

Report No.: 1

Test Time: 27.09.2019 13:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 595/300 18LED 18W 5000K opal (50)

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 50

Voltage: 221.4 V

Current: 0.095 A

Power: 20.20 W

Power Factor: 0.954

Photometric Results

CIE Class: Direct

Measurement Flux: 2208.1 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2208.1 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.1, 164.8, 165.1, 164.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.5, 113.5, 113.6, 113.6

Luminaire Efficacy Rating (LER): 109.36

Central Intensity: 745.23 cd

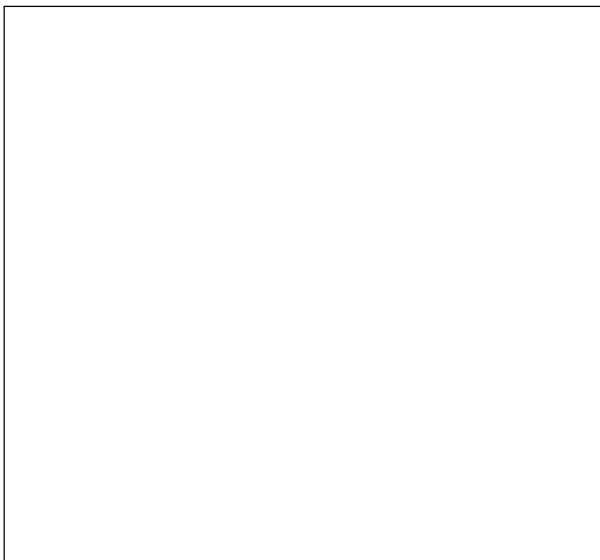
Max. Intensity: 750.33 cd

Pos of Max. Intensity: H292.5 V1

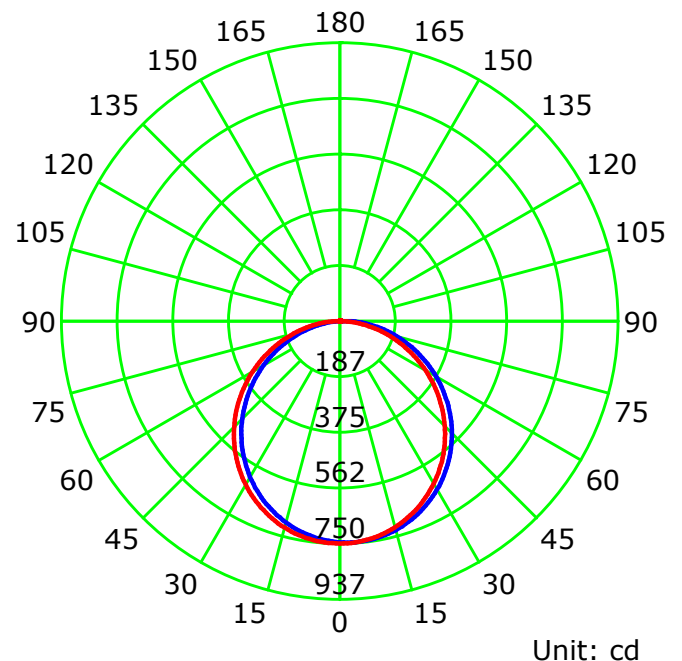
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

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

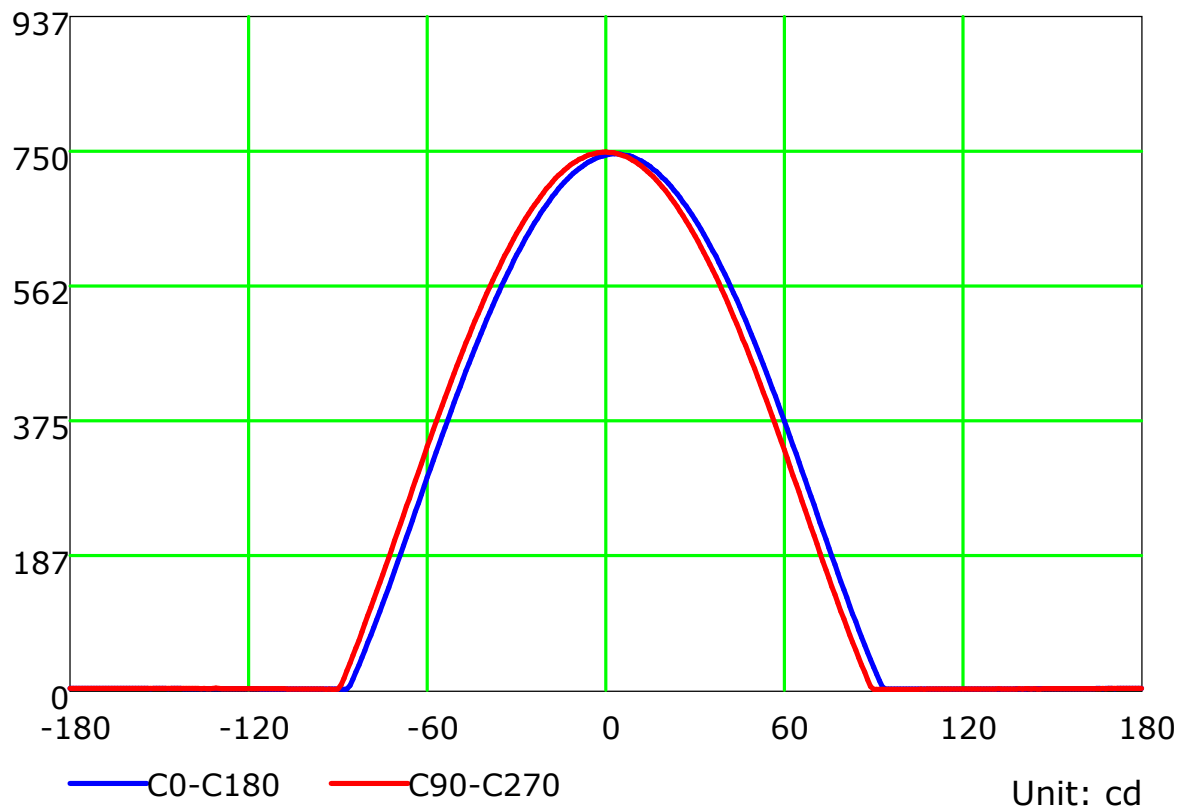
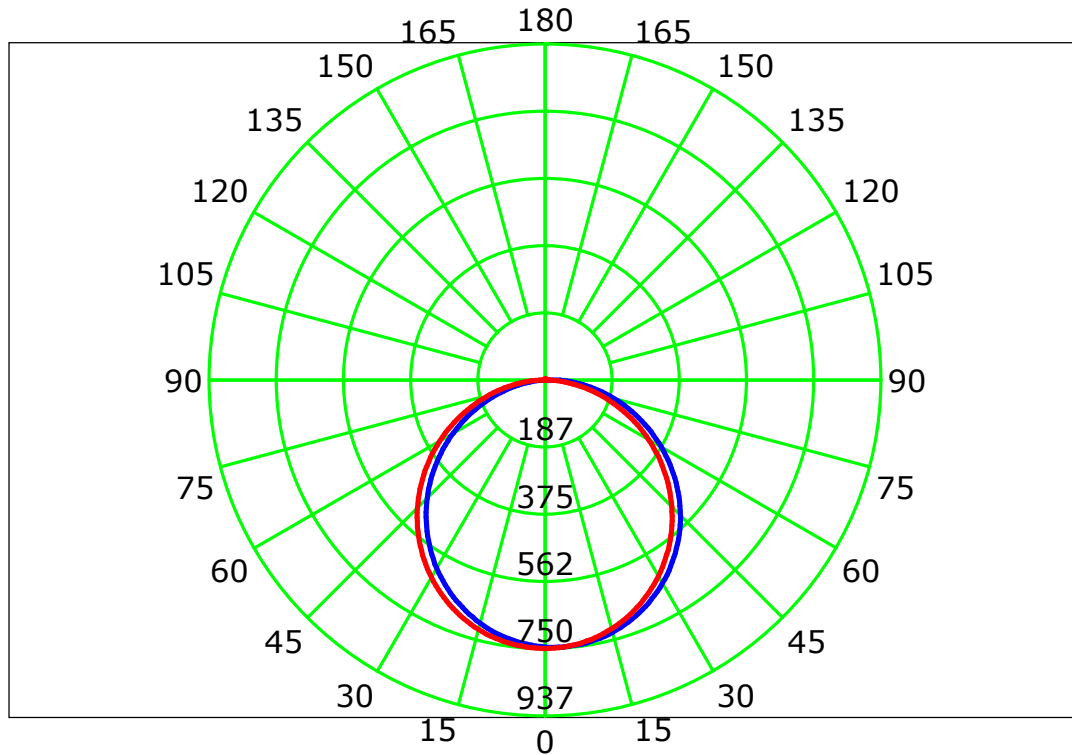
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

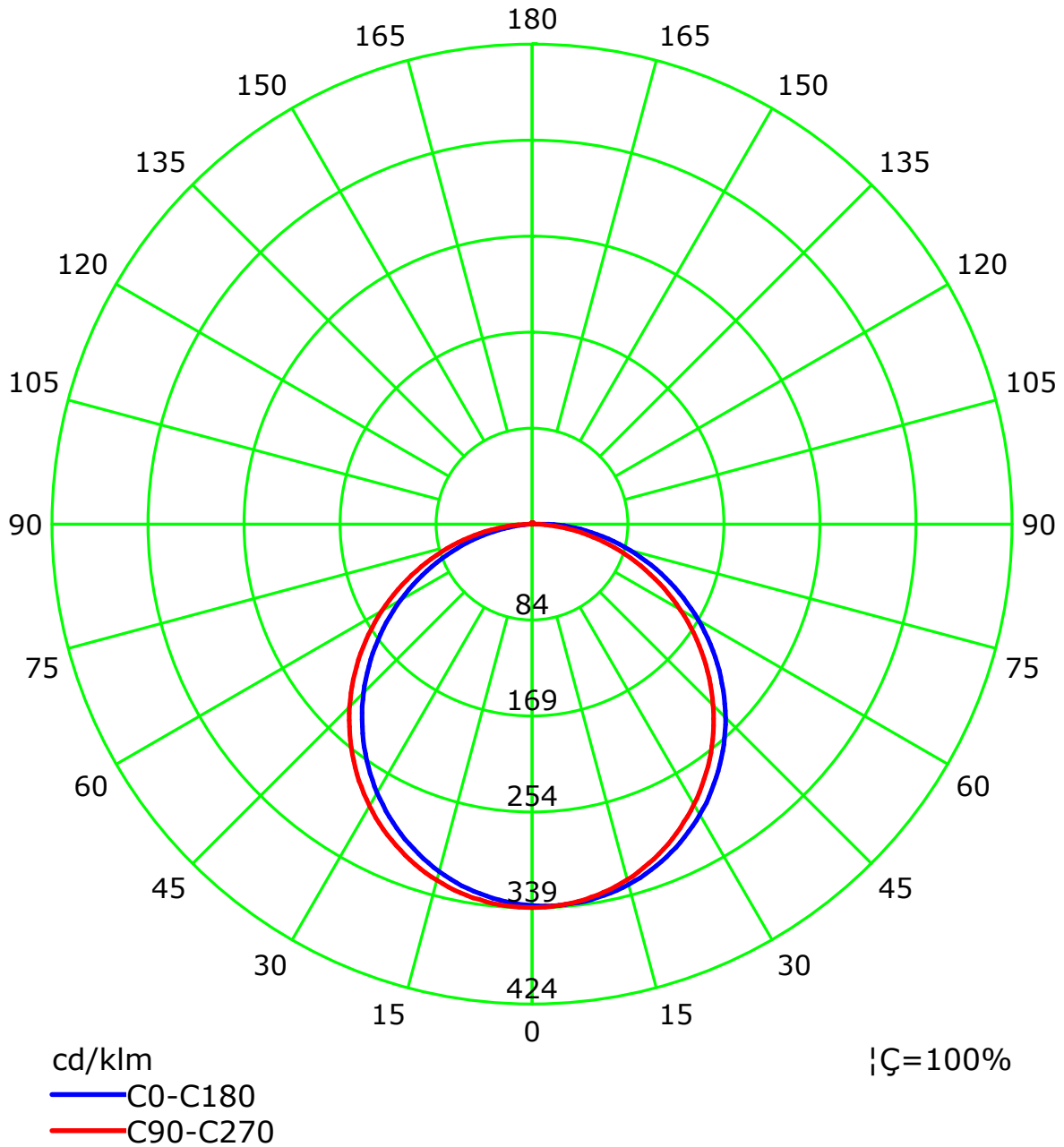
Luminous Intensity Distribution Curve



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)



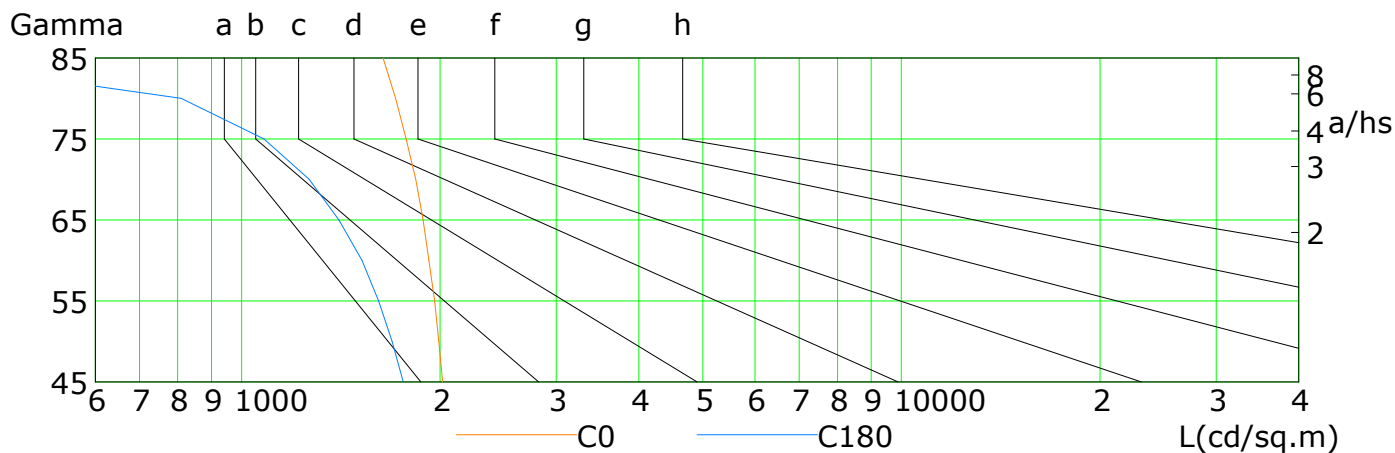
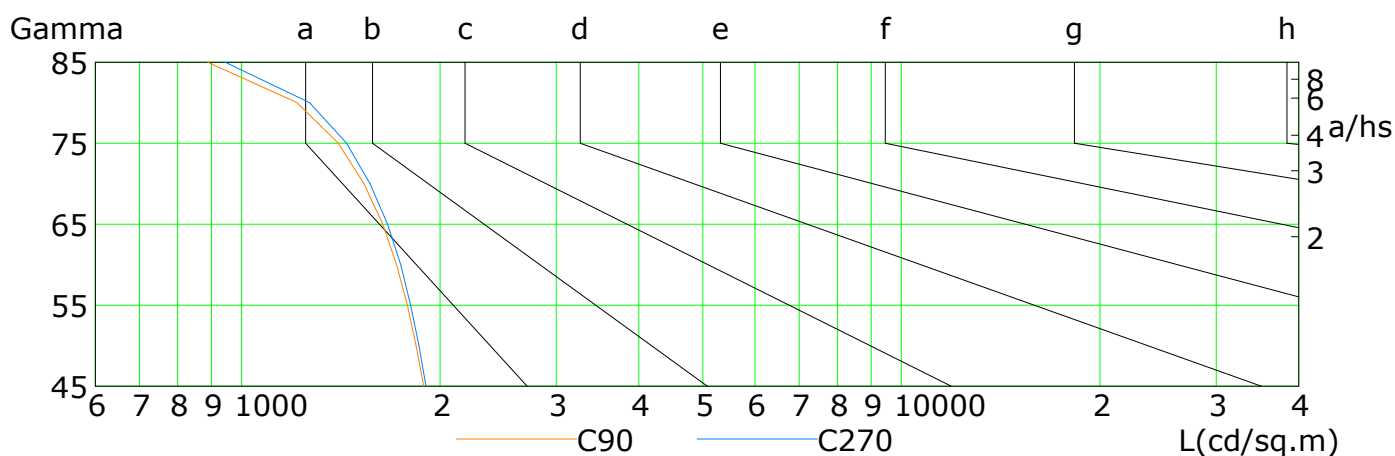
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

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

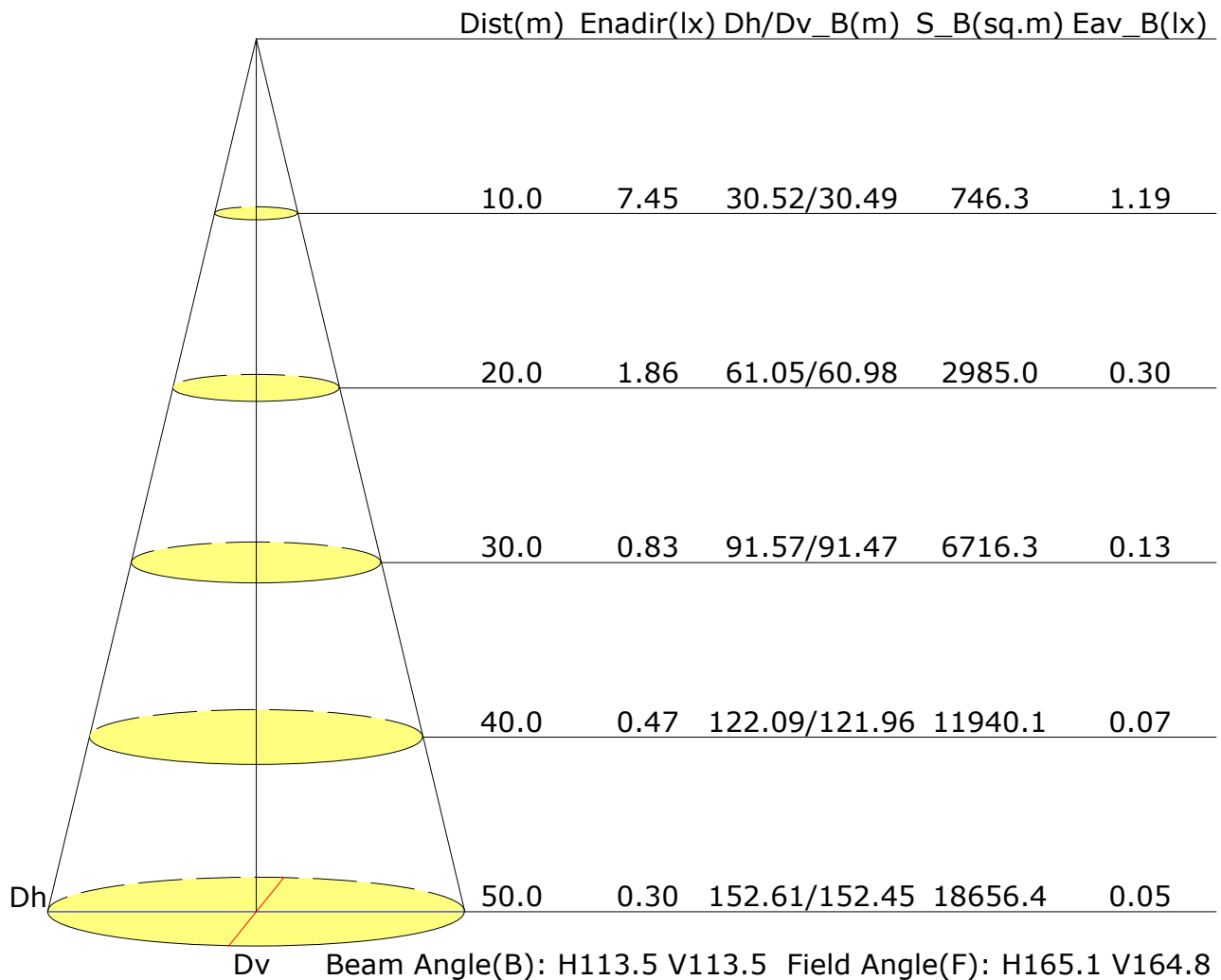


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2018	1990	1961	1923	1885	1836	1775	1712	1639
C90	1888	1839	1785	1717	1637	1532	1402	1214	889
C180	1758	1691	1613	1522	1405	1266	1081	810	306
C270	1903	1857	1803	1742	1664	1565	1442	1268	945

C Plane (°):0.0-360.0: 22.5
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 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	15.1	16.5	15.4	16.8	17.0	14.7	16.1	15.0	16.4	16.6
3H	16.9	18.1	17.2	18.4	18.7	16.3	17.6	16.7	17.9	18.2
4H	17.6	18.9	18.0	19.2	19.5	17.0	18.2	17.3	18.5	18.8
6H	18.3	19.4	18.7	19.8	20.1	17.4	18.6	17.8	18.9	19.2
8H	18.6	19.7	19.0	20.0	20.3	17.6	18.7	18.0	19.0	19.4
12H	18.8	19.8	19.2	20.2	20.5	17.7	18.7	18.1	19.1	19.4
X=4H Y=2H	15.8	17.0	16.1	17.3	17.6	15.5	16.7	15.8	17.0	17.3
3H	17.7	18.8	18.1	19.1	19.5	17.3	18.3	17.7	18.7	19.0
4H	18.6	19.6	19.1	20.0	20.3	18.1	19.0	18.5	19.4	19.8
6H	19.4	20.3	19.9	20.7	21.1	18.7	19.5	19.1	19.9	20.3
8H	19.8	20.6	20.2	21.0	21.4	18.9	19.7	19.3	20.1	20.5
12H	20.1	20.8	20.5	21.2	21.7	19.0	19.7	19.5	20.2	20.6
X=8H Y=4H	19.0	19.7	19.4	20.1	20.6	18.4	19.2	18.9	19.6	20.1
6H	19.9	20.6	20.4	21.0	21.5	19.2	19.9	19.7	20.3	20.8
8H	20.4	20.9	20.9	21.4	21.9	19.6	20.1	20.0	20.6	21.1
12H	20.8	21.3	21.3	21.7	22.3	19.8	20.3	20.3	20.7	21.3
X=12H Y=4H	19.0	19.7	19.5	20.1	20.6	18.5	19.2	19.0	19.6	20.1
6H	20.0	20.6	20.5	21.0	21.5	19.4	19.9	19.8	20.4	20.9
8H	20.5	21.0	21.0	21.5	22.0	19.7	20.2	20.2	20.7	21.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.4/-0.4					+0.4/-0.4				
S=2.0H	+0.5/-0.7					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with $2208lm$ ($8\log(F/F_0) = 2.8$).

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 Test Type: TYPE C
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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 = 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	0.55	0.66	0.73	0.79	0.86	0.91	0.95	0.99	1.02	
	0.30		0.47	0.58	0.66	0.71	0.80	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.87	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.69	0.77	0.83	0.86	0.92	0.95	
	0.20		0.41	0.51	0.59	0.64	0.73	0.78	0.83	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.63	0.71	0.77	0.80	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.68	0.73	0.76	0.81	0.84	
Rating:20W 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	1.01	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.56	0.46	0.38	0.33	0.26	0.22	
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:20W 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	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	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	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
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:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												