

Report No.:

Test Time: 29.01.2020 21:46

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FP 150 80W 5000K 40x90gr. NN

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 221.2 V

Power: 80.14 W

Luminous Length (mm): 404

Luminous Height (mm): 80

Current: 0.365 A

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Measurement Flux: 10763.3 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 38.3, 142.0, 50.9, 50.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 21.7, 84.1, 29.5, 29.5

Luminaire Efficacy Rating (LER): 134.36

Max. Intensity: 15207.43 cd

S/MH(C0/C180): 0.37

Total Rated Lamp Lumens: 10763.3 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 15021.55 cd

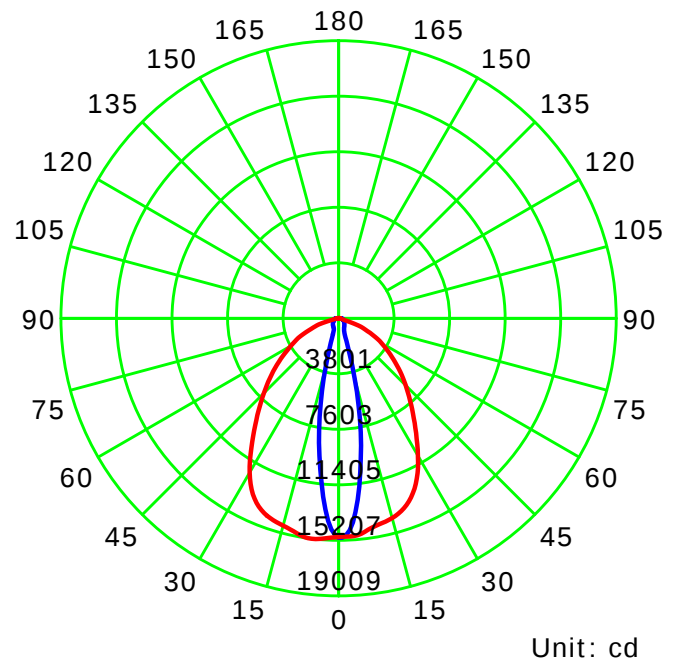
Pos of Max. Intensity: H270 V7

S/MH(C90/C270): 1.15

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

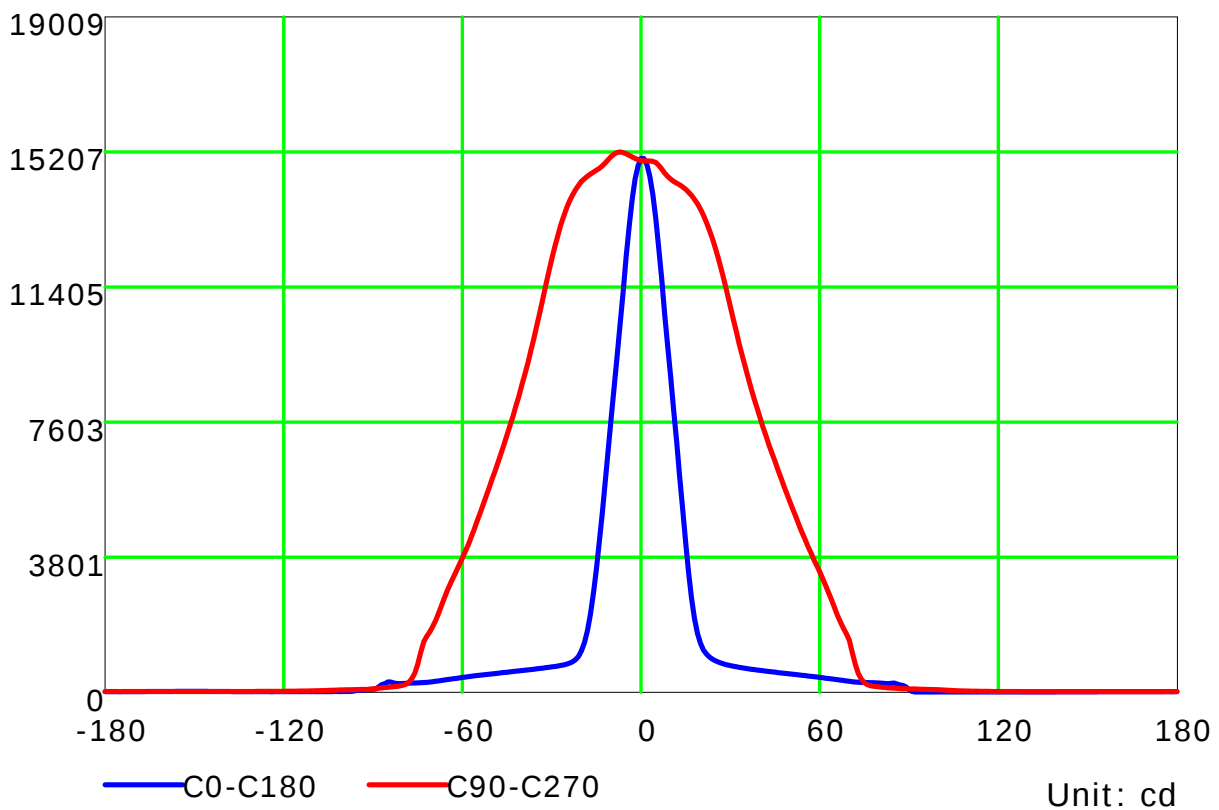
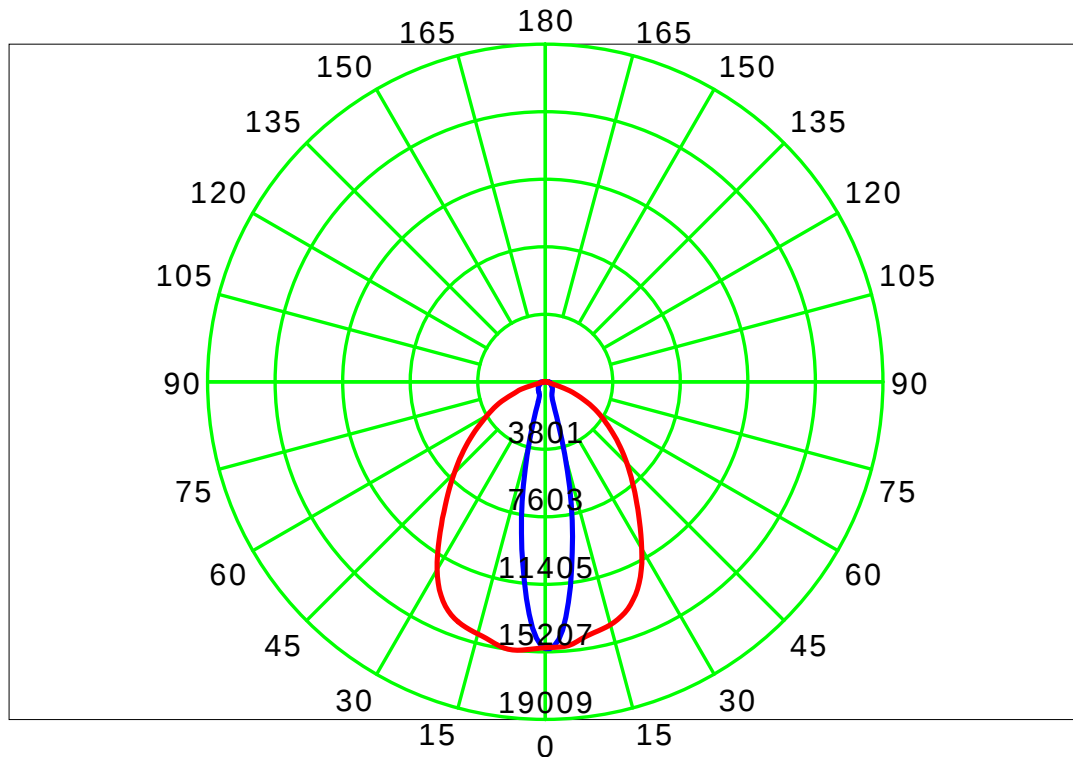
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

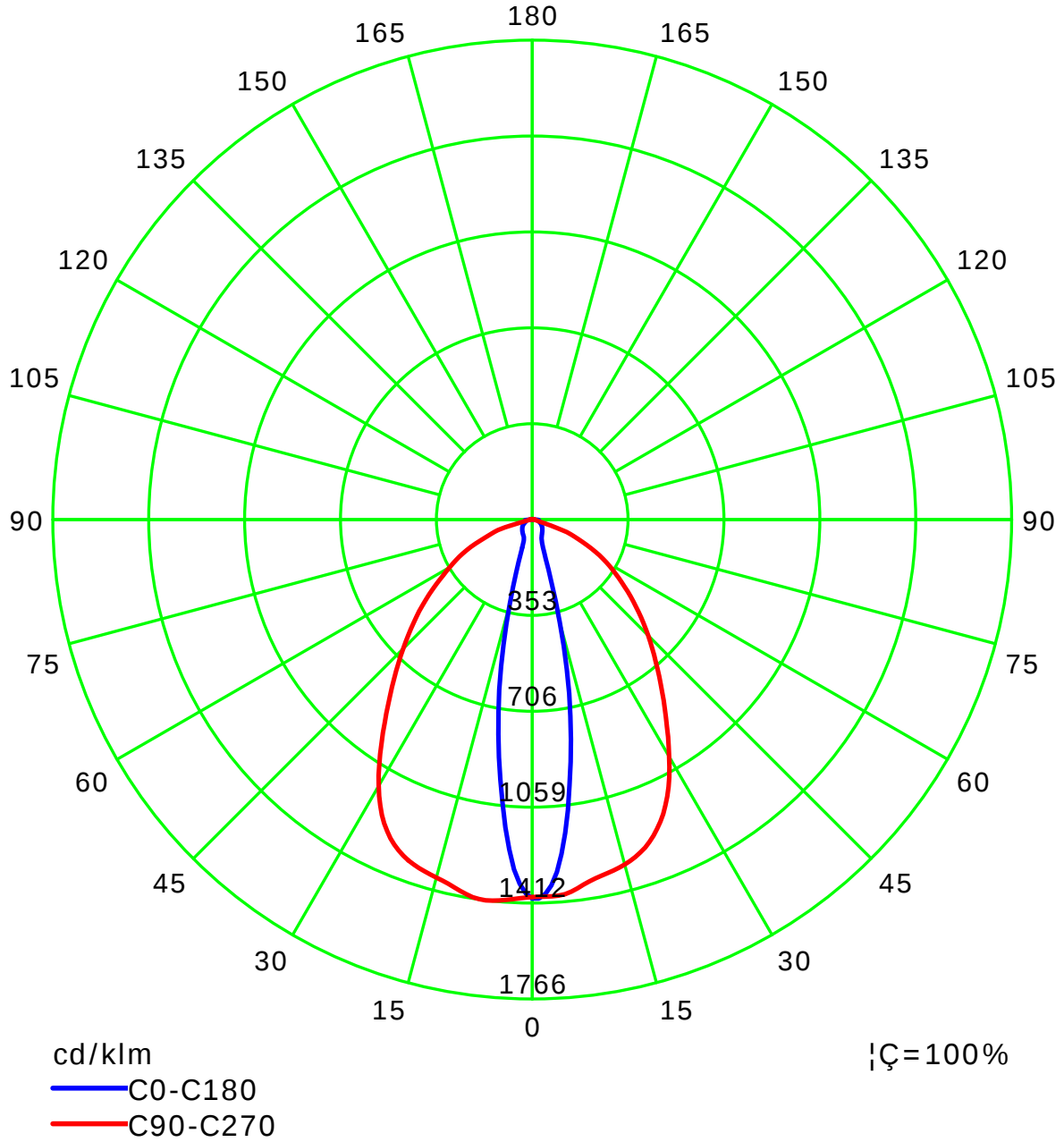
Luminous Intensity Distribution Curve



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

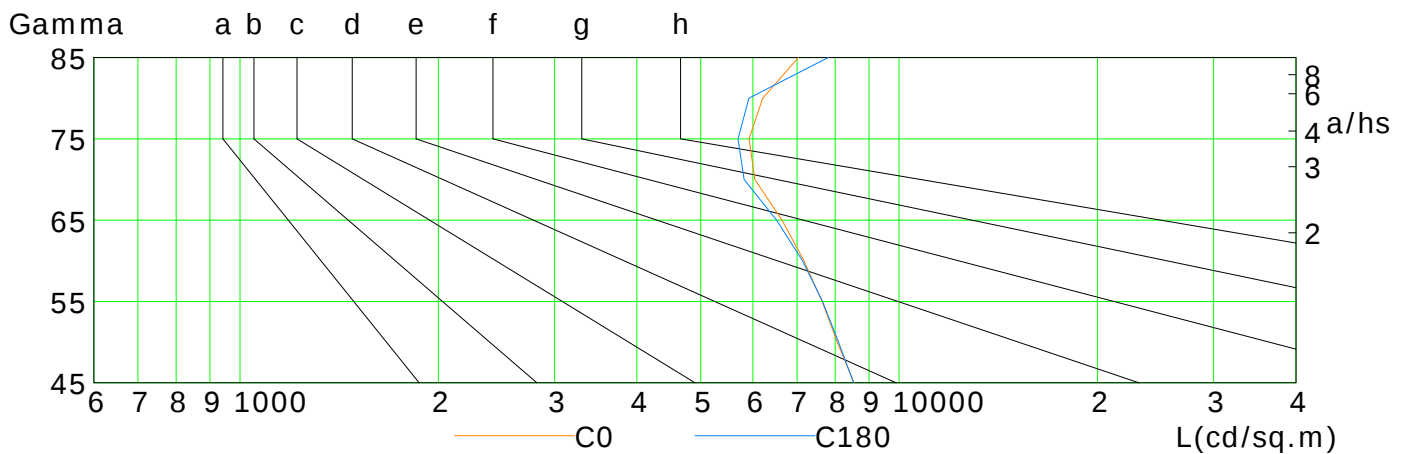
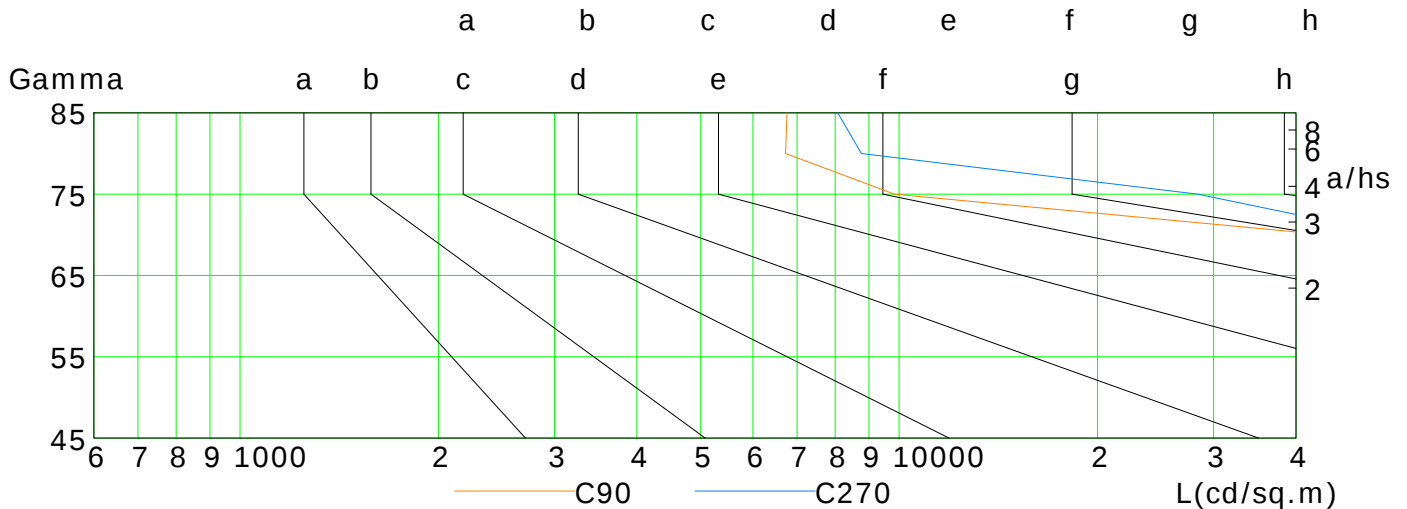
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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	8543	8058	7641	7173	6644	6039	5920	6209	7031
C90	124242	109332	95084	81882	64071	44630	9843	6725	6759
C180	8527	8091	7653	7137	6516	5819	5695	5917	7805
C270	138340	122298	106238	91146	77272	56649	28382	8764	8071

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

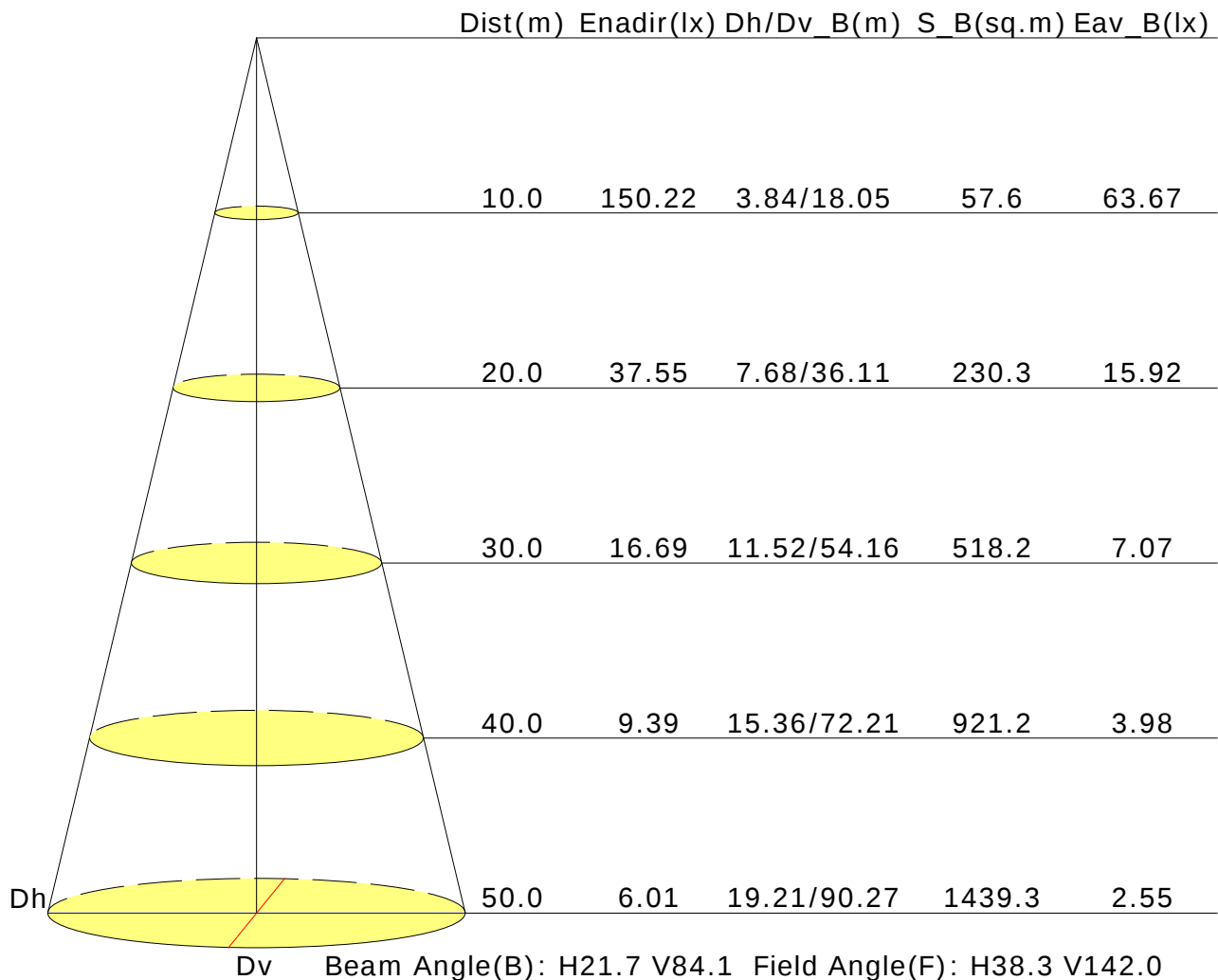
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	14.9	16.0	15.2	16.3	16.5	27.1	28.2	27.4	28.4	28.7
3H	16.5	17.5	16.8	17.7	18.0	28.2	29.2	28.6	29.5	29.8
4H	17.2	18.1	17.6	18.4	18.8	28.4	29.3	28.8	29.6	29.9
6H	18.0	18.9	18.4	19.2	19.5	28.4	29.2	28.8	29.6	29.9
8H	18.5	19.3	18.8	19.6	20.0	28.4	29.2	28.8	29.5	29.9
12H	18.9	19.7	19.3	20.1	20.4	28.4	29.1	28.7	29.5	29.8
X=4H Y=2H	16.0	16.9	16.4	17.2	17.5	26.9	27.8	27.2	28.1	28.4
3H	17.6	18.3	18.0	18.7	19.1	28.0	28.8	28.4	29.2	29.5
4H	18.3	19.0	18.8	19.4	19.8	28.3	29.0	28.7	29.3	29.7
6H	19.2	19.8	19.6	20.2	20.6	28.3	28.9	28.7	29.3	29.7
8H	19.6	20.2	20.1	20.6	21.1	28.3	28.8	28.7	29.2	29.7
12H	20.1	20.6	20.6	21.1	21.6	28.2	28.8	28.7	29.2	29.7
X=8H Y=4H	18.6	19.2	19.1	19.6	20.1	28.2	28.7	28.6	29.1	29.6
6H	19.5	20.0	20.0	20.5	20.9	28.2	28.6	28.7	29.1	29.6
8H	20.0	20.4	20.5	20.9	21.4	28.2	28.6	28.7	29.1	29.6
12H	20.6	21.0	21.1	21.5	22.0	28.2	28.5	28.7	29.0	29.6
X=12H Y=4H	18.7	19.2	19.1	19.6	20.1	28.1	28.6	28.6	29.1	29.5
6H	19.6	20.0	20.1	20.5	21.0	28.1	28.5	28.6	29.0	29.5
8H	20.1	20.4	20.6	20.9	21.5	28.2	28.5	28.7	29.0	29.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+1.2/-1.7				
S=1.5H	+0.4/-0.6					+2.6/-4.1				
S=2.0H	+0.6/-1.0					+4.1/-7.2				

Calculate in accordance with CIE Pub.117. The table is revised with 10763lm ($8\log(F/F_0) = 8.3$).

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.71	0.79	0.85	0.89	0.95	0.99	1.01	1.05	1.07	
	0.30		0.64	0.73	0.79	0.83	0.90	0.94	0.97	1.02	1.04	
	0.20		0.60	0.68	0.74	0.79	0.86	0.91	0.94	0.99	1.02	
0.50	0.50	0.20	0.69	0.77	0.82	0.86	0.92	0.95	0.98	1.01	1.03	
	0.30		0.63	0.71	0.77	0.82	0.88	0.91	0.94	0.98	1.00	
	0.20		0.59	0.67	0.73	0.78	0.84	0.88	0.91	0.96	0.98	
0.30	0.50	0.20	0.68	0.75	0.80	0.84	0.89	0.92	0.94	0.97	0.99	
	0.30		0.63	0.70	0.76	0.80	0.85	0.89	0.91	0.95	0.97	
	0.20		0.59	0.67	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.57	0.64	0.69	0.73	0.79	0.82	0.85	0.88	0.90	
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 = 0.75									
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	0.80	0.65	0.56	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.66	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.19	0.16	
0.50	0.50	0.20	0.76	0.62	0.53	0.46	0.36	0.33	0.25	0.20	0.16	
	0.30		0.64	0.54	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	0.73	0.59	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.52	0.45	0.39	0.31	0.26	0.22	0.18	0.14	
	0.20		0.55	0.47	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.35	0.30	0.26	0.21	0.17	0.15	0.12	0.10	
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 = 0.75									
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	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.23	
	0.30		0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.30	0.50	0.20	0.15	0.16	0.17	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	0.19	
	0.20		0.07	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												