

Report No.:

Test Time: 23.07.2020 12:44

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 50 100W 5000K прозрачный IP65 Ex

Luminous Length (mm): 1545

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 222.1 V

Current: 0.473 A

Power: 103.51 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 8616.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 8616.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.7, 132.3, 143.3, 144.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.3, 109.9, 111.6, 111.6

Luminaire Efficacy Rating (LER): 83.29

Central Intensity: 3203.95 cd

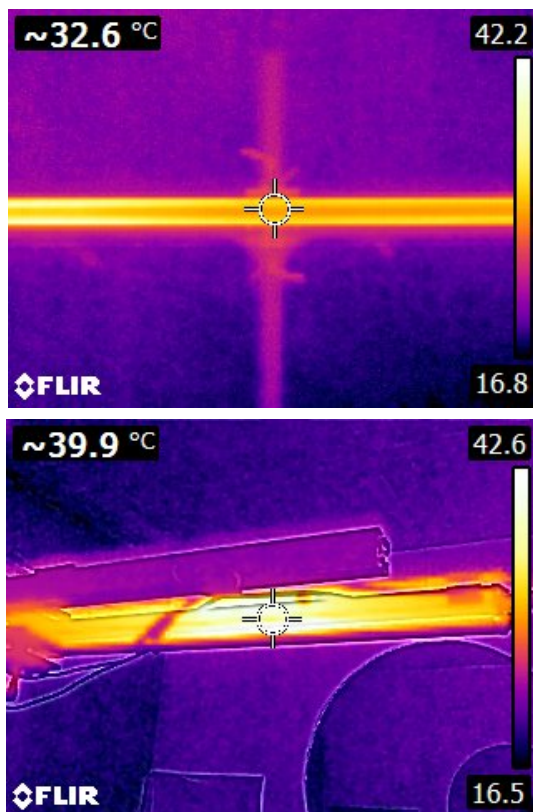
Max. Intensity: 3204.53 cd

Pos of Max. Intensity: H45 V0

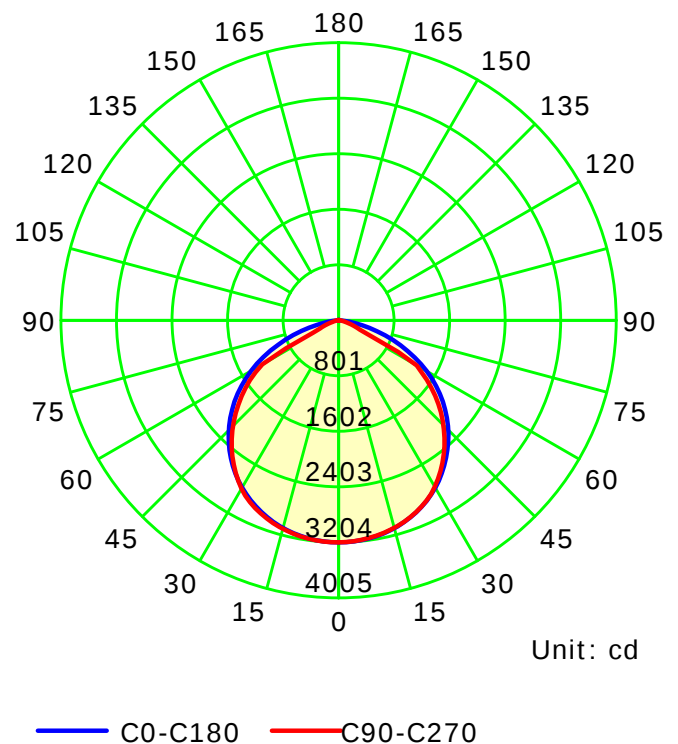
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.28

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

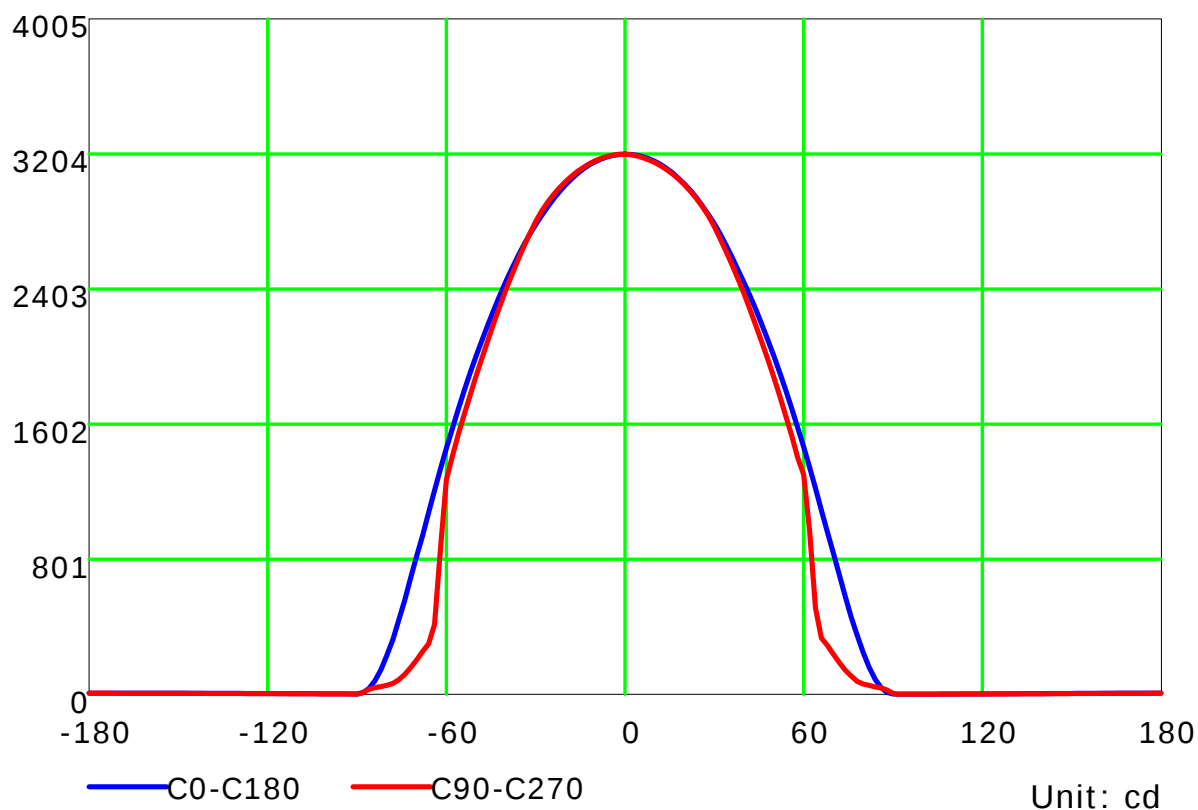
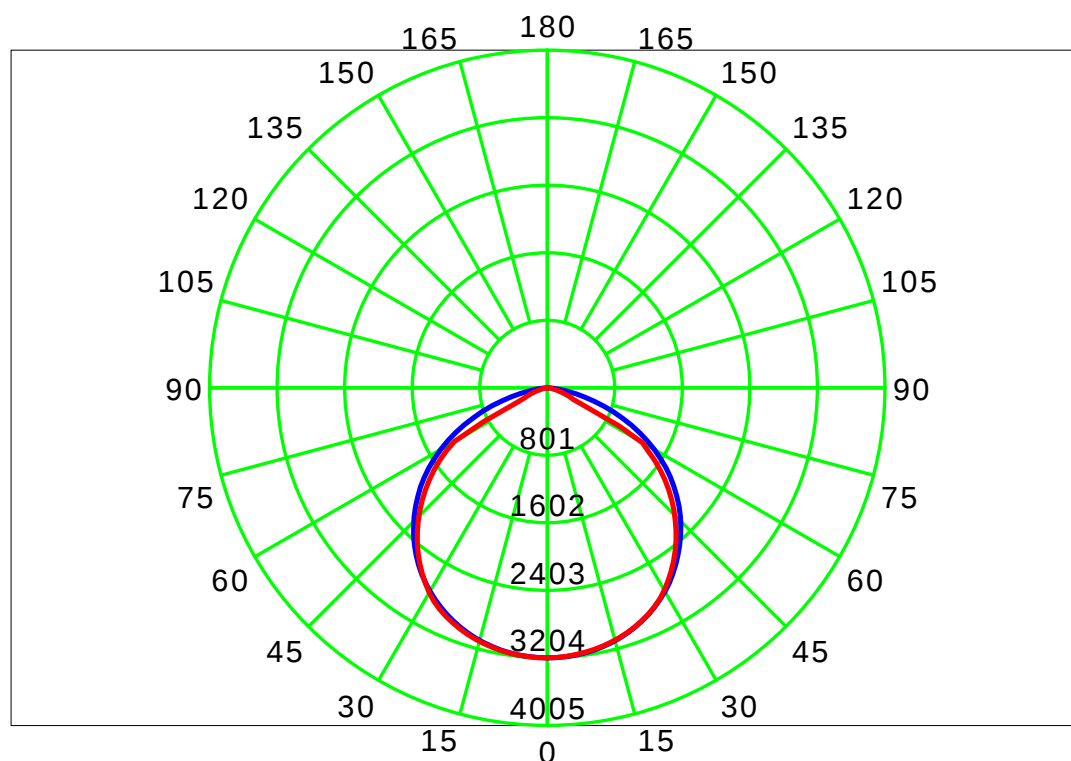
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 2.0

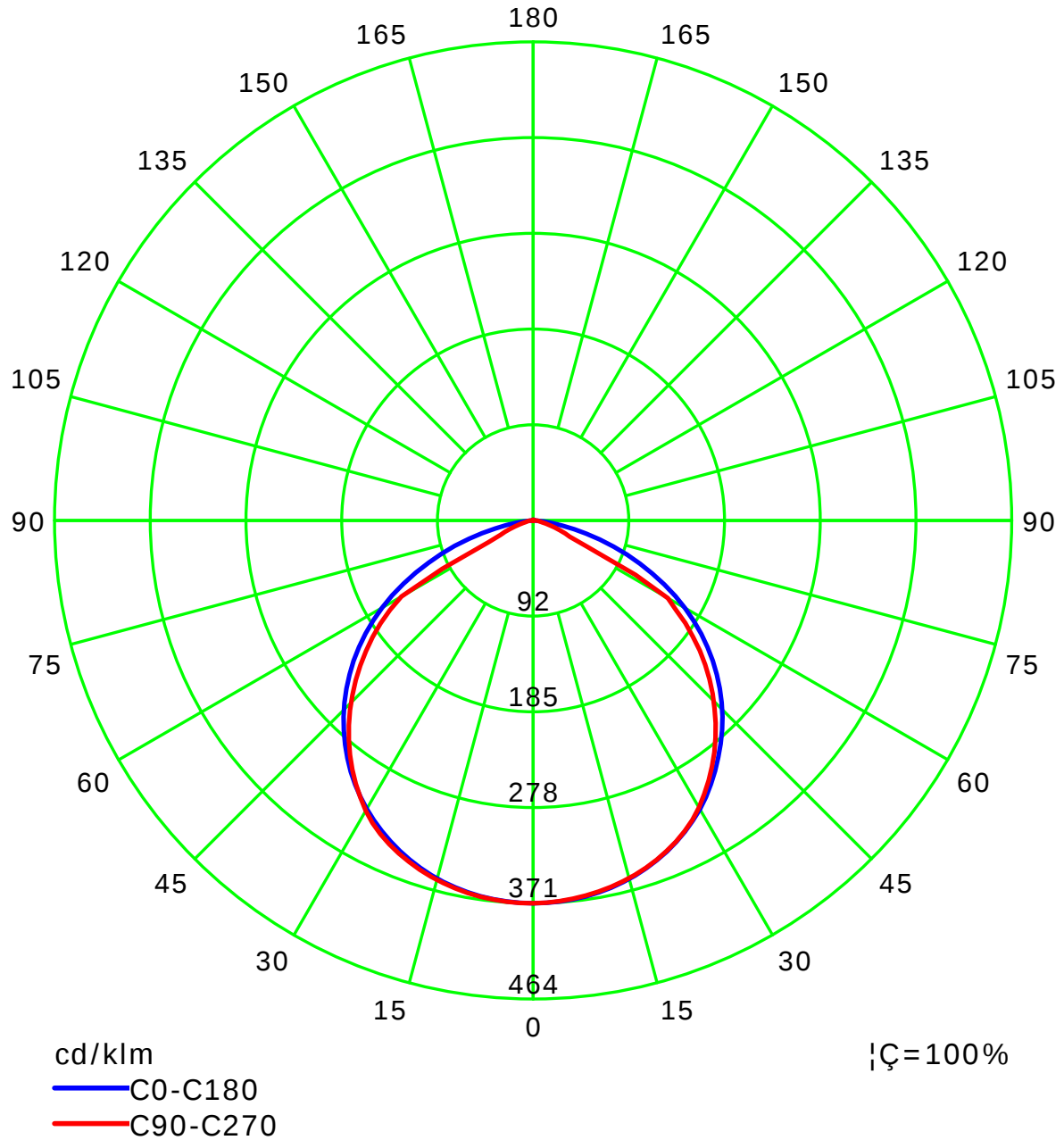
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(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

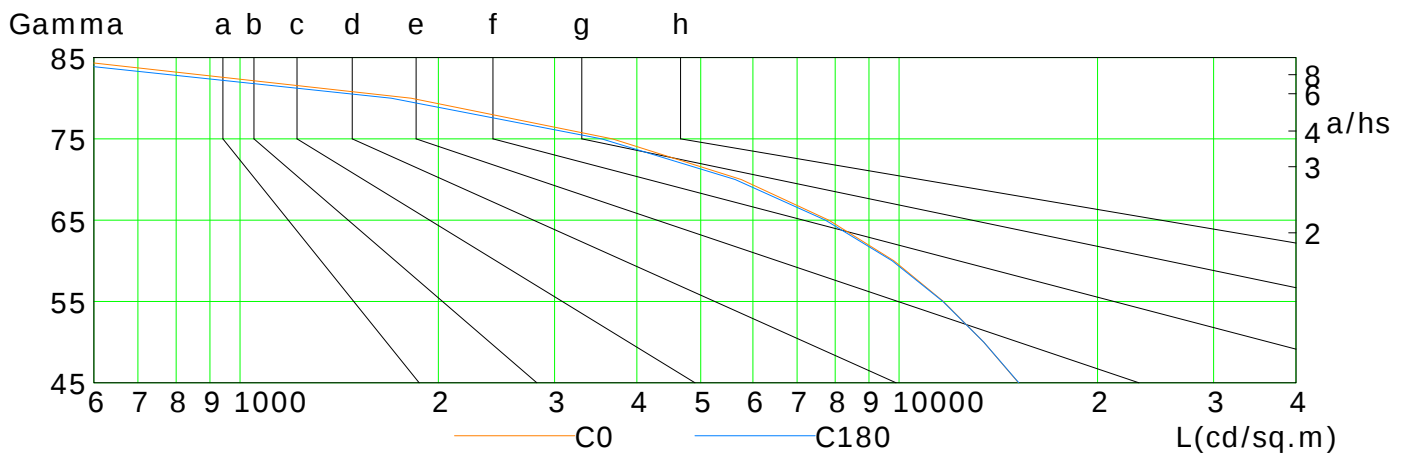
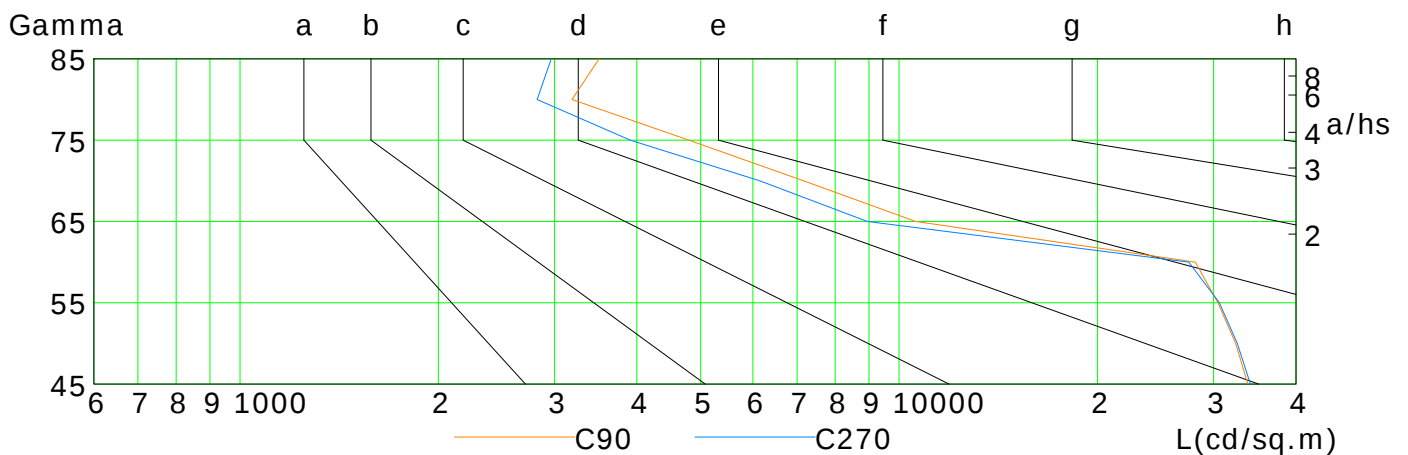
Humidity:

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	15172	13441	11673	9820	7820	5760	3672	1818	506
C90	33810	32411	30459	28150	10594	7164	4799	3189	3505
C180	15191	13440	11653	9760	7728	5638	3538	1696	446
C270	34109	32582	30611	27503	8950	6146	3909	2823	2966

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

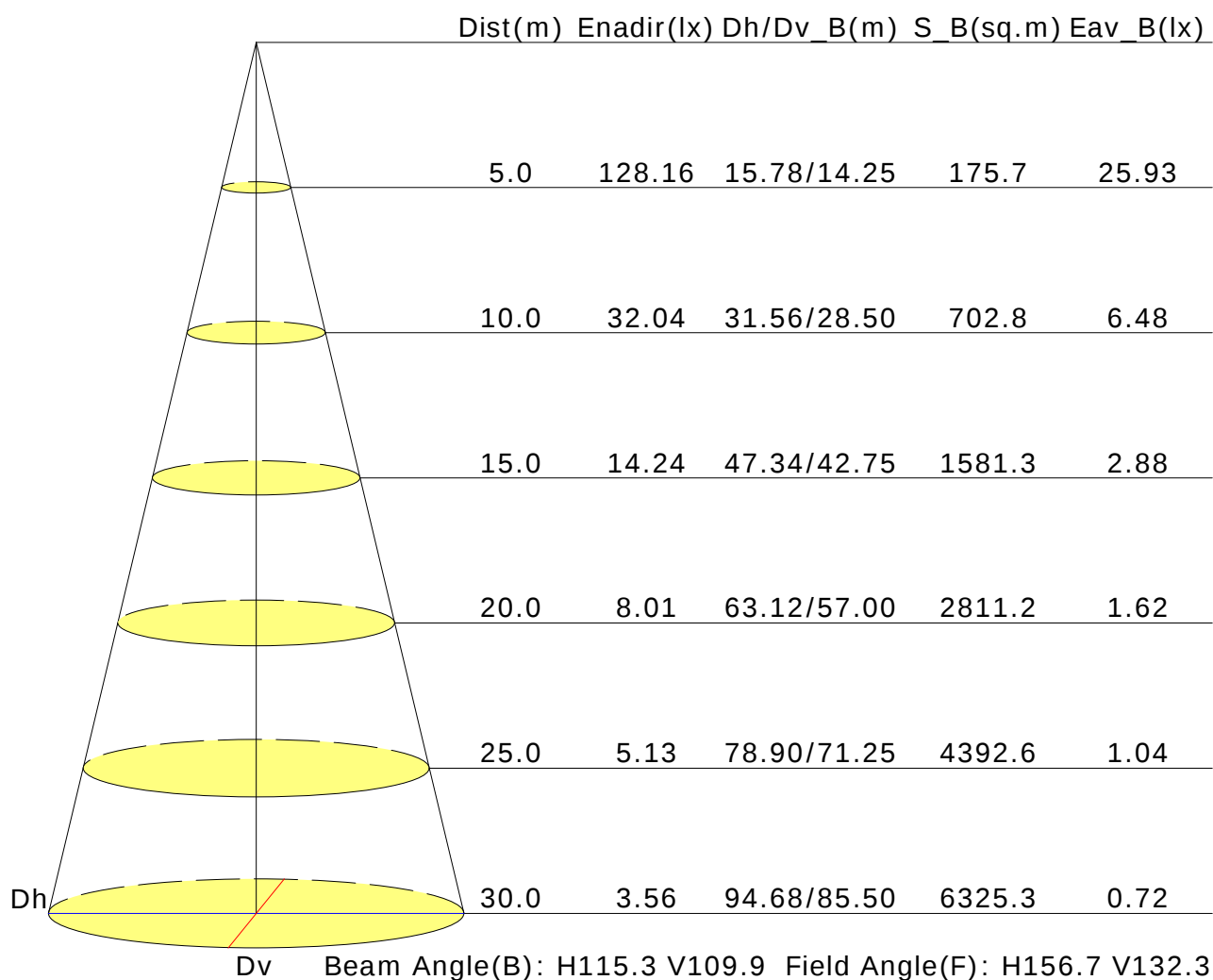
Test Device: LSG-1800B

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	21.6	22.9	21.9	23.2	23.4	22.9	24.2	23.2	24.5	24.7
3H	22.5	23.7	22.8	24.0	24.2	23.0	24.2	23.3	24.4	24.7
4H	22.7	23.8	23.1	24.1	24.4	22.9	24.1	23.3	24.4	24.7
6H	22.8	23.8	23.1	24.1	24.4	22.9	23.9	23.3	24.2	24.6
8H	22.7	23.7	23.1	24.1	24.4	22.9	23.9	23.2	24.2	24.5
12H	22.7	23.7	23.1	24.0	24.3	22.8	23.8	23.2	24.1	24.5
X=4H Y=2H	22.1	23.2	22.4	23.5	23.8	23.1	24.3	23.5	24.5	24.8
3H	23.0	24.0	23.4	24.3	24.7	23.3	24.2	23.6	24.5	24.9
4H	23.3	24.2	23.7	24.5	24.9	23.2	24.1	23.7	24.5	24.8
6H	23.4	24.2	23.8	24.5	25.0	23.2	24.0	23.6	24.3	24.7
8H	23.4	24.1	23.8	24.5	24.9	23.2	23.9	23.6	24.3	24.7
12H	23.4	24.0	23.8	24.4	24.9	23.2	23.8	23.6	24.2	24.7
X=8H Y=4H	23.3	23.9	23.7	24.3	24.8	23.2	23.9	23.7	24.3	24.7
6H	23.4	23.9	23.8	24.4	24.8	23.2	23.7	23.7	24.2	24.6
8H	23.4	23.9	23.9	24.3	24.8	23.2	23.7	23.7	24.1	24.6
12H	23.4	23.8	23.9	24.2	24.8	23.2	23.6	23.7	24.1	24.6
X=12H Y=4H	23.2	23.8	23.7	24.3	24.7	23.2	23.8	23.6	24.2	24.7
6H	23.4	23.8	23.8	24.3	24.8	23.2	23.6	23.6	24.1	24.6
8H	23.3	23.8	23.8	24.2	24.7	23.1	23.6	23.6	24.0	24.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.4				
S=1.5H	+0.5/-0.9					+1.2/-2.0				
S=2.0H	+1.1/-2.0					+2.8/-7.0				

Calculate in accordance with CIE Pub.117. The table is revised with 8617lm ($8\log(F/F_0) = 7.5$).

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.59	0.70	0.77	0.83	0.90	0.95	0.98	1.02	1.05	
	0.30		0.51	0.63	0.71	0.76	0.84	0.90	0.93	0.98	1.02	
	0.20		0.46	0.57	0.65	0.71	0.80	0.85	0.90	0.95	0.99	
0.50	0.50	0.20	0.57	0.68	0.75	0.80	0.87	0.91	0.94	0.98	1.01	
	0.30		0.51	0.62	0.69	0.75	0.82	0.87	0.91	0.95	0.98	
	0.20		0.46	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.96	
0.30	0.50	0.20	0.56	0.66	0.73	0.78	0.84	0.88	0.91	0.94	0.97	
	0.30		0.50	0.60	0.68	0.73	0.80	0.85	0.88	0.92	0.95	
	0.20		0.45	0.56	0.64	0.69	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.43	0.54	0.61	0.66	0.73	0.78	0.81	0.85	0.88	
Rating:104W 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	0.95	0.77	0.65	0.56	0.44	0.36	0.31	0.23	0.19	
	0.30		0.80	0.66	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.68	0.58	0.50	0.44	0.36	0.30	0.26	0.21	0.17	
0.50	0.50	0.20	0.92	0.74	0.62	0.53	0.42	0.38	0.29	0.22	0.18	
	0.30		0.78	0.64	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.20		0.68	0.57	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.89	0.71	0.59	0.51	0.40	0.32	0.27	0.21	0.17	
	0.30		0.76	0.63	0.53	0.46	0.37	0.30	0.26	0.20	0.16	
	0.20		0.67	0.56	0.48	0.42	0.34	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.56	0.46	0.39	0.33	0.26	0.22	0.18	0.14	0.11	
Rating:104W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.16	0.16	0.17	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
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:104W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												