

Report No.:

Test Time: 10.08.2020 16:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 170 48LED 11W 4000K matoviy individualniy

Luminous Length (mm): 605

Luminous Width (mm): 172

Luminous Height (mm): 203

Voltage: 222.3 V

Current: 0.056 A

Power: 10.84 W

Power Factor: 0.857

Photometric Results

CIE Class: Direct

Measurement Flux: 1282.1 lm

Downward Ratio: 95%

Total Rated Lamp Lumens: 1282.1 lm

Efficiency: 100%

Upward Ratio: 5%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.6, 191.9, 172.8, 171.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.2, 105.3, 102.5, 102.2

Luminaire Efficacy Rating (LER): 118.33

Central Intensity: 455.12 cd

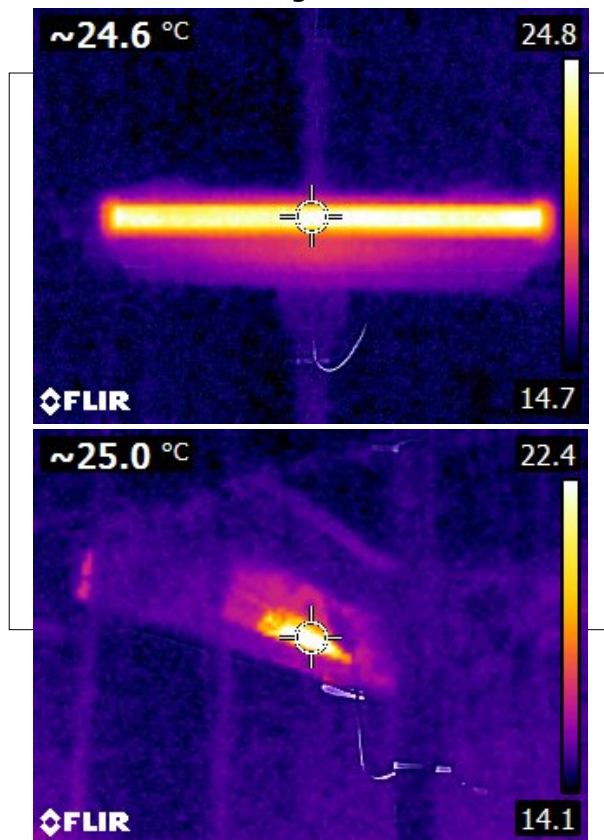
Max. Intensity: 455.55 cd

Pos of Max. Intensity: H292.5 V4

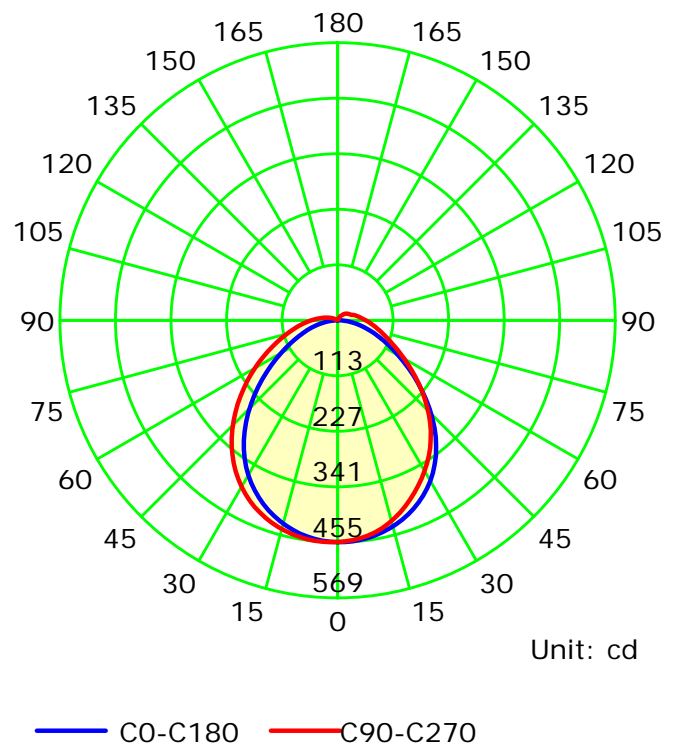
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.23

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

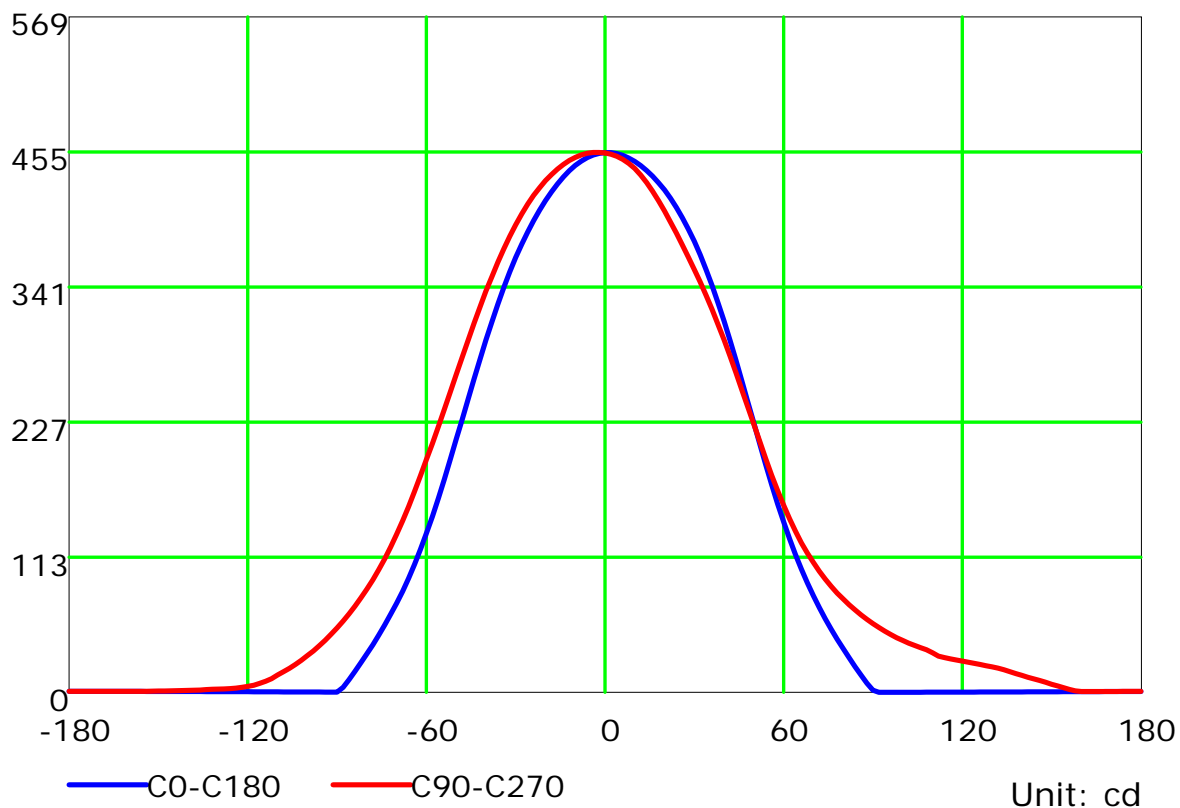
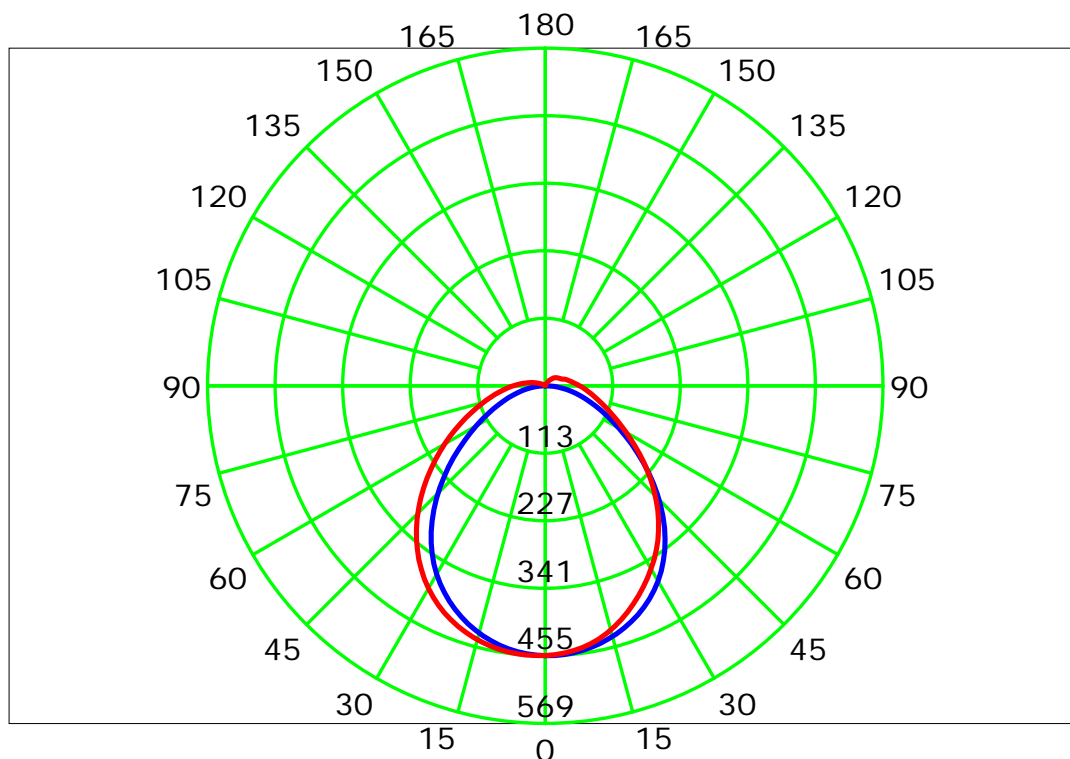
Test Device: LSG-1800B

Distance: 12.677 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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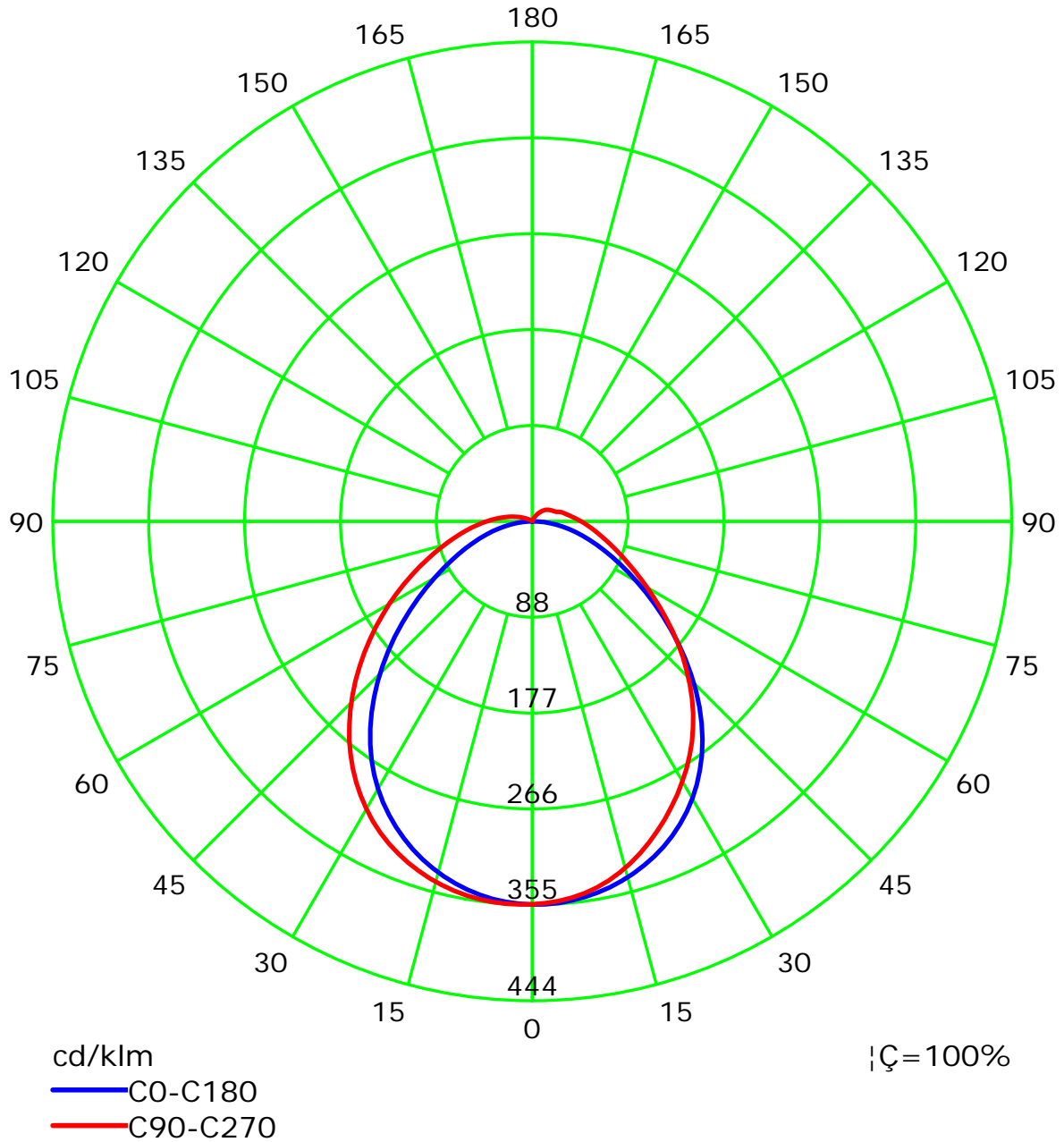
Test Device: LSG-1800B

Distance: 12.677 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:

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Test Device: LSG-1800B

Distance: 12.677 m

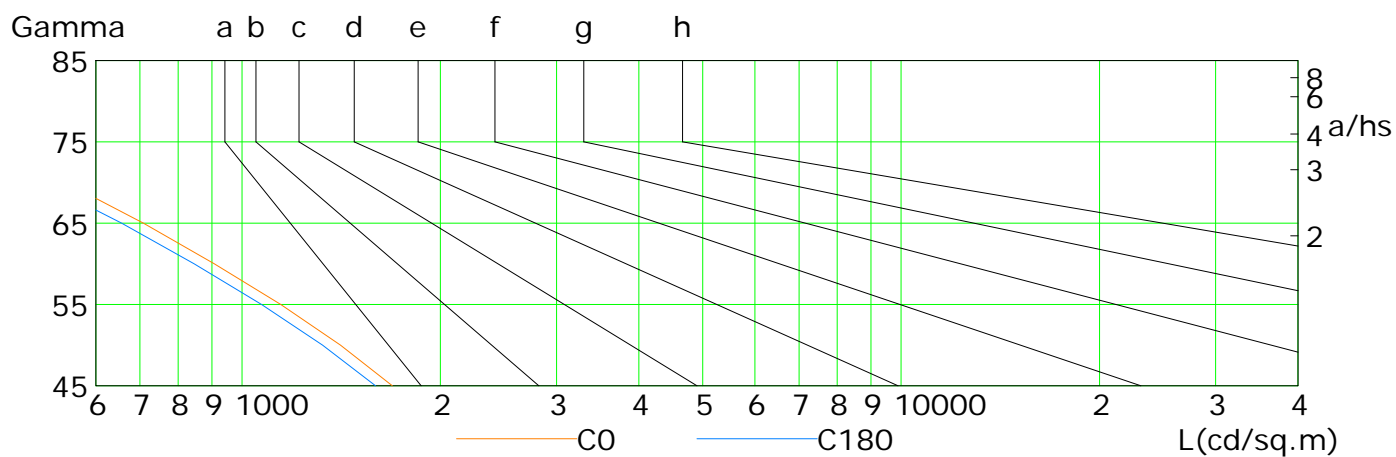
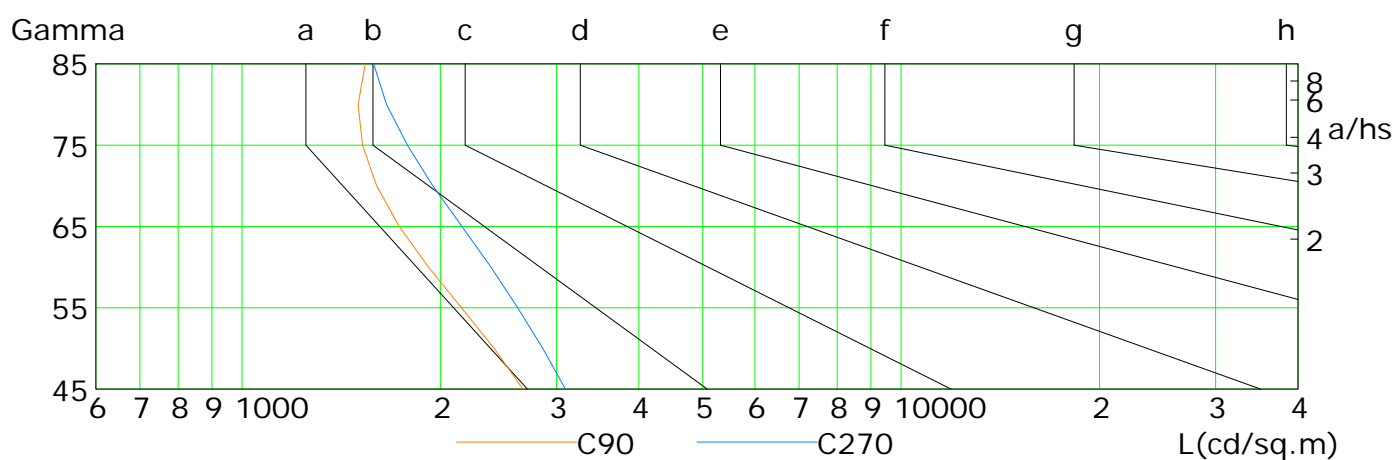
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1691	1410	1145	908	708	540	396	266	138
C90	2668	2413	2152	1919	1732	1600	1523	1500	1538
C180	1595	1325	1070	846	657	497	362	234	108
C270	3095	2860	2620	2386	2156	1948	1782	1657	1583

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

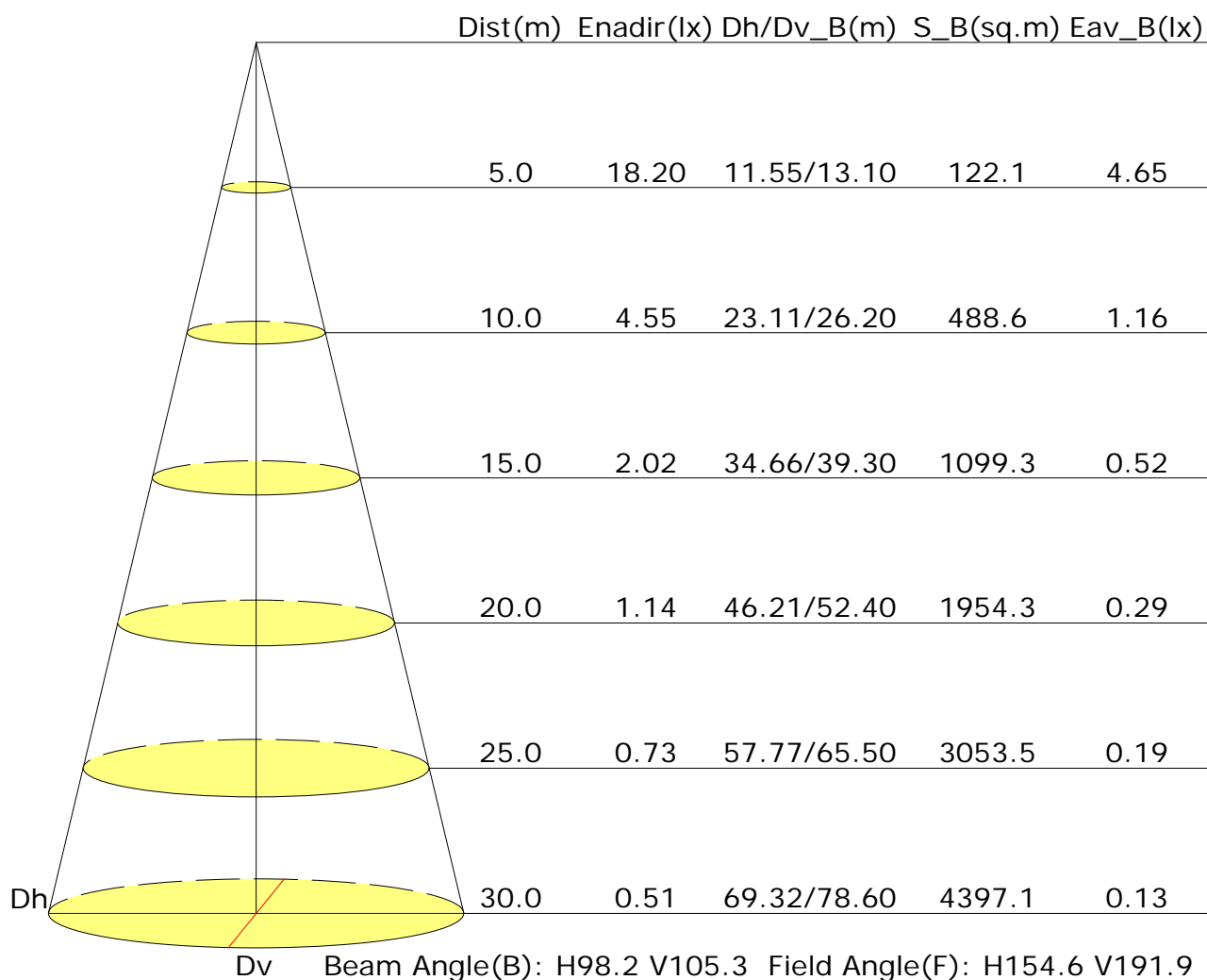
Test Device: LSG-1800B

Distance: 12.677 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	12.5	13.9	12.9	14.2	14.5	14.4	15.7	14.7	16.0	16.3
3H	13.3	14.5	13.7	14.8	15.2	15.8	17.0	16.2	17.3	17.7
4H	13.5	14.7	14.0	15.0	15.4	16.4	17.6	16.9	17.9	18.4
6H	13.7	14.7	14.1	15.1	15.6	17.1	18.2	17.6	18.6	19.0
8H	13.7	14.7	14.2	15.1	15.6	17.4	18.4	17.9	18.9	19.3
12H	13.7	14.7	14.2	15.1	15.6	17.8	18.7	18.2	19.2	19.6
X=4H Y=2H	13.1	14.2	13.5	14.6	15.0	14.6	15.7	15.0	16.1	16.5
3H	14.0	15.0	14.5	15.4	15.9	16.2	17.2	16.7	17.6	18.0
4H	14.4	15.2	14.9	15.7	16.2	17.0	17.9	17.5	18.3	18.8
6H	14.6	15.4	15.1	15.9	16.4	17.8	18.6	18.3	19.1	19.6
8H	14.7	15.4	15.2	15.9	16.4	18.3	19.0	18.8	19.5	20.0
12H	14.7	15.4	15.3	15.9	16.4	18.7	19.3	19.2	19.8	20.4
X=8H Y=4H	14.7	15.4	15.2	15.9	16.5	17.1	17.8	17.6	18.3	18.8
6H	15.1	15.7	15.6	16.2	16.8	18.1	18.7	18.6	19.2	19.8
8H	15.2	15.7	15.8	16.3	16.9	18.6	19.1	19.2	19.7	20.3
12H	15.3	15.8	15.9	16.3	16.9	19.2	19.6	19.8	20.2	20.8
X=12H Y=4H	14.8	15.4	15.3	15.9	16.5	17.1	17.7	17.6	18.2	18.8
6H	15.2	15.7	15.8	16.3	16.9	18.1	18.6	18.7	19.2	19.7
8H	15.4	15.9	16.0	16.4	17.0	18.7	19.1	19.2	19.7	20.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.2/-0.2				
S=1.5H	+0.5/-1.0					+0.5/-0.7				
S=2.0H	+0.9/-1.6					+1.0/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 1282lm ($8\log(F/F_0) = 0.9$).

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Test Device: LSG-1800B

Distance: 12.677 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	0.66	0.73	0.78	0.85	0.90	0.93	0.98	1.01	
	0.30		0.49	0.59	0.66	0.71	0.79	0.84	0.88	0.93	0.97	
	0.20		0.43	0.53	0.60	0.66	0.74	0.80	0.84	0.90	0.94	
0.50	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.96	
	0.30		0.48	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
	0.20		0.43	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90	
0.30	0.50	0.20	0.53	0.61	0.67	0.72	0.78	0.82	0.85	0.88	0.91	
	0.30		0.47	0.56	0.62	0.67	0.73	0.78	0.81	0.85	0.88	
	0.20		0.42	0.51	0.58	0.63	0.70	0.74	0.78	0.83	0.86	
0.00	0.00	0.00	0.39	0.48	0.54	0.59	0.65	0.70	0.73	0.77	0.80	
Rating: 11W 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	0.97	0.81	0.69	0.61	0.49	0.41	0.35	0.28	0.23	
	0.30		0.81	0.69	0.60	0.54	0.44	0.38	0.33	0.26	0.22	
	0.20		0.69	0.60	0.53	0.48	0.40	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.93	0.77	0.65	0.57	0.46	0.42	0.33	0.26	0.22	
	0.30		0.78	0.66	0.58	0.51	0.42	0.36	0.31	0.25	0.21	
	0.20		0.68	0.59	0.52	0.47	0.39	0.33	0.29	0.24	0.20	
0.30	0.50	0.20	0.89	0.73	0.62	0.54	0.44	0.37	0.32	0.25	0.21	
	0.30		0.76	0.64	0.56	0.49	0.40	0.34	0.30	0.24	0.20	
	0.20		0.66	0.57	0.50	0.45	0.38	0.32	0.28	0.23	0.19	
0.00	0.00	0.00	0.56	0.47	0.41	0.36	0.30	0.25	0.22	0.18	0.15	
Rating: 11W 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	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.27
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.10	0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.22
0.50	0.50	0.20	0.20	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.26
	0.30		0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.21
0.30	0.50	0.20	0.20	0.21	0.22	0.22	0.23	0.24	0.24	0.24	0.25
	0.30		0.14	0.15	0.17	0.17	0.19	0.20	0.21	0.22	0.22
	0.20		0.10	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20
0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Rating: 11W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											