

Report No.:

Test Time: 26.03.2020 19:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 (900) 3x39LED 42W 5000K прозрачный с линзой 60 гр. DALI

Luminous Length (mm): 945

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 229.3 V

Current: 0.184 A

Power: 41.32 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5894.7 lm

Measurement Flux: 5894.7 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.9, 102.6, 114.9, 115.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 61.4, 73.7, 74.4

Luminaire Efficacy Rating (LER): 142.71

Central Intensity: 3276.23 cd

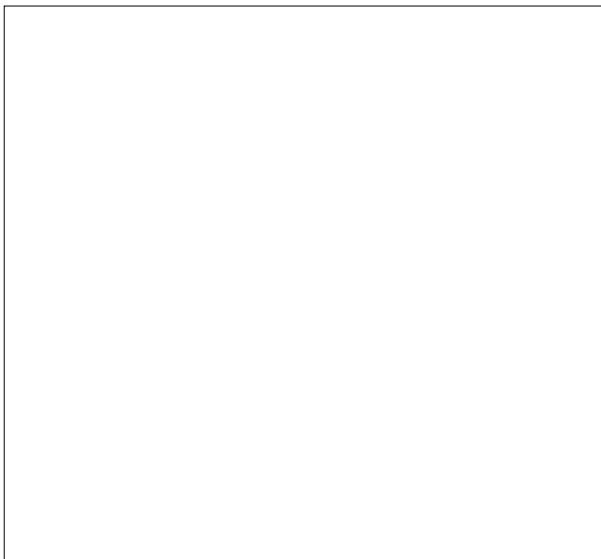
Max. Intensity: 3448.9 cd

Pos of Max. Intensity: H270 V10

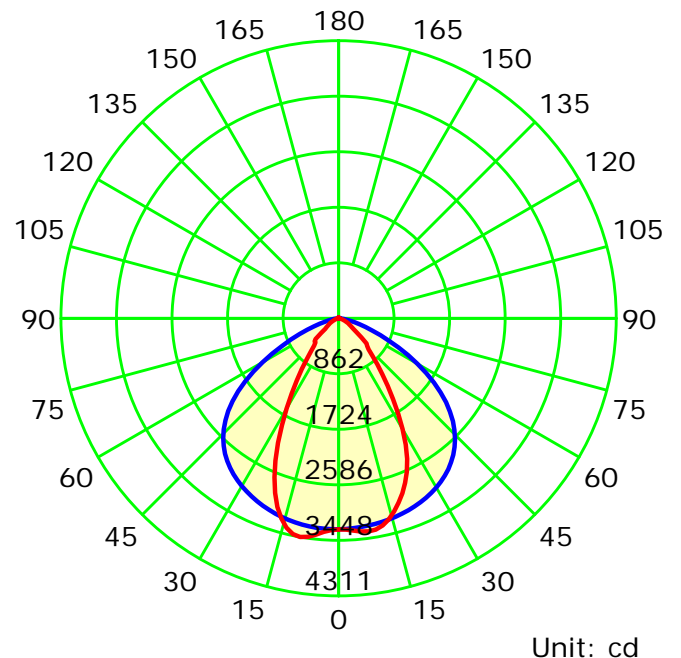
S/MH(C0/C180): 1.37

S/MH(C90/C270): 0.98

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

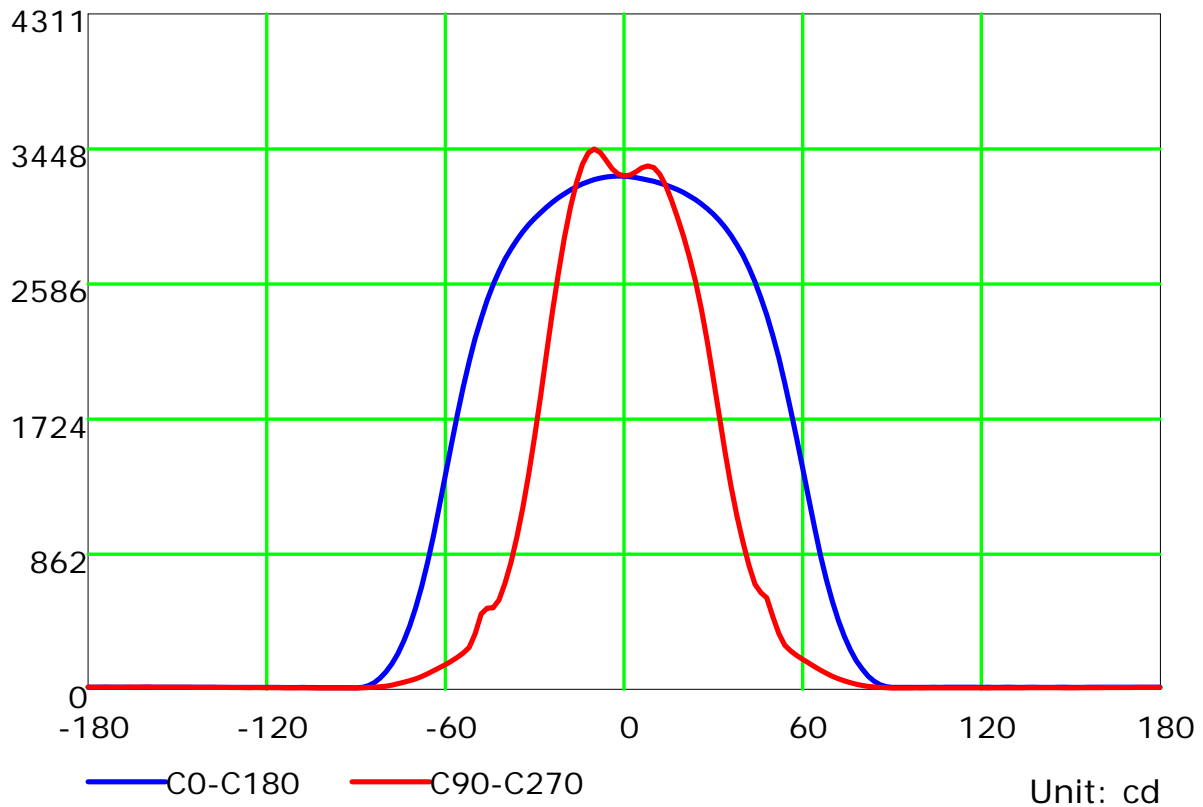
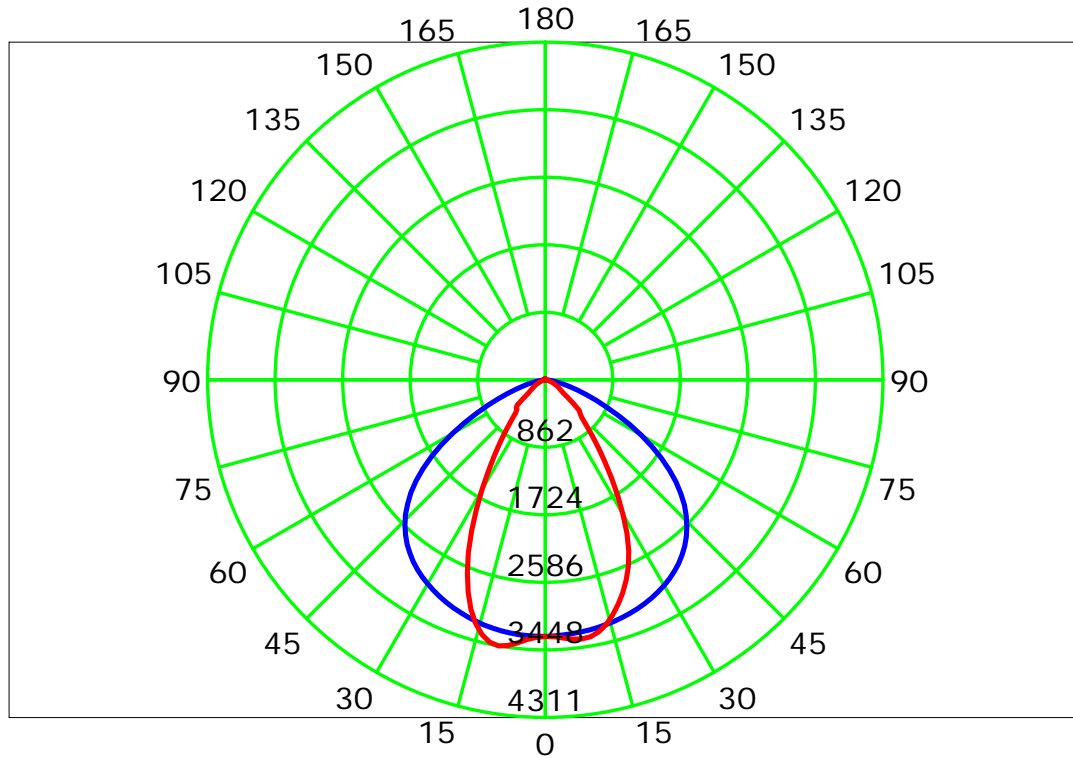
Temperature:

Humidity:

Operator:

Inspector:

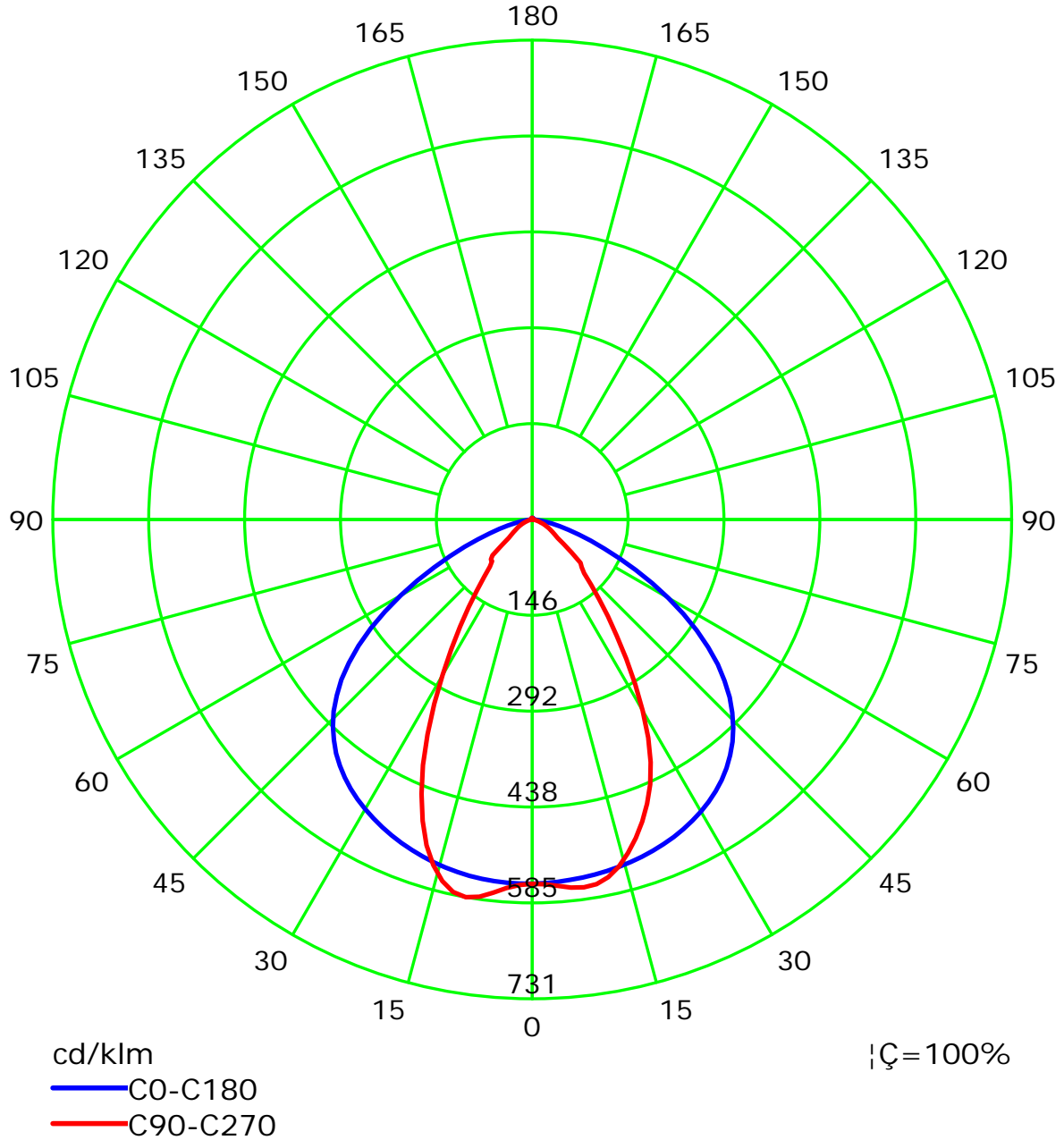
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
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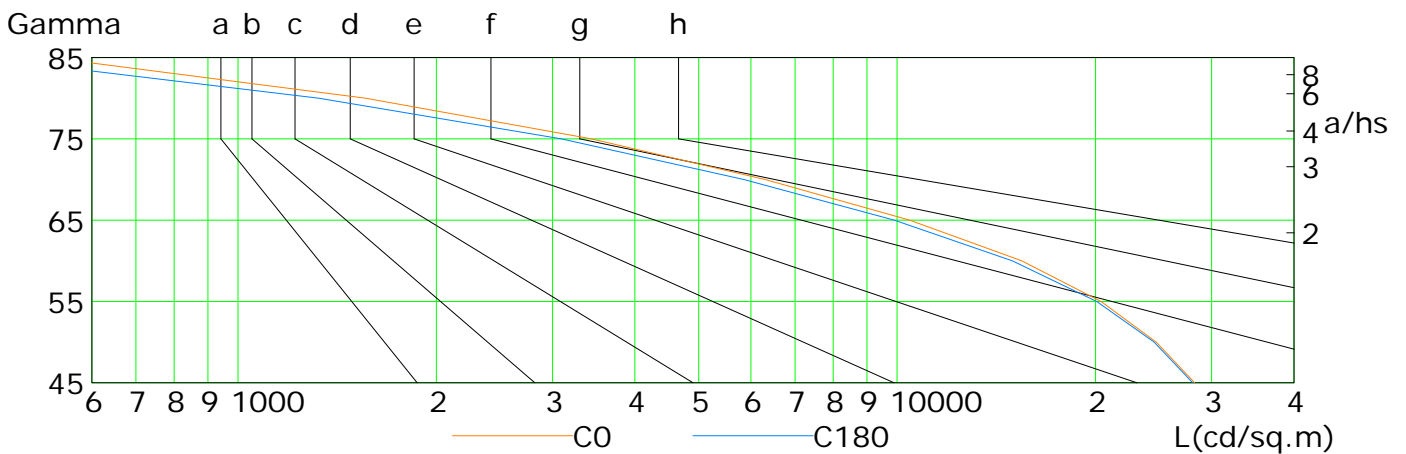
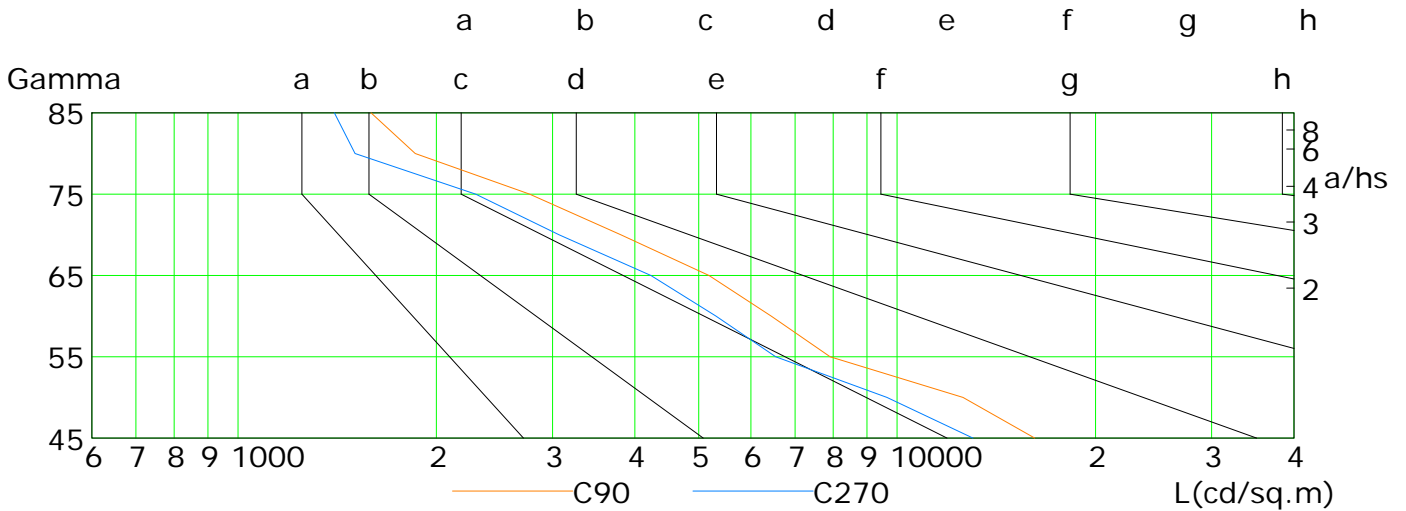
Gamma Plane (°):0.0-180.0:2.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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	28278	24718	20387	15458	10452	6307	3438	1562	519
C90	16175	12589	7913	6442	5182	3811	2771	1857	1591
C180	28079	24540	20081	14951	9904	5854	3095	1326	407
C270	13035	9654	6545	5310	4229	3071	2294	1505	1400

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

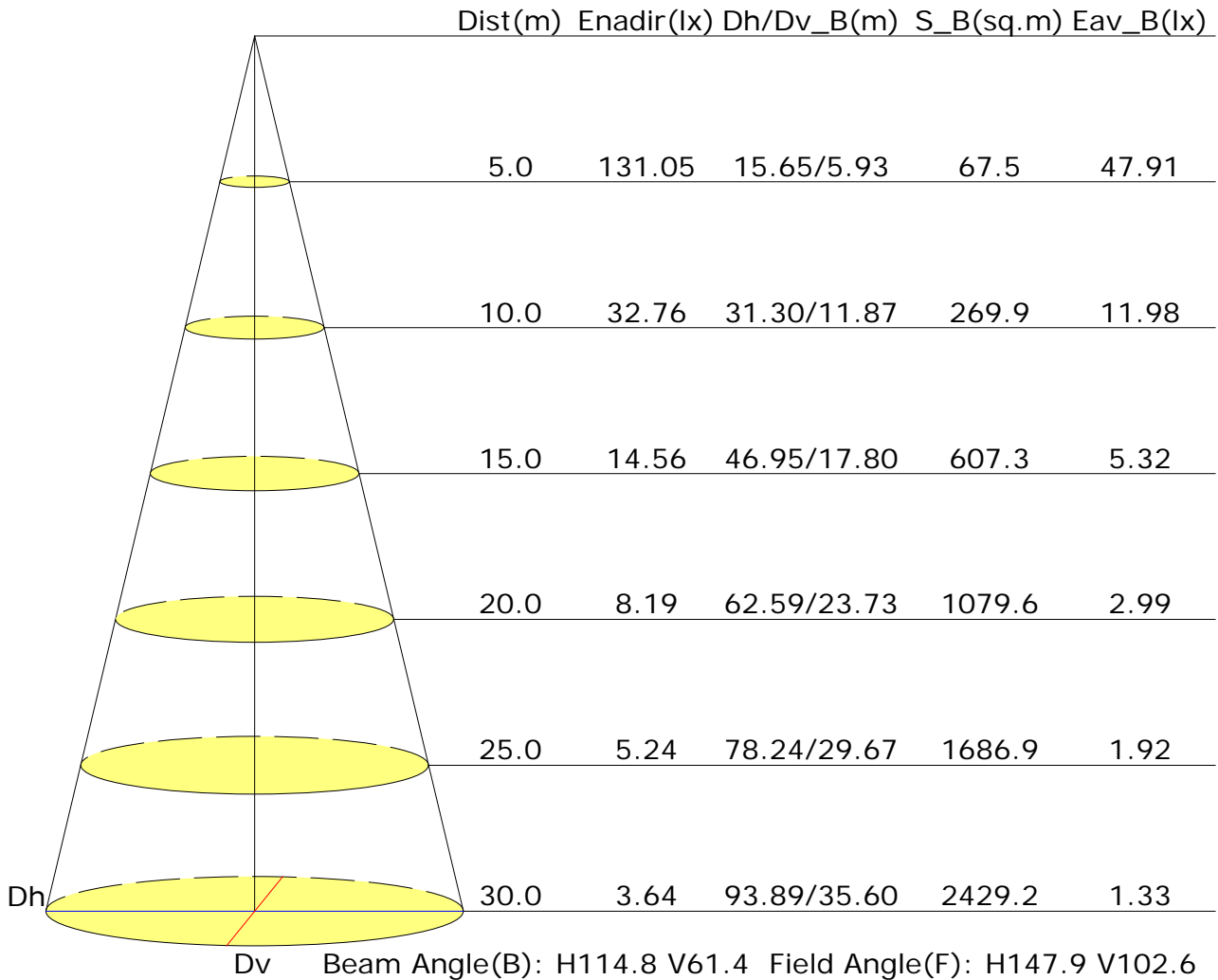
Test Device: LSG-1800B

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	22.4	23.5	22.7	23.8	24.0	16.6	17.7	16.9	18.0	18.2
3H	22.9	24.0	23.3	24.2	24.5	16.8	17.8	17.1	18.1	18.4
4H	23.0	24.0	23.4	24.3	24.6	16.8	17.8	17.1	18.1	18.4
6H	23.0	23.9	23.4	24.2	24.5	16.8	17.7	17.1	18.0	18.3
8H	23.0	23.8	23.4	24.2	24.5	16.8	17.6	17.1	17.9	18.3
12H	22.9	23.8	23.3	24.1	24.5	16.7	17.6	17.1	17.9	18.3
X=4H Y=2H	22.2	23.2	22.6	23.5	23.8	16.9	17.8	17.2	18.1	18.4
3H	22.8	23.6	23.2	24.0	24.3	17.1	17.9	17.5	18.3	18.6
4H	22.9	23.7	23.3	24.0	24.4	17.1	17.9	17.6	18.2	18.6
6H	23.0	23.6	23.4	24.0	24.4	17.1	17.8	17.6	18.2	18.6
8H	22.9	23.5	23.4	23.9	24.4	17.1	17.7	17.6	18.1	18.6
12H	22.9	23.4	23.4	23.9	24.3	17.1	17.6	17.6	18.1	18.5
X=8H Y=4H	22.8	23.4	23.3	23.8	24.3	17.2	17.8	17.6	18.2	18.6
6H	22.9	23.3	23.4	23.8	24.3	17.2	17.7	17.7	18.1	18.6
8H	22.9	23.3	23.4	23.8	24.3	17.2	17.6	17.7	18.1	18.6
12H	22.8	23.2	23.4	23.7	24.2	17.2	17.5	17.7	18.0	18.5
X=12H Y=4H	22.8	23.3	23.3	23.8	24.2	17.1	17.7	17.6	18.1	18.6
6H	22.8	23.3	23.3	23.7	24.2	17.2	17.6	17.7	18.1	18.6
8H	22.8	23.2	23.3	23.7	24.2	17.2	17.5	17.7	18.0	18.5
Variations with the observer position at spacings:										
S=1.0H	+0.6/-1.0					+1.5/-2.2				
S=1.5H	+2.0/-2.9					+2.9/-3.2				
S=2.0H	+3.6/-4.9					+4.4/-4.4				

Calculate in accordance with CIE Pub.117. The table is revised with 5895lm ($8\log(F/F_0) = 6.2$).

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 = 1.00									
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	0.67	0.77	0.83	0.88	0.94	0.98	1.01	1.04	1.07	
	0.30		0.61	0.71	0.77	0.82	0.89	0.94	0.97	1.01	1.04	
	0.20		0.56	0.66	0.73	0.78	0.85	0.90	0.94	0.98	1.01	
0.50	0.50	0.20	0.66	0.75	0.81	0.85	0.91	0.95	0.97	1.00	1.02	
	0.30		0.60	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.56	0.65	0.72	0.77	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.64	0.73	0.79	0.83	0.88	0.91	0.94	0.96	0.98	
	0.30		0.59	0.68	0.74	0.79	0.85	0.88	0.91	0.94	0.97	
	0.20		0.55	0.65	0.71	0.75	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.53	0.62	0.68	0.72	0.78	0.82	0.85	0.88	0.90	
<p>Rating: 41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.83	0.67	0.56	0.48	0.38	0.31	0.26	0.20	0.16	
	0.30		0.69	0.57	0.49	0.43	0.34	0.29	0.24	0.19	0.16	
	0.20		0.59	0.50	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
0.50	0.50	0.20	0.79	0.64	0.53	0.46	0.36	0.33	0.25	0.19	0.15	
	0.30		0.67	0.55	0.47	0.41	0.33	0.27	0.23	0.18	0.15	
	0.20		0.58	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
0.30	0.50	0.20	0.77	0.61	0.51	0.43	0.34	0.27	0.23	0.18	0.14	
	0.30		0.65	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14	
	0.20		0.57	0.48	0.41	0.36	0.29	0.24	0.21	0.16	0.13	
0.00	0.00	0.00	0.46	0.37	0.31	0.26	0.21	0.17	0.14	0.11	0.09	
<p>Rating: 41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.12	0.13	0.15	0.16	0.17	0.18	0.20	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19	
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
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		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
<p>Rating: 41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												