

Report No.: 1

Test Time: 04.12.2019 18:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 24LED 0.35A 37W 5000K microprisma

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.179 A

Power: 38.88 W

Power Factor: 0.976

Photometric Results

CIE Class: Direct

Measurement Flux: 4798.6 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4798.6 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.5, 160.2, 153.1, 153.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.7, 79.7, 77.6, 78.0

Luminaire Efficacy Rating (LER): 123.47

Central Intensity: 2346.58 cd

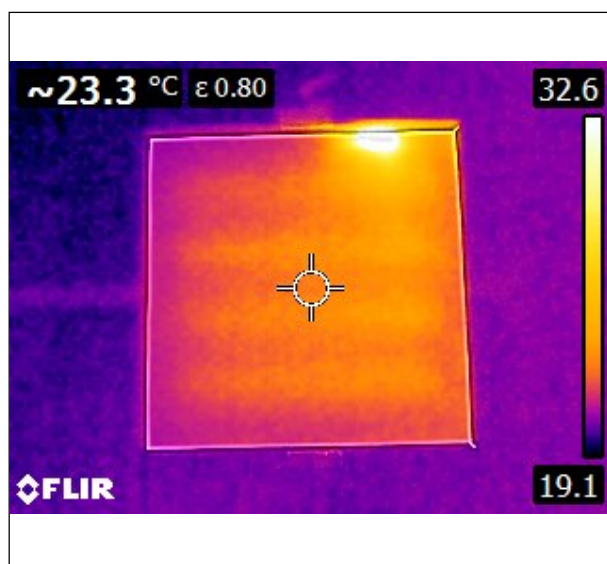
Max. Intensity: 2348.52 cd

Pos of Max. Intensity: H180 V2

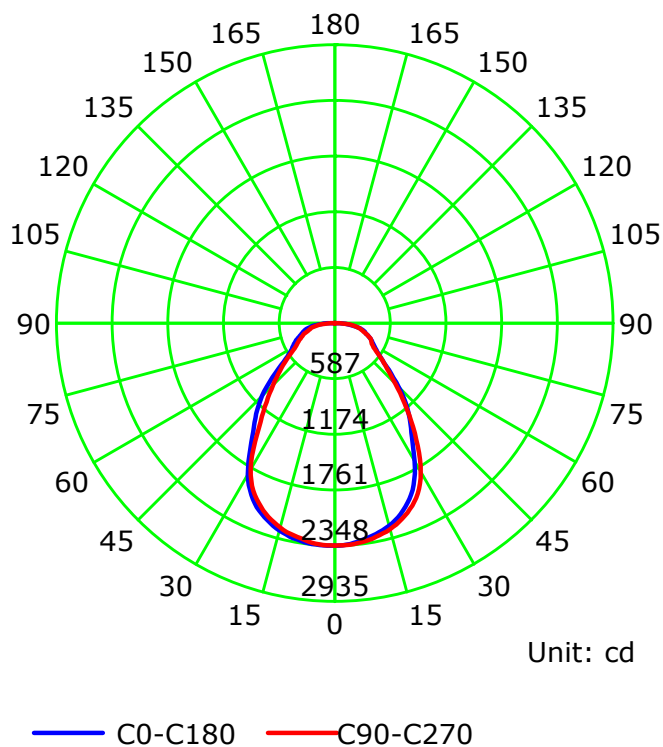
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.15

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

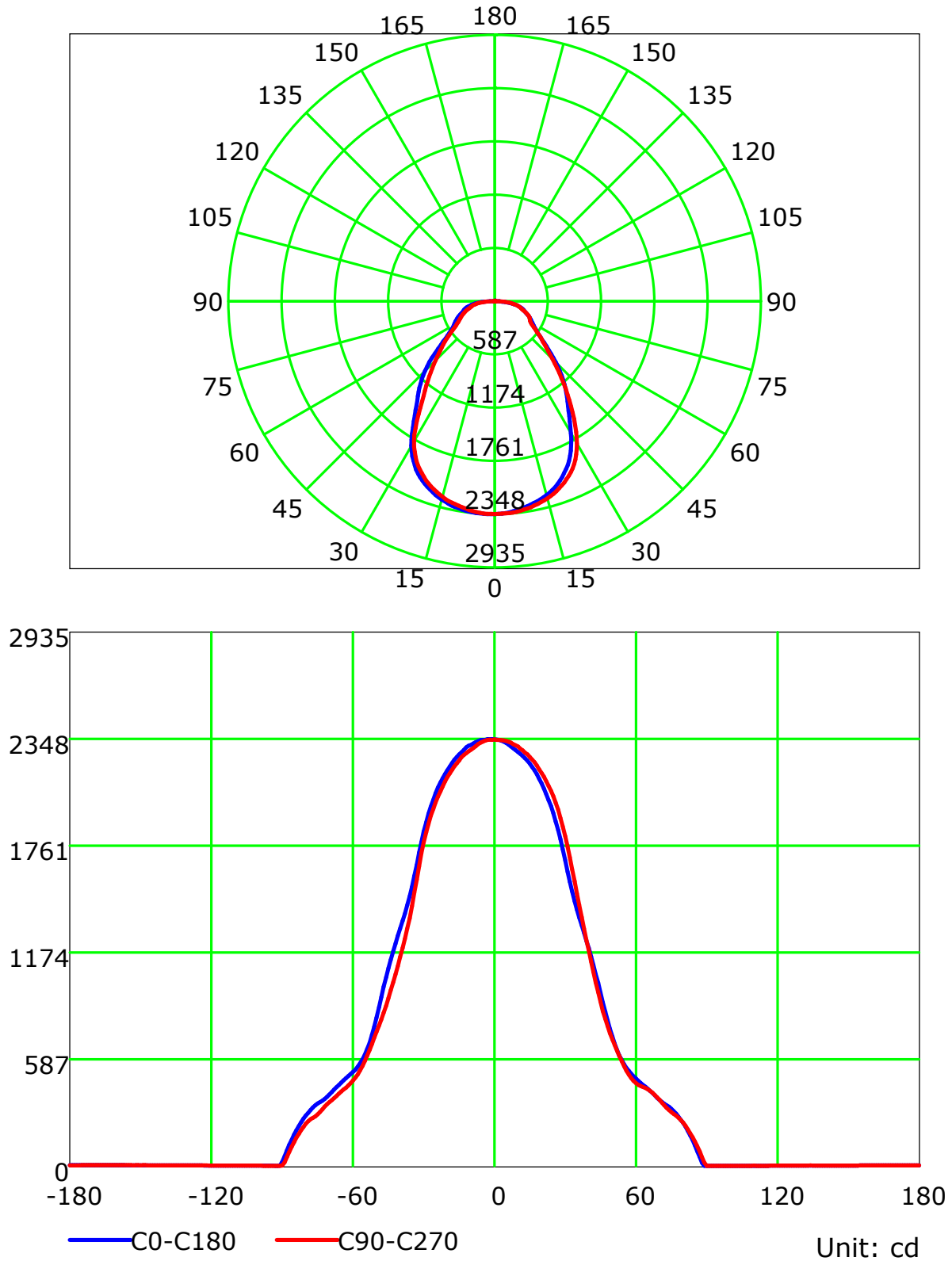
Test Device: LSG-1800B

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 (°):0.0-180.0:1.0

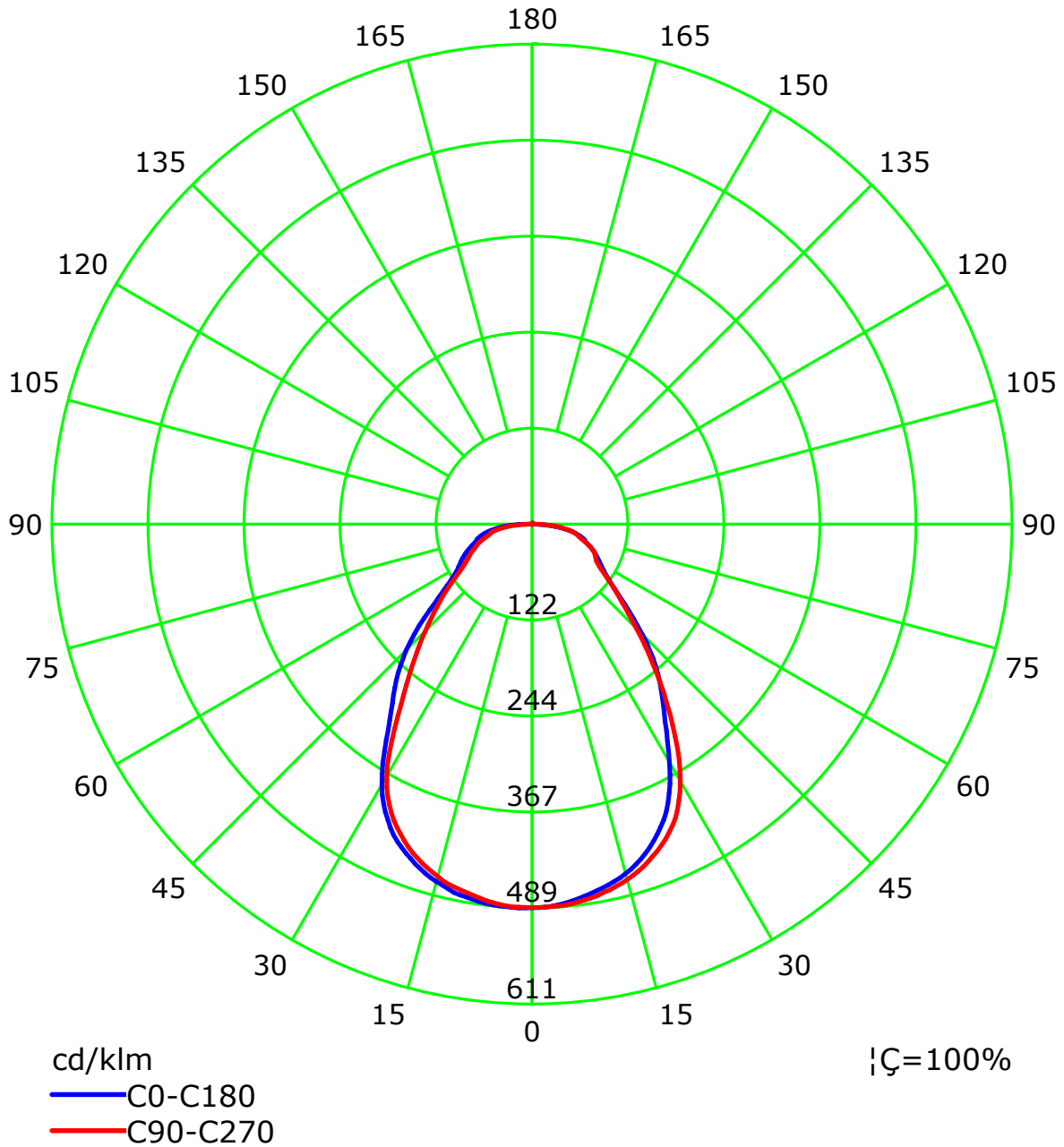
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

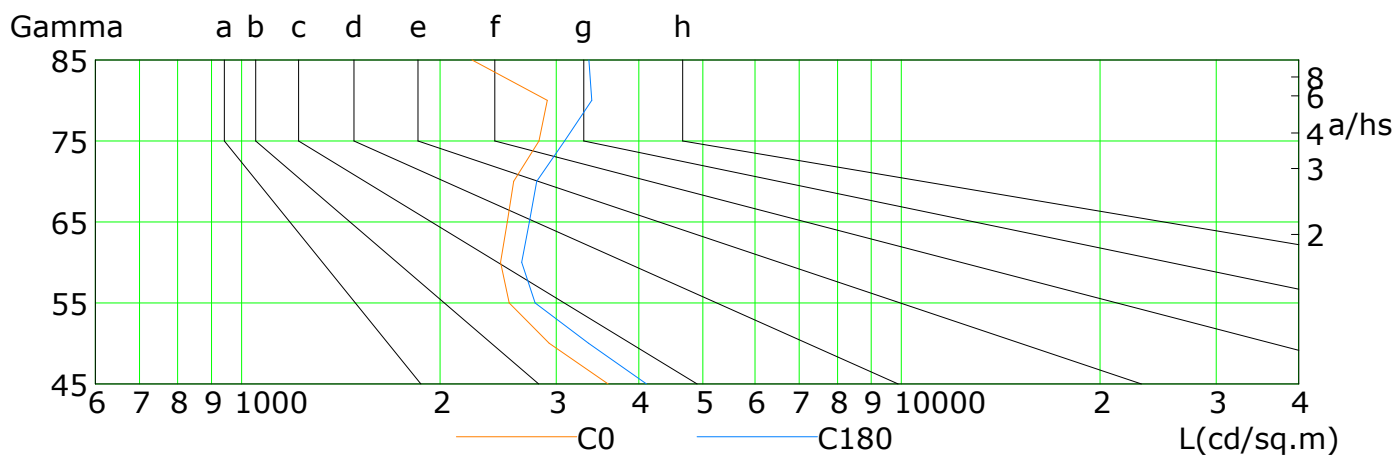
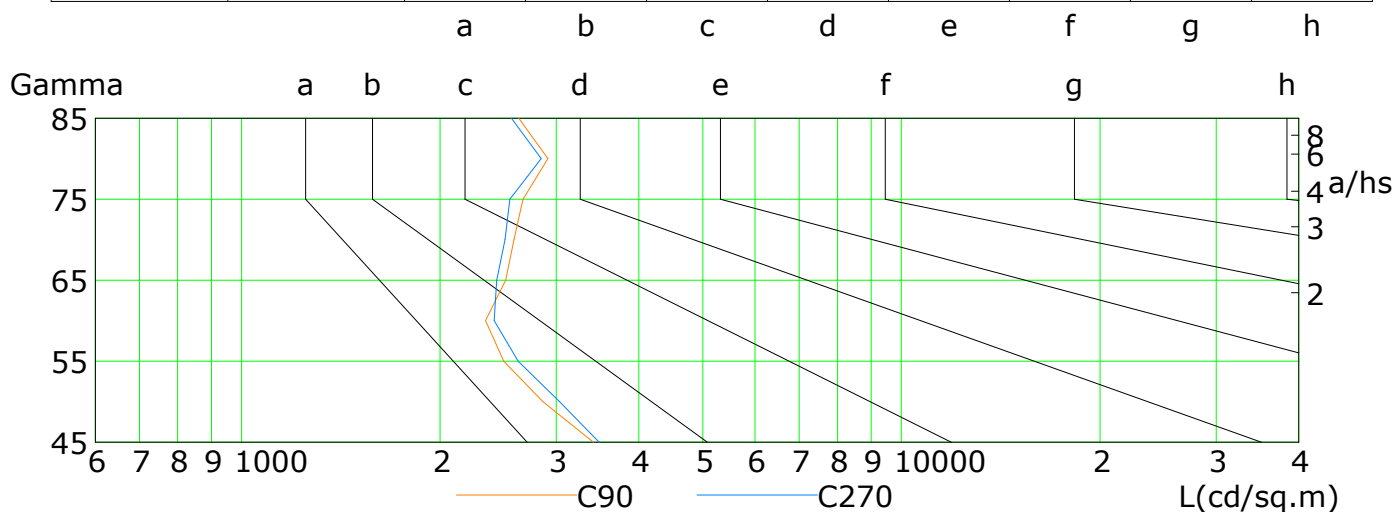


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
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

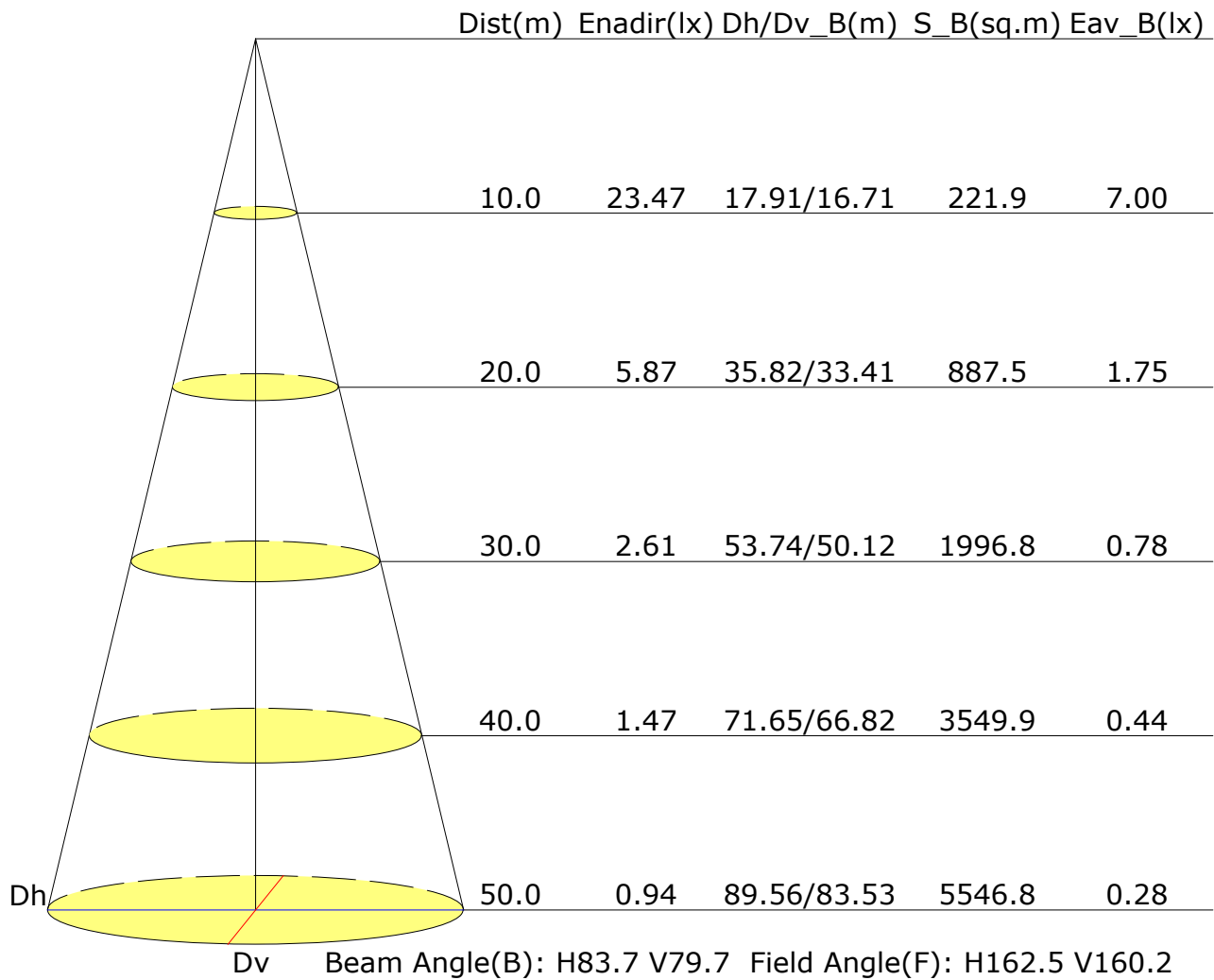


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3595	2925	2545	2469	2529	2584	2823	2907	2236
C90	3412	2861	2497	2343	2512	2589	2670	2914	2632
C180	4108	3355	2786	2659	2730	2800	3086	3392	3361
C270	3484	3033	2625	2416	2436	2507	2550	2846	2565

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 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	15.0	16.2	15.3	16.5	16.7	14.9	16.2	15.2	16.4	16.7
3H	16.6	17.7	16.9	18.0	18.3	16.5	17.7	16.8	17.9	18.2
4H	17.5	18.6	17.8	18.9	19.2	17.3	18.4	17.7	18.7	19.0
6H	18.4	19.4	18.7	19.7	20.0	18.2	19.2	18.5	19.5	19.8
8H	18.7	19.7	19.1	20.0	20.3	18.5	19.5	18.9	19.8	20.2
12H	18.9	19.8	19.3	20.2	20.5	18.8	19.7	19.2	20.1	20.4
X=4H Y=2H	15.5	16.6	15.8	16.8	17.2	15.4	16.5	15.8	16.8	17.1
3H	17.3	18.3	17.7	18.6	19.0	17.2	18.2	17.6	18.5	18.9
4H	18.4	19.2	18.8	19.6	20.0	18.2	19.1	18.6	19.4	19.8
6H	19.4	20.2	19.9	20.6	21.0	19.2	20.0	19.7	20.4	20.8
8H	19.8	20.5	20.3	20.9	21.4	19.7	20.4	20.1	20.8	21.2
12H	20.1	20.7	20.6	21.2	21.6	20.0	20.6	20.5	21.1	21.5
X=8H Y=4H	18.7	19.4	19.1	19.8	20.2	18.5	19.2	19.0	19.6	20.1
6H	19.9	20.5	20.4	20.9	21.4	19.7	20.3	20.2	20.7	21.2
8H	20.4	20.9	20.9	21.4	21.9	20.3	20.8	20.7	21.2	21.7
12H	20.8	21.2	21.3	21.7	22.2	20.7	21.1	21.2	21.6	22.1
X=12H Y=4H	18.7	19.4	19.2	19.8	20.2	18.6	19.2	19.0	19.6	20.1
6H	20.0	20.5	20.5	20.9	21.4	19.8	20.3	20.3	20.8	21.2
8H	20.5	20.9	21.0	21.4	21.9	20.4	20.8	20.9	21.3	21.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.2					+0.3/-0.2				
S=1.5H	+0.3/-0.6					+0.3/-0.6				
S=2.0H	+0.5/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4799lm ($8\log(F/F_0) = 5.4$).

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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 = 1.00									
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	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.30		0.55	0.64	0.71	0.76	0.83	0.88	0.92	0.97	1.01	
	0.20		0.49	0.59	0.66	0.71	0.79	0.84	0.88	0.94	0.97	
0.50	0.50	0.20	0.60	0.69	0.75	0.80	0.86	0.90	0.93	0.97	1.00	
	0.30		0.54	0.63	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
	0.20		0.49	0.58	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.59	0.67	0.73	0.77	0.83	0.87	0.90	0.93	0.96	
	0.30		0.53	0.62	0.68	0.73	0.79	0.83	0.86	0.91	0.93	
	0.20		0.49	0.58	0.64	0.69	0.75	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.55	0.61	0.66	0.72	0.76	0.79	0.84	0.86	
Rating:39W 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 = 1.00									
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	0.92	0.76	0.65	0.57	0.46	0.38	0.33	0.26	0.21	
	0.30		0.77	0.65	0.57	0.51	0.41	0.35	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	
0.50	0.50	0.20	0.89	0.73	0.62	0.55	0.44	0.40	0.31	0.24	0.20	
	0.30		0.75	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.86	0.70	0.60	0.52	0.42	0.35	0.30	0.23	0.19	
	0.30		0.73	0.62	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.36	0.30	0.27	0.21	0.18	
0.00	0.00	0.00	0.53	0.45	0.39	0.34	0.28	0.24	0.20	0.16	0.13	
Rating:39W 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 = 1.00									
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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	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:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												