

Report No.: 1

Test Time: 30.10.2019 18:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595 4x24LED 0,3A 32W 3000K opal

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 35

Voltage: 221.2 V

Current: 0.158 A

Power: 34.25 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 3288.3 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3288.3 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.7, 164.6, 164.6, 164.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.1, 110.9, 111.0, 110.9

Luminaire Efficacy Rating (LER): 96.06

Central Intensity: 1143.64 cd

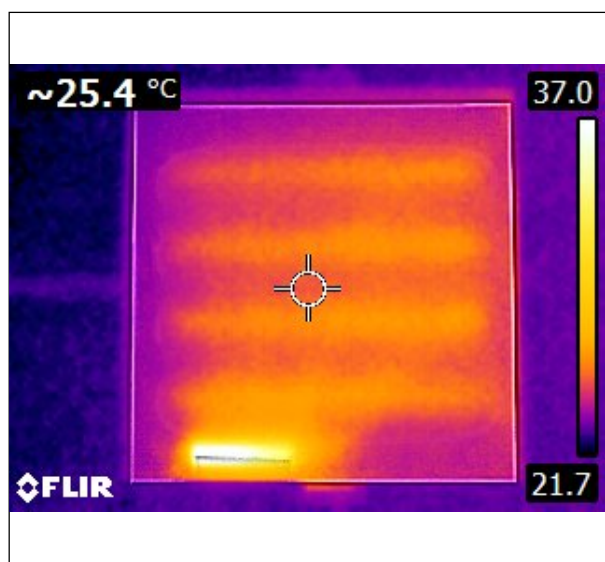
Max. Intensity: 1145.56 cd

Pos of Max. Intensity: H67.5 V2

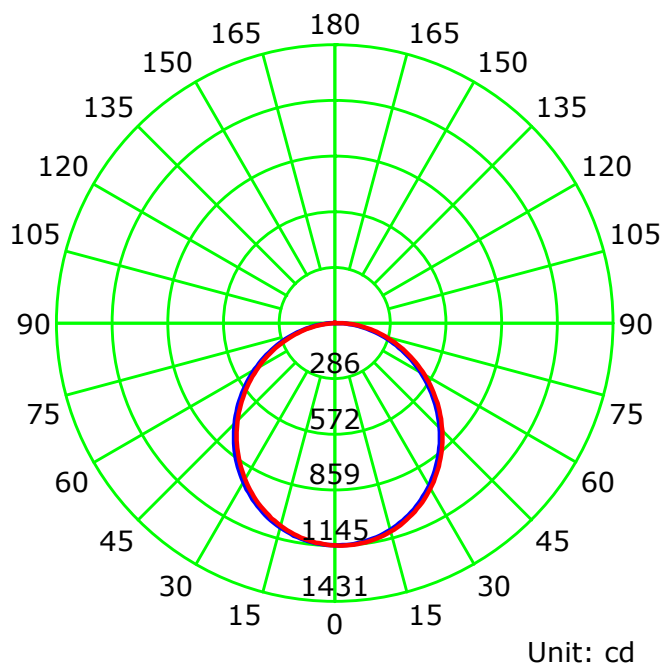
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.24

Termogramma



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

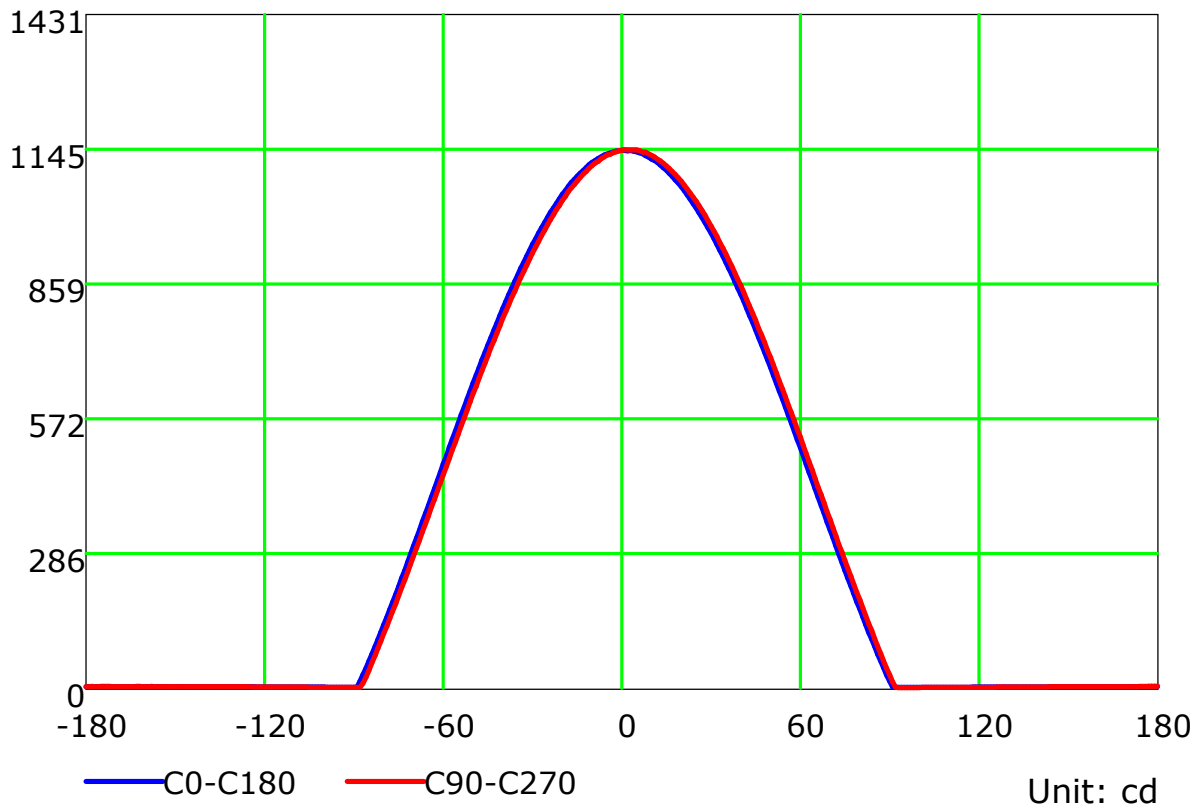
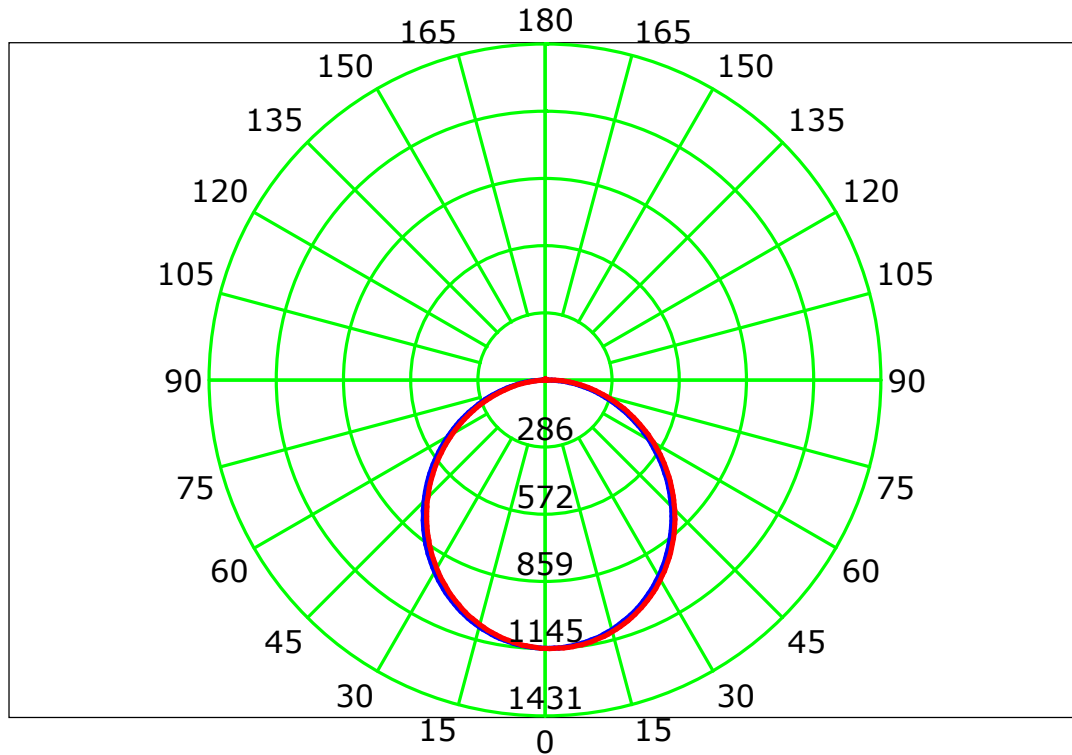
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

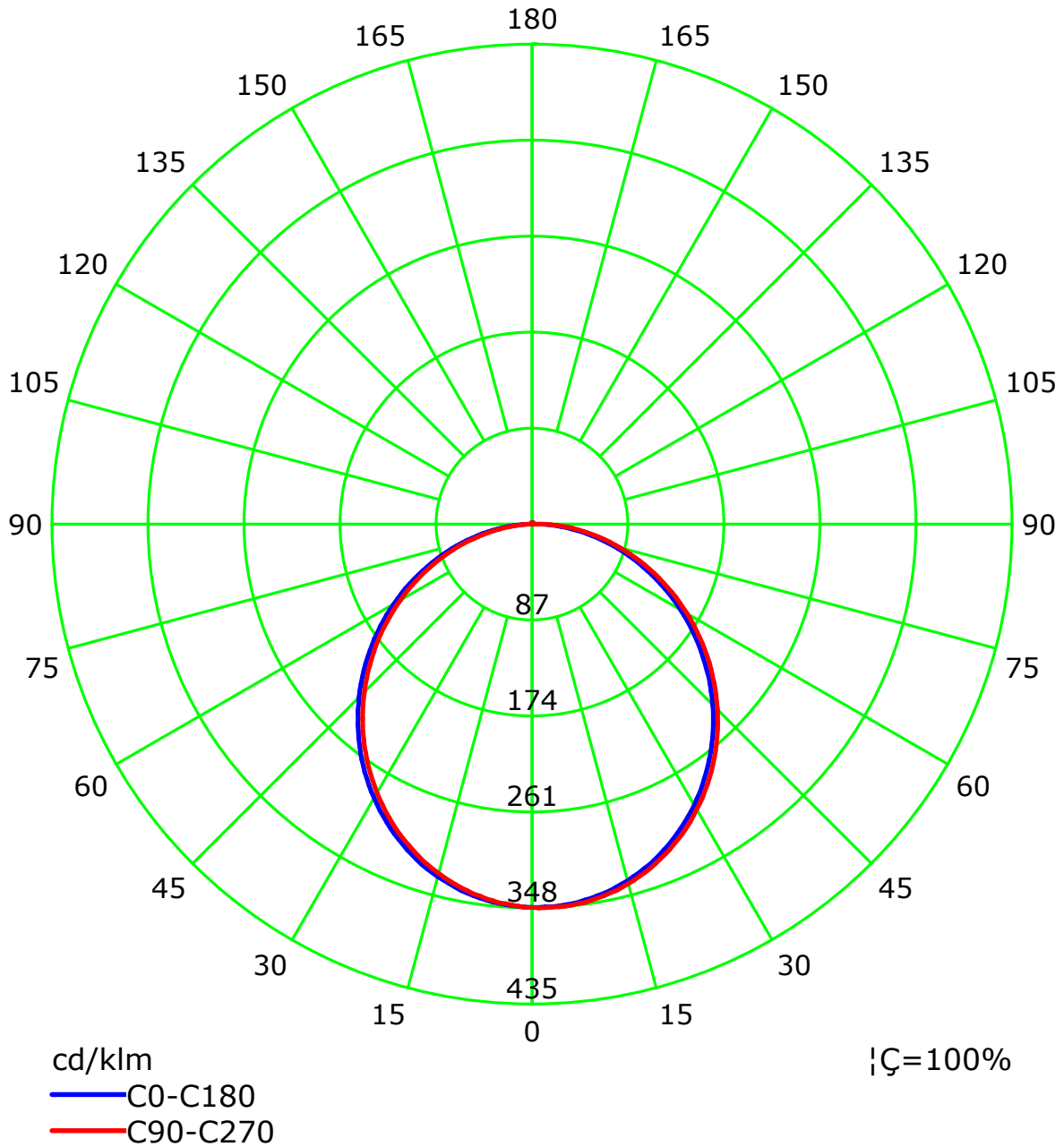
Luminous Intensity Distribution Curve



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

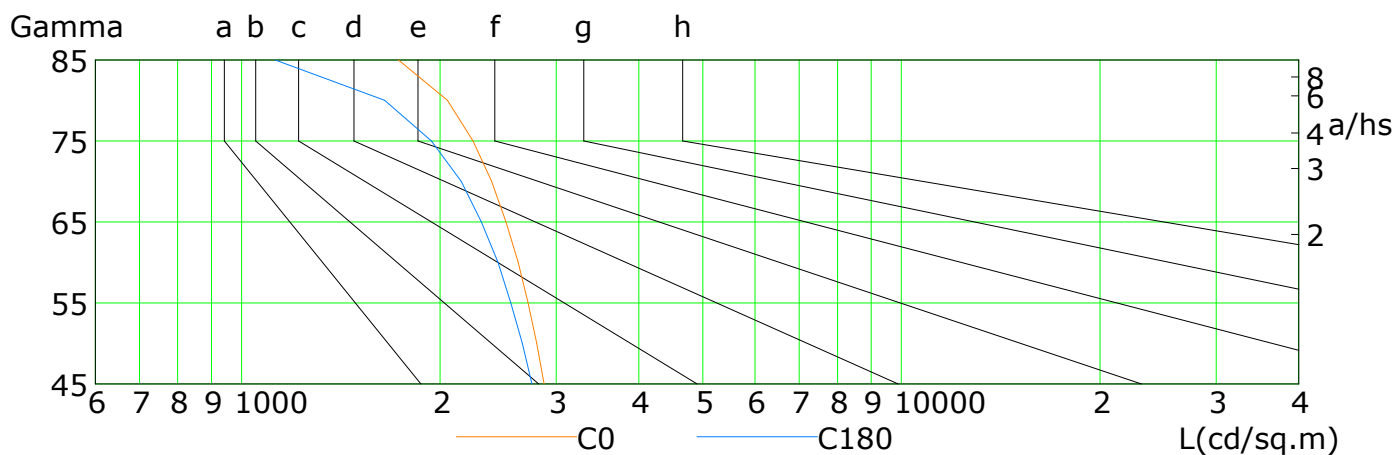
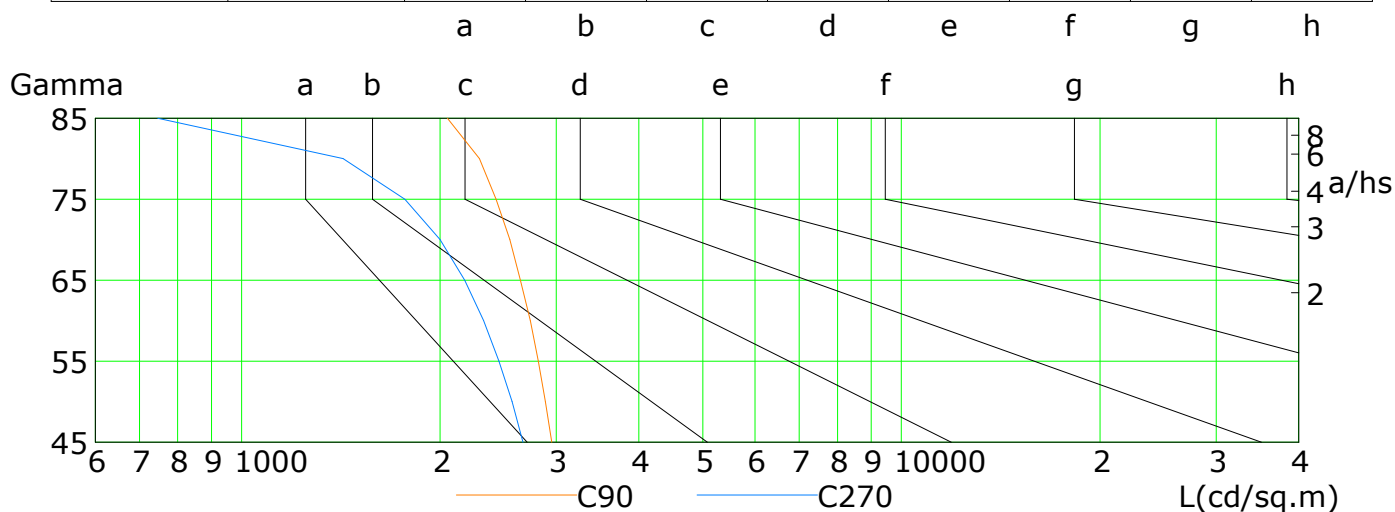
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

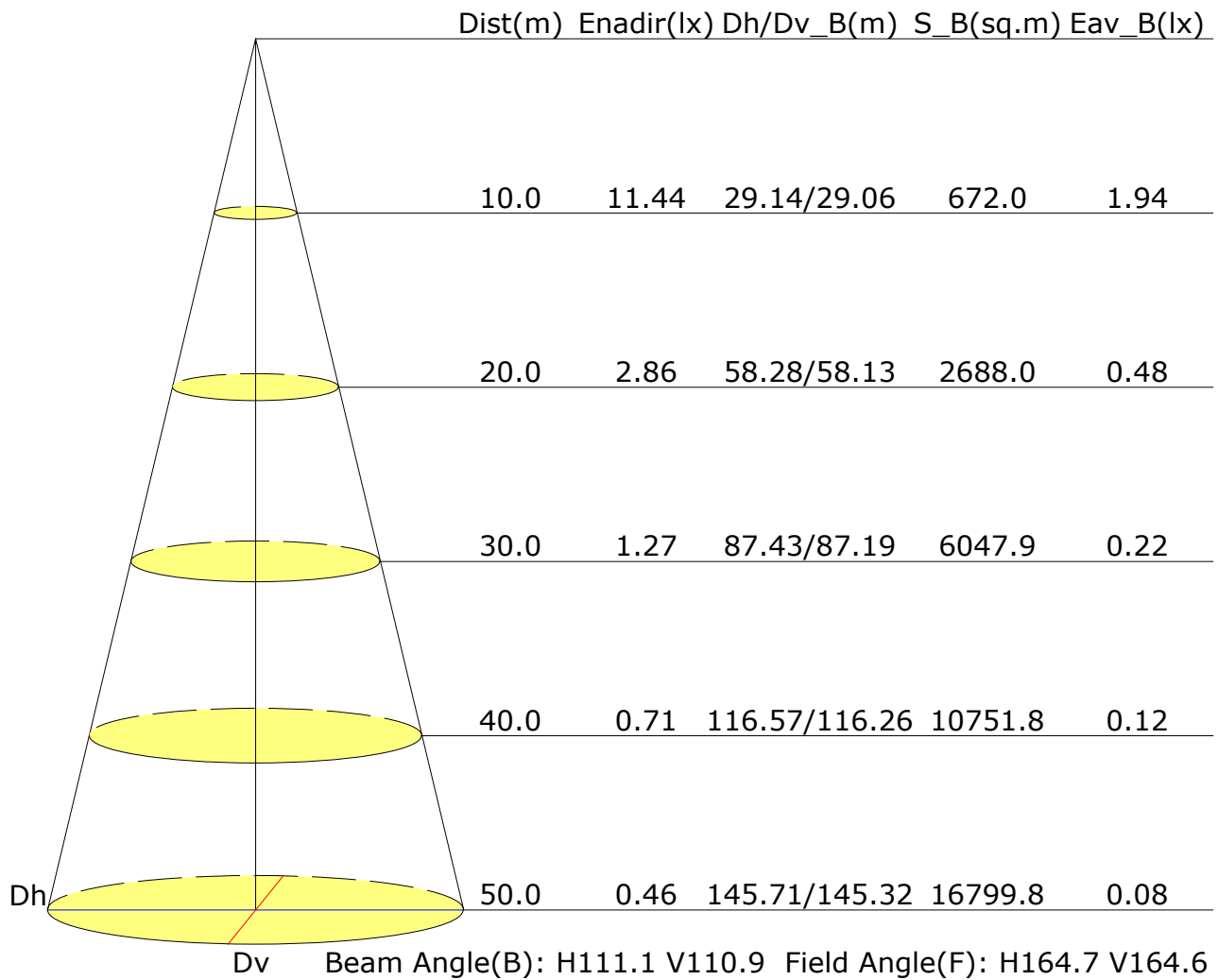


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2875	2800	2717	2624	2517	2393	2244	2052	1728
C90	2952	2887	2818	2739	2647	2551	2432	2293	2051
C180	2755	2665	2560	2446	2309	2151	1940	1647	1125
C270	2670	2570	2456	2327	2178	2000	1767	1425	746

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	16.0	17.4	16.3	17.7	17.9	15.9	17.3	16.2	17.5	17.8
3H	17.6	18.9	18.0	19.2	19.5	17.5	18.7	17.8	19.0	19.3
4H	18.3	19.5	18.7	19.8	20.1	18.1	19.3	18.5	19.6	19.9
6H	18.8	20.0	19.2	20.3	20.6	18.6	19.8	19.0	20.1	20.4
8H	19.0	20.1	19.4	20.5	20.8	18.8	19.9	19.2	20.2	20.6
12H	19.2	20.2	19.6	20.6	20.9	18.9	20.0	19.3	20.3	20.7
X=4H Y=2H	16.7	17.9	17.0	18.2	18.5	16.6	17.8	16.9	18.1	18.4
3H	18.5	19.5	18.8	19.8	20.2	18.3	19.4	18.7	19.7	20.1
4H	19.3	20.2	19.7	20.6	21.0	19.1	20.1	19.5	20.4	20.8
6H	19.9	20.8	20.4	21.2	21.6	19.8	20.6	20.2	21.0	21.4
8H	20.2	21.0	20.7	21.4	21.8	20.0	20.8	20.4	21.2	21.6
12H	20.4	21.1	20.9	21.5	22.0	20.2	20.9	20.6	21.3	21.8
X=8H Y=4H	19.6	20.3	20.0	20.7	21.2	19.4	20.2	19.9	20.6	21.0
6H	20.4	21.0	20.9	21.5	21.9	20.2	20.9	20.7	21.3	21.8
8H	20.8	21.3	21.2	21.8	22.3	20.6	21.1	21.1	21.6	22.1
12H	21.0	21.5	21.5	22.0	22.5	20.8	21.3	21.3	21.8	22.3
X=12H Y=4H	19.6	20.3	20.1	20.7	21.2	19.5	20.2	19.9	20.6	21.0
6H	20.5	21.0	21.0	21.5	22.0	20.3	20.9	20.8	21.3	21.8
8H	20.9	21.3	21.4	21.8	22.3	20.7	21.2	21.2	21.6	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.3/-0.2				
S=1.5H	+0.3/-0.4					+0.5/-0.6				
S=2.0H	+0.5/-0.8					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3288lm ($8\log(F/F_0) = 4.1$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
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Gamma Plane (°):0.0-180.0:1.0
 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	0.56	0.66	0.74	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.91	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.88	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.42	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:34W 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	1.01	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.82	0.70	0.60	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:34W 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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	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	0.18	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	0.16	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	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:34W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												