

Report No.:

Test Time: 30.01.2020 11:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FP 150 138W 5000K 150x55gr. NN

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 221.2 V

Power: 138.19 W

Luminous Length (mm): 404

Luminous Height (mm): 80

Current: 0.629 A

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Measurement Flux: 19310.1 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.8, 150.8, 131.8, 135.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.4, 143.8, 70.7, 70.3

Luminaire Efficacy Rating (LER): 139.79

Max. Intensity: 15839.45 cd

S/MH(C0/C180): 1.81

Total Rated Lamp Lumens: 19310.1 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 3165.77 cd

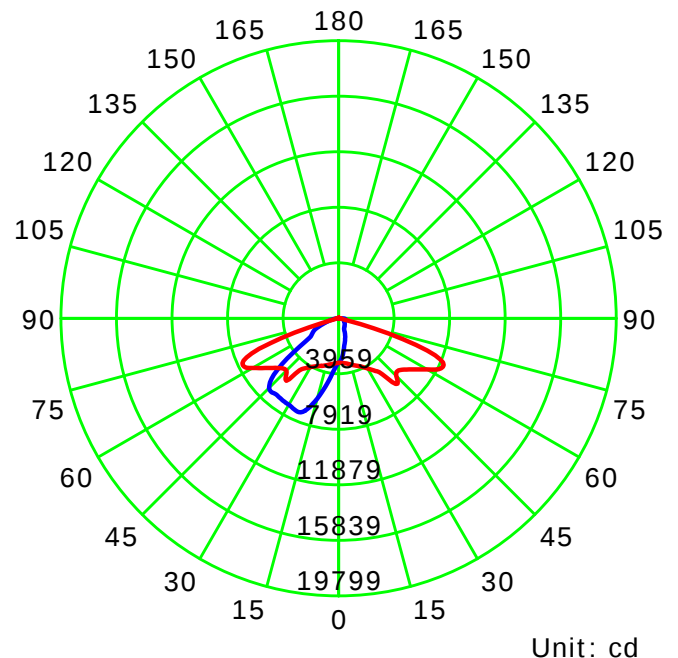
Pos of Max. Intensity: H247.5 V64

S/MH(C90/C270): 2.28

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

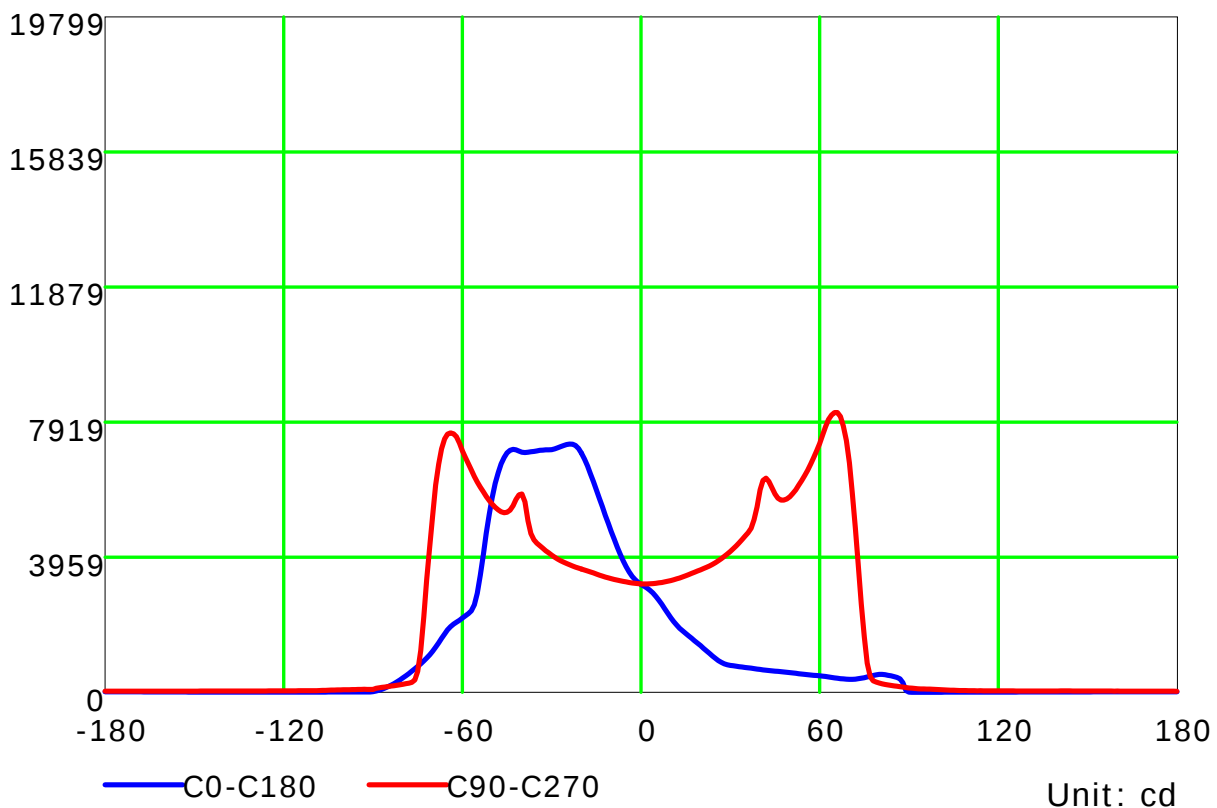
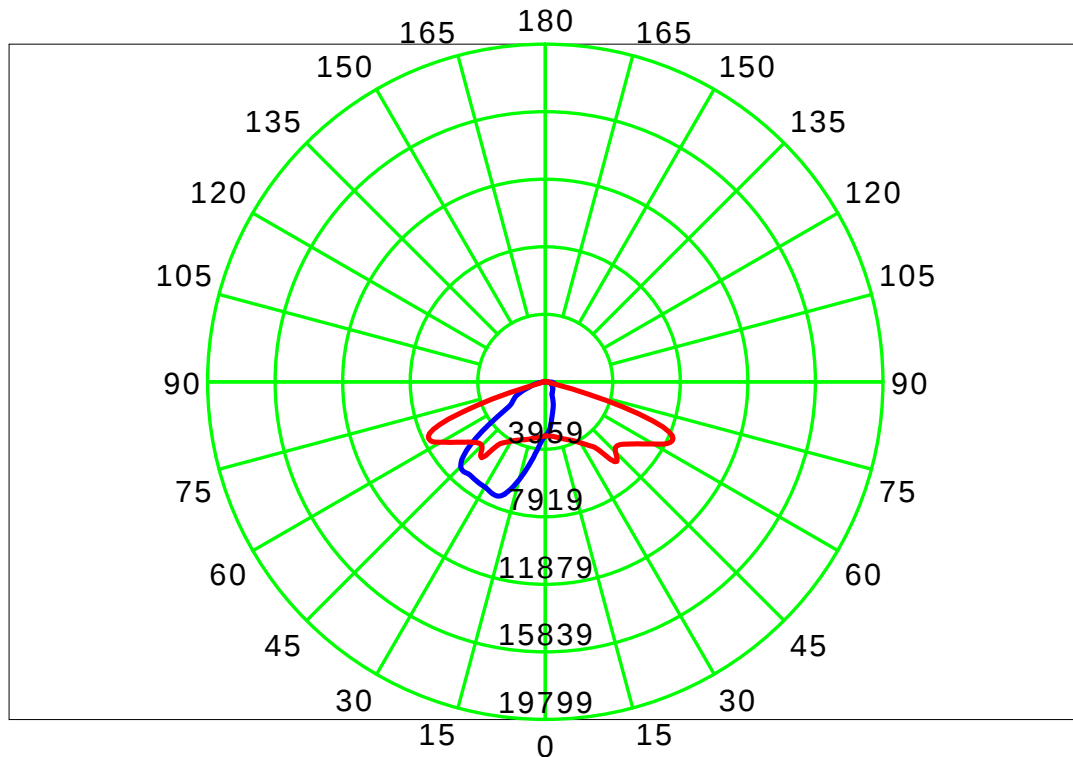
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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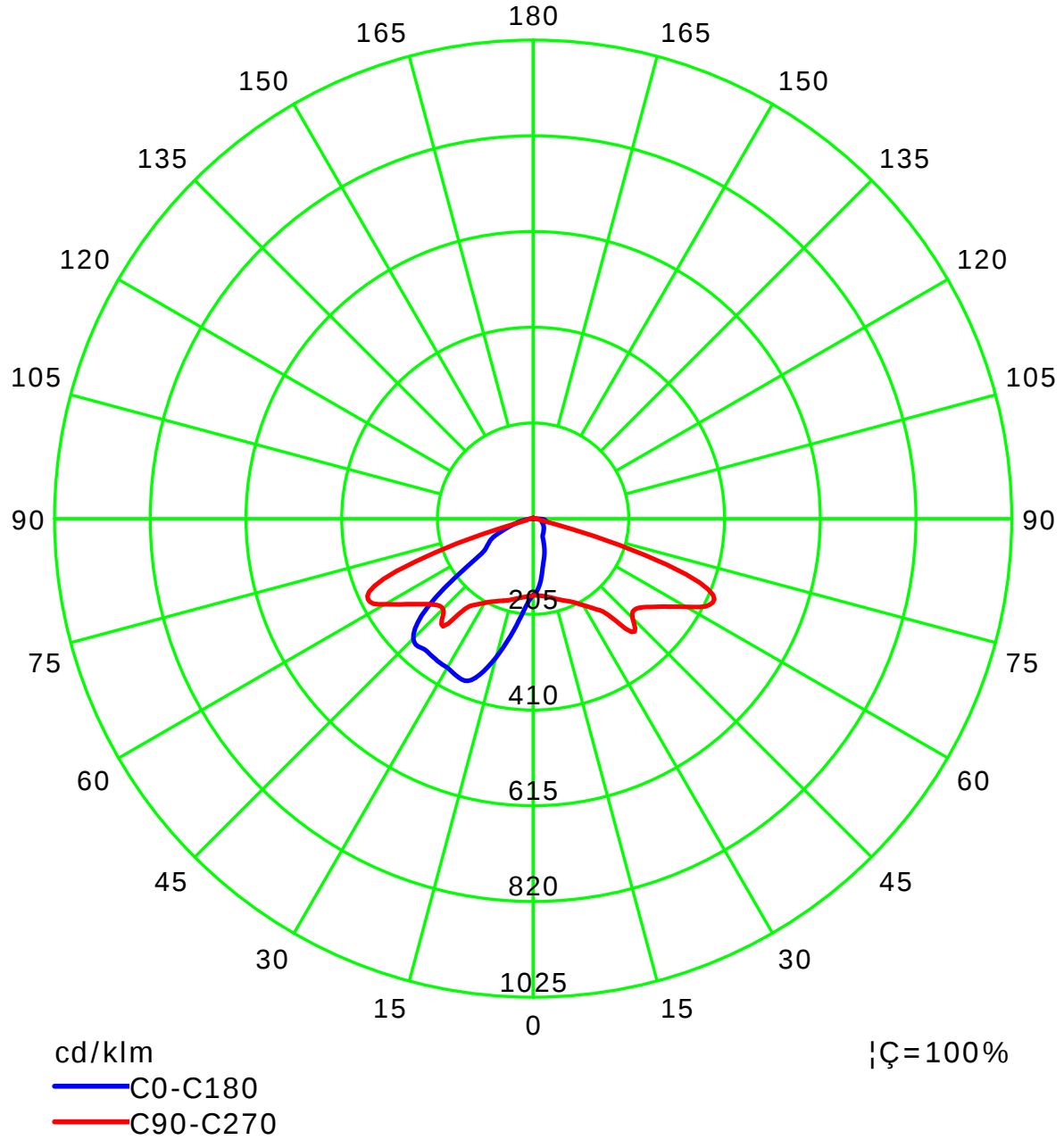
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

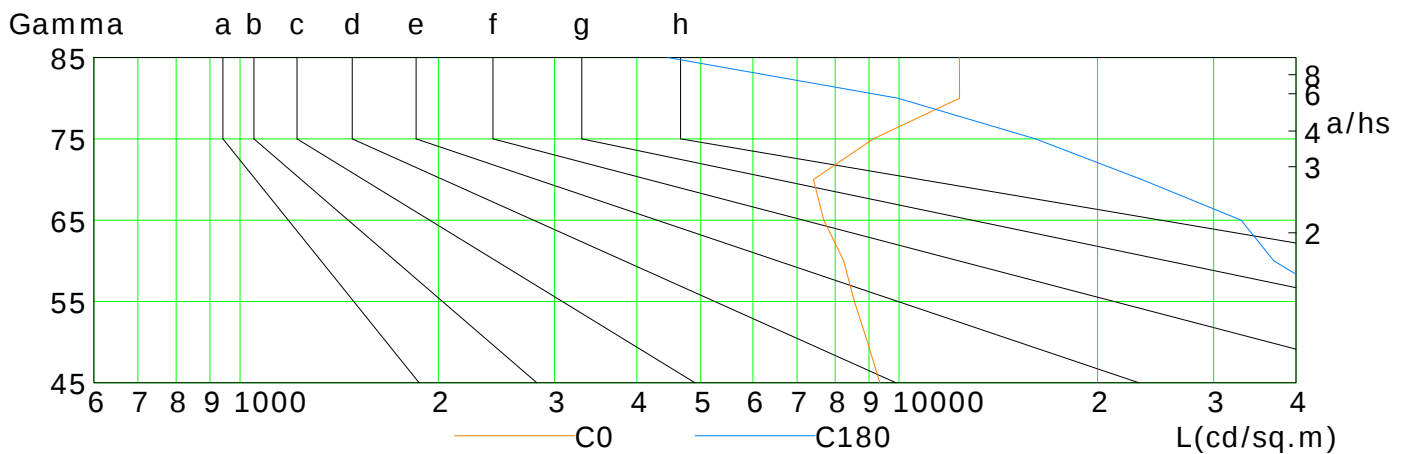
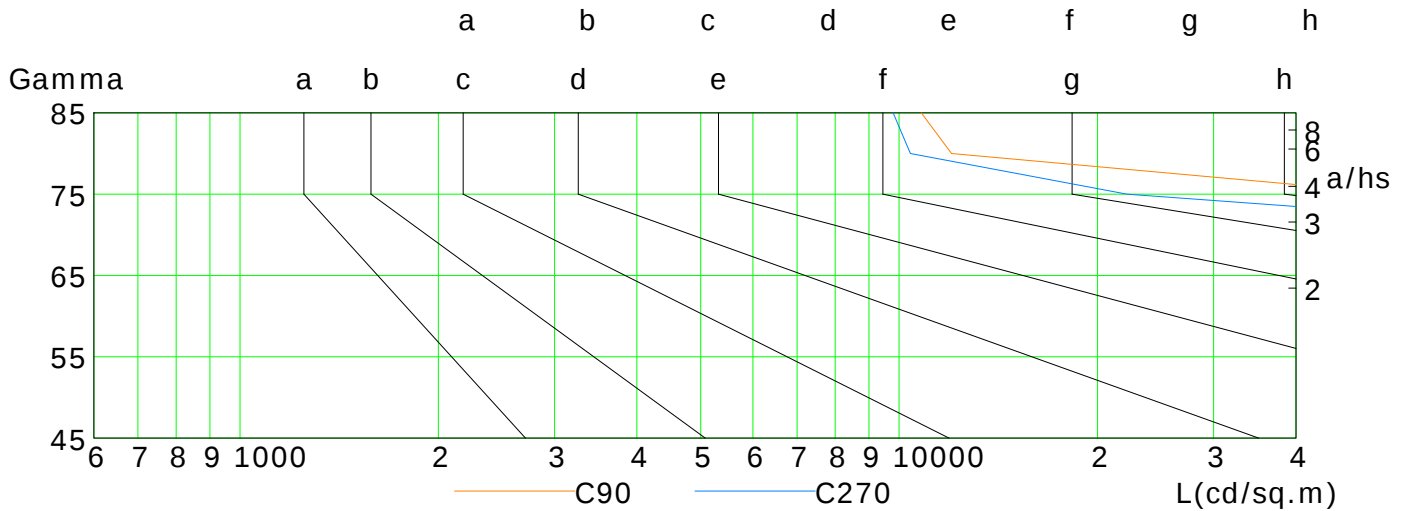
Inspector:

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	9347	8954	8555	8239	7685	7411	9137	12351	12342
C90	111075	116779	139787	175750	220394	206034	58366	12013	10803
C180	105477	88427	46851	37029	33025	23343	16103	9957	4460
C270	100847	112444	135631	170651	203389	158107	22163	10402	9795

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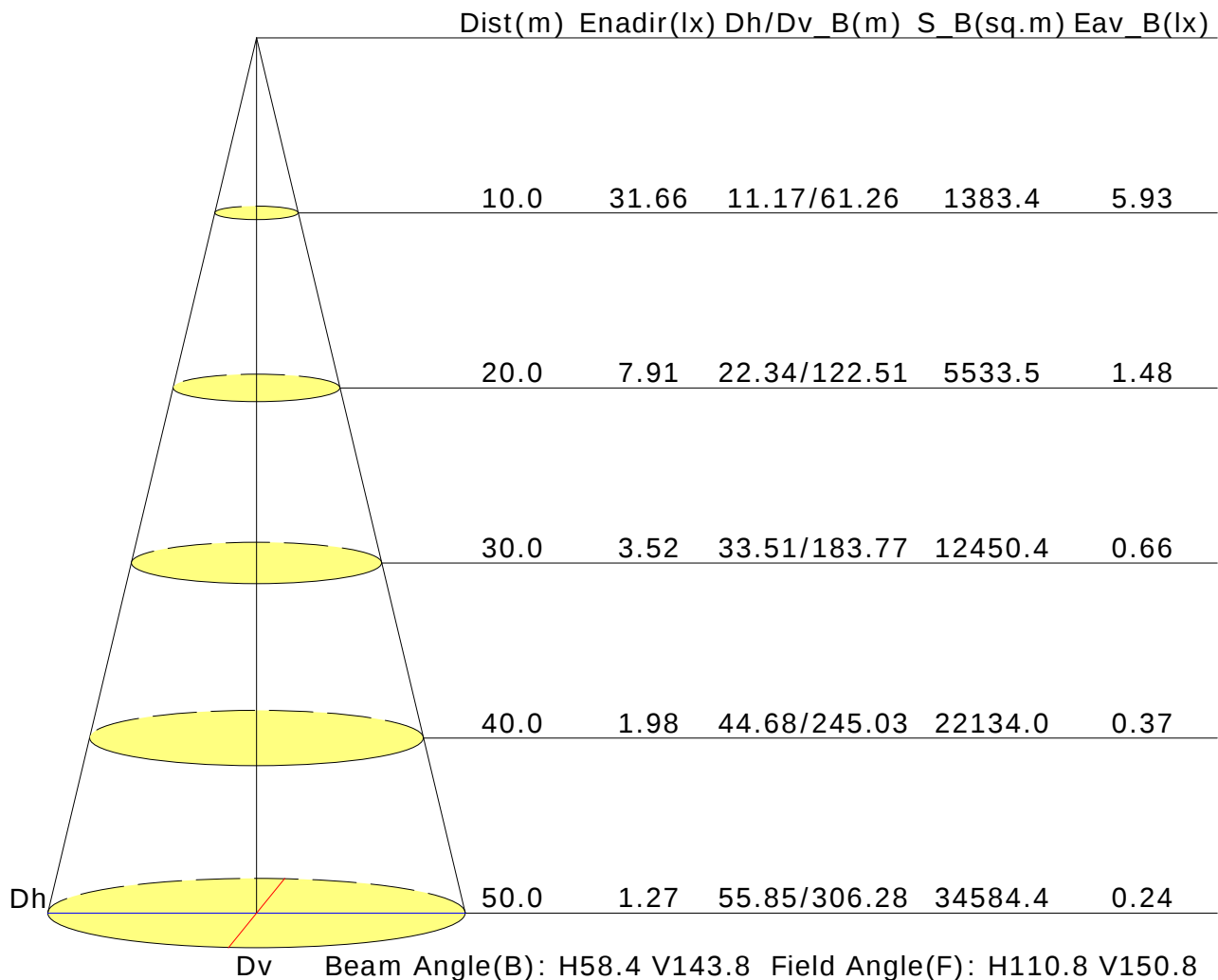
Test Device: LSG-1800B

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	14.1	15.6	14.4	15.9	16.1	27.8	29.3	28.1	29.6	29.9
3H	15.7	17.1	16.1	17.4	17.7	32.0	33.4	32.4	33.7	34.0
4H	16.8	18.1	17.2	18.4	18.8	32.4	33.7	32.8	34.0	34.4
6H	18.3	19.5	18.7	19.9	20.2	32.3	33.5	32.7	33.9	34.2
8H	19.2	20.4	19.6	20.7	21.1	32.3	33.5	32.7	33.8	34.2
12H	20.0	21.1	20.4	21.4	21.8	32.3	33.4	32.7	33.7	34.1
X=4H Y=2H	16.0	17.3	16.3	17.6	17.9	27.6	28.9	28.0	29.2	29.6
3H	17.4	18.6	17.8	18.9	19.3	31.9	33.1	32.3	33.4	33.8
4H	18.4	19.4	18.8	19.8	20.2	32.4	33.4	32.8	33.8	34.2
6H	19.8	20.7	20.2	21.1	21.5	32.4	33.2	32.8	33.6	34.1
8H	20.7	21.5	21.1	21.9	22.3	32.3	33.1	32.8	33.6	34.0
12H	21.5	22.2	22.0	22.7	23.1	32.3	33.0	32.8	33.5	34.0
X=8H Y=4H	20.1	20.9	20.5	21.3	21.8	32.3	33.1	32.8	33.5	34.0
6H	21.2	21.9	21.7	22.3	22.8	32.3	32.9	32.8	33.4	33.9
8H	22.0	22.5	22.5	23.0	23.5	32.3	32.9	32.8	33.3	33.8
12H	22.8	23.3	23.3	23.8	24.3	32.3	32.8	32.8	33.3	33.8
X=12H Y=4H	20.1	20.9	20.6	21.3	21.8	32.3	33.0	32.8	33.5	33.9
6H	21.3	21.9	21.8	22.4	22.9	32.3	32.8	32.8	33.3	33.8
8H	22.1	22.6	22.6	23.1	23.6	32.3	32.8	32.8	33.3	33.8
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.2					+0.4/-0.5				
S=1.5H	+0.7/-0.8					+1.9/-2.6				
S=2.0H	+1.0/-1.8					+3.5/-5.4				

Calculate in accordance with CIE Pub.117. The table is revised with 19310lm ($8\log(F/F_0) = 10.3$).

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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 = 2.00									
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	NA	0.65	0.71	0.77	0.85	0.90	0.94	0.98	1.01	
	0.30		NA	0.57	0.64	0.70	0.79	0.85	0.89	0.94	0.98	
	0.20		NA	0.51	0.58	0.64	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	NA	0.63	0.69	0.74	0.82	0.87	0.90	0.94	0.97	
	0.30		NA	0.56	0.62	0.68	0.77	0.82	0.86	0.91	0.94	
	0.20		NA	0.51	0.57	0.63	0.72	0.78	0.82	0.88	0.91	
0.30	0.50	0.20	NA	0.61	0.66	0.71	0.79	0.83	0.86	0.90	0.93	
	0.30		NA	0.55	0.61	0.66	0.75	0.80	0.83	0.88	0.91	
	0.20		NA	0.50	0.56	0.62	0.71	0.76	0.80	0.85	0.88	
0.00	0.00	0.00	NA	0.47	0.53	0.59	0.67	0.72	0.76	0.81	0.84	
Rating:138W 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 = 2.00									
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	NA	0.82	0.71	0.62	0.48	0.40	0.34	0.26	0.21	
	0.30		NA	0.70	0.62	0.54	0.43	0.36	0.31	0.25	0.20	
	0.20		NA	0.61	0.55	0.49	0.40	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	NA	0.79	0.68	0.59	0.46	0.41	0.32	0.25	0.20	
	0.30		NA	0.68	0.60	0.53	0.42	0.35	0.30	0.24	0.19	
	0.20		NA	0.60	0.54	0.48	0.39	0.32	0.28	0.22	0.19	
0.30	0.50	0.20	NA	0.76	0.66	0.56	0.44	0.36	0.31	0.24	0.19	
	0.30		NA	0.67	0.59	0.51	0.40	0.34	0.29	0.23	0.19	
	0.20		NA	0.59	0.53	0.47	0.37	0.31	0.27	0.22	0.18	
0.00	0.00	0.00	0.97	0.50	0.44	0.38	0.30	0.25	0.21	0.17	0.14	
Rating:138W 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 = 2.00									
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	NA	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		NA	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	NA	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		NA	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		NA	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	NA	0.17	0.18	0.19	0.19	0.20	0.20	0.20	0.21	
	0.30		NA	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.08	0.10	0.11	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:138W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												