

Report No.:

Test Time: 30.10.2020 16:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 30LED 0.78A 100Wx2 5000K prozrachniy

Number of Lamps: 1

Lumens per Lamp: 21247.6 lm

Luminous Length (mm): 120 mm

Luminous Width (mm): 1576 mm

Luminous Height (mm): 190 mm

Voltage: 221.5 V

Current: 0.911 A

Power: 197.89 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 21247.6 lm

Measurement Flux: 21247.6 lm

Efficiency: 100.00%

Downward Ratio: 99.24%

Upward Ratio: 0.76%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.8, 117.2, 133.3, 133.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.4, 109.1, 113.6, 114.2

Luminaire Efficacy Rating (LER): 107.42

Central Intensity: 8212.09 cd

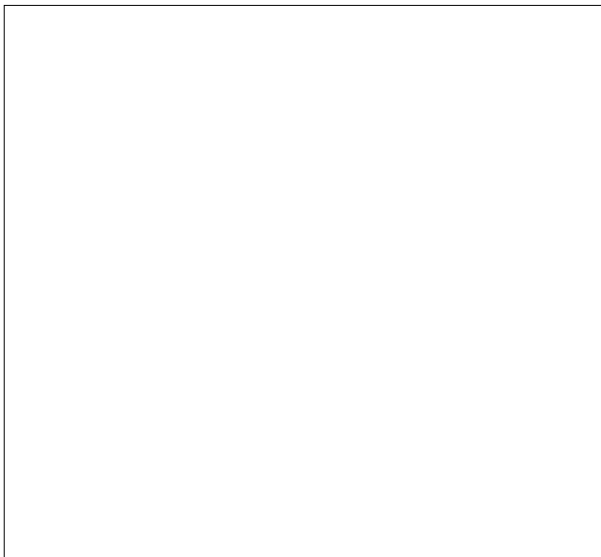
Max. Intensity: 8224.21 cd

Pos of Max. Intensity: H112.5 V2

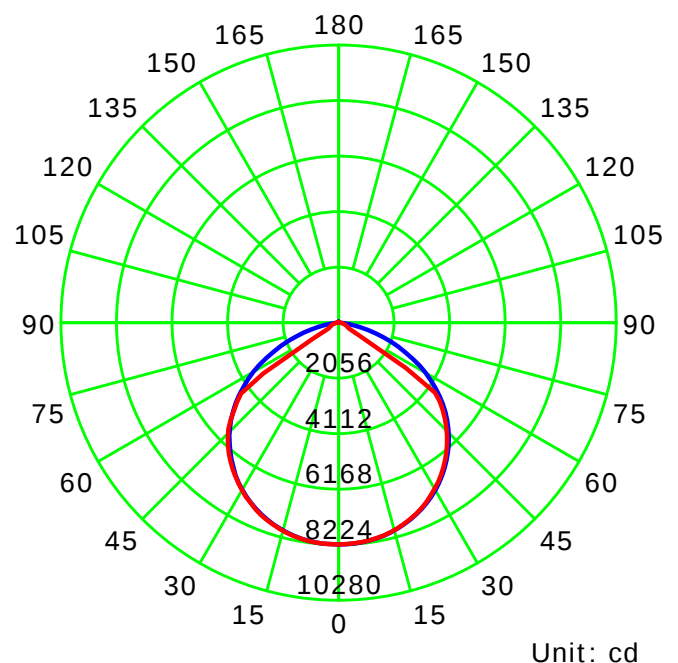
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.29

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 (°):0.0-180.0:2.0

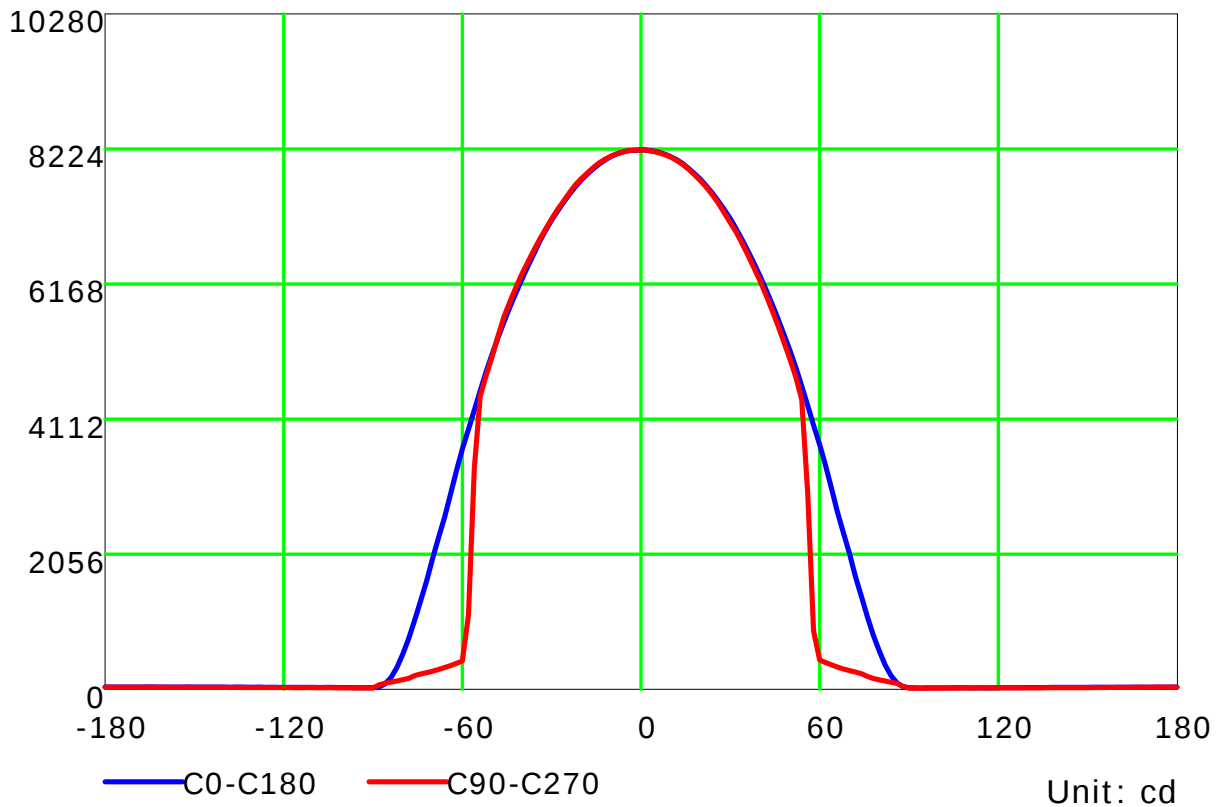
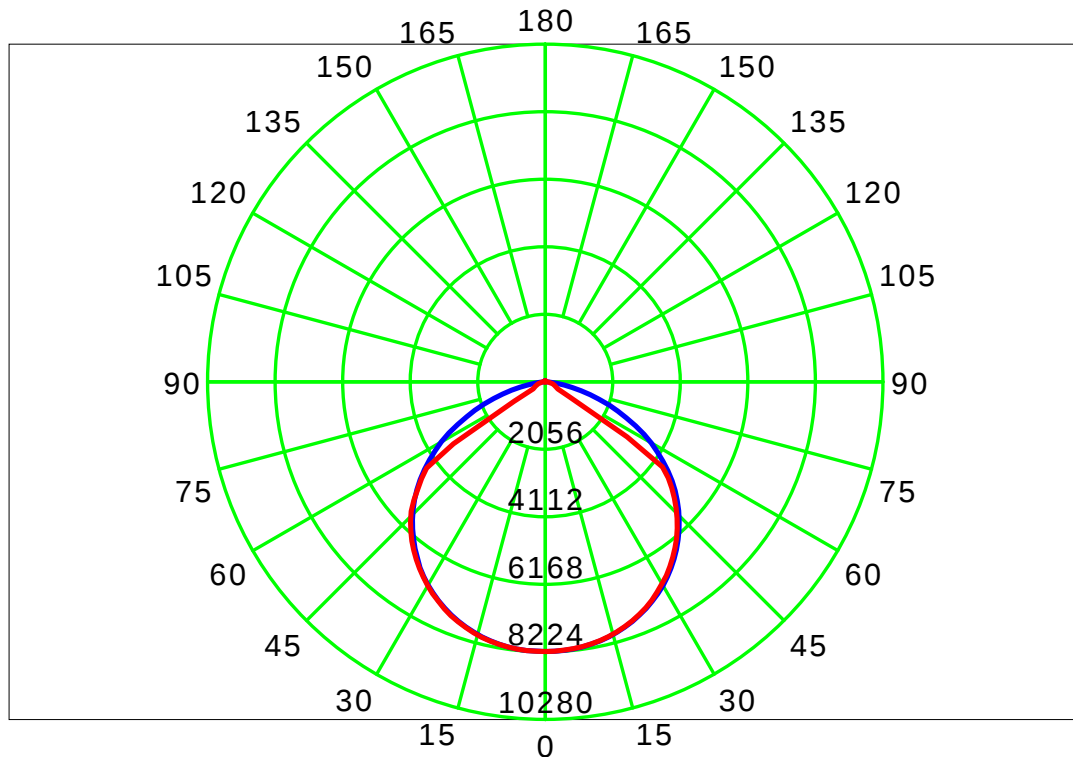
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

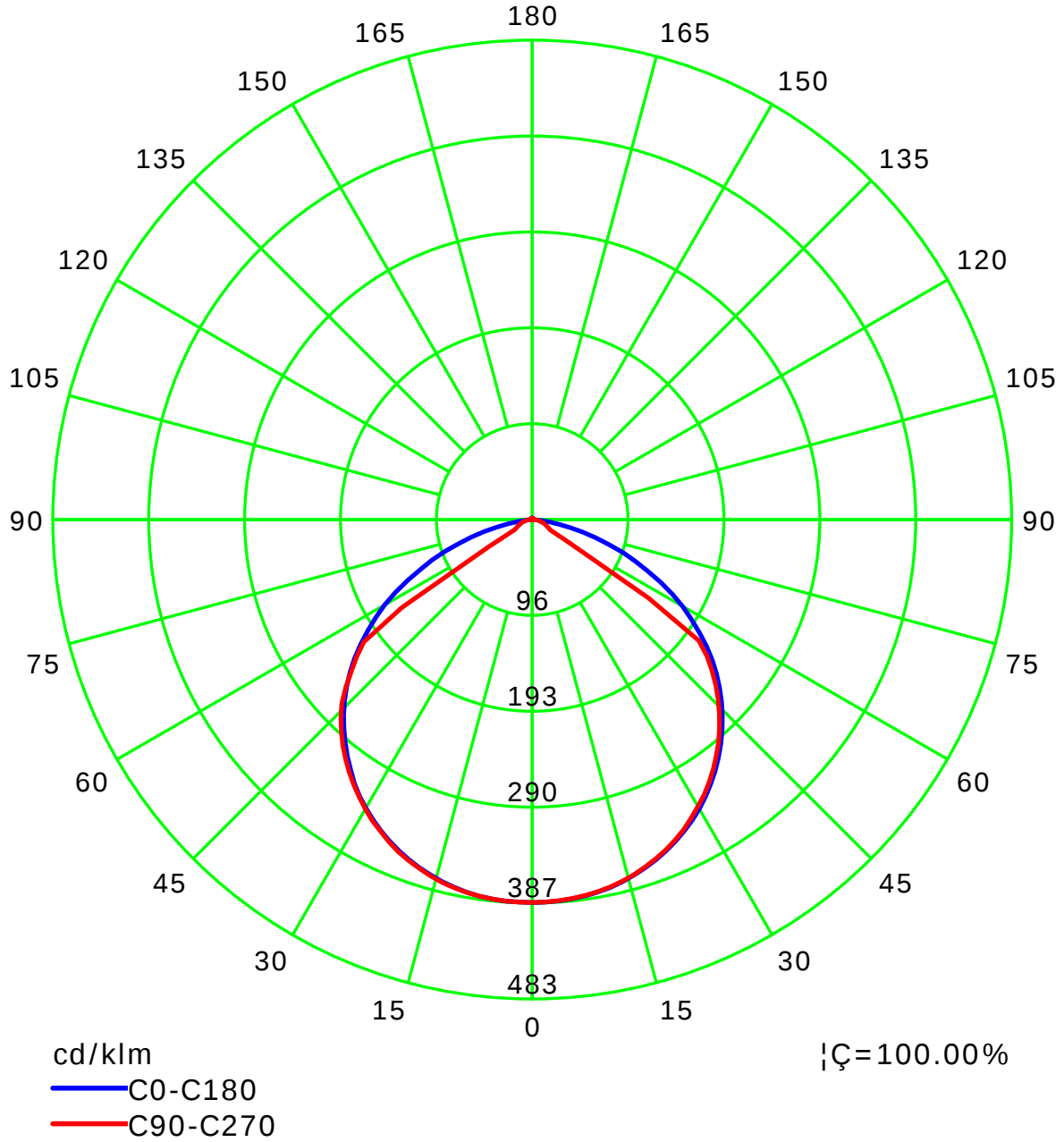
Luminous Intensity Distribution Curve



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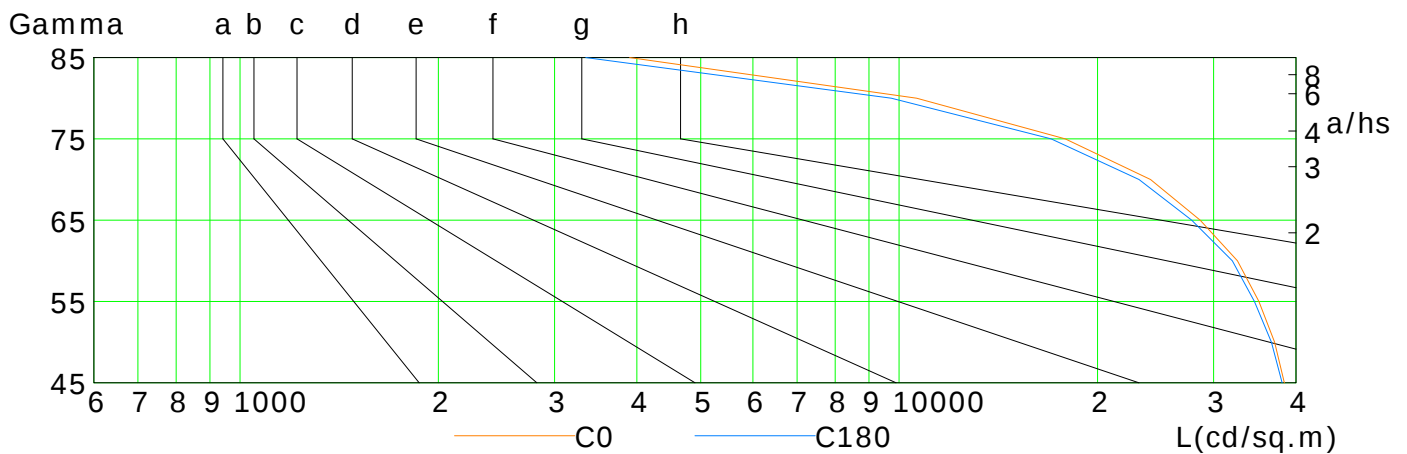
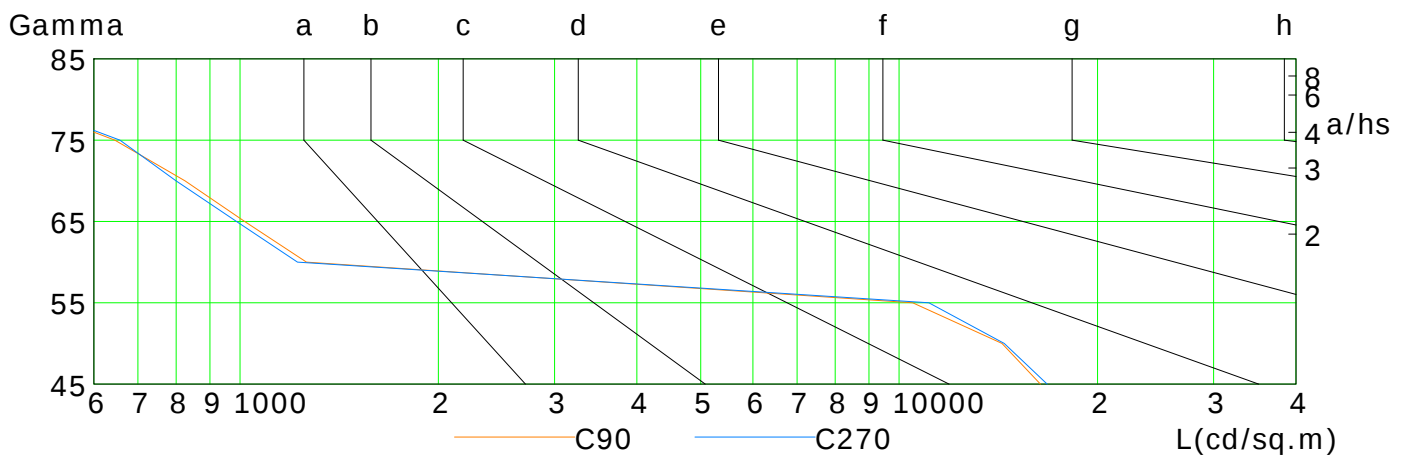
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	38418	37124	35143	32597	28622	24067	17863	10632	3900
C90	16378	14327	10484	1261	1016	825	646	446	317
C180	38121	36717	34604	32023	27792	23117	17007	9730	3347
C270	16770	14433	11090	1223	988	800	658	451	322

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

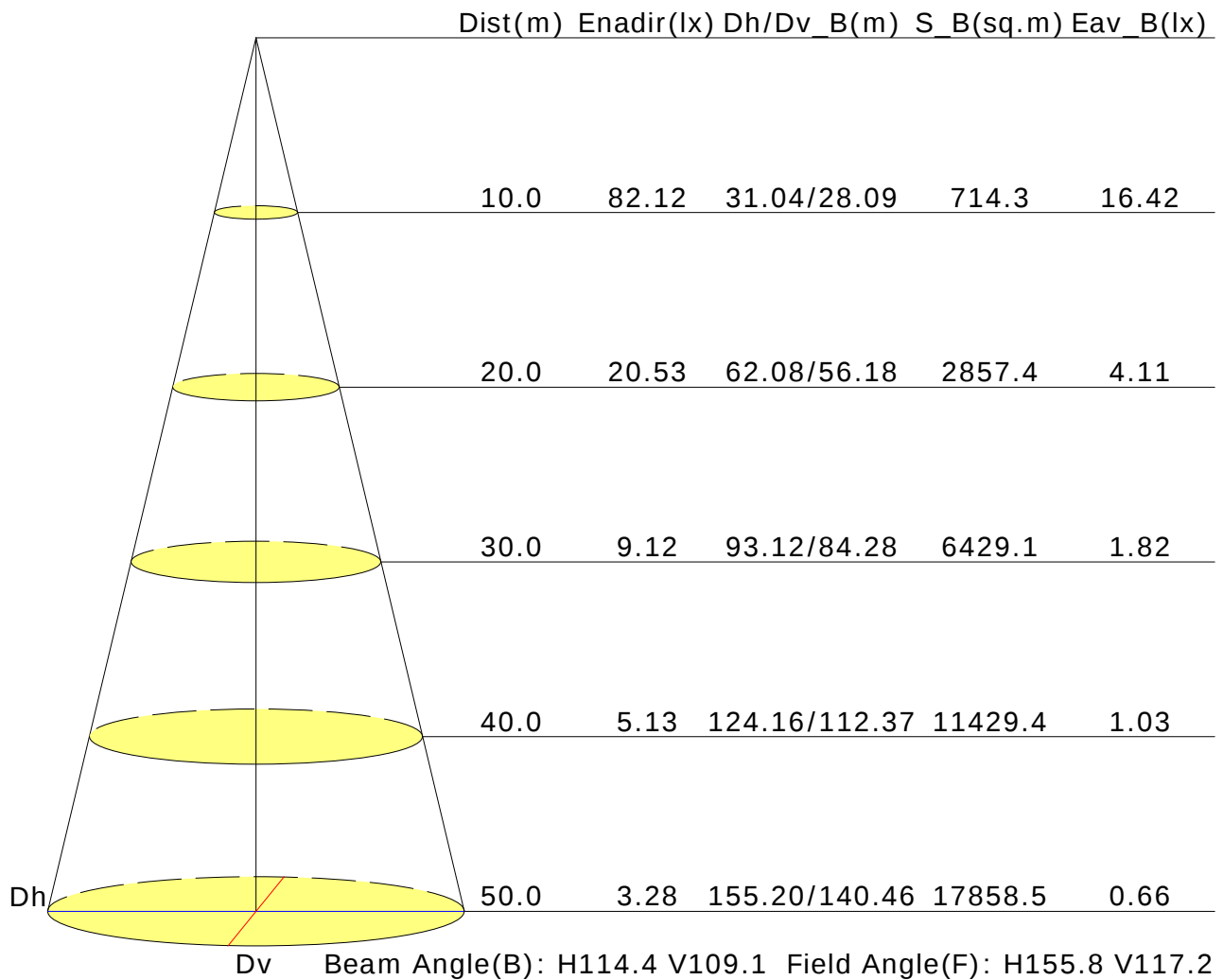
Test Device: LSG-1800B

Distance: 12.682 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	23.9	25.2	24.2	25.4	25.7	20.5	21.8	20.8	22.1	22.3
3H	25.1	26.2	25.4	26.5	26.8	20.4	21.5	20.7	21.8	22.1
4H	25.4	26.5	25.8	26.8	27.1	20.3	21.4	20.7	21.7	22.0
6H	25.5	26.5	25.9	26.9	27.2	20.3	21.3	20.6	21.6	21.9
8H	25.5	26.5	25.9	26.8	27.2	20.2	21.2	20.6	21.5	21.9
12H	25.5	26.4	25.9	26.8	27.1	20.2	21.1	20.6	21.4	21.8
X=4H Y=2H	23.9	25.0	24.3	25.3	25.6	21.0	22.1	21.4	22.4	22.7
3H	25.2	26.1	25.6	26.5	26.8	20.9	21.8	21.3	22.2	22.5
4H	25.6	26.4	26.0	26.8	27.2	20.9	21.7	21.3	22.0	22.4
6H	25.7	26.4	26.2	26.8	27.3	20.8	21.5	21.2	21.9	22.3
8H	25.7	26.4	26.2	26.8	27.2	20.8	21.4	21.2	21.8	22.3
12H	25.7	26.3	26.2	26.7	27.2	20.7	21.3	21.2	21.8	22.2
X=8H Y=4H	25.5	26.2	26.0	26.6	27.0	20.9	21.5	21.3	21.9	22.4
6H	25.6	26.2	26.1	26.6	27.1	20.8	21.3	21.3	21.8	22.3
8H	25.6	26.1	26.1	26.6	27.1	20.8	21.3	21.3	21.7	22.2
12H	25.6	26.0	26.1	26.5	27.0	20.8	21.2	21.3	21.7	22.2
X=12H Y=4H	25.5	26.1	25.9	26.5	27.0	20.8	21.4	21.3	21.9	22.3
6H	25.6	26.1	26.1	26.5	27.0	20.8	21.3	21.3	21.7	22.2
8H	25.6	26.0	26.1	26.5	27.0	20.8	21.2	21.3	21.7	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.8/-1.0				
S=1.5H	+0.7/-0.8					+2.1/-9.4				
S=2.0H	+1.8/-2.2					+3.2/-11.9				

Calculate in accordance with CIE Pub.117. The table is revised with 21248lm ($8\log(F/F_0) = 10.6$).

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Operator:

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Test Device: LSG-1800B

Distance: 12.682 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	0.61	0.72	0.80	0.85	0.92	0.97	1.00	1.04	1.06	
	0.30		0.53	0.65	0.73	0.79	0.87	0.92	0.95	1.00	1.03	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.89	0.93	0.96	1.00	1.02	
	0.30		0.52	0.64	0.71	0.77	0.84	0.89	0.92	0.97	1.00	
	0.20		0.48	0.59	0.67	0.72	0.80	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.86	0.90	0.94	0.96	
	0.20		0.47	0.58	0.66	0.71	0.79	0.84	0.87	0.92	0.94	
0.00	0.00	0.00	0.45	0.56	0.63	0.68	0.75	0.80	0.83	0.87	0.89	
Rating:198W 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	0.95	0.76	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.65	0.56	0.49	0.39	0.32	0.28	0.22	0.18	
	0.20		0.68	0.57	0.49	0.44	0.36	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.92	0.73	0.61	0.52	0.41	0.37	0.28	0.22	0.18	
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.27	0.21	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.89	0.70	0.58	0.50	0.39	0.32	0.27	0.20	0.17	
	0.30		0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.20	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.56	0.45	0.37	0.32	0.25	0.21	0.18	0.14	0.11	
Rating:198W 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	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.30	0.50	0.20	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	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	0.09	0.10	0.12	0.13	0.14	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	
Rating:198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												