

Report No.: 1

Test Time: 25.02.2020 19:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 (1500) 4x70LED 112W 5000K DALI
s linzoy C14530_Florence-1R-Z2T25

Luminous Length (mm): 1545

Voltage: 230.1 V Power Factor: 0.990

Luminous Height (mm): 80

Power: 114.07 W

Luminous Width (mm): 55

Current: 0.500 A

Photometric Results

CIE Class: Direct

Measurement Flux: 12800.6 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 12800.6 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 149.3, 130.4, 140.1, 140.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.6, 85.0, 98.9, 98.8

Luminaire Efficacy Rating (LER): 112.27

Central Intensity: 4255.24 cd

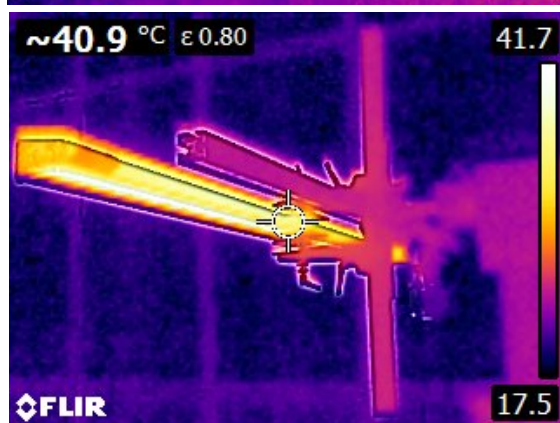
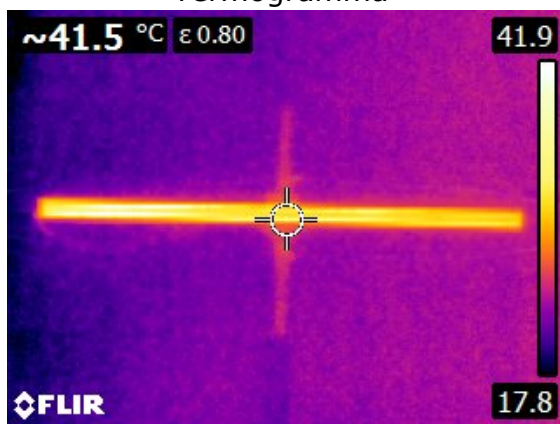
Max. Intensity: 6224.42 cd

Pos of Max. Intensity: H270 V22

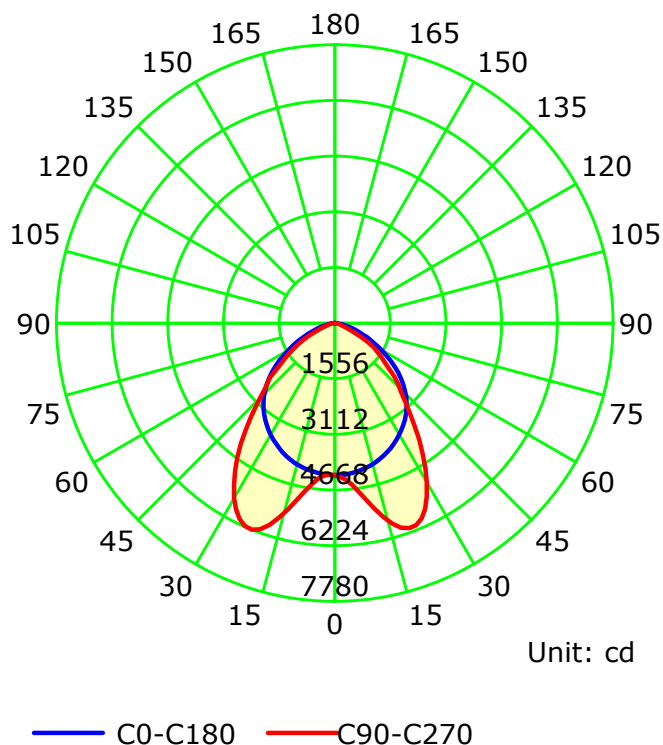
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.50

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

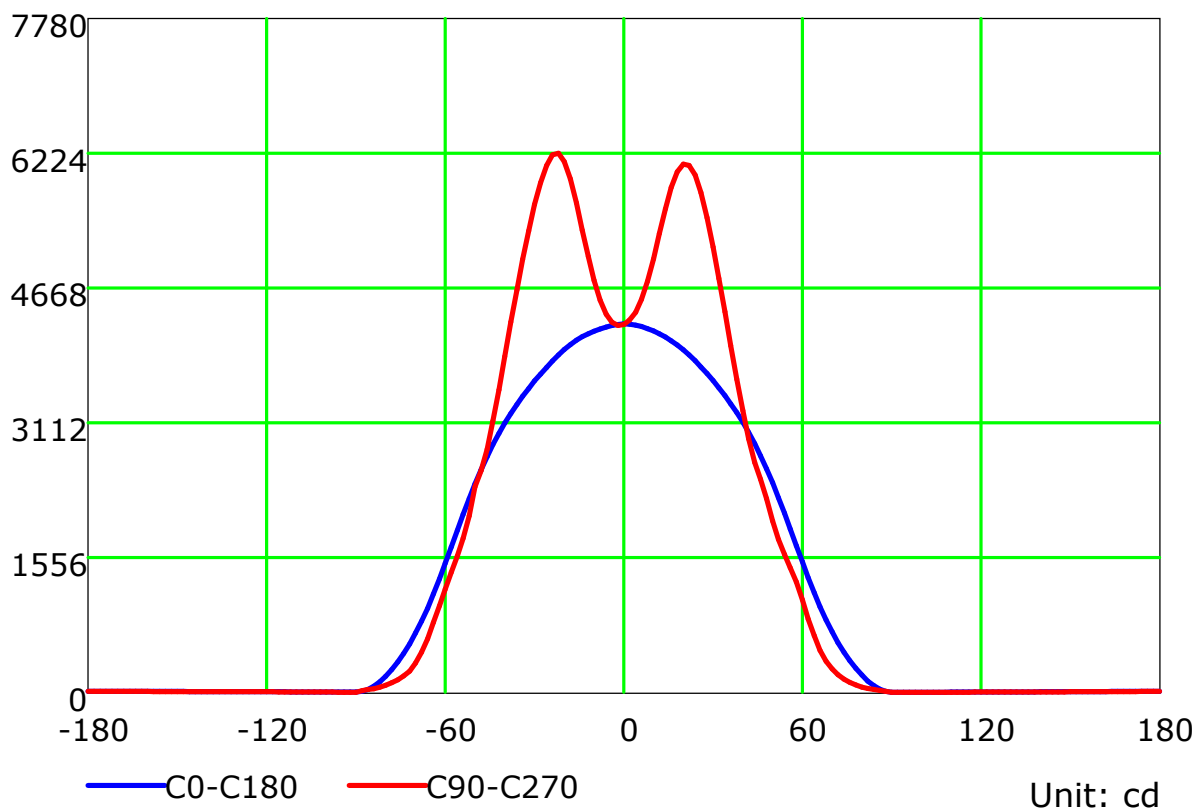
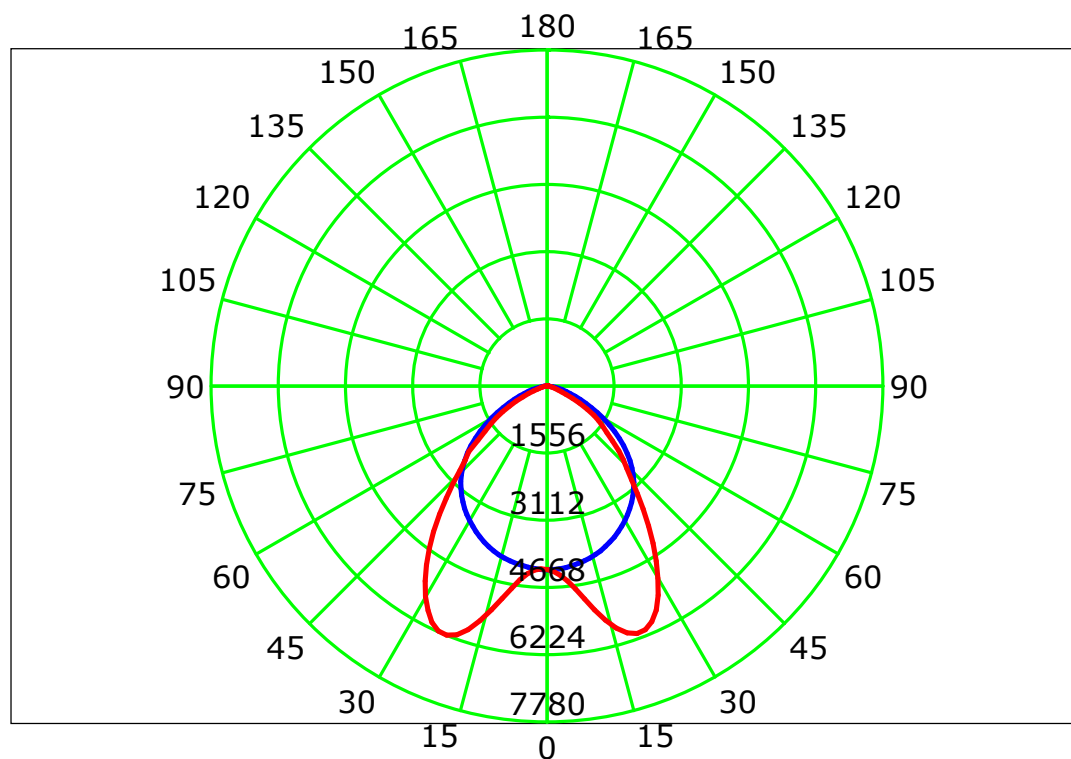
Test Device: LSG-1800B

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

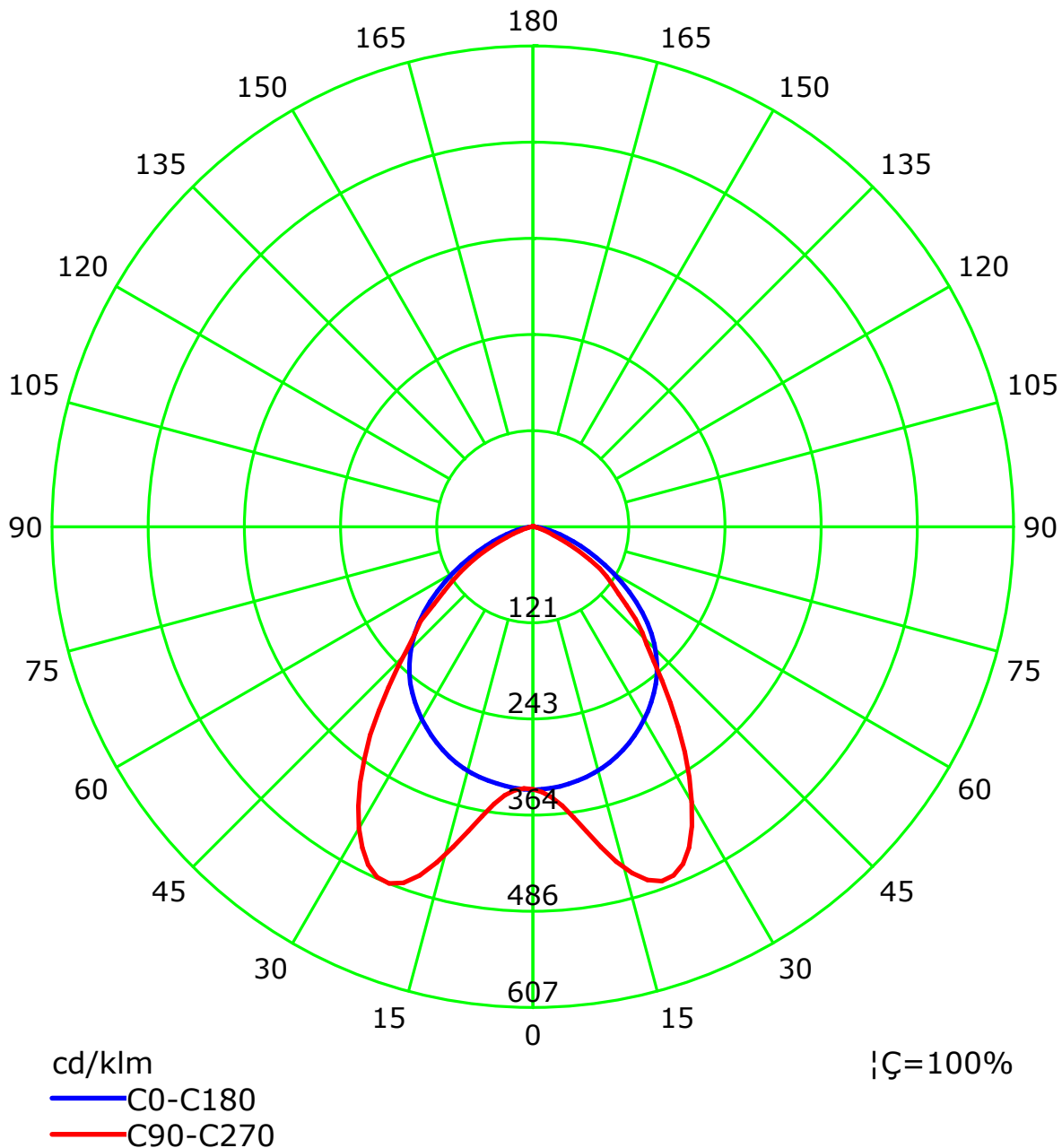
Test Device: LSG-1800B

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

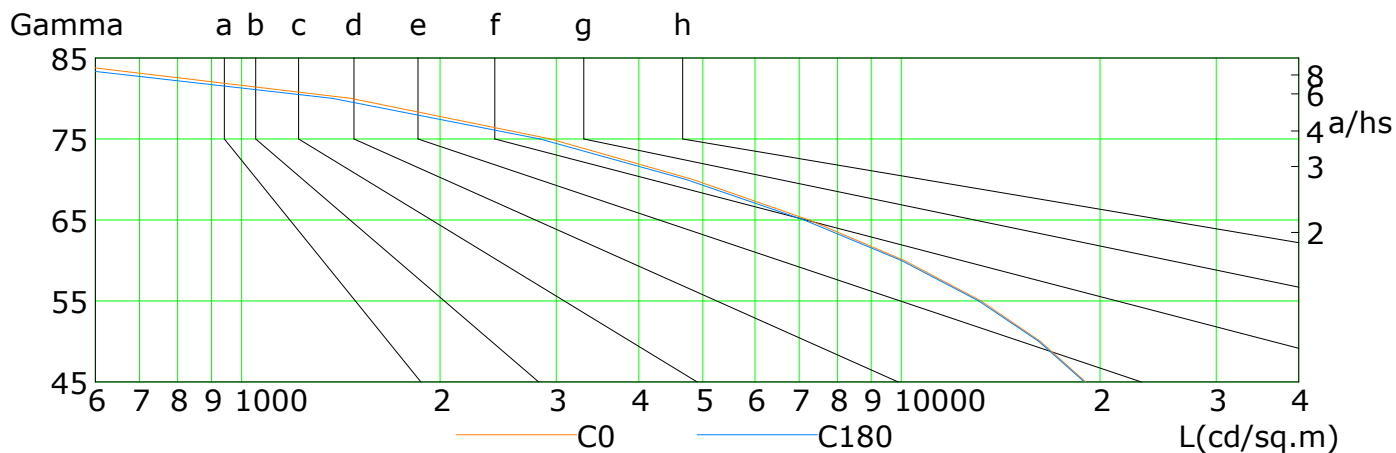
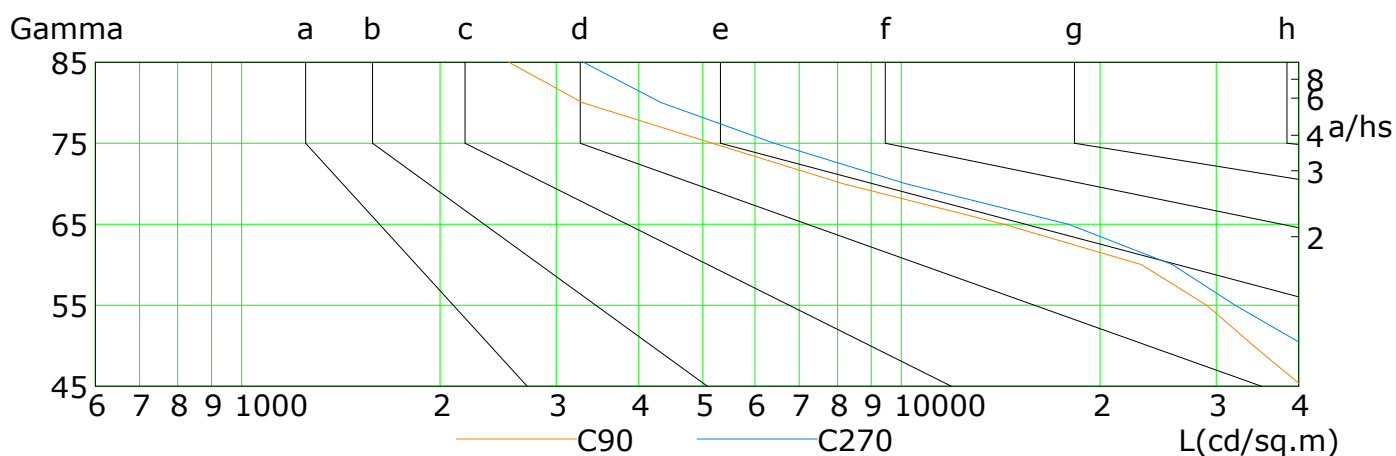
Humidity:

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	19014	16227	13196	10086	7236	4819	2940	1464	452
C90	40495	34138	29011	23112	14295	8152	5174	3287	2542
C180	18930	16138	13098	9980	7120	4709	2834	1372	398
C270	47014	40949	32062	25747	17898	10141	6417	4323	3296

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

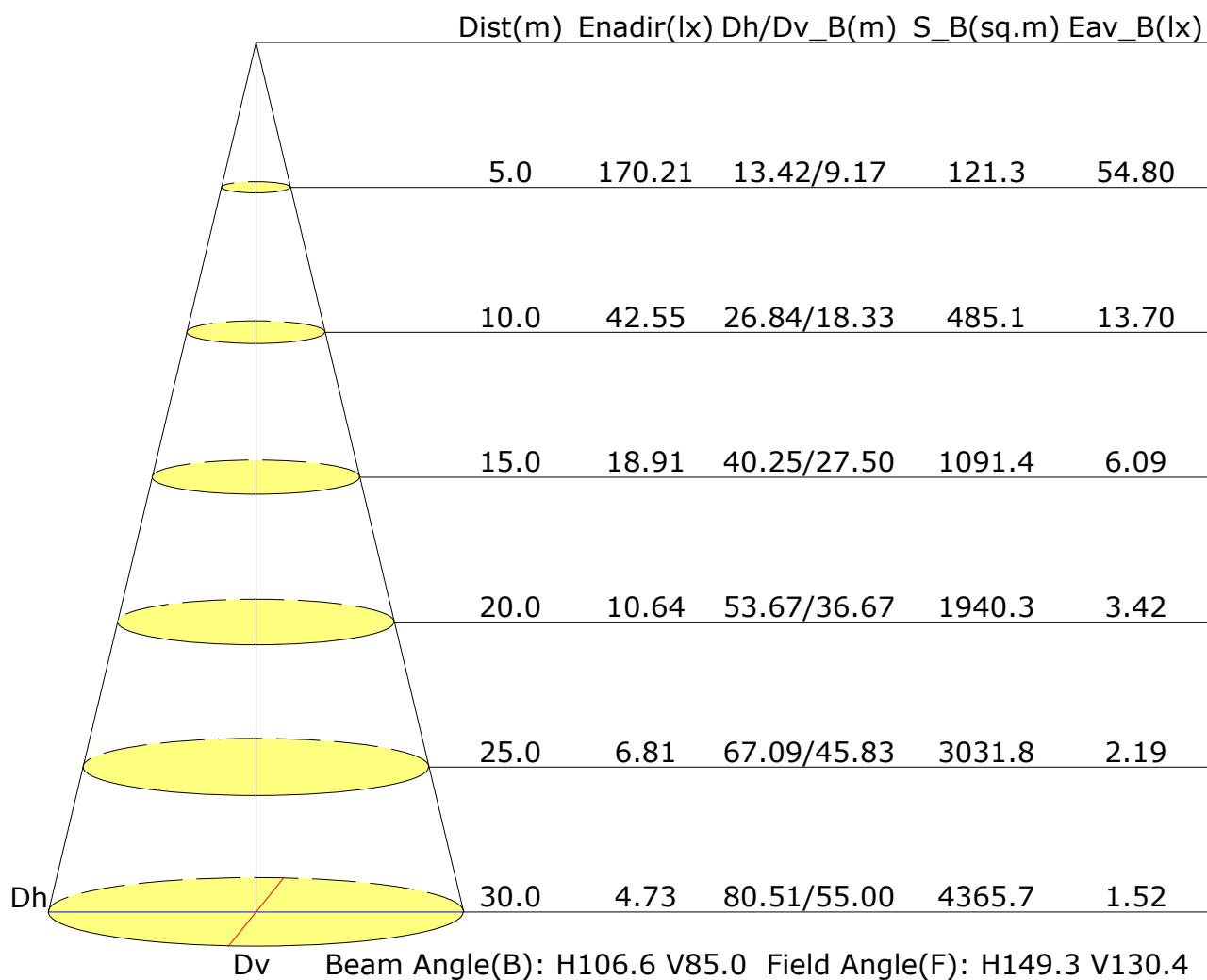
Test Device: LSG-1800B

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	22.5	23.8	22.8	24.0	24.3	22.7	24.0	23.0	24.2	24.5
3H	22.9	24.1	23.3	24.3	24.6	22.9	24.1	23.3	24.3	24.6
4H	23.0	24.0	23.3	24.3	24.6	22.9	24.0	23.3	24.3	24.6
6H	23.0	24.0	23.3	24.3	24.6	22.9	23.9	23.2	24.2	24.5
8H	22.9	23.9	23.3	24.2	24.5	22.9	23.8	23.2	24.1	24.5
12H	22.9	23.8	23.3	24.1	24.5	22.8	23.7	23.2	24.1	24.4
X=4H Y=2H	22.7	23.8	23.1	24.1	24.4	22.9	24.0	23.2	24.3	24.5
3H	23.2	24.1	23.6	24.5	24.8	23.2	24.1	23.5	24.4	24.7
4H	23.3	24.1	23.7	24.5	24.9	23.2	24.0	23.6	24.3	24.7
6H	23.3	24.1	23.8	24.4	24.8	23.1	23.8	23.6	24.2	24.6
8H	23.3	24.0	23.8	24.4	24.8	23.1	23.8	23.6	24.2	24.6
12H	23.3	23.9	23.8	24.3	24.7	23.1	23.7	23.5	24.1	24.5
X=8H Y=4H	23.3	23.9	23.7	24.3	24.8	23.1	23.8	23.6	24.2	24.6
6H	23.3	23.8	23.8	24.3	24.7	23.1	23.6	23.6	24.1	24.5
8H	23.3	23.8	23.8	24.2	24.7	23.1	23.6	23.6	24.0	24.5
12H	23.3	23.7	23.8	24.1	24.7	23.1	23.5	23.6	23.9	24.5
X=12H Y=4H	23.2	23.8	23.7	24.2	24.7	23.1	23.7	23.6	24.1	24.5
6H	23.3	23.7	23.8	24.2	24.7	23.1	23.5	23.6	24.0	24.5
8H	23.3	23.7	23.8	24.1	24.6	23.1	23.5	23.6	23.9	24.4
Variations with the observer position at spacings:										
S=1.0H	+0.7/-1.0					+0.6/-1.2				
S=1.5H	+1.2/-2.3					+1.7/-2.7				
S=2.0H	+2.3/-3.6					+3.0/-5.3				

Calculate in accordance with CIE Pub.117. The table is revised with 12801lm ($8\log(F/F_0) = 8.9$).

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.68	0.76	0.83	0.88	0.94	0.98	1.01	1.04	1.07	
	0.30		0.62	0.70	0.77	0.82	0.89	0.94	0.97	1.01	1.04	
	0.20		0.57	0.65	0.73	0.78	0.85	0.90	0.94	0.98	1.02	
0.50	0.50	0.20	0.67	0.75	0.81	0.85	0.91	0.95	0.97	1.00	1.03	
	0.30		0.61	0.69	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.57	0.65	0.72	0.77	0.84	0.88	0.91	0.96	0.98	
0.30	0.50	0.20	0.65	0.73	0.79	0.83	0.88	0.92	0.94	0.97	0.99	
	0.30		0.60	0.68	0.74	0.79	0.85	0.89	0.91	0.95	0.97	
	0.20		0.56	0.64	0.71	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.54	0.62	0.68	0.73	0.79	0.82	0.85	0.88	0.91	
Rating:114W 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 = 1.50									
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	0.68	0.56	0.48	0.38	0.31	0.27	0.20	0.16	
	0.30		0.68	0.58	0.49	0.43	0.34	0.29	0.25	0.19	0.16	
	0.20		0.59	0.51	0.44	0.38	0.31	0.26	0.23	0.18	0.15	
0.50	0.50	0.20	0.79	0.65	0.54	0.46	0.36	0.33	0.25	0.19	0.15	
	0.30		0.67	0.56	0.47	0.41	0.33	0.27	0.23	0.18	0.15	
	0.20		0.58	0.50	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
0.30	0.50	0.20	0.76	0.62	0.51	0.44	0.34	0.28	0.24	0.18	0.15	
	0.30		0.65	0.55	0.46	0.40	0.31	0.26	0.22	0.17	0.14	
	0.20		0.57	0.49	0.42	0.36	0.29	0.24	0.21	0.16	0.13	
0.00	0.00	0.00	0.45	0.38	0.31	0.27	0.21	0.17	0.15	0.11	0.09	
Rating:114W 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 = 1.50									
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	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.22	
	0.30		0.09	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.17	0.18	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	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	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	0.09	0.10	0.12	0.13	0.14	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:114W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												