

Report No.: 1

Test Time: 26.02.2020 20:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 100 36LED 500W 5000K 30gr.

Luminous Length (mm): 210

Luminous Width (mm): 545

Luminous Height (mm): 338

Voltage: 228.8 V

Current: 2.249 A

Power: 505.33 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 71938.5 lm

Downward Ratio: 97%

Total Rated Lamp Lumens: 71938.5 lm

Efficiency: 100%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 59.4, 58.9, 62.4, 62.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 31.0, 29.3, 31.6, 31.4

Luminaire Efficacy Rating (LER): 142.41

Central Intensity: 157105.23 cd

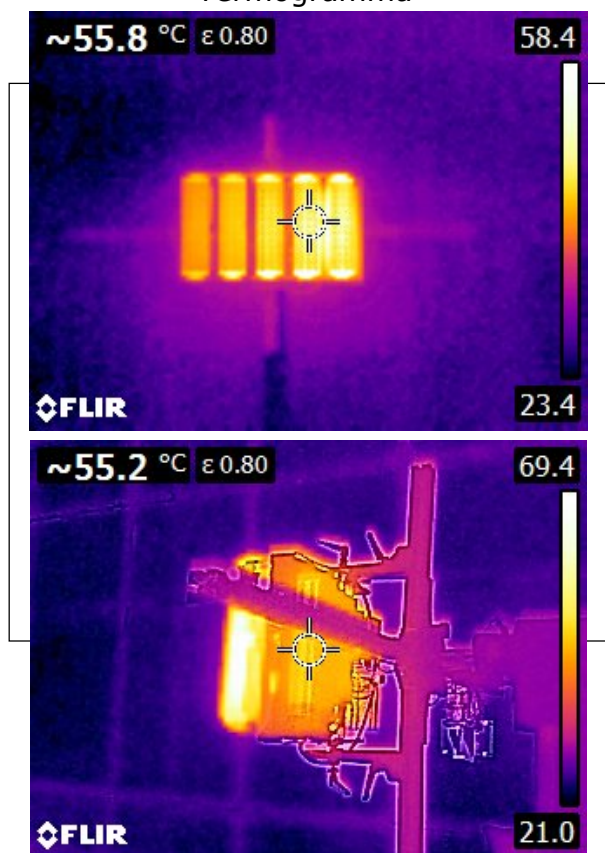
Max. Intensity: 161114.91 cd

Pos of Max. Intensity: H315 V2

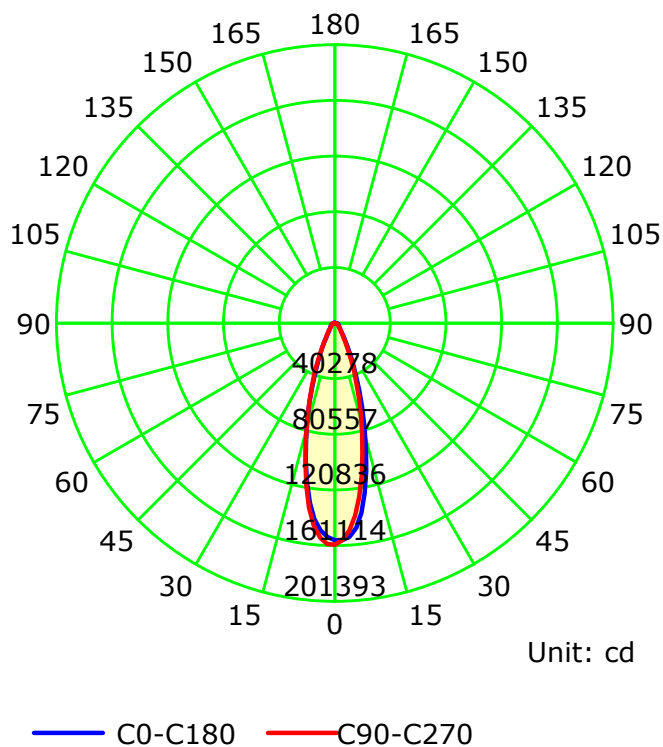
S/MH(C0/C180): 0.52

S/MH(C90/C270): 0.49

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

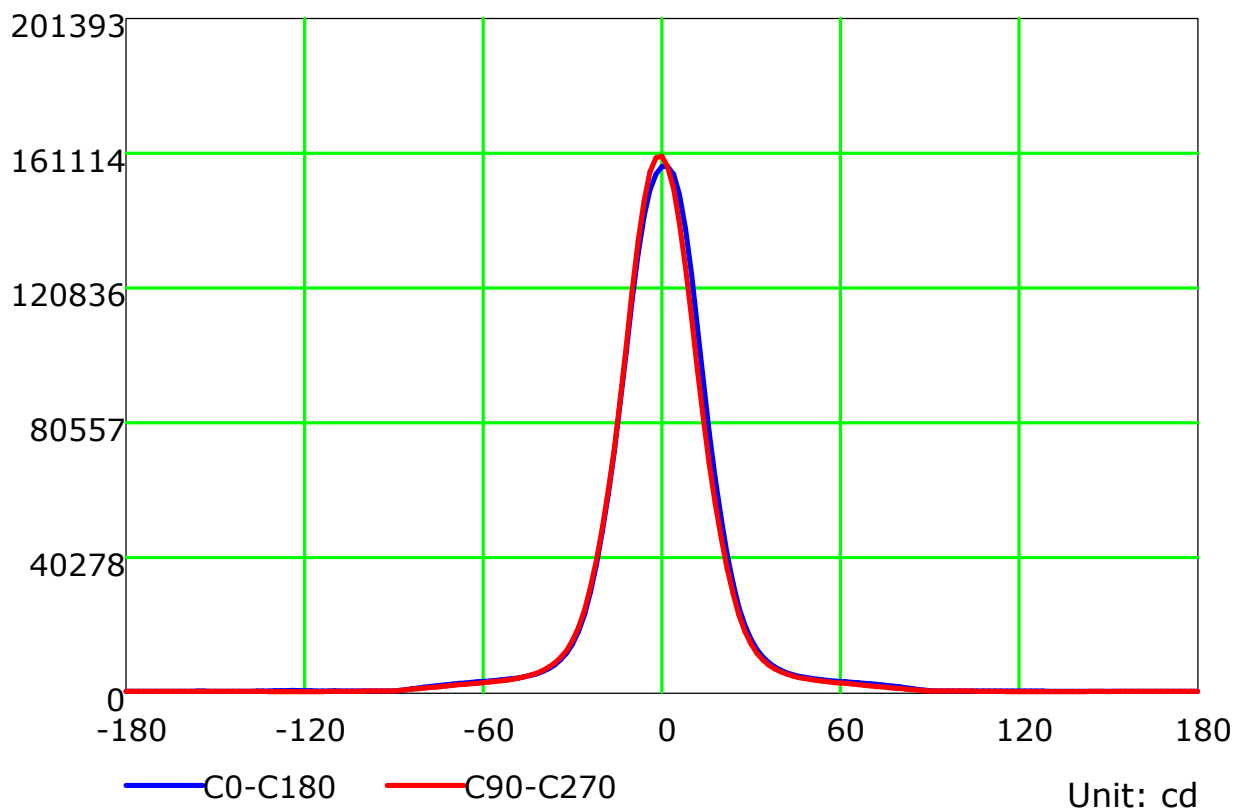
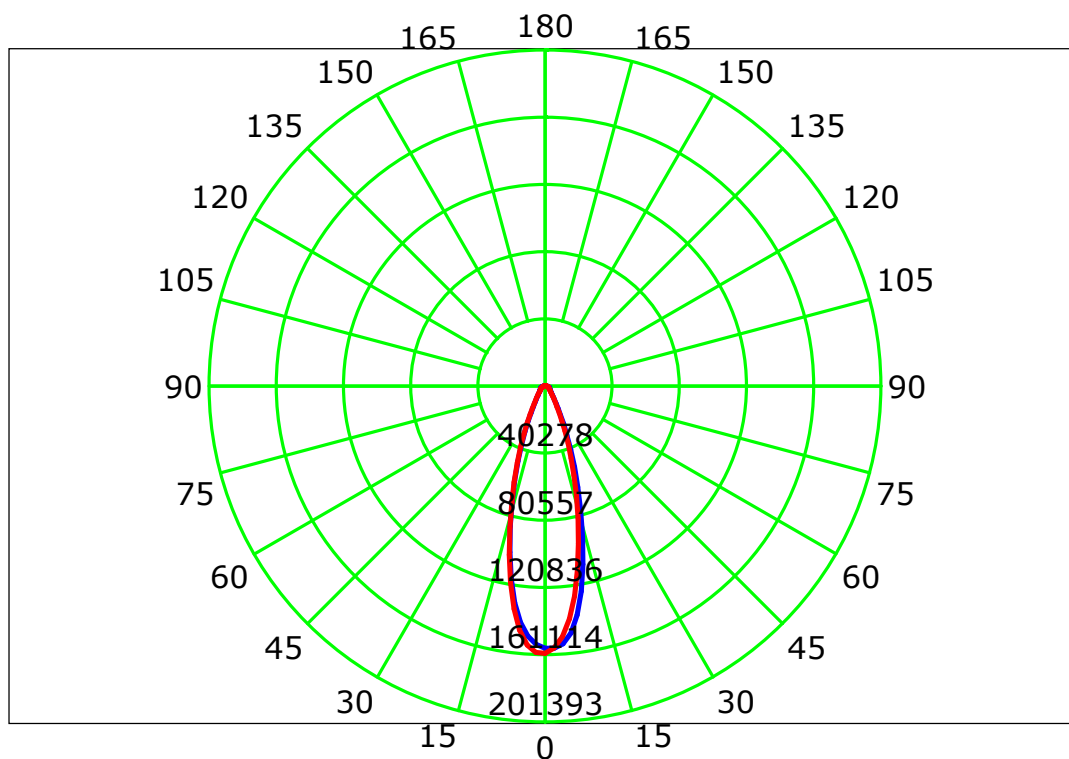
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

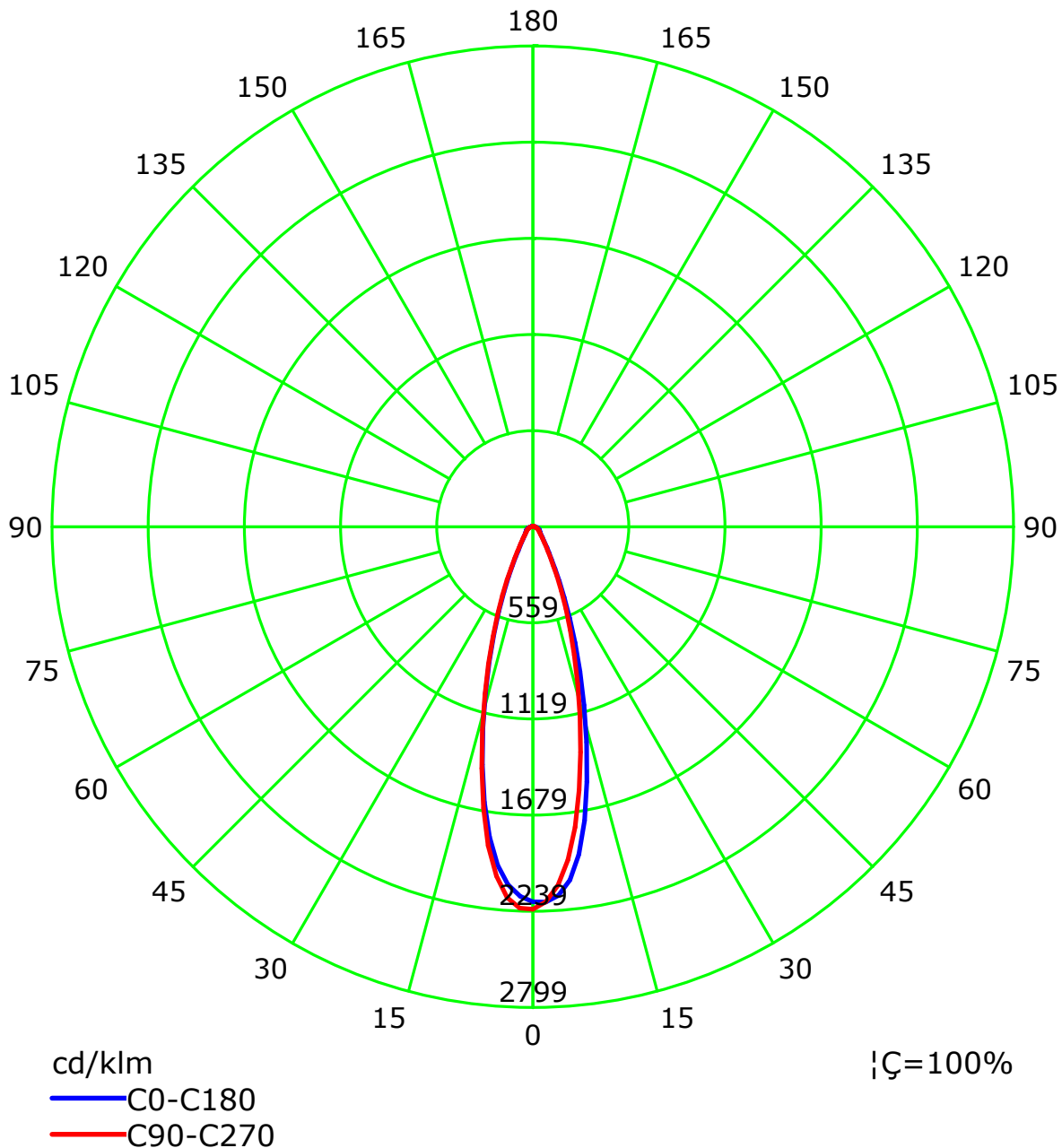
Test Device: LSG-1800B

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

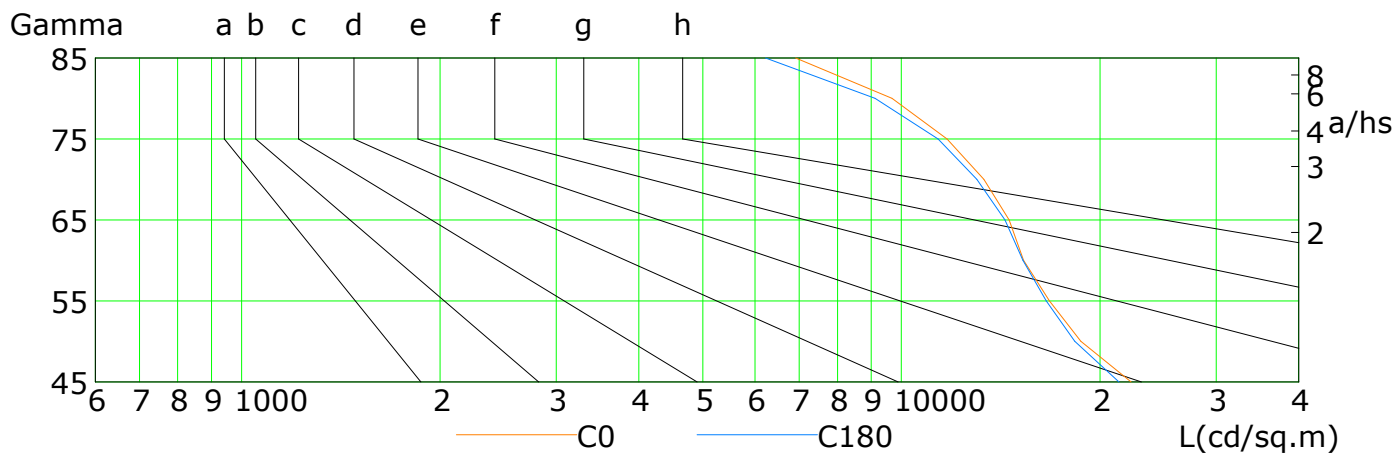
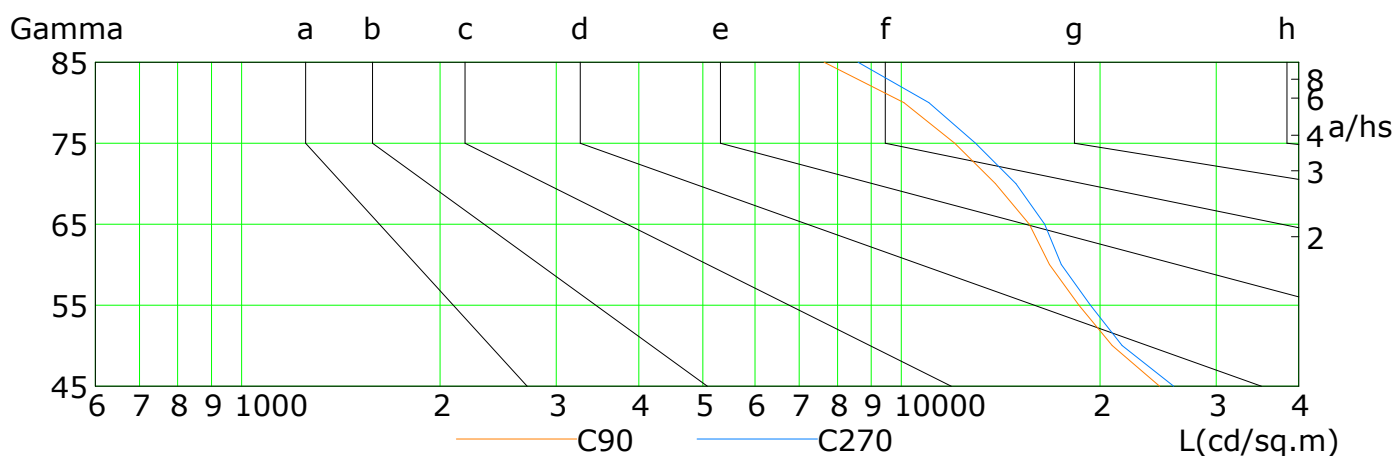
Humidity:

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	22282	18706	16765	15313	14565	13342	11722	9681	6916
C90	24617	20872	18583	16764	15621	13887	12048	10081	7635
C180	21367	18313	16577	15286	14362	13007	11366	9121	6228
C270	25853	21610	19338	17474	16495	14918	12955	10998	8600

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

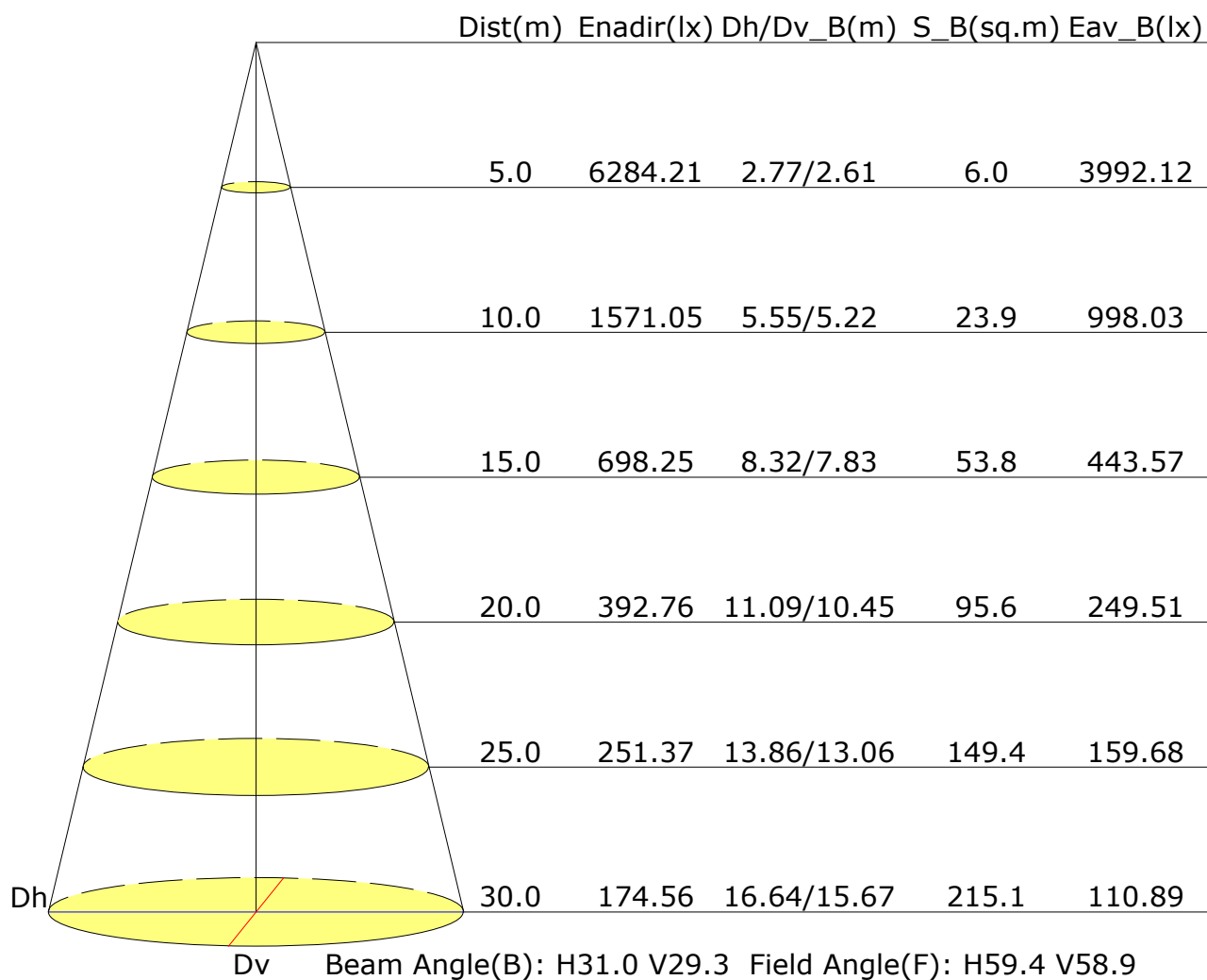
Test Device: LSG-1800B

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	18.6	19.5	18.9	19.8	20.0	18.6	19.5	19.0	19.8	20.0
3H	20.1	20.9	20.4	21.2	21.5	19.9	20.7	20.3	21.0	21.3
4H	20.8	21.5	21.1	21.8	22.2	20.5	21.3	20.9	21.6	21.9
6H	21.3	22.0	21.7	22.4	22.8	21.0	21.7	21.4	22.1	22.4
8H	21.6	22.2	22.0	22.6	23.0	21.2	21.9	21.6	22.3	22.6
12H	21.7	22.4	22.1	22.7	23.1	21.4	22.0	21.8	22.4	22.8
X=4H Y=2H	19.1	19.9	19.5	20.2	20.5	19.1	19.9	19.5	20.2	20.5
3H	20.8	21.5	21.2	21.8	22.2	20.6	21.3	21.1	21.7	22.1
4H	21.6	22.2	22.1	22.6	23.0	21.4	22.0	21.8	22.4	22.8
6H	22.3	22.8	22.8	23.3	23.7	22.0	22.5	22.5	23.0	23.4
8H	22.6	23.1	23.1	23.5	24.0	22.3	22.7	22.7	23.2	23.7
12H	22.8	23.2	23.3	23.7	24.2	22.5	22.9	23.0	23.4	23.9
X=8H Y=4H	21.9	22.4	22.4	22.8	23.3	21.7	22.1	22.1	22.6	23.1
6H	22.7	23.1	23.2	23.6	24.1	22.5	22.8	23.0	23.3	23.9
8H	23.1	23.5	23.6	24.0	24.5	22.8	23.2	23.3	23.7	24.2
12H	23.4	23.7	23.9	24.2	24.8	23.1	23.4	23.7	23.9	24.5
X=12H Y=4H	21.9	22.3	22.4	22.8	23.3	21.7	22.1	22.2	22.6	23.1
6H	22.8	23.2	23.3	23.7	24.2	22.5	22.9	23.1	23.4	23.9
8H	23.2	23.5	23.8	24.0	24.6	22.9	23.2	23.5	23.8	24.3
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.3					+0.5/-0.3				
S=1.5H	+0.8/-0.6					+1.0/-0.6				
S=2.0H	+1.5/-0.8					+1.7/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 71939lm ($8\log(F/F_0) = 14.9$).

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 Test Type: TYPE C
 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 = 0.75									
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	0.82	0.88	0.92	0.95	0.99	1.02	1.04	1.07	1.09	
	0.30		0.77	0.83	0.87	0.90	0.95	0.98	1.01	1.04	1.06	
	0.20		0.73	0.79	0.83	0.87	0.92	0.95	0.98	1.02	1.04	
0.50	0.50	0.20	0.80	0.85	0.89	0.92	0.96	0.98	1.00	1.02	1.04	
	0.30		0.76	0.81	0.85	0.88	0.92	0.95	0.97	1.00	1.02	
	0.20		0.73	0.78	0.82	0.85	0.90	0.93	0.95	0.98	1.00	
0.30	0.50	0.20	0.79	0.84	0.87	0.89	0.93	0.95	0.96	0.98	1.00	
	0.30		0.75	0.80	0.84	0.86	0.90	0.92	0.94	0.97	0.98	
	0.20		0.72	0.77	0.81	0.84	0.88	0.90	0.92	0.95	0.97	
0.00	0.00	0.00	0.70	0.75	0.78	0.80	0.84	0.86	0.88	0.90	0.91	
Rating:505W 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 = 0.75									
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	0.62	0.52	0.45	0.39	0.31	0.26	0.23	0.18	0.15	
	0.30		0.52	0.44	0.39	0.35	0.28	0.24	0.21	0.17	0.14	
	0.20		0.45	0.39	0.34	0.31	0.26	0.22	0.20	0.16	0.13	
0.50	0.50	0.20	0.59	0.49	0.42	0.36	0.29	0.28	0.21	0.16	0.13	
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.15	0.13	
	0.20		0.43	0.37	0.33	0.30	0.25	0.21	0.18	0.15	0.12	
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.14	0.12	
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.11	
0.00	0.00	0.00	0.28	0.24	0.20	0.18	0.14	0.12	0.11	0.08	0.07	
Rating:505W 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 = 0.75									
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	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.30		0.12	0.14	0.15	0.17	0.18	0.20	0.20	0.22	0.23	
	0.20		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20	0.21	
0.50	0.50	0.20	0.16	0.17	0.19	0.19	0.21	0.21	0.22	0.23	0.23	
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20	
0.30	0.50	0.20	0.15	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.20	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:505W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												