

Report No.: 1

Test Time: 11.12.2019 15:01

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 8X18LED 0,4A 52W 3000K microprisma (50)

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.2 V

Current: 0.242 A

Power: 52.84 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 6181.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 6181.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.7, 161.9, 151.4, 152.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.4, 82.1, 76.9, 78.7

Luminaire Efficacy Rating (LER): 117.04

Central Intensity: 3084.64 cd

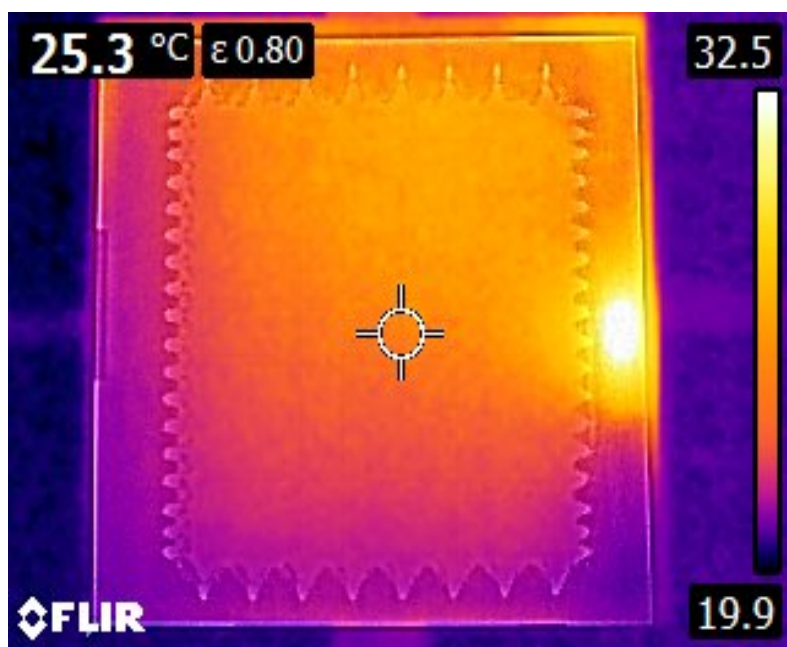
Max. Intensity: 3086.75 cd

Pos of Max. Intensity: H0 V2

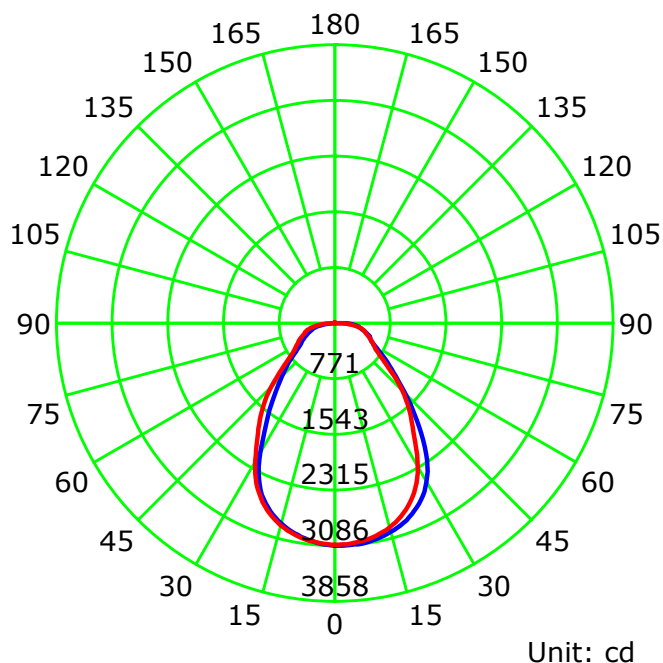
S/MH(C0/C180): 1.13

S/MH(C90/C270): 1.12

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

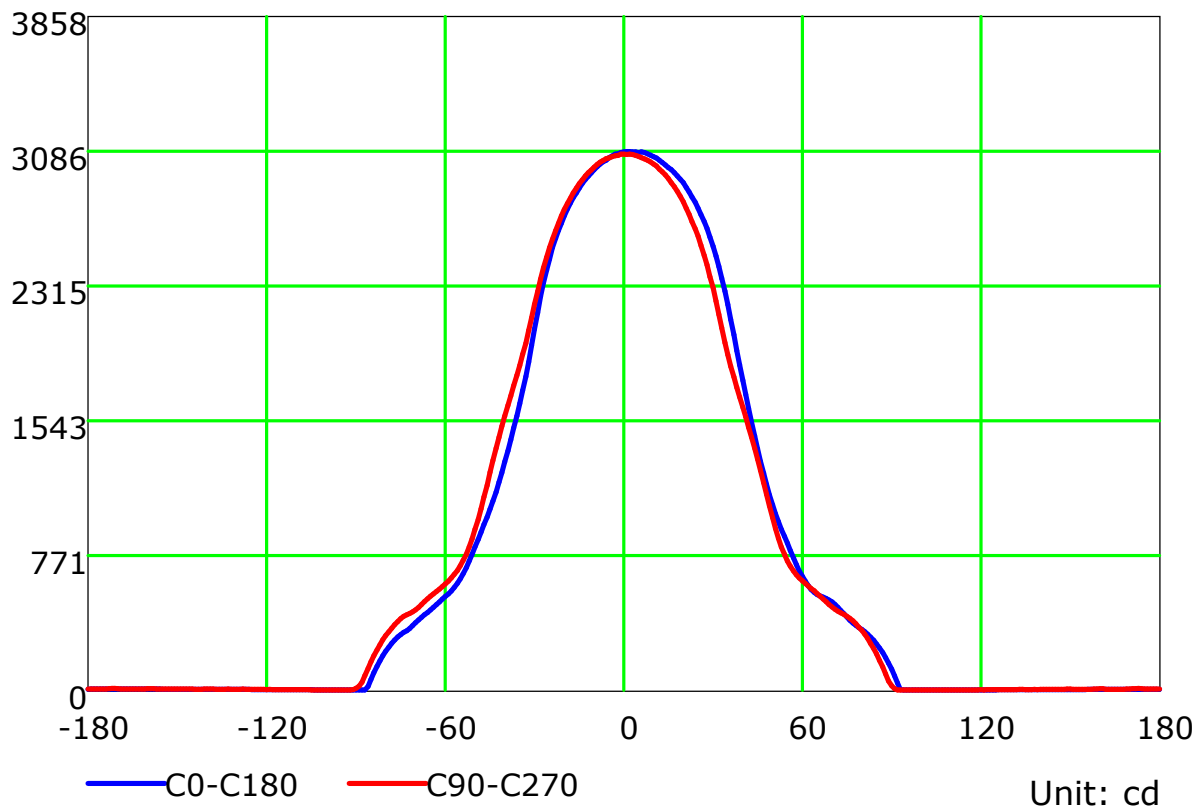
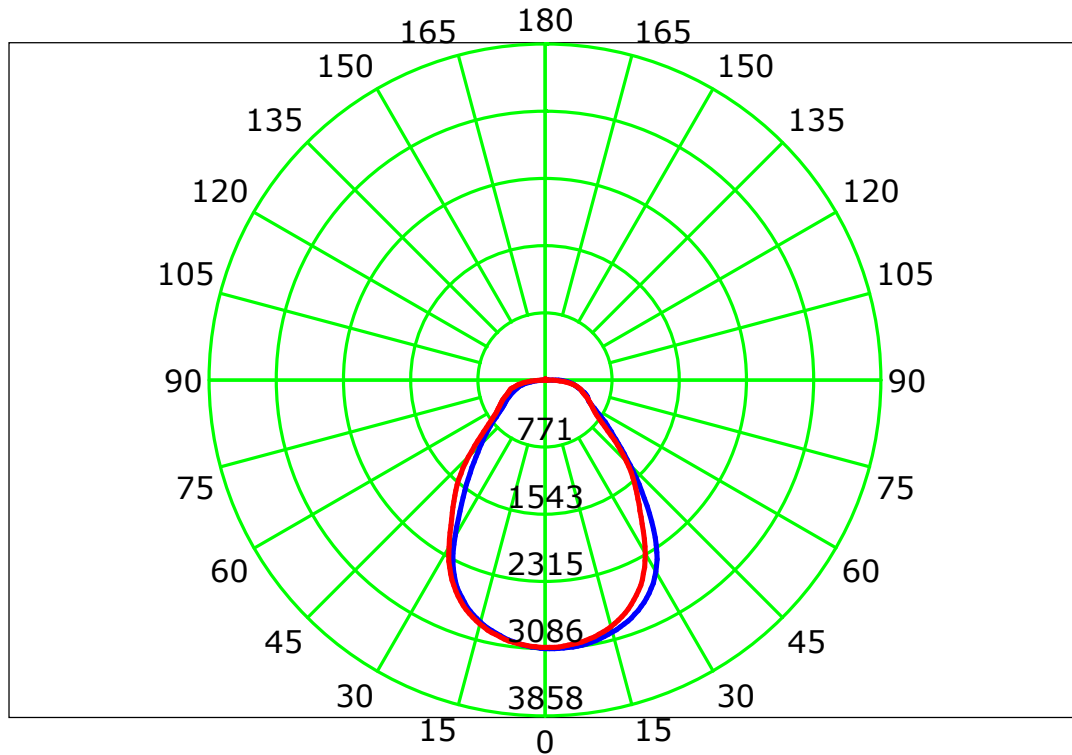
Test Device: LSG-1800B

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

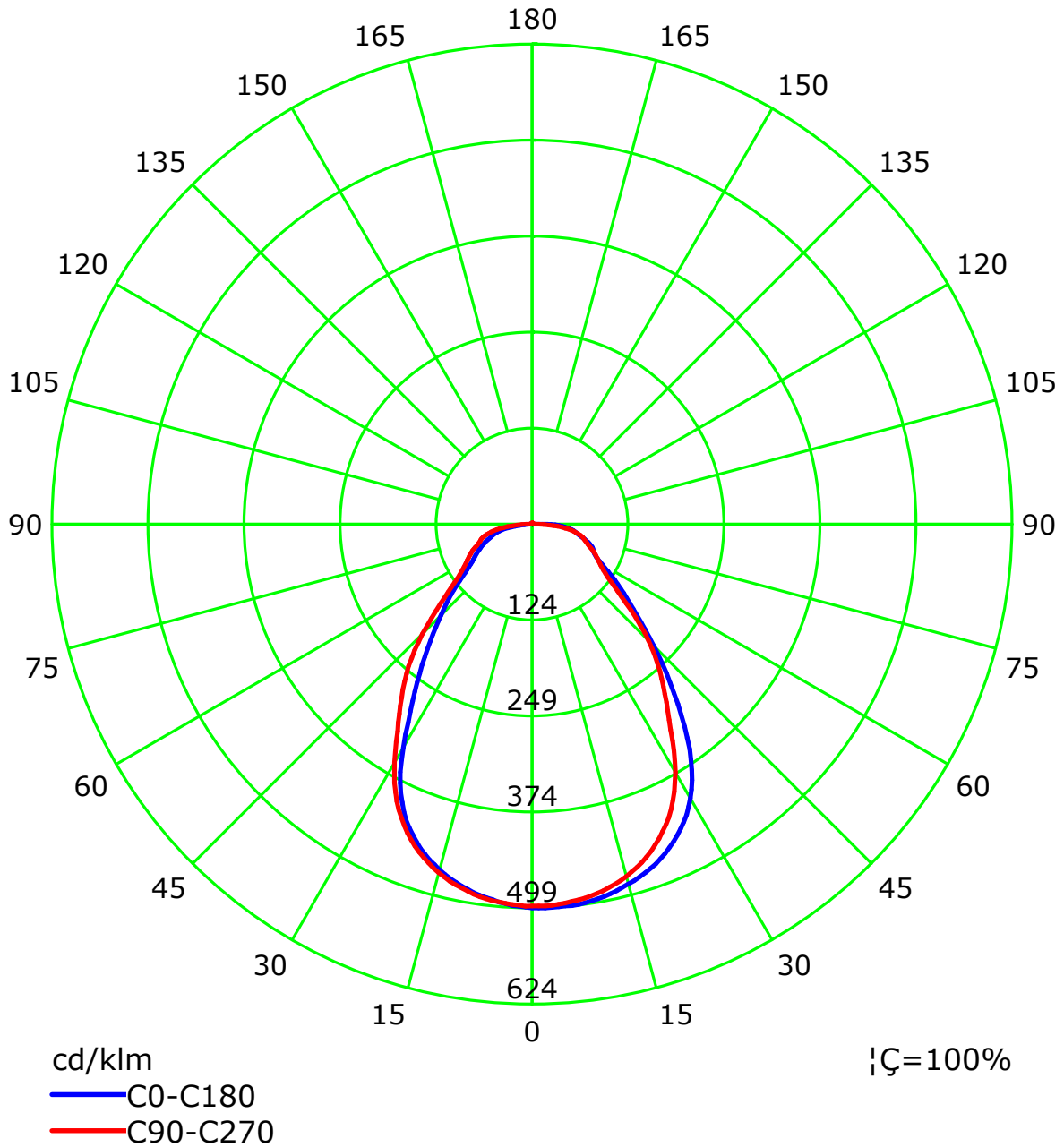
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

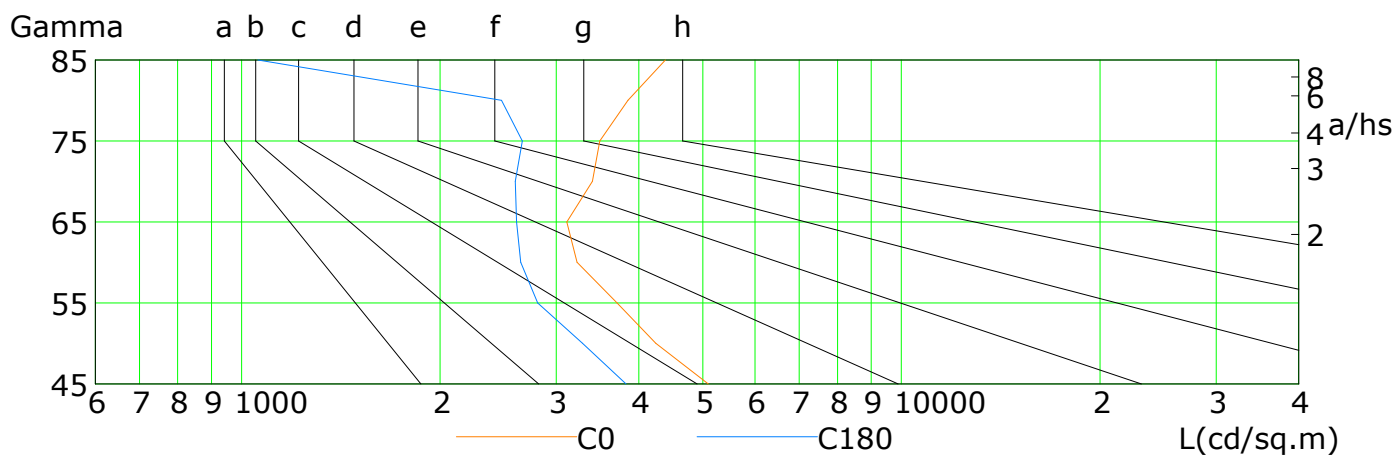
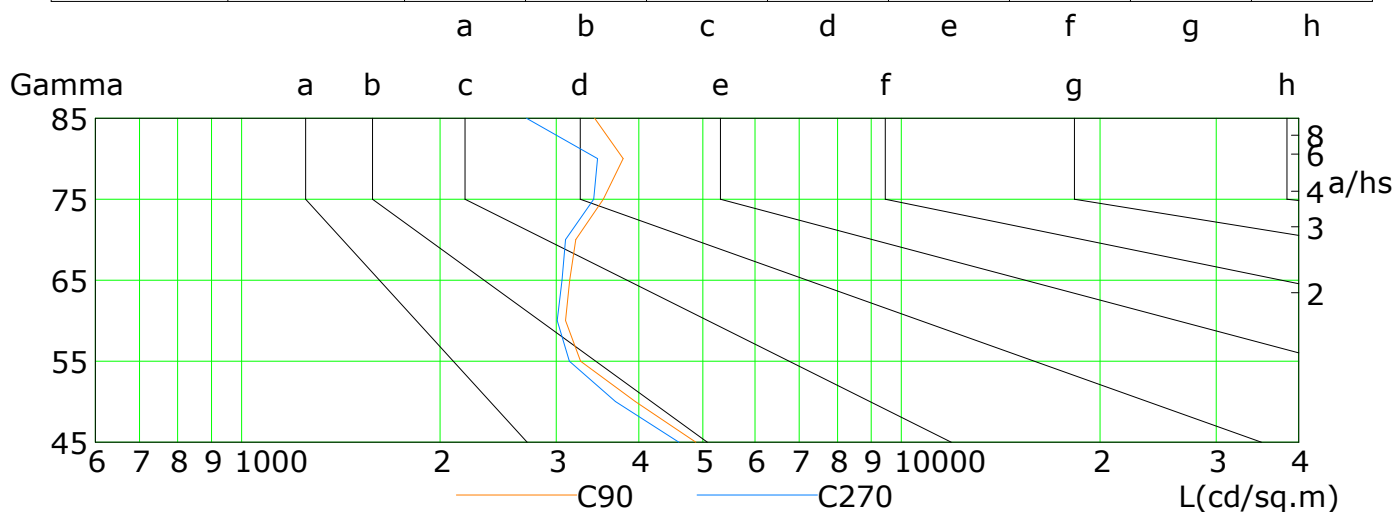


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

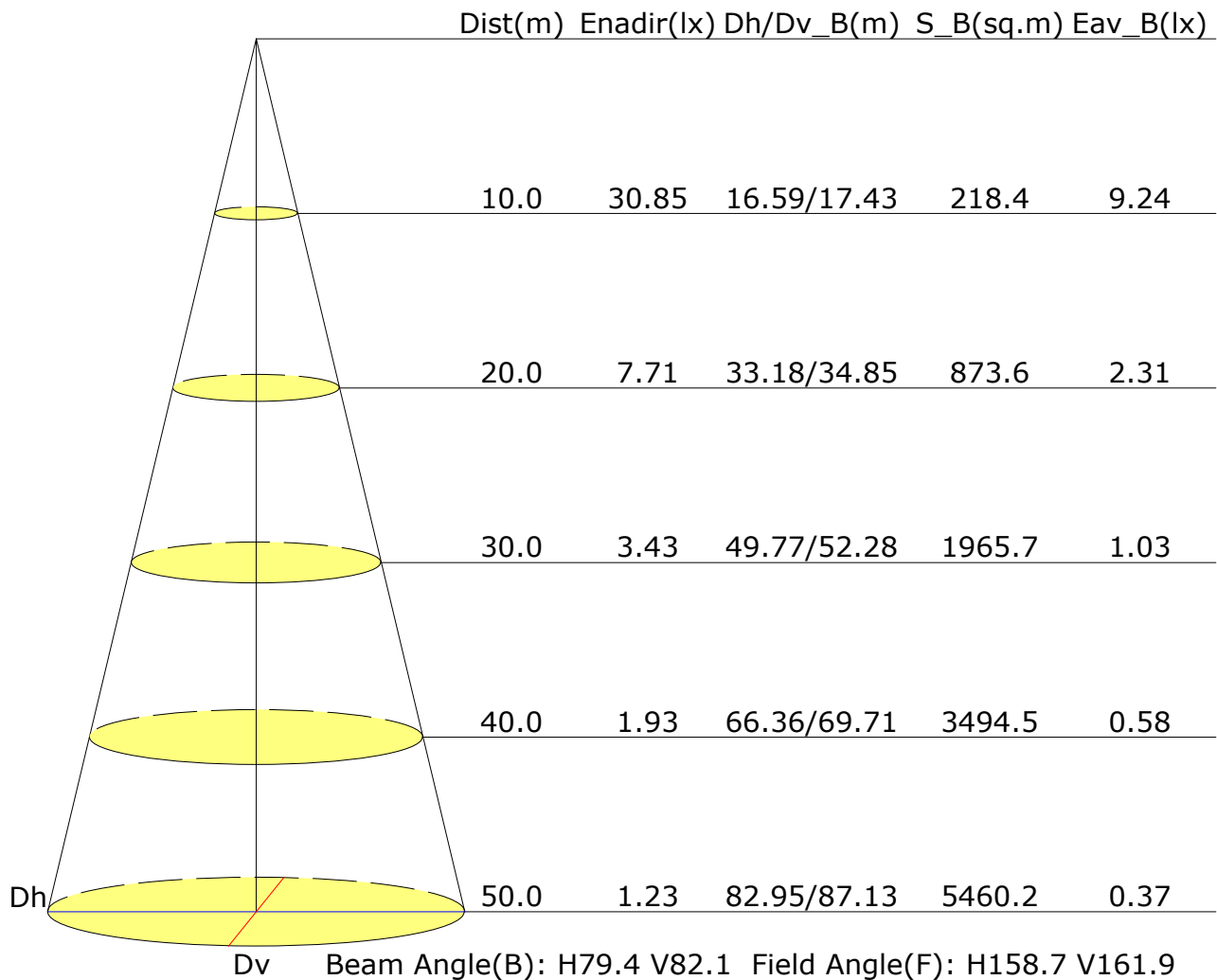


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5100	4245	3708	3225	3111	3400	3489	3852	4391
C90	4878	3951	3263	3097	3143	3209	3532	3785	3427
C180	3824	3285	2811	2650	2612	2599	2663	2479	1058
C270	4601	3685	3139	3009	3058	3096	3418	3465	2702

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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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	16.1	17.4	16.4	17.6	17.9	16.0	17.2	16.3	17.5	17.7
3H	17.6	18.8	18.0	19.0	19.3	17.5	18.6	17.8	18.9	19.2
4H	18.5	19.5	18.8	19.8	20.1	18.4	19.5	18.7	19.7	20.0
6H	19.3	20.3	19.7	20.6	21.0	19.2	20.3	19.6	20.6	20.9
8H	19.8	20.7	20.1	21.1	21.4	19.6	20.6	20.0	20.9	21.3
12H	20.2	21.1	20.6	21.5	21.8	19.9	20.8	20.3	21.2	21.5
X=4H Y=2H	16.6	17.6	16.9	17.9	18.2	16.4	17.5	16.8	17.8	18.1
3H	18.3	19.2	18.7	19.6	19.9	18.2	19.2	18.6	19.5	19.8
4H	19.3	20.1	19.7	20.5	20.9	19.3	20.1	19.7	20.5	20.8
6H	20.3	21.0	20.7	21.4	21.8	20.3	21.1	20.7	21.5	21.9
8H	20.8	21.5	21.3	21.9	22.4	20.8	21.5	21.2	21.9	22.3
12H	21.4	22.0	21.8	22.4	22.9	21.1	21.7	21.6	22.2	22.6
X=8H Y=4H	19.6	20.3	20.0	20.7	21.1	19.6	20.2	20.0	20.7	21.1
6H	20.7	21.3	21.2	21.8	22.2	20.8	21.4	21.3	21.8	22.3
8H	21.4	21.9	21.9	22.3	22.8	21.4	21.9	21.8	22.3	22.8
12H	22.0	22.5	22.5	22.9	23.4	21.8	22.2	22.3	22.7	23.2
X=12H Y=4H	19.6	20.2	20.1	20.7	21.1	19.6	20.2	20.1	20.6	21.1
6H	20.8	21.3	21.3	21.8	22.3	20.9	21.4	21.4	21.8	22.3
8H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.4/-0.6					+0.4/-0.6				
S=2.0H	+0.8/-0.9					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 6182lm ($8\log(F/F_0) = 6.3$).

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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	0.72	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.30		0.55	0.65	0.71	0.76	0.84	0.89	0.92	0.97	1.01	
	0.20		0.50	0.59	0.66	0.71	0.79	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.93	0.97	1.00	
	0.30		0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.94	0.97	
	0.20		0.49	0.59	0.65	0.70	0.77	0.82	0.86	0.91	0.94	
0.30	0.50	0.20	0.59	0.68	0.73	0.78	0.83	0.87	0.90	0.93	0.96	
	0.30		0.53	0.62	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.49	0.58	0.64	0.69	0.76	0.80	0.84	0.88	0.91	
0.00	0.00	0.00	0.47	0.56	0.61	0.66	0.72	0.77	0.80	0.84	0.87	
Rating:53W 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	0.91	0.76	0.65	0.57	0.45	0.38	0.33	0.26	0.21	
	0.30		0.76	0.65	0.56	0.50	0.41	0.35	0.30	0.24	0.20	
	0.20		0.65	0.56	0.50	0.45	0.37	0.32	0.28	0.23	0.19	
0.50	0.50	0.20	0.88	0.72	0.62	0.54	0.43	0.40	0.31	0.24	0.20	
	0.30		0.75	0.63	0.55	0.48	0.40	0.33	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	0.85	0.70	0.59	0.52	0.41	0.34	0.30	0.23	0.19	
	0.30		0.73	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.64	0.55	0.48	0.43	0.35	0.30	0.26	0.21	0.18	
0.00	0.00	0.00	0.53	0.44	0.38	0.34	0.28	0.23	0.20	0.16	0.13	
Rating:53W 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	0.17	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:53W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												