

Report No.:

Test Time: 25.03.2020 23:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 5000K 104x90 gr

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 228.9 V

Current: 0.203 A

Power: 45.37 W

Power Factor: 0.976

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6411.3 lm

Measurement Flux: 6411.3 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.1, 126.9, 136.5, 137.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.2, 85.5, 86.1, 85.1

Luminaire Efficacy Rating (LER): 141.36

Central Intensity: 2989.3 cd

Max. Intensity: 3091.29 cd

Pos of Max. Intensity: H135 V6

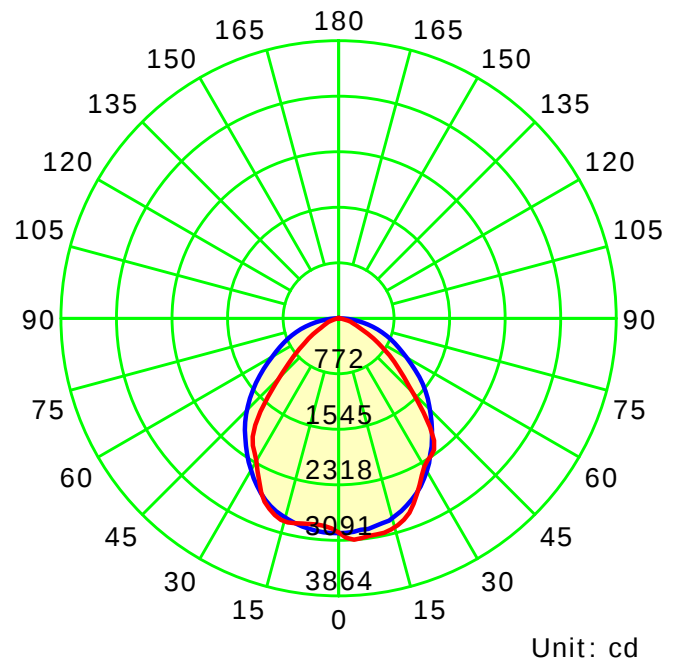
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.17

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

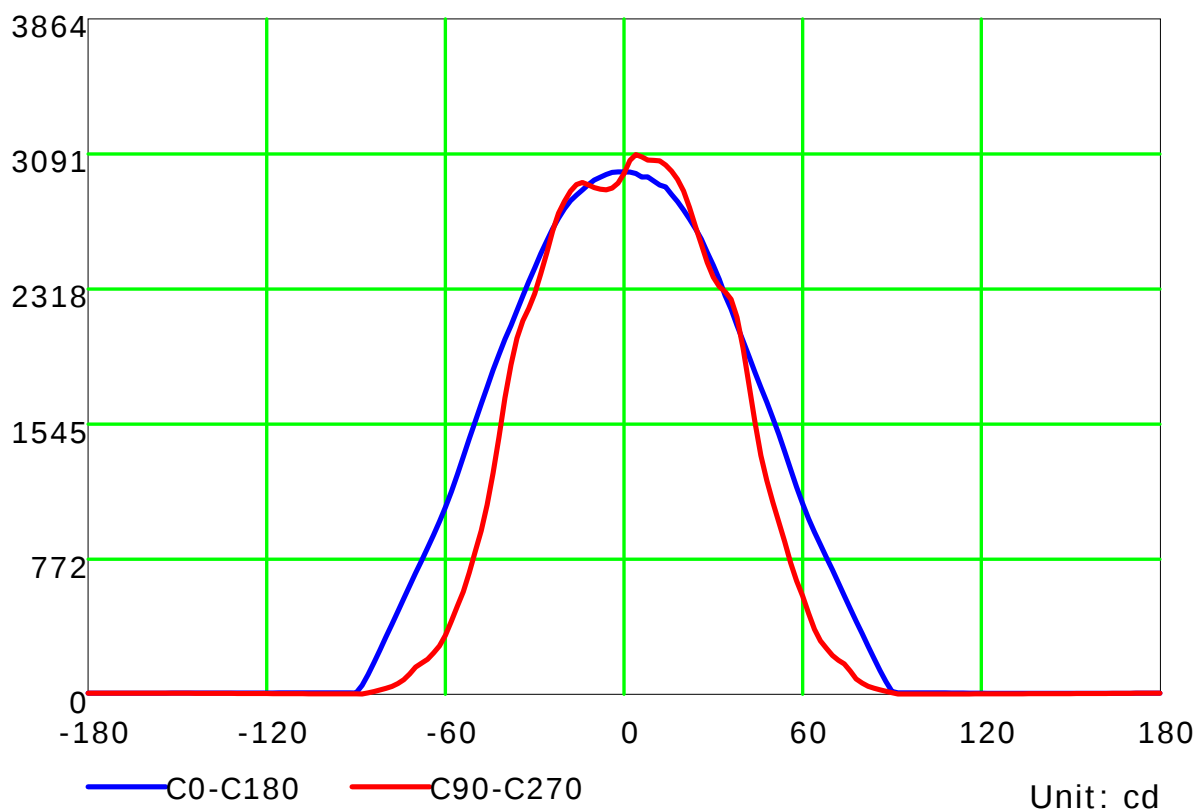
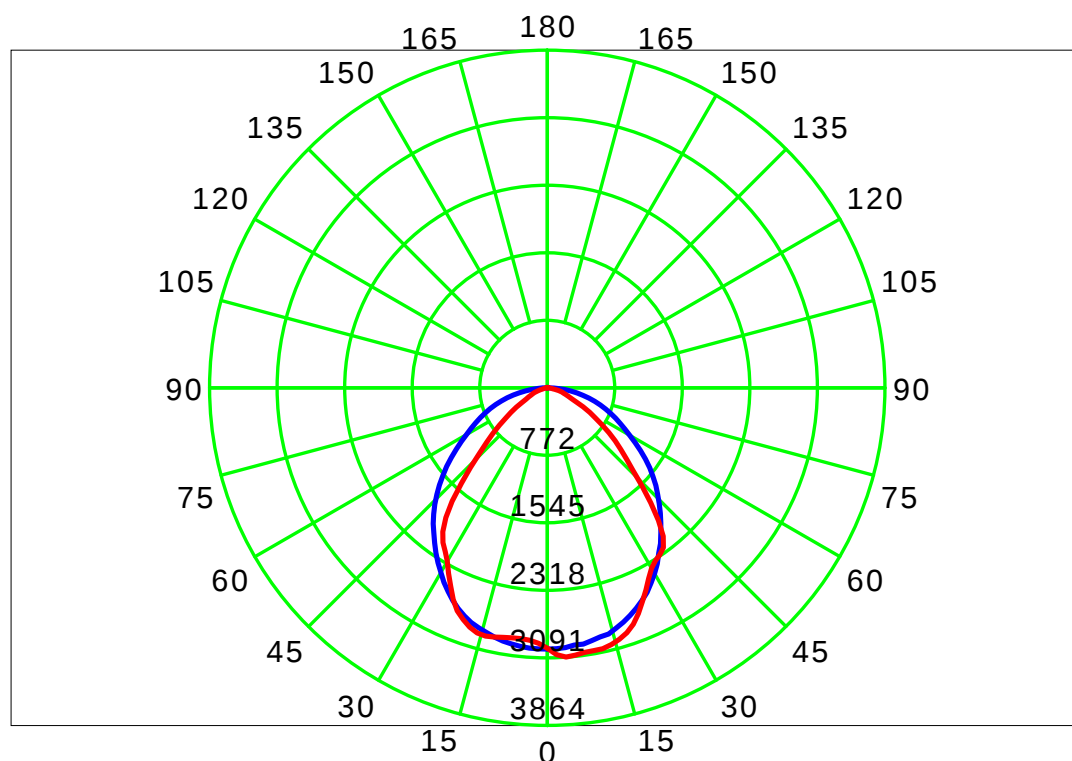
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

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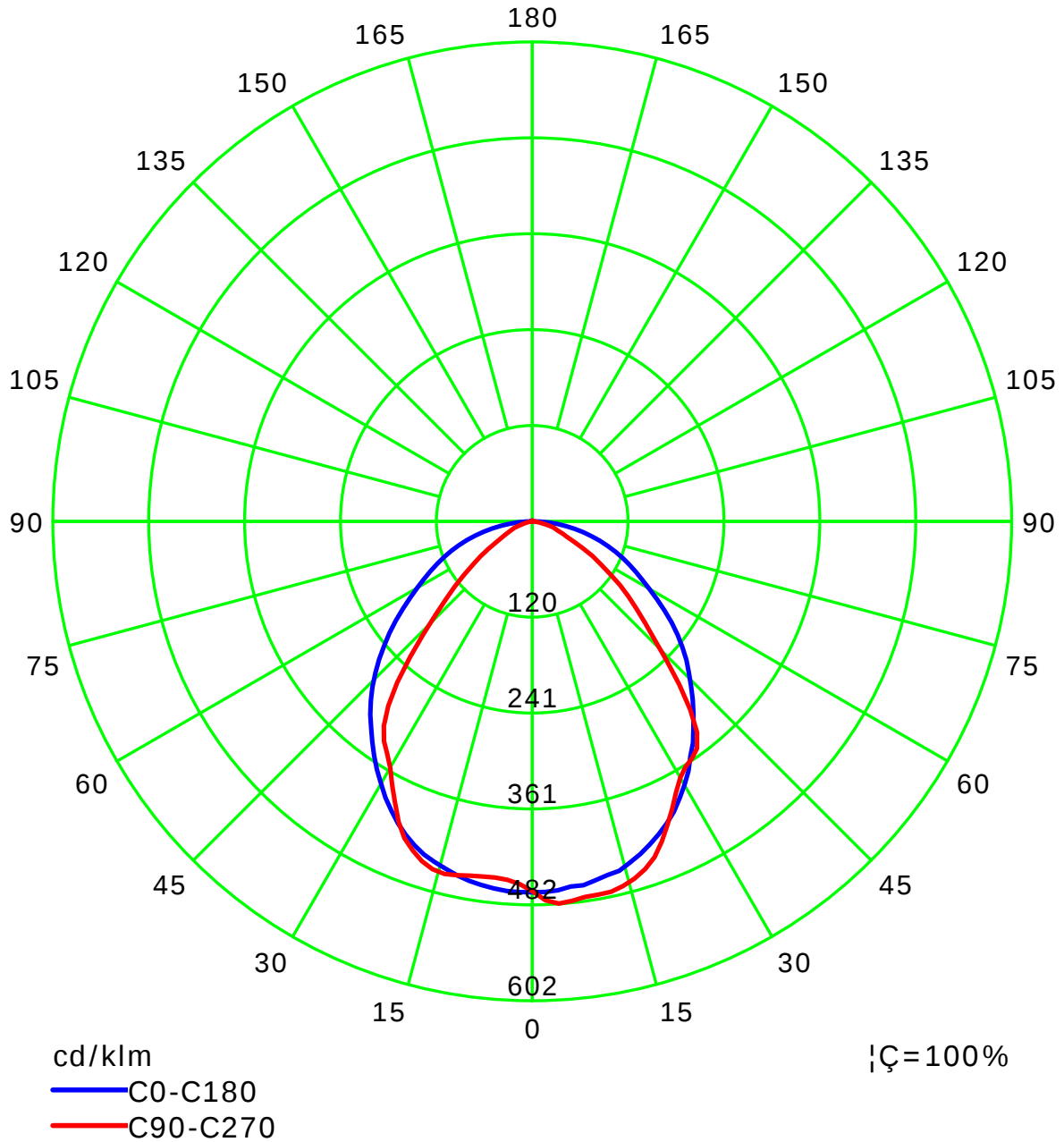
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°): 0.0-360.0: 22.5

Test Lab:

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Operator:

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Test Device: LSG-1800B

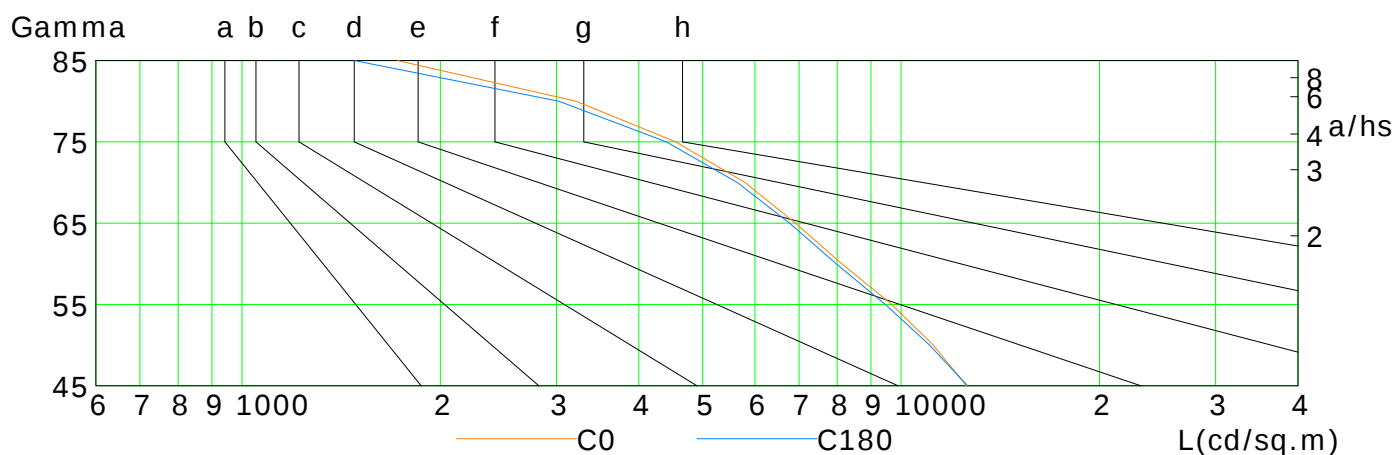
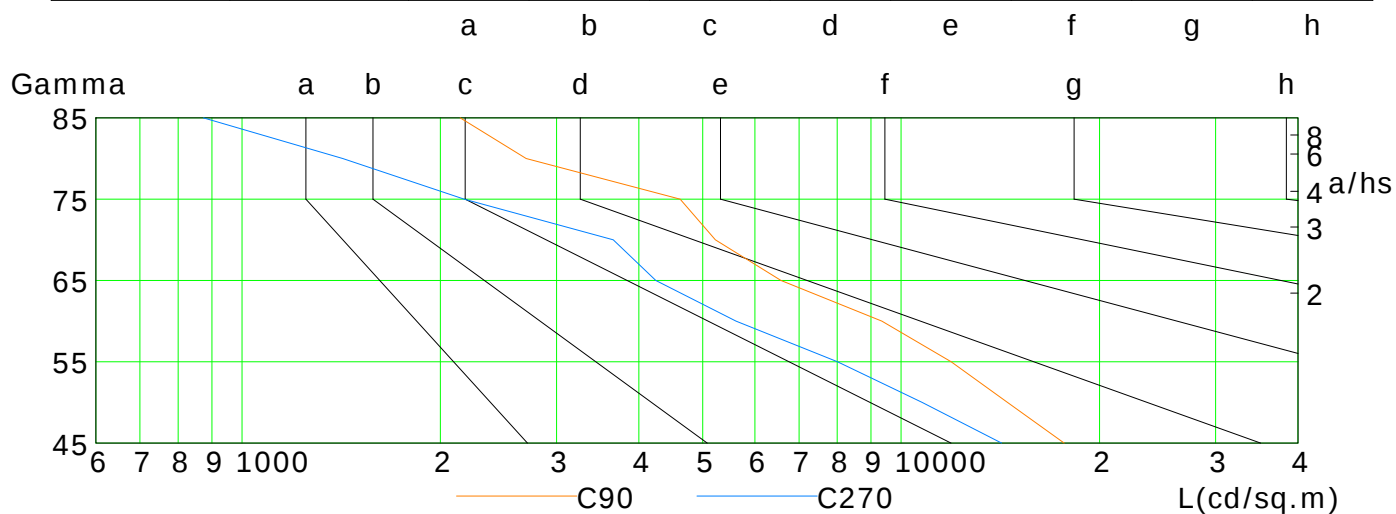
Distance: 12.677 m

Humidity:

Inspector:

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	12566	11186	9676	8128	6911	5794	4549	3211	1722
C90	17677	14498	11911	9351	6573	5226	4621	2698	2143
C180	12619	11043	9464	7972	6774	5643	4404	3024	1480
C270	14206	10765	8008	5617	4243	3658	2173	1422	874

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

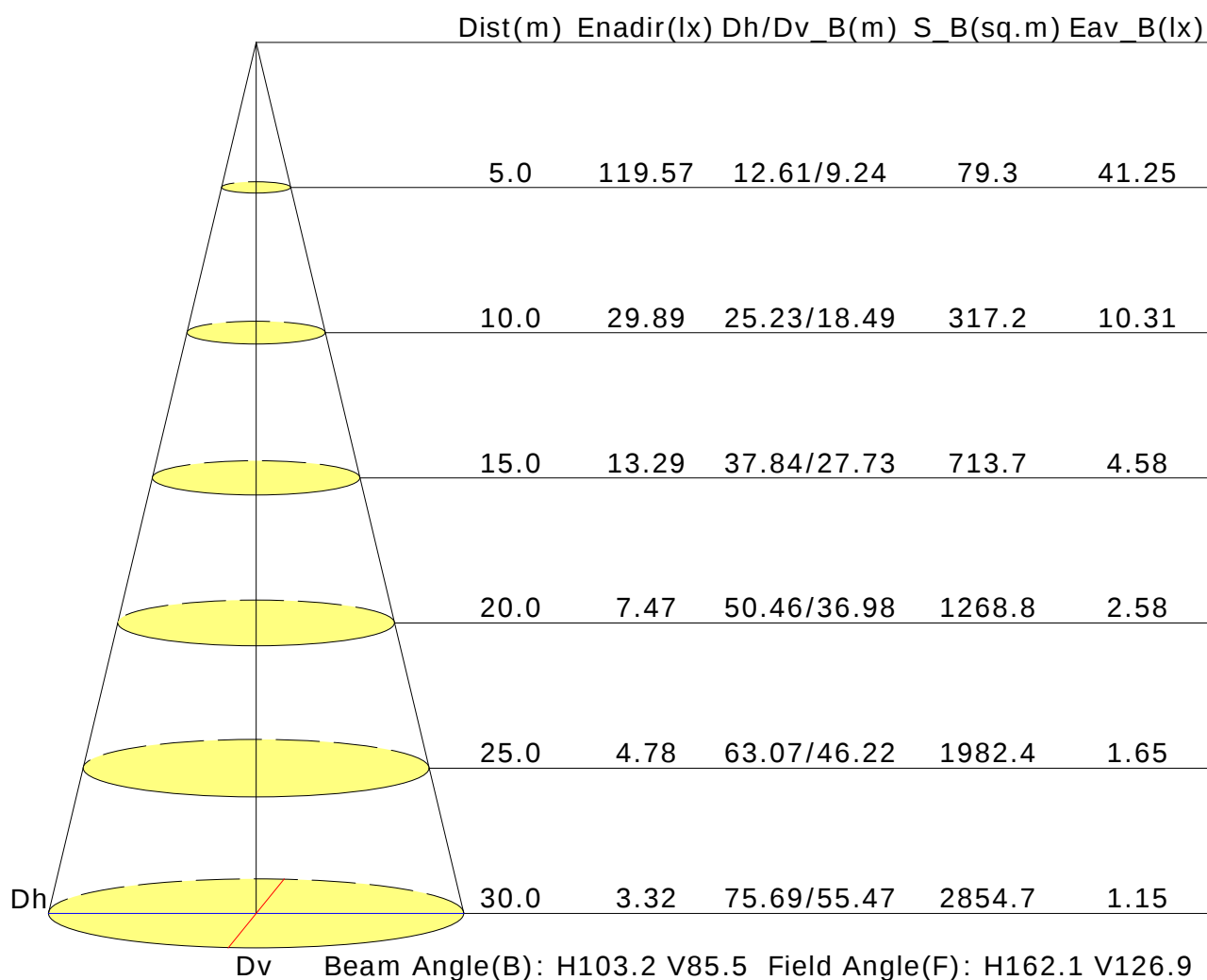
Test Device: LSG-1800B

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	19.7	21.0	20.0	21.2	21.5	19.1	20.4	19.4	20.6	20.8
3H	20.9	22.0	21.2	22.3	22.6	19.4	20.5	19.8	20.8	21.1
4H	21.4	22.4	21.7	22.7	23.0	19.5	20.6	19.9	20.9	21.2
6H	21.7	22.7	22.1	23.0	23.3	19.5	20.5	19.9	20.8	21.1
8H	21.8	22.7	22.2	23.1	23.4	19.5	20.5	19.9	20.8	21.1
12H	21.8	22.7	22.2	23.1	23.4	19.5	20.4	19.9	20.7	21.1
X=4H Y=2H	19.9	20.9	20.2	21.2	21.5	19.3	20.4	19.7	20.7	21.0
3H	21.1	22.0	21.5	22.4	22.7	19.7	20.6	20.1	21.0	21.3
4H	21.7	22.5	22.1	22.9	23.3	19.9	20.7	20.3	21.0	21.4
6H	22.1	22.8	22.6	23.2	23.6	19.9	20.6	20.3	21.0	21.4
8H	22.3	22.9	22.7	23.3	23.8	19.9	20.6	20.4	21.0	21.4
12H	22.4	22.9	22.8	23.4	23.8	19.9	20.5	20.4	20.9	21.4
X=8H Y=4H	21.7	22.3	22.1	22.7	23.2	19.9	20.6	20.4	21.0	21.4
6H	22.2	22.7	22.6	23.1	23.6	20.0	20.5	20.5	21.0	21.4
8H	22.3	22.8	22.8	23.3	23.8	20.0	20.5	20.5	20.9	21.4
12H	22.5	22.9	23.0	23.3	23.9	20.0	20.4	20.5	20.9	21.4
X=12H Y=4H	21.6	22.2	22.1	22.7	23.1	19.9	20.5	20.4	20.9	21.4
6H	22.1	22.6	22.6	23.1	23.6	20.0	20.4	20.5	20.9	21.4
8H	22.3	22.7	22.8	23.2	23.7	20.0	20.4	20.5	20.9	21.4
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.7/-1.1				
S=1.5H	+0.8/-1.1					+1.6/-2.7				
S=2.0H	+1.6/-1.9					+3.1/-3.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6411lm ($8\log(F/F_0) = 6.5$).

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 = 1.25									
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	0.65	0.75	0.82	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.59	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.54	0.63	0.70	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.64	0.73	0.79	0.84	0.89	0.93	0.96	0.99	1.02	
	0.30		0.58	0.67	0.74	0.79	0.85	0.89	0.92	0.97	0.99	
	0.20		0.53	0.63	0.70	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.93	0.96	
	0.20		0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.87	0.89	
Rating:45W 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	0.86	0.70	0.59	0.51	0.41	0.33	0.29	0.22	0.18	
	0.30		0.72	0.60	0.52	0.45	0.37	0.31	0.26	0.21	0.17	
	0.20		0.62	0.52	0.46	0.41	0.33	0.28	0.25	0.20	0.16	
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.38	0.35	0.27	0.21	0.17	
	0.30		0.70	0.58	0.50	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		0.61	0.51	0.45	0.40	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.80	0.64	0.54	0.46	0.36	0.30	0.25	0.20	0.16	
	0.30		0.69	0.57	0.48	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.60	0.50	0.44	0.38	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.16	0.13	0.10	
Rating:45W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.11	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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	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	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												