

Report No.:

Test Time: 29.01.2020 22:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FP 150 80W 5000K 2x40-100gr. NN

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 221.1 V

Power: 80.14 W

Luminous Length (mm): 404

Luminous Height (mm): 80

Current: 0.365 A

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Measurement Flux: 11076.9 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.7, 135.2, 135.1, 134.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 102.8, 113.3, 118.6, 118.3

Luminaire Efficacy Rating (LER): 138.27

Max. Intensity: 5241.48 cd

S/MH(C0/C180): 2.33

Total Rated Lamp Lumens: 11076.9 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1829.9 cd

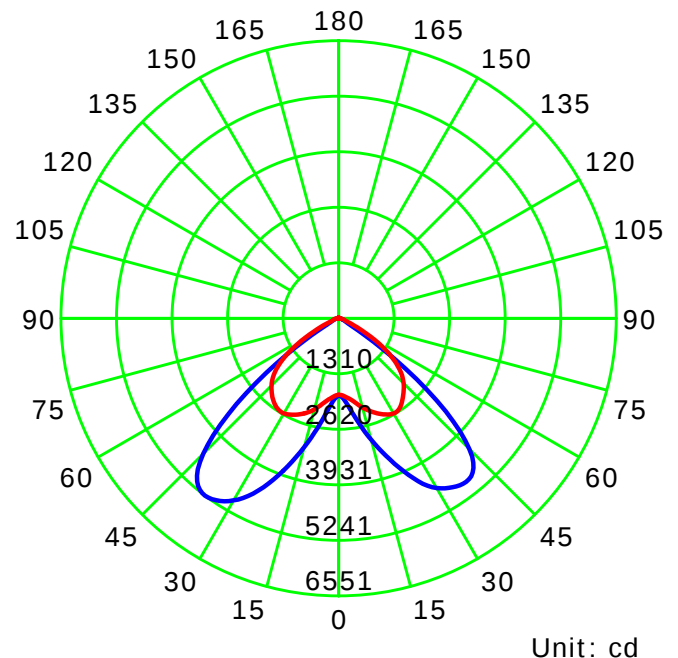
Pos of Max. Intensity: H180 V37

S/MH(C90/C270): 1.86

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

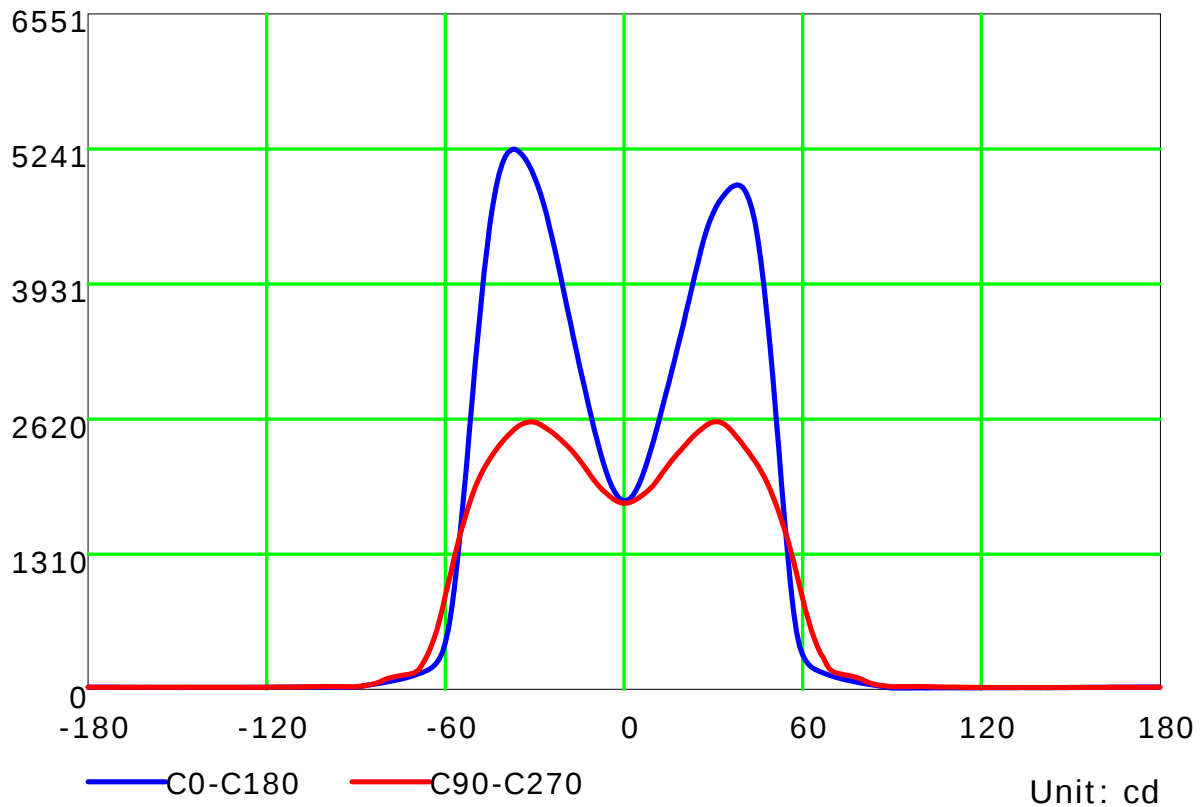
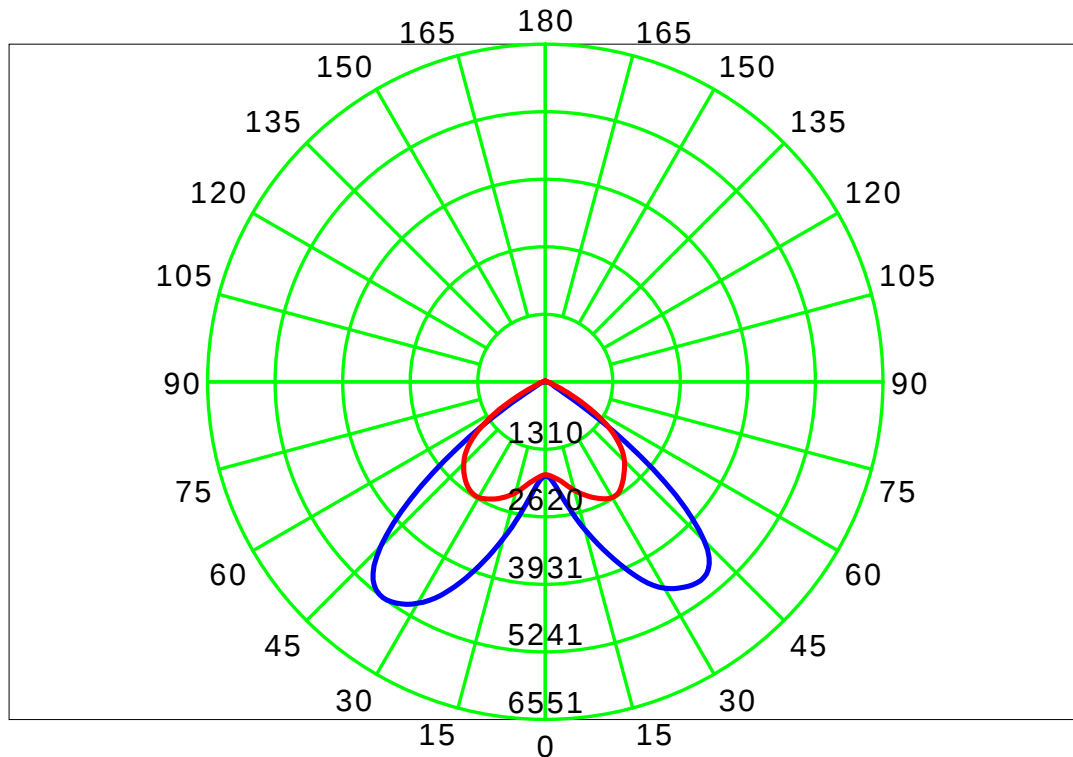
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

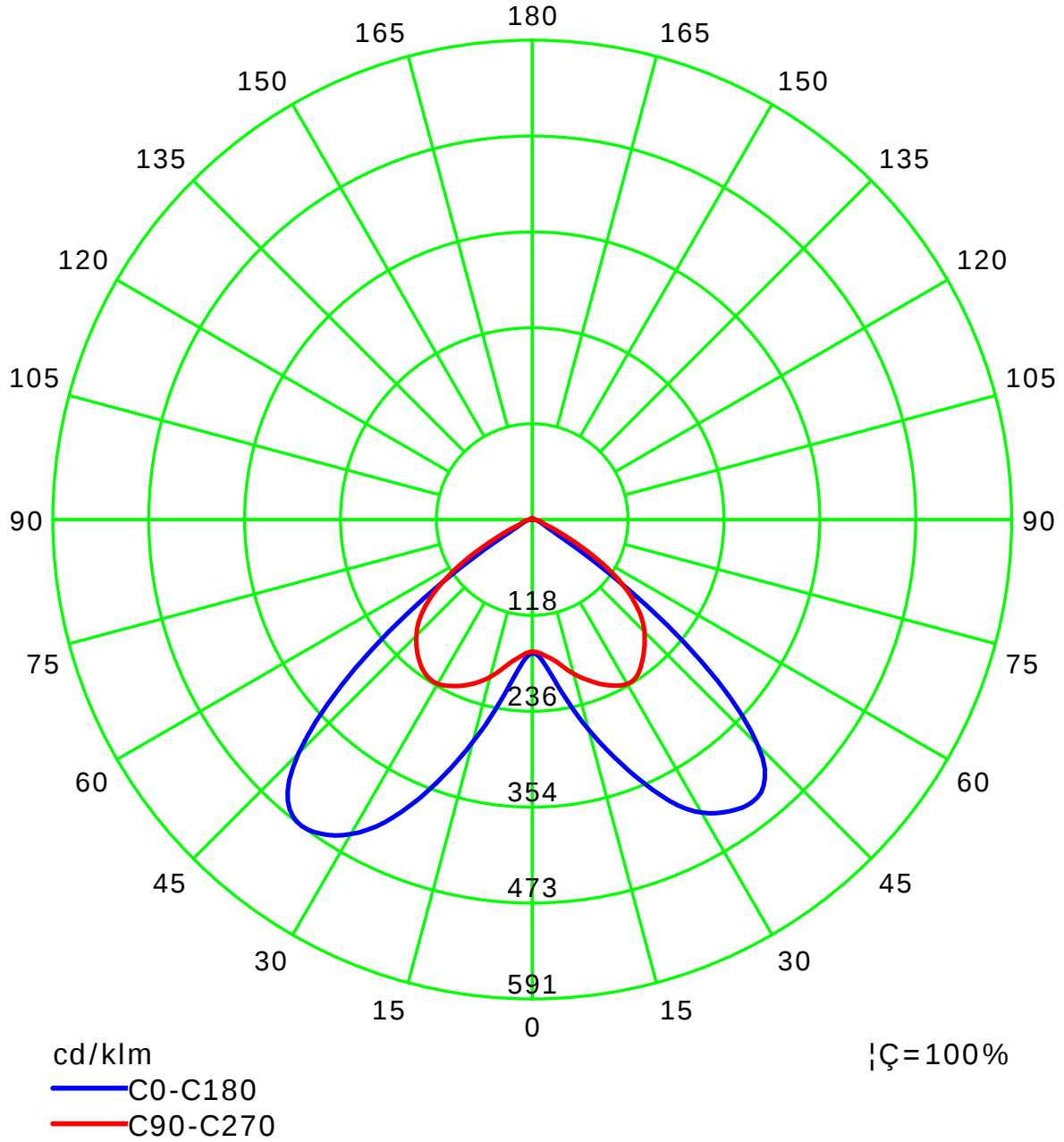
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
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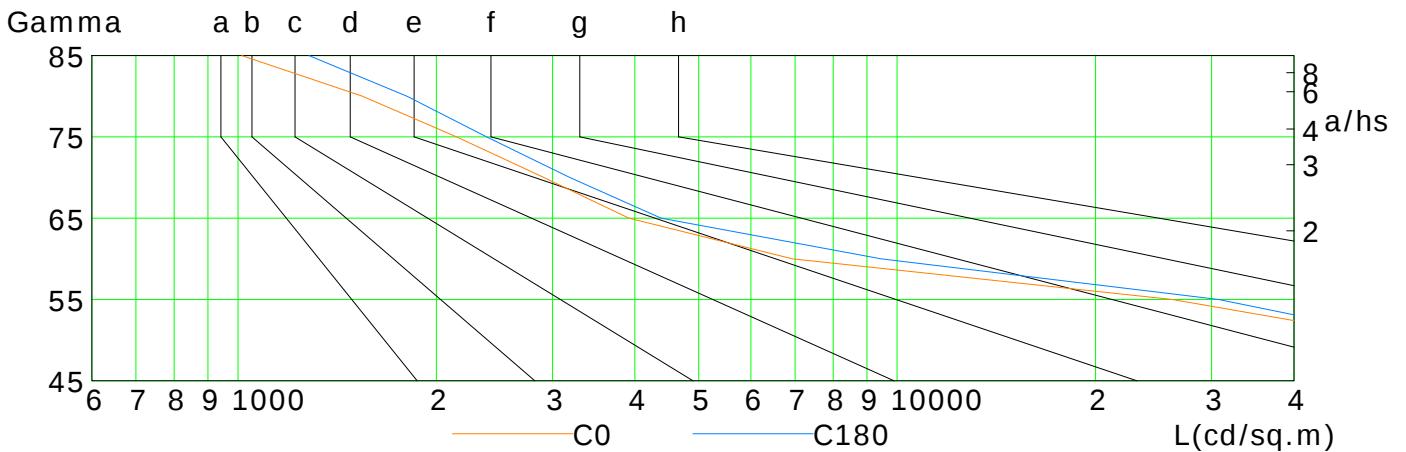
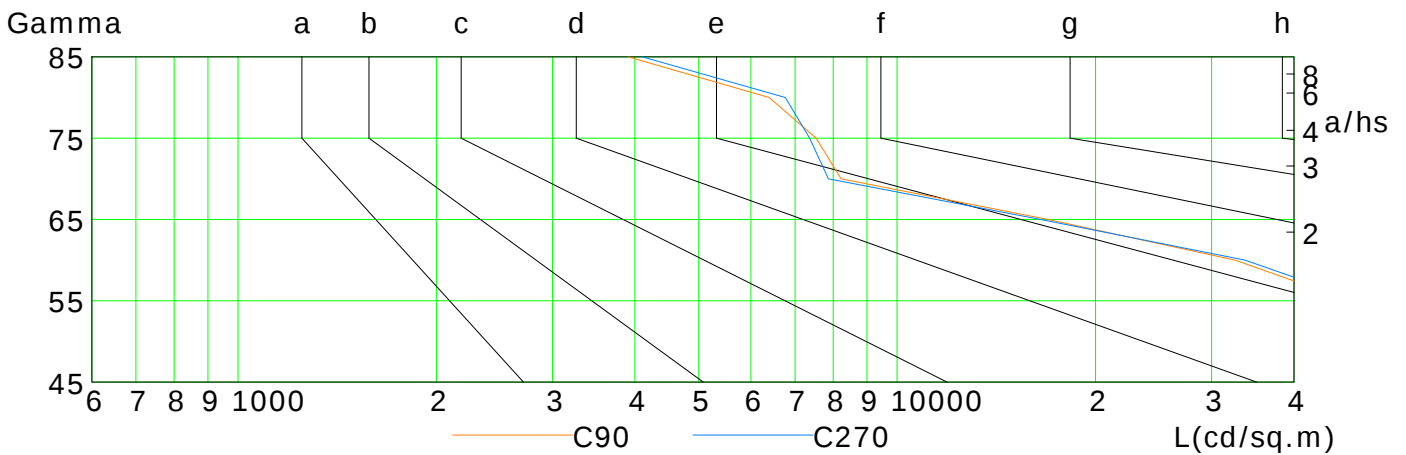
Luminous Intensity Distribution Curve(cd / klm)



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	84761	59639	26148	6936	3918	2911	2146	1544	1013
C90	63396	58371	48852	32550	16937	8224	7533	6397	3907
C180	87925	62109	30733	9454	4385	3188	2384	1804	1281
C270	65423	61080	50744	33694	16514	7867	7366	6766	4107

C Plane (°):0.0-360.0: 22.5

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

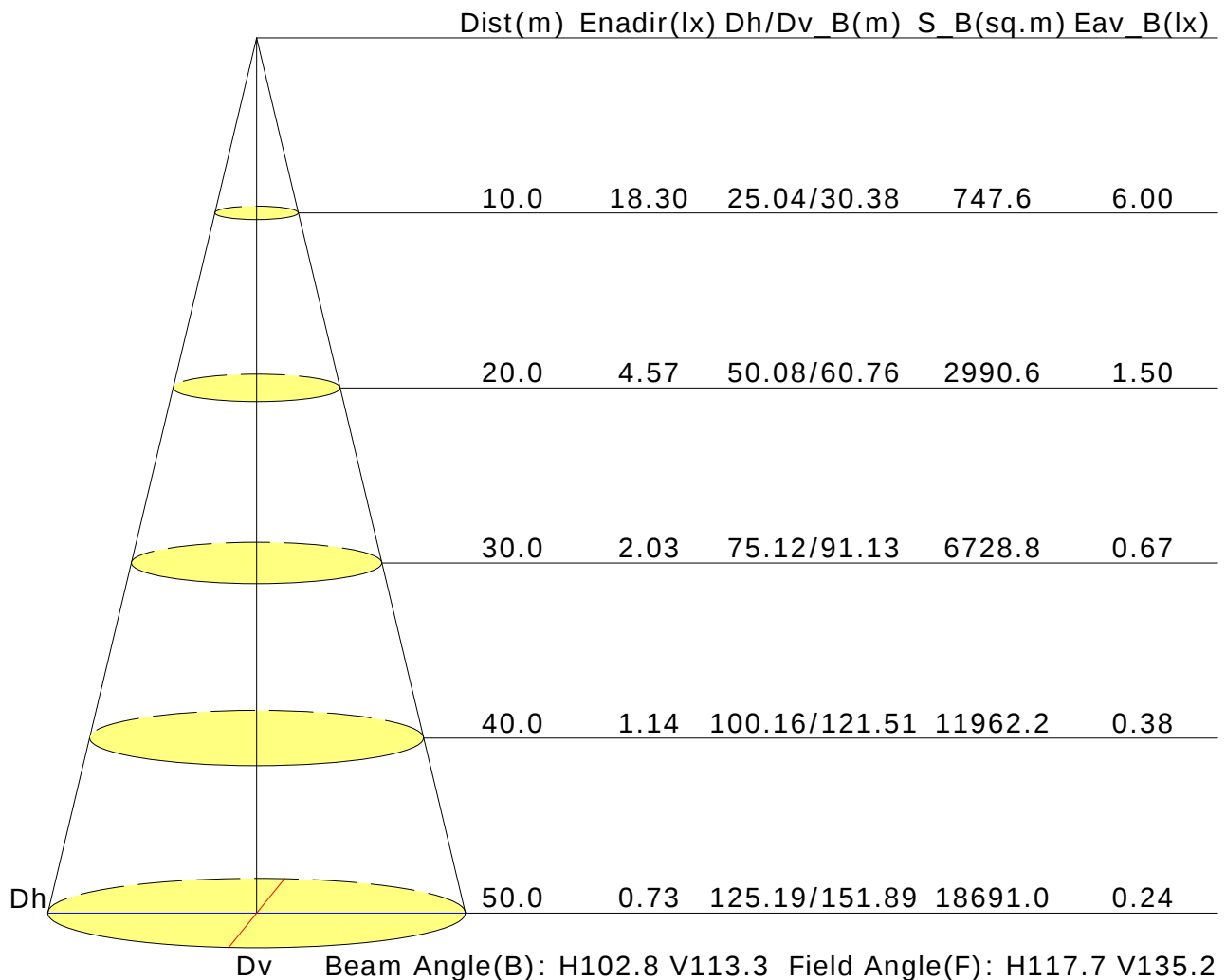
Test Device: LSG-1800B

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	26.2	27.5	26.5	27.7	28.0	26.7	28.0	27.0	28.3	28.5
3H	26.0	27.2	26.3	27.5	27.8	26.7	27.9	27.0	28.1	28.4
4H	25.9	27.0	26.3	27.3	27.6	26.6	27.7	27.0	28.0	28.3
6H	25.9	26.9	26.2	27.2	27.5	26.6	27.6	27.0	27.9	28.3
8H	25.8	26.8	26.2	27.1	27.5	26.6	27.5	26.9	27.9	28.2
12H	25.8	26.7	26.2	27.1	27.4	26.5	27.4	26.9	27.8	28.2
X=4H Y=2H	26.4	27.5	26.8	27.8	28.2	26.9	28.0	27.3	28.3	28.6
3H	26.3	27.2	26.7	27.6	28.0	26.9	27.8	27.3	28.2	28.5
4H	26.3	27.1	26.7	27.4	27.8	26.9	27.7	27.3	28.1	28.5
6H	26.2	26.9	26.6	27.3	27.7	26.8	27.5	27.3	27.9	28.4
8H	26.2	26.8	26.6	27.2	27.7	26.8	27.5	27.3	27.9	28.3
12H	26.1	26.7	26.6	27.2	27.6	26.8	27.4	27.3	27.8	28.3
X=8H Y=4H	26.2	26.8	26.6	27.2	27.7	26.8	27.4	27.2	27.8	28.3
6H	26.1	26.6	26.6	27.1	27.6	26.7	27.3	27.2	27.7	28.2
8H	26.1	26.5	26.6	27.0	27.5	26.7	27.2	27.2	27.7	28.2
12H	26.1	26.5	26.6	26.9	27.5	26.7	27.1	27.2	27.6	28.1
X=12H Y=4H	26.1	26.7	26.6	27.2	27.6	26.7	27.3	27.2	27.8	28.2
6H	26.1	26.5	26.6	27.0	27.5	26.7	27.2	27.2	27.6	28.1
8H	26.1	26.5	26.6	26.9	27.5	26.7	27.1	27.2	27.6	28.1
Variations with the observer position at spacings:										
S=1.0H	+1.2/-2.6					+0.5/-0.7				
S=1.5H	+2.9/-10.2					+2.6/-4.6				
S=2.0H	+3.7/-12.4					+3.2/-8.5				

Calculate in accordance with CIE Pub.117. The table is revised with 11077lm ($8\log(F/F_0) = 8.4$).

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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	0.81	0.86	0.91	0.97	1.00	1.02	1.06	1.07	
	0.30		NA	0.75	0.81	0.86	0.92	0.96	0.99	1.03	1.05	
	0.20		NA	0.71	0.77	0.82	0.89	0.93	0.96	1.00	1.03	
0.50	0.50	0.20	NA	0.79	0.84	0.88	0.93	0.97	0.99	1.02	1.03	
	0.30		NA	0.74	0.79	0.84	0.90	0.94	0.96	0.99	1.01	
	0.20		NA	0.70	0.76	0.80	0.87	0.91	0.93	0.97	1.00	
0.30	0.50	0.20	NA	0.77	0.82	0.86	0.91	0.93	0.95	0.98	0.99	
	0.30		NA	0.73	0.78	0.82	0.88	0.91	0.93	0.96	0.98	
	0.20		NA	0.70	0.75	0.79	0.85	0.89	0.91	0.94	0.96	
0.00	0.00	0.00	NA	0.67	0.72	0.76	0.82	0.85	0.87	0.90	0.91	
Rating:80W 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	0.60	0.51	0.44	0.34	0.28	0.24	0.18	0.15	
	0.30		NA	0.52	0.45	0.39	0.31	0.25	0.22	0.17	0.14	
	0.20		NA	0.45	0.40	0.35	0.28	0.23	0.20	0.16	0.13	
0.50	0.50	0.20	NA	0.57	0.48	0.41	0.32	0.30	0.22	0.17	0.14	
	0.30		NA	0.50	0.43	0.37	0.29	0.24	0.21	0.16	0.13	
	0.20		NA	0.44	0.38	0.34	0.27	0.22	0.19	0.15	0.13	
0.30	0.50	0.20	NA	0.54	0.46	0.39	0.30	0.24	0.21	0.16	0.13	
	0.30		NA	0.48	0.41	0.35	0.27	0.23	0.19	0.15	0.12	
	0.20		NA	0.43	0.37	0.32	0.26	0.21	0.18	0.14	0.12	
0.00	0.00	0.00	0.99	0.31	0.27	0.23	0.17	0.14	0.12	0.09	0.07	
Rating:80W 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	0.17	0.18	0.18	0.20	0.20	0.21	0.22	0.22	
	0.30		NA	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.20	
	0.20		NA	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	NA	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	
	0.30		NA	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		NA	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	NA	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		NA	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
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:80W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												