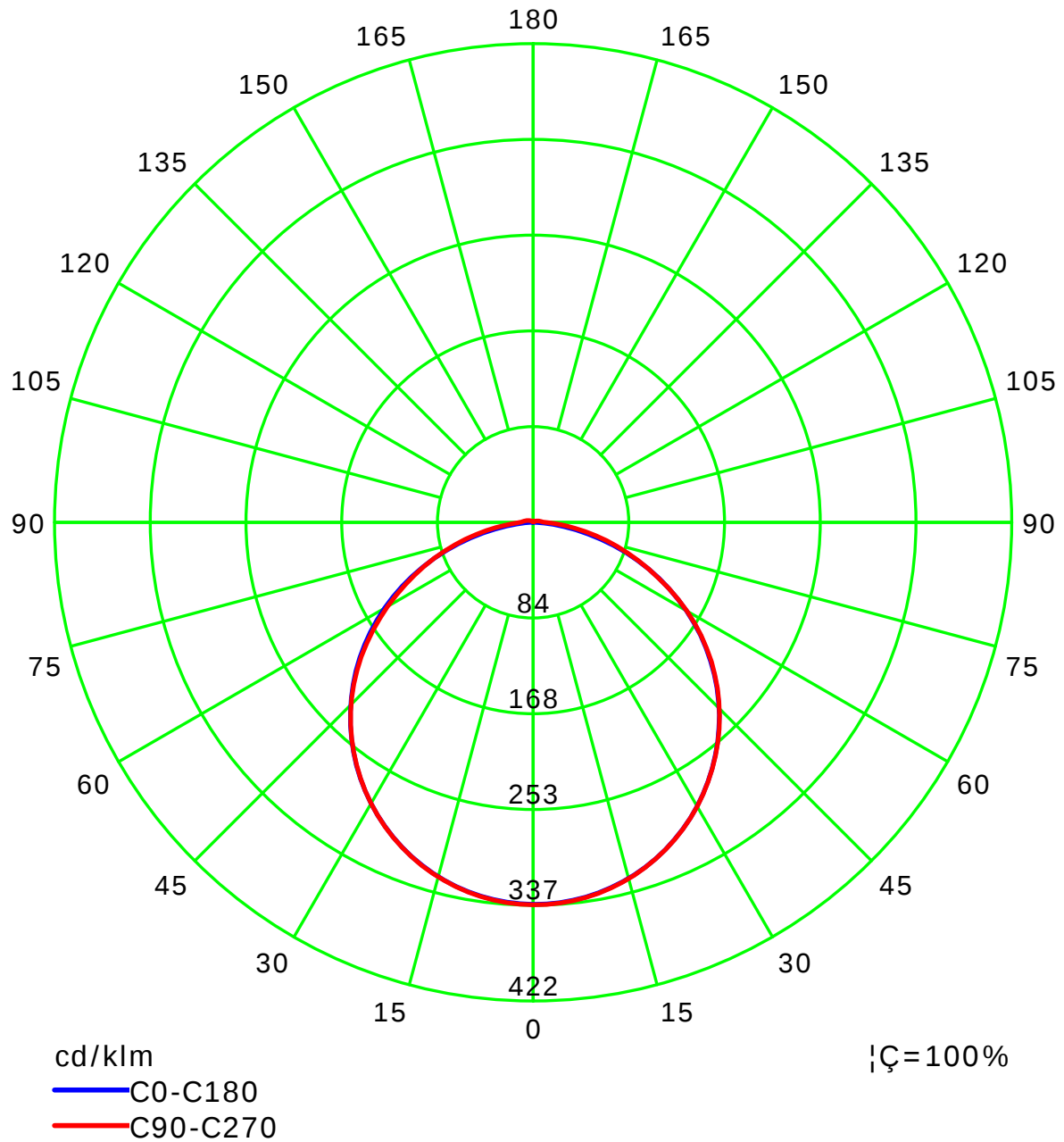
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

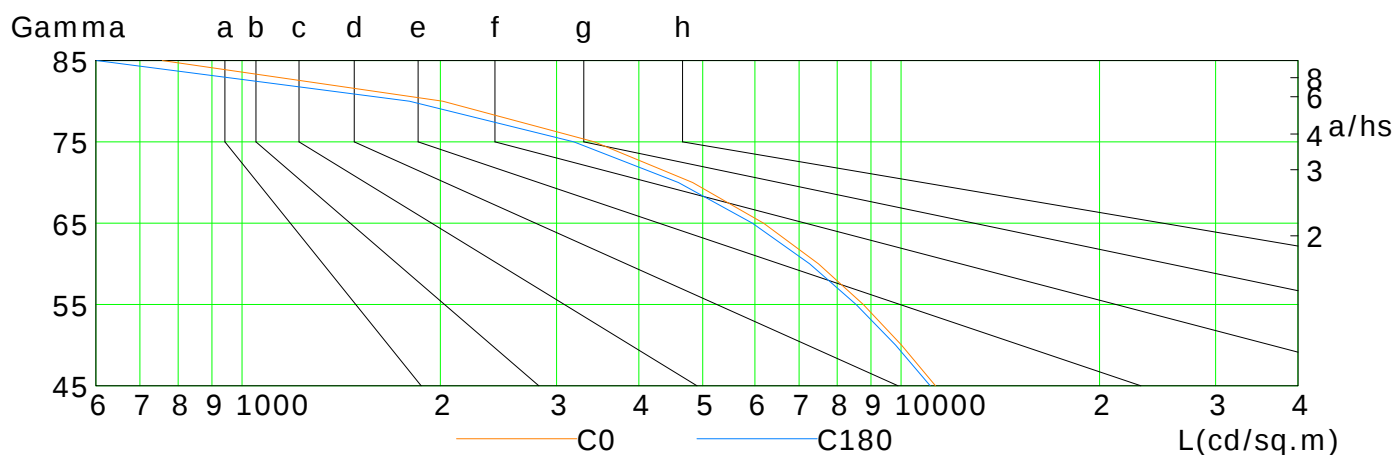
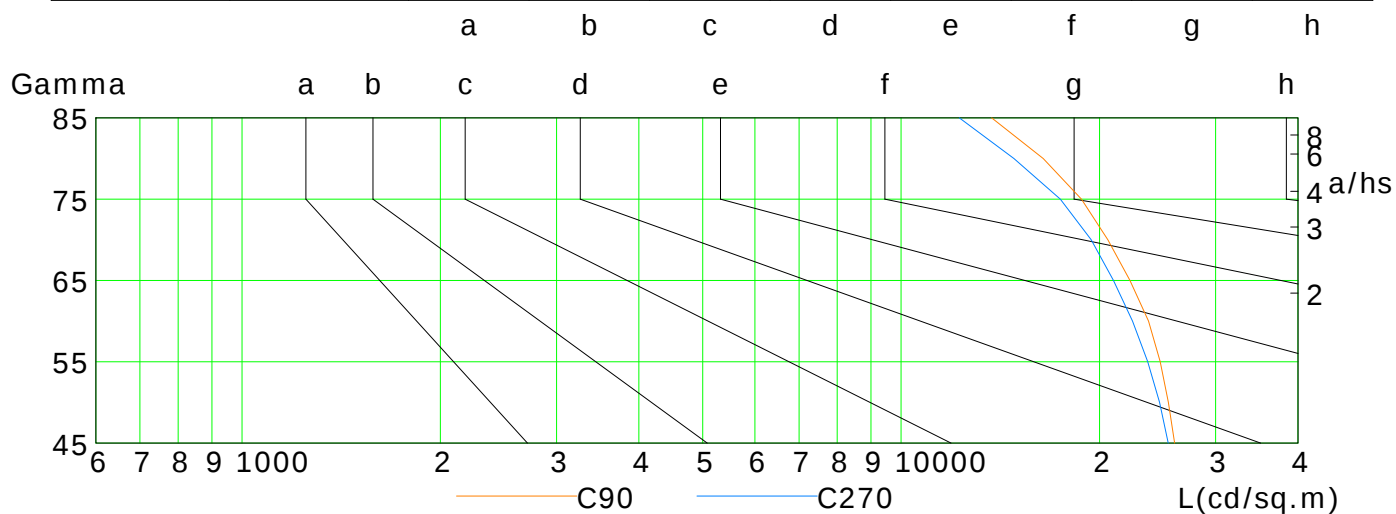
Inspector:

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	11276	10014	8762	7491	6185	4826	3424	2016	757
C90	25992	25441	24724	23728	22237	20585	18778	16430	13717
C180	11069	9810	8541	7263	5948	4592	3188	1795	602
C270	25417	24673	23664	22447	21003	19425	17442	14832	12252

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

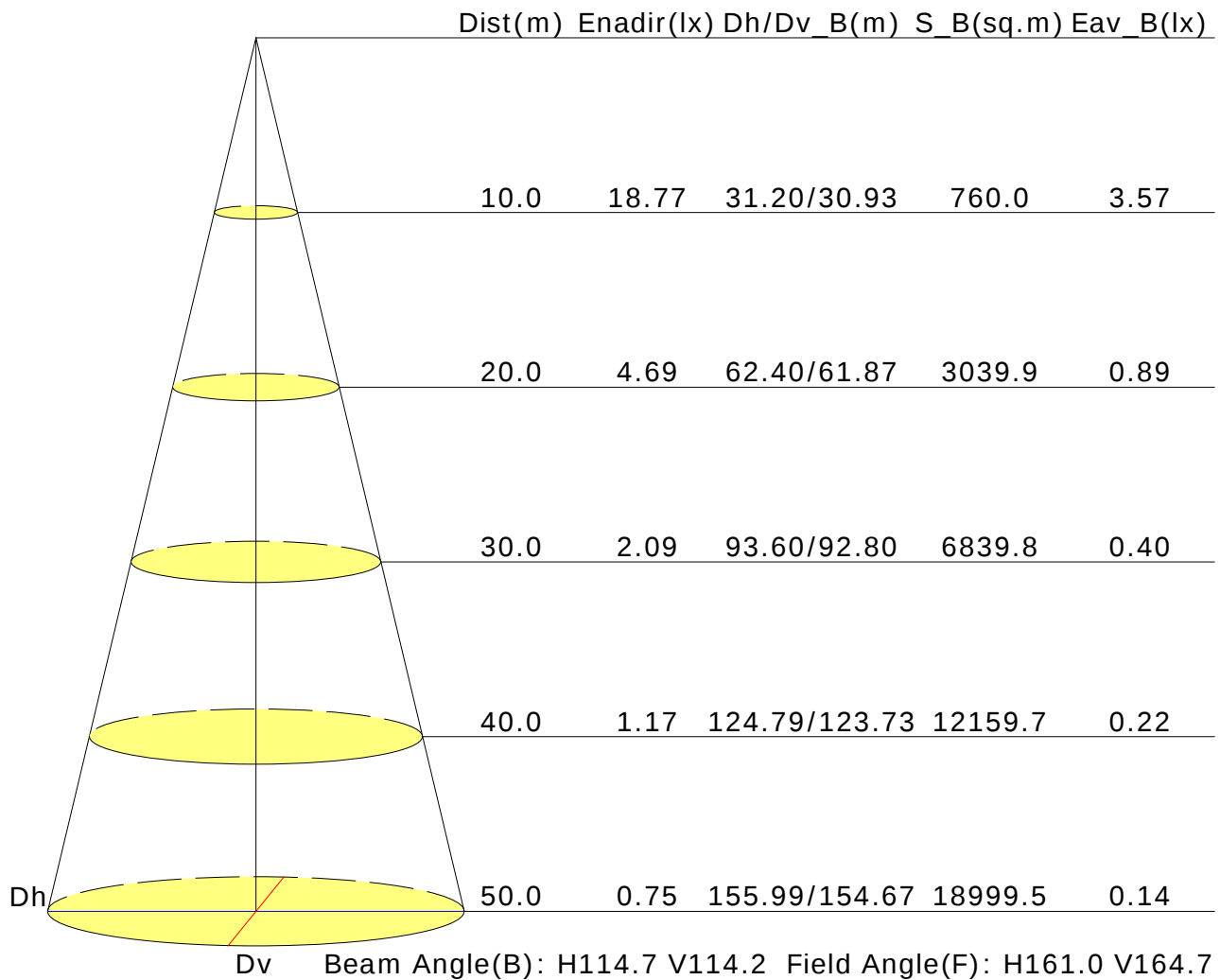
Test Device: LSG-1800B

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	20.3	21.7	20.6	21.9	22.2	22.2	23.6	22.5	23.8	24.1
3H	21.3	22.6	21.7	22.9	23.2	23.7	24.9	24.0	25.2	25.5
4H	21.7	22.9	22.0	23.2	23.5	24.3	25.5	24.6	25.8	26.1
6H	21.8	22.9	22.2	23.3	23.6	24.7	25.8	25.1	26.2	26.5
8H	21.9	22.9	22.2	23.3	23.6	24.9	26.0	25.3	26.3	26.7
12H	21.8	22.9	22.2	23.2	23.6	25.0	26.0	25.4	26.4	26.8
X=4H Y=2H	20.9	22.1	21.3	22.4	22.8	22.5	23.6	22.8	24.0	24.3
3H	22.1	23.2	22.5	23.5	23.9	24.1	25.1	24.5	25.4	25.8
4H	22.5	23.5	23.0	23.8	24.2	24.8	25.7	25.2	26.1	26.5
6H	22.8	23.6	23.2	24.0	24.4	25.3	26.1	25.7	26.5	27.0
8H	22.8	23.6	23.3	24.0	24.4	25.5	26.3	26.0	26.7	27.1
12H	22.8	23.5	23.3	23.9	24.4	25.7	26.3	26.1	26.8	27.3
X=8H Y=4H	22.8	23.5	23.2	23.9	24.4	24.8	25.6	25.3	26.0	26.4
6H	23.1	23.7	23.6	24.1	24.6	25.4	26.0	25.9	26.5	27.0
8H	23.1	23.7	23.6	24.1	24.7	25.7	26.2	26.2	26.7	27.2
12H	23.2	23.6	23.7	24.1	24.7	25.9	26.4	26.4	26.8	27.4
X=12H Y=4H	22.8	23.4	23.2	23.9	24.4	24.8	25.5	25.3	25.9	26.4
6H	23.1	23.6	23.6	24.1	24.6	25.4	26.0	25.9	26.4	27.0
8H	23.2	23.7	23.7	24.1	24.7	25.7	26.2	26.2	26.7	27.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.6				
S=2.0H	+0.7/-1.3					+1.2/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 5567lm ($8\log(F/F_0) = 6.0$).

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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 = 1.25									
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	0.56	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.77	0.83	0.87	0.92	0.95	
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.68	0.73	0.76	0.81	0.84	
Rating:56W 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	1.01	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.42	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.80	0.68	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.38	0.31	0.26	0.22	0.18	0.15	
Rating:56W 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	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	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	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	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	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.18	0.19	0.20	0.20	0.20	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	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:56W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												