

Report No.:

Test Time: 25.08.2020 22:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 150W 5000K 90 gr. prozrachnoe steclo

Luminous Length (mm): 316

Luminous Width (mm): 316

Luminous Height (mm): 132

Voltage: 221.7 V

Current: 0.697 A

Power: 152.67 W

Power Factor: 0.987

Photometric Results

CIE Class: Direct

Measurement Flux: 22032.1 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 22032.1 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 119.4, 116.2, 117.9, 117.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 91.4, 92.3, 91.2, 91.1

Luminaire Efficacy Rating (LER): 144.36

Central Intensity: 10268.86 cd

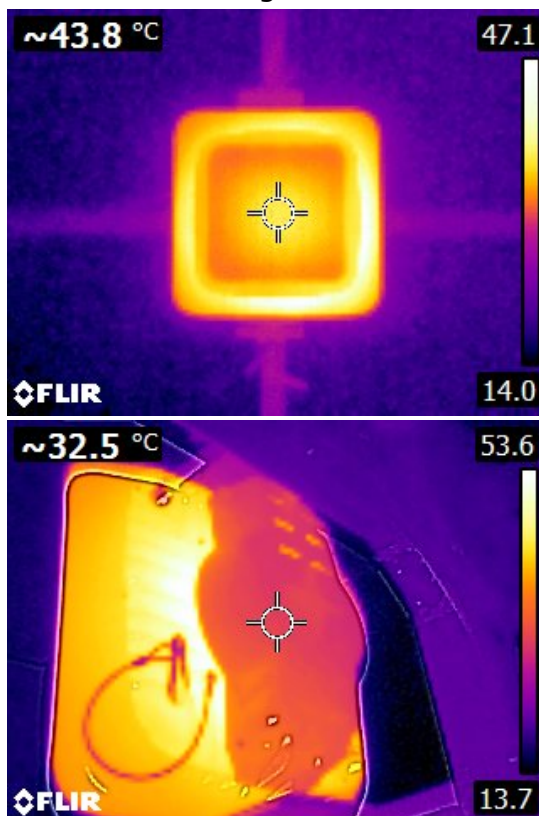
Max. Intensity: 11445.34 cd

Pos of Max. Intensity: H135 V22

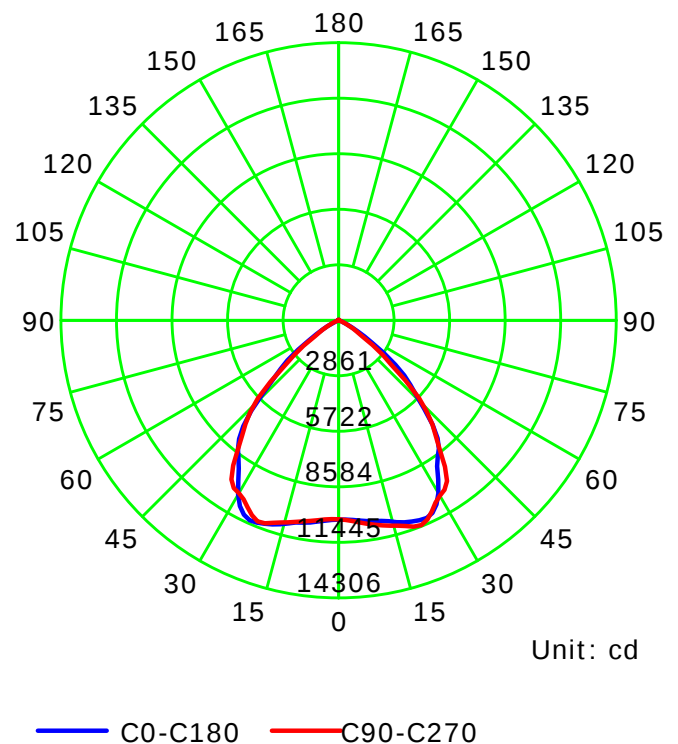
S/MH(C0/C180): 1.36

S/MH(C90/C270): 1.42

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

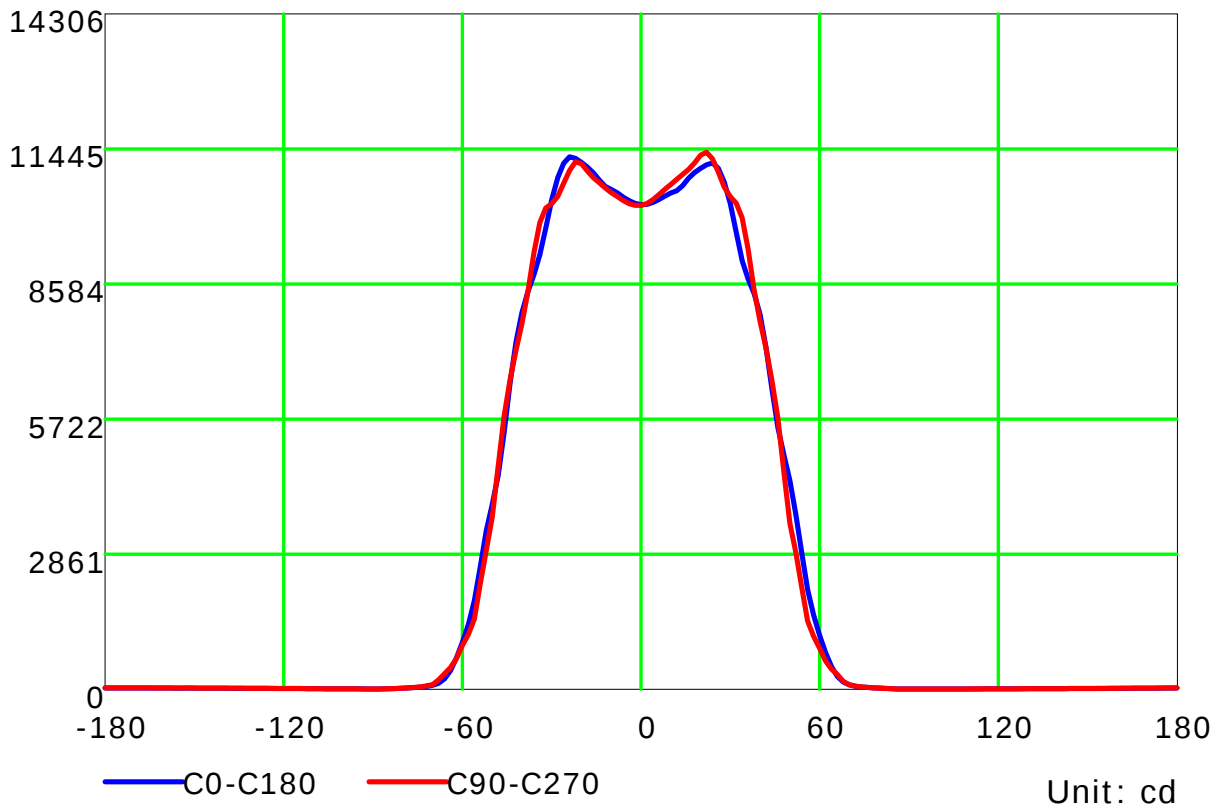
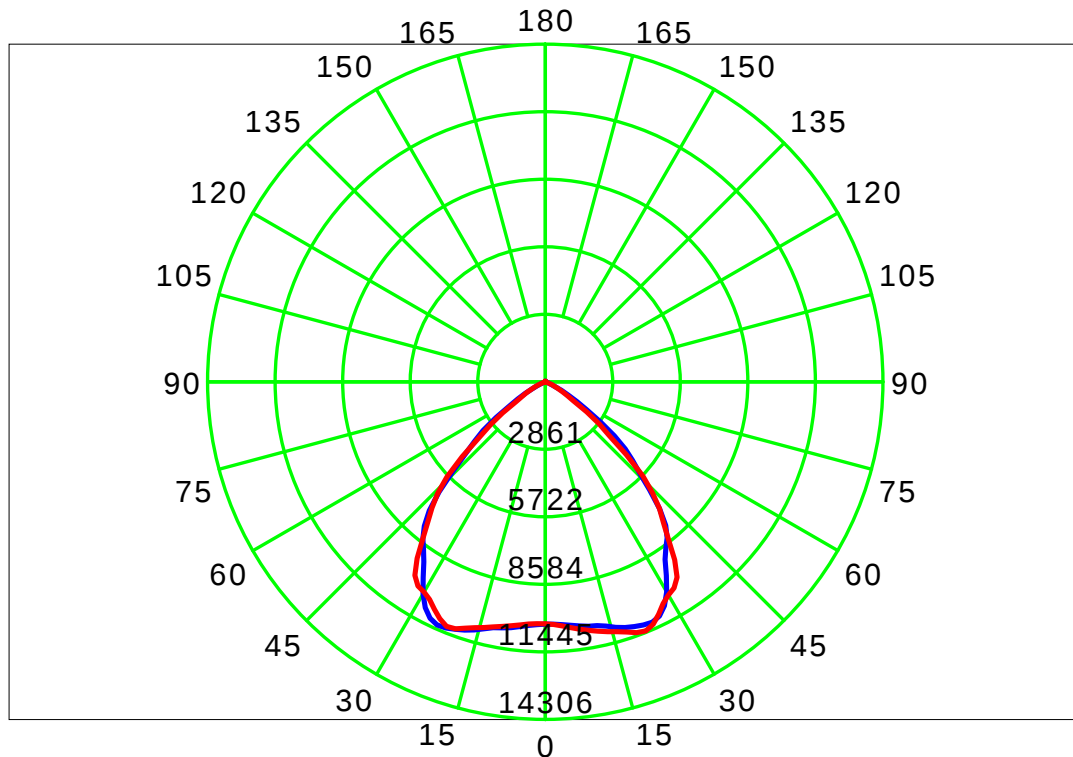
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

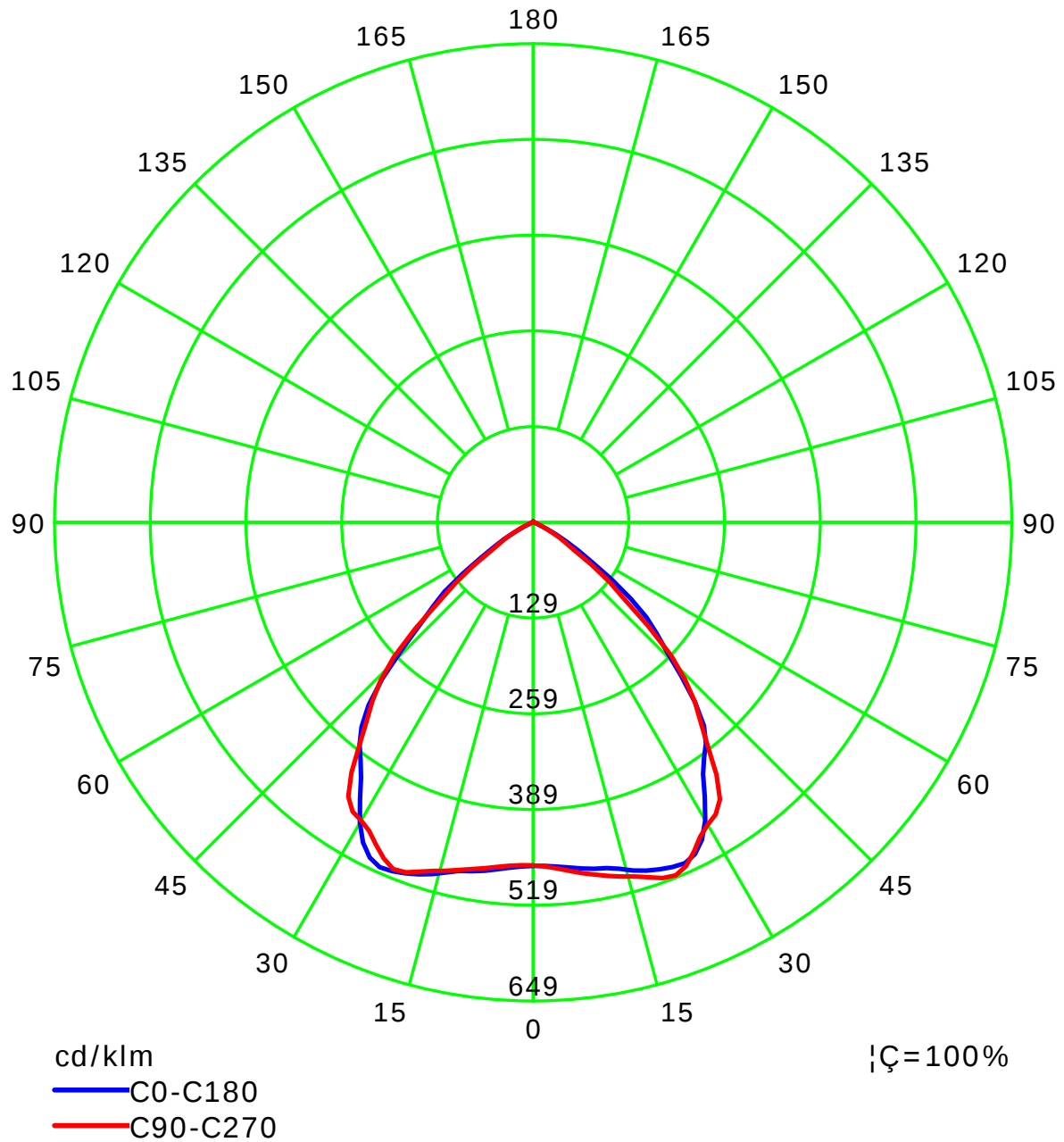
Luminous Intensity Distribution Curve



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 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(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: 12.677 m

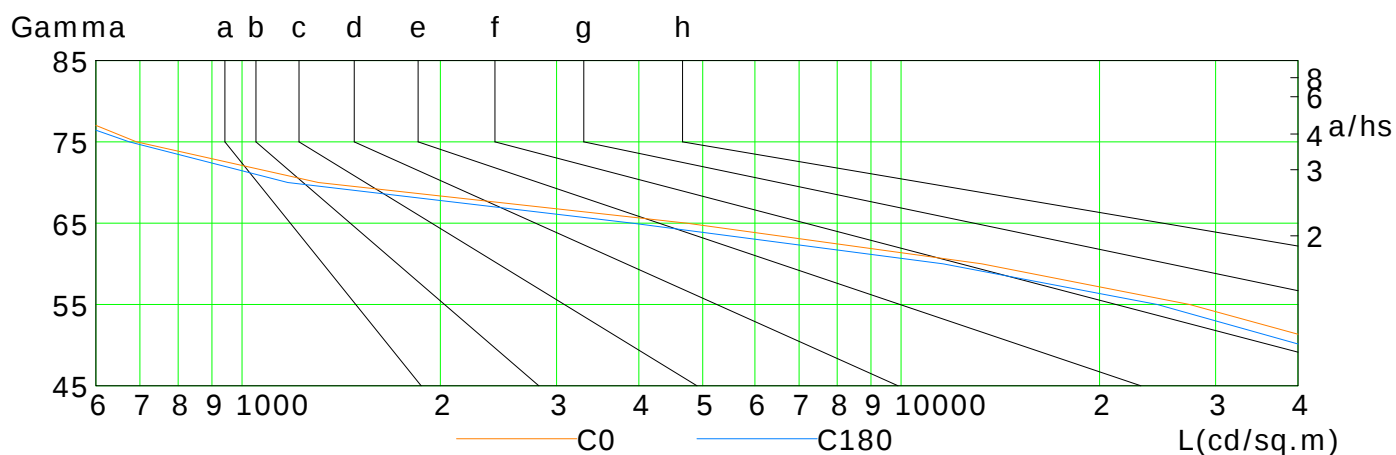
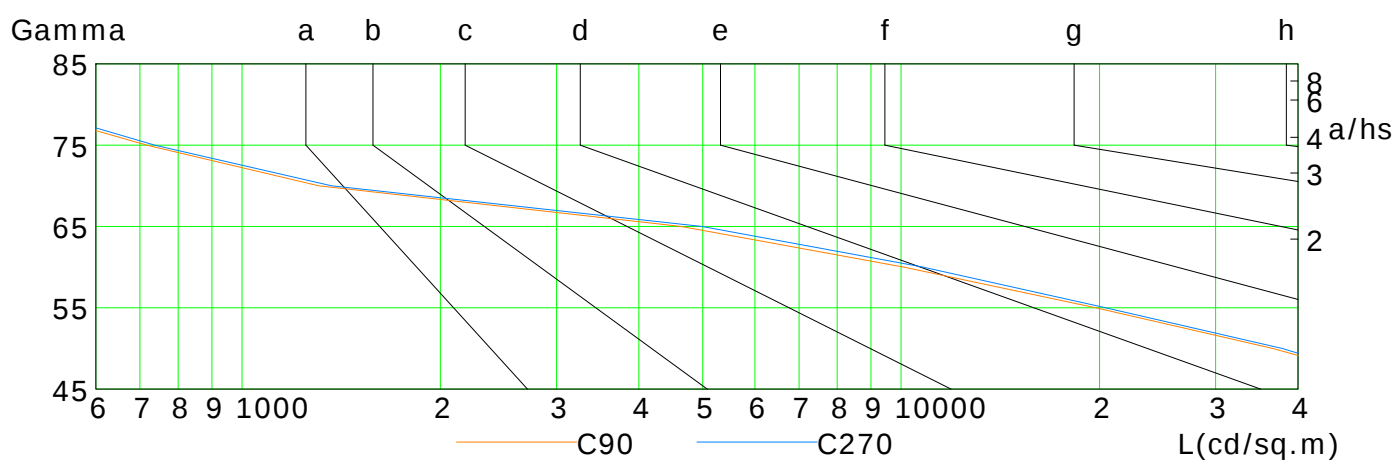
Humidity:

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	59494	45990	27387	13249	4729	1306	692	488	241
C90	61361	36597	19737	10095	4639	1308	717	438	246
C180	59588	40653	24461	11577	3913	1173	674	450	264
C270	61716	37835	20432	10800	4988	1368	738	455	245

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

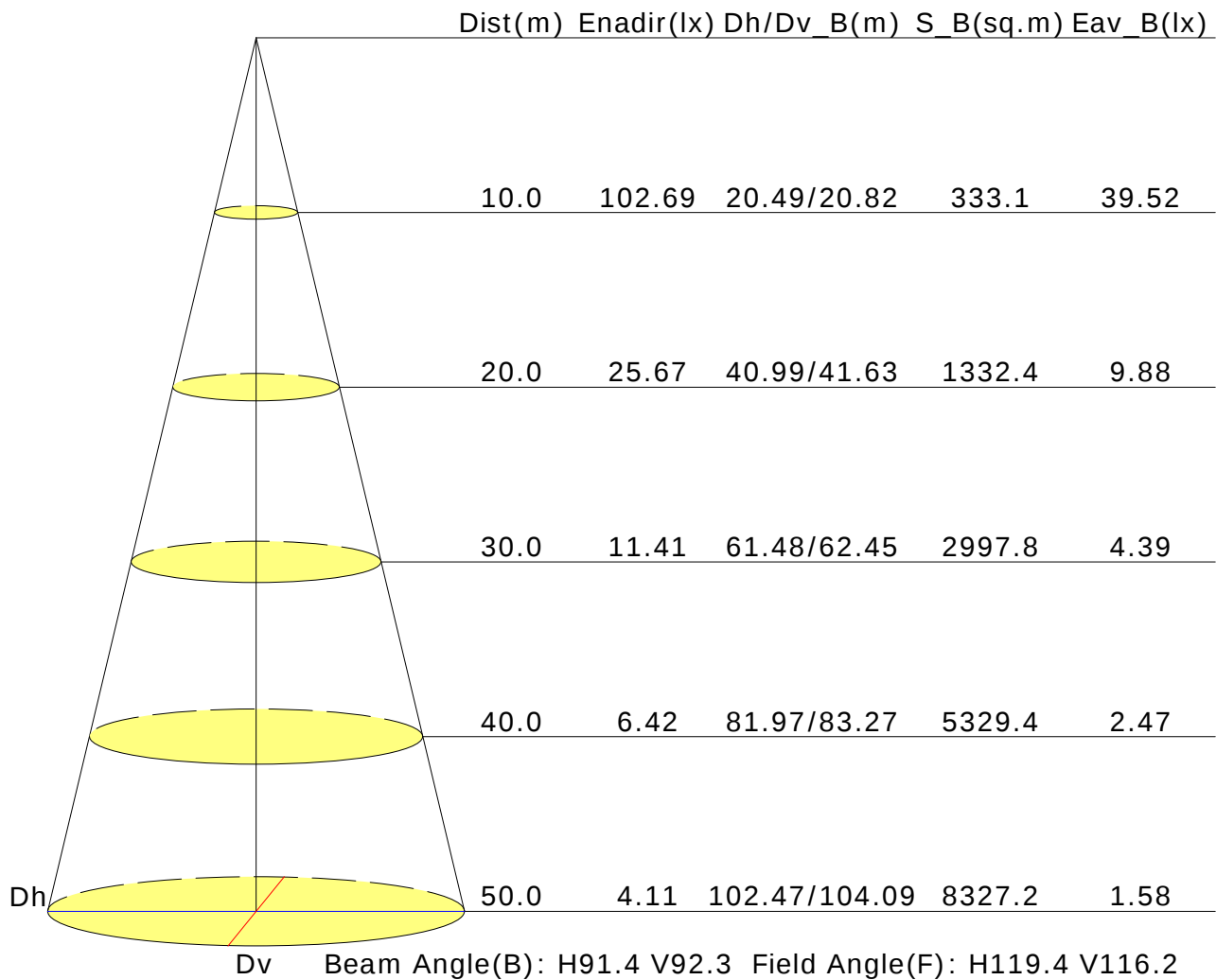
Test Device: LSG-1800B

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	23.5	24.6	23.8	24.8	25.0	23.4	24.5	23.7	24.8	25.0
3H	23.3	24.3	23.7	24.6	24.9	23.3	24.3	23.6	24.5	24.8
4H	23.3	24.2	23.6	24.5	24.8	23.2	24.1	23.5	24.4	24.7
6H	23.2	24.0	23.5	24.3	24.7	23.1	24.0	23.5	24.3	24.6
8H	23.2	24.0	23.5	24.3	24.6	23.1	23.9	23.5	24.2	24.6
12H	23.1	23.9	23.5	24.2	24.6	23.1	23.8	23.4	24.2	24.5
X=4H Y=2H	23.3	24.3	23.7	24.6	24.8	23.3	24.2	23.6	24.5	24.8
3H	23.2	24.0	23.6	24.3	24.7	23.2	23.9	23.5	24.3	24.6
4H	23.1	23.8	23.5	24.2	24.6	23.1	23.8	23.5	24.1	24.5
6H	23.1	23.7	23.5	24.1	24.5	23.0	23.6	23.4	24.0	24.4
8H	23.0	23.6	23.5	24.0	24.4	23.0	23.5	23.4	23.9	24.3
12H	23.0	23.5	23.4	23.9	24.4	22.9	23.4	23.4	23.8	24.3
X=8H Y=4H	23.0	23.6	23.5	24.0	24.4	23.0	23.5	23.4	23.9	24.3
6H	23.0	23.4	23.4	23.8	24.3	22.9	23.3	23.4	23.8	24.2
8H	22.9	23.3	23.4	23.8	24.3	22.9	23.2	23.3	23.7	24.2
12H	22.9	23.2	23.4	23.7	24.2	22.8	23.2	23.3	23.6	24.1
X=12H Y=4H	23.0	23.5	23.4	23.9	24.4	22.9	23.4	23.4	23.8	24.3
6H	22.9	23.3	23.4	23.8	24.3	22.9	23.2	23.3	23.7	24.2
8H	22.9	23.2	23.4	23.7	24.2	22.8	23.2	23.3	23.6	24.1
Variations with the observer position at spacings:										
S=1.0H	+1.1/-3.6					+1.3/-3.5				
S=1.5H	+3.2/-8.9					+3.2/-9.4				
S=2.0H	+5.1/-15.5					+5.1/-16.0				

Calculate in accordance with CIE Pub.117. The table is revised with 22032lm ($8\log(F/F_0) = 10.7$).

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Temperature:

Operator:

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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	0.73	0.82	0.88	0.92	0.98	1.01	1.04	1.07	1.08	
	0.30		0.67	0.77	0.83	0.88	0.94	0.98	1.00	1.04	1.06	
	0.20		0.62	0.72	0.79	0.84	0.90	0.94	0.97	1.02	1.04	
0.50	0.50	0.20	0.71	0.80	0.86	0.90	0.95	0.98	1.00	1.03	1.04	
	0.30		0.66	0.75	0.82	0.86	0.91	0.95	0.97	1.01	1.02	
	0.20		0.62	0.72	0.78	0.83	0.88	0.92	0.95	0.99	1.01	
0.30	0.50	0.20	0.70	0.79	0.84	0.88	0.92	0.95	0.97	0.99	1.01	
	0.30		0.65	0.74	0.80	0.84	0.89	0.92	0.95	0.97	0.99	
	0.20		0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
0.00	0.00	0.00	0.60	0.69	0.75	0.79	0.83	0.87	0.89	0.91	0.93	
Rating:153W 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	0.75	0.59	0.49	0.42	0.33	0.27	0.23	0.17	0.14	
	0.30		0.63	0.51	0.43	0.37	0.30	0.24	0.21	0.16	0.13	
	0.20		0.54	0.44	0.38	0.33	0.27	0.23	0.20	0.15	0.13	
0.50	0.50	0.20	0.72	0.56	0.46	0.40	0.31	0.29	0.21	0.16	0.13	
	0.30		0.61	0.49	0.41	0.35	0.28	0.23	0.20	0.15	0.12	
	0.20		0.53	0.43	0.37	0.32	0.26	0.21	0.19	0.14	0.12	
0.30	0.50	0.20	0.70	0.54	0.44	0.37	0.29	0.23	0.20	0.15	0.12	
	0.30		0.60	0.47	0.39	0.34	0.27	0.22	0.19	0.14	0.12	
	0.20		0.52	0.42	0.36	0.31	0.25	0.20	0.18	0.14	0.11	
0.00	0.00	0.00	0.40	0.31	0.25	0.21	0.16	0.13	0.11	0.08	0.07	
Rating:153W 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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	0.18
0.50	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.14	0.15	0.16	0.16	0.17	0.18	0.19	0.19	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rating:153W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											