

Report No.: 1

Test Time: 15.02.2019 12:48

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FG 55 48LED 0,35A 55Wx2 5000K

Lamp Description: LED

Number of Lamps: 1

Lumens per Lamp: 15676.2 lm

Luminous Length (mm): 55 mm

Luminous Width (mm): 1245 mm

Luminous Height (mm): 90 mm

Voltage: 222.2 V

Current: 0.489 A

Power: 108.15 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 15676.2 lm

Measurement Flux: 15668.4 lm

Efficiency: 99.95%

Downward Ratio: 98.80%

Upward Ratio: 1.15%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.7, 156.5, 149.8, 148.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.5, 123.5, 115.5, 115.4

Luminaire Efficacy Rating (LER): 144.93

Central Intensity: 5341.88 cd

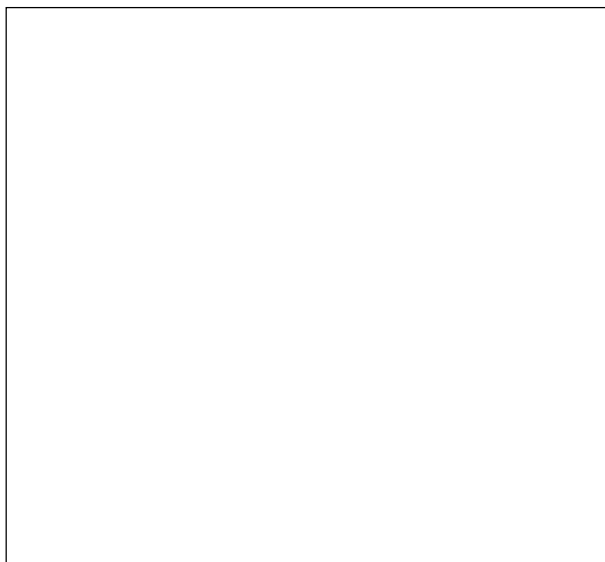
Max. Intensity: 5372.4 cd

Pos of Max. Intensity: H292.5 V5

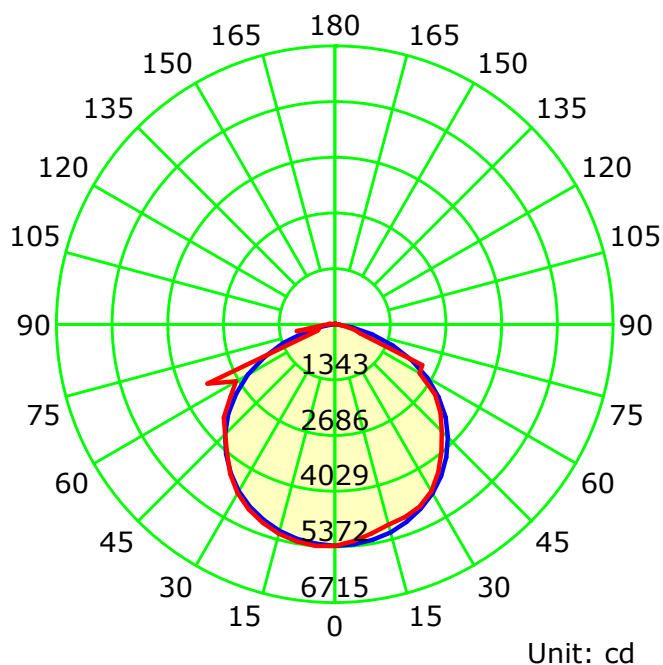
S/MH(C0/C180): 1.30

S/MH(C90/C270): 1.29

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:5.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.654 m

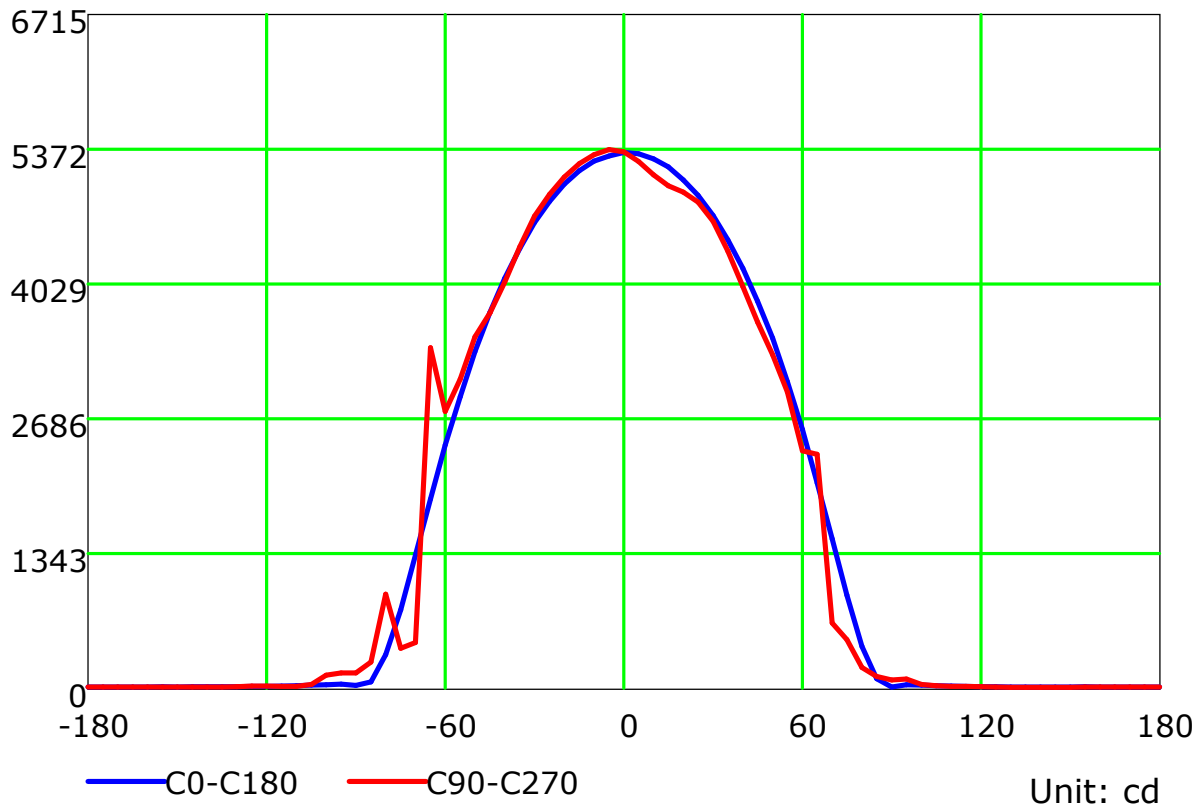
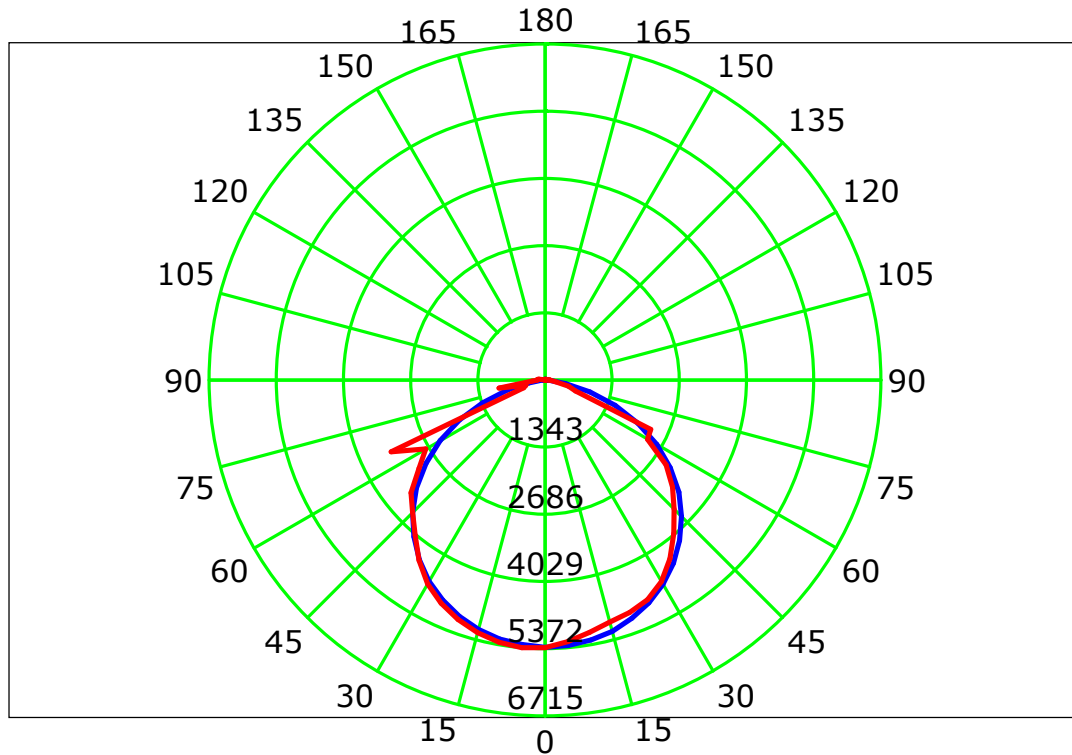
Temperature:

Humidity:

Operator:

Inspector:

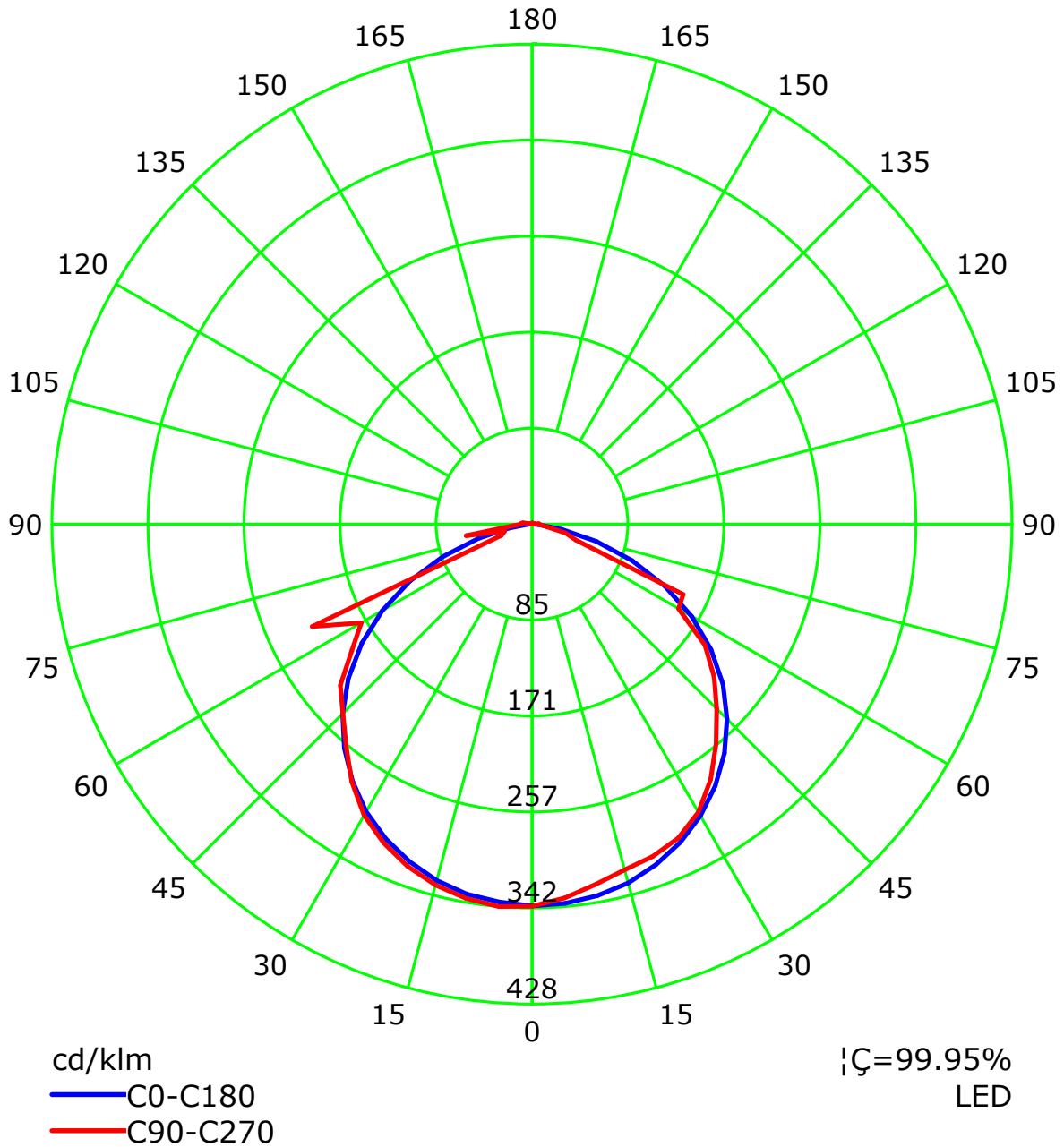
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 m
Humidity:
Inspector:

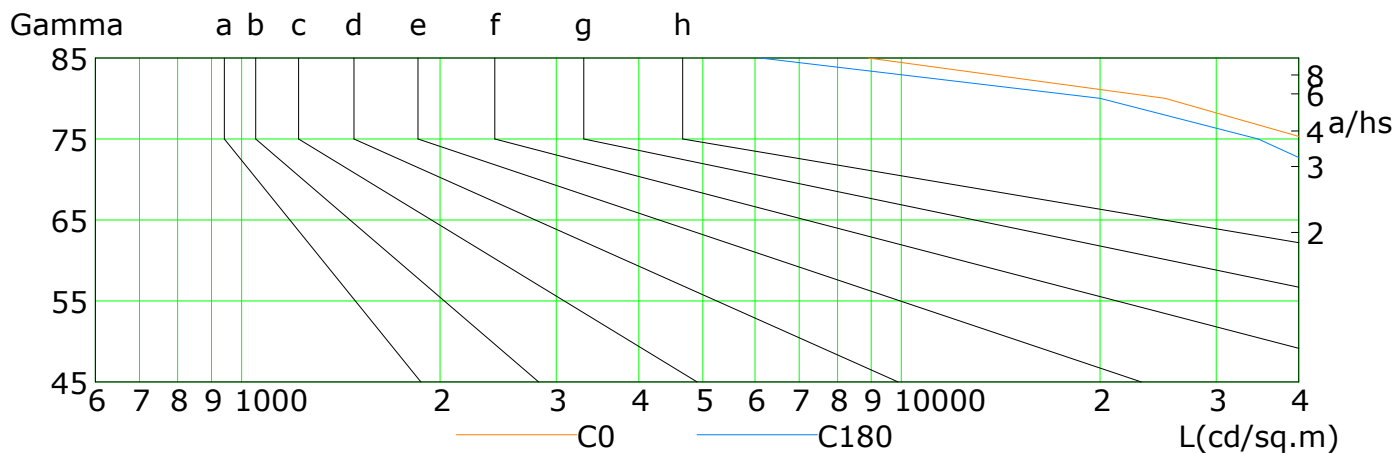
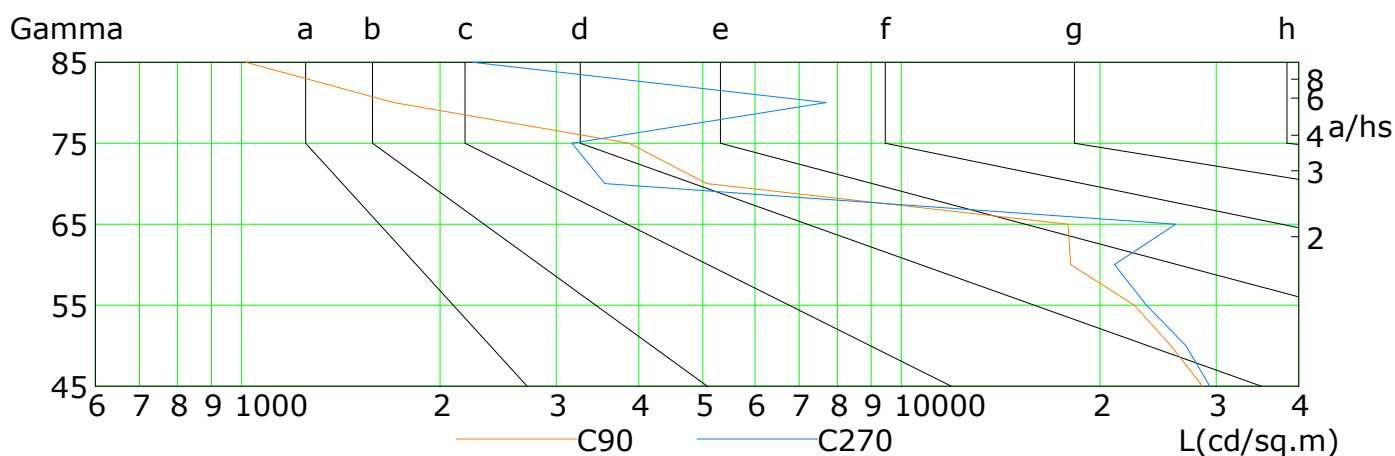
Luminous Intensity Distribution Curve(cd/klm)



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

a b c d e f g h

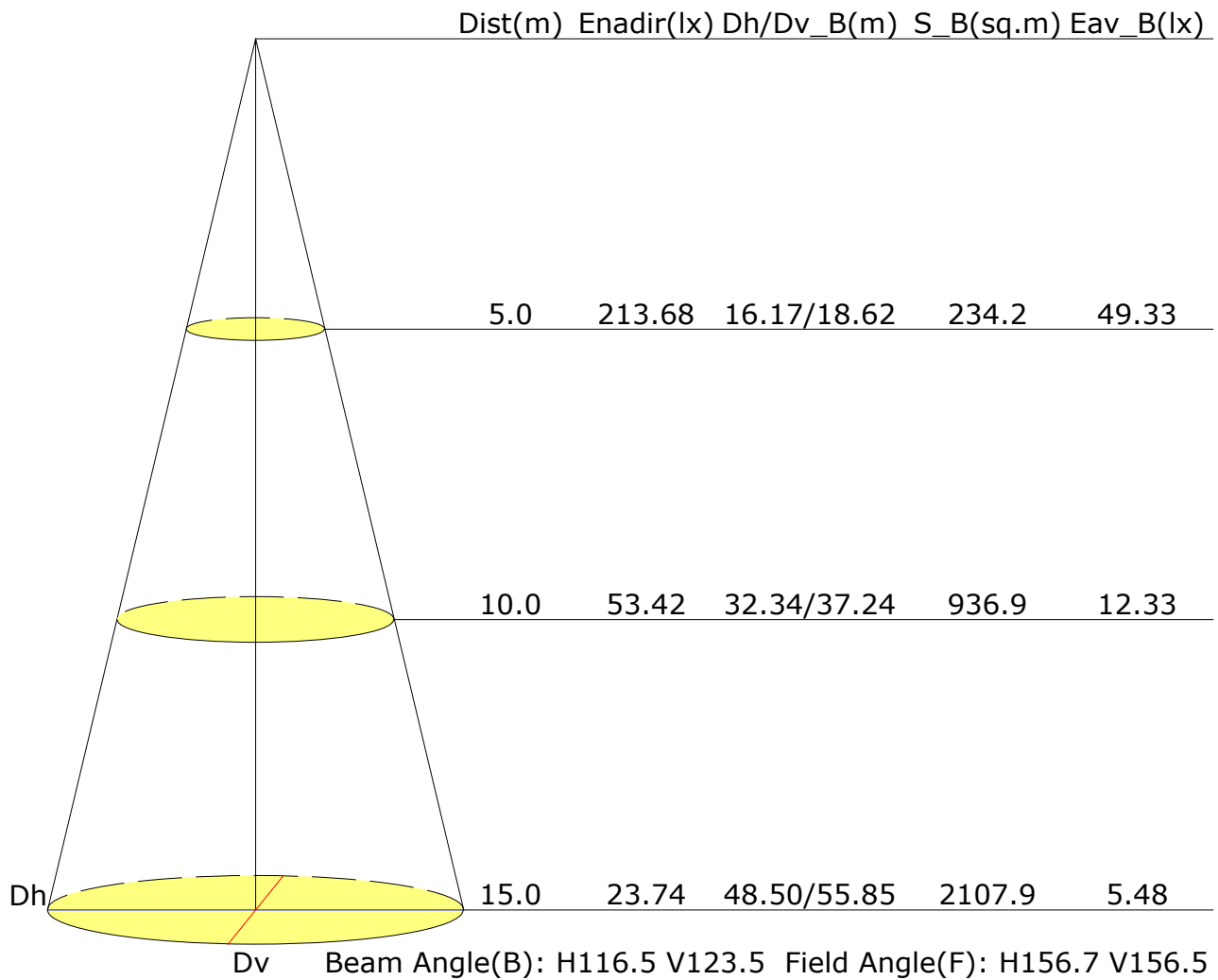


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	74344	73014	70550	67049	61347	53128	41377	25097	8902
C90	28608	25611	22548	18046	17881	5070	3868	1702	1015
C180	72206	70223	67102	62961	56418	47299	34749	20001	6111
C270	29337	26995	23521	21038	26023	3555	3168	7685	2238

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

Gamma Plane (°):0.0-180.0:5.0
 Test Device: LSG-1800B
 Distance: 12.654 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	25.9	27.3	26.2	27.5	27.8	24.0	25.3	24.3	25.6	25.8
3H	27.2	28.5	27.6	28.7	29.0	24.8	26.0	25.1	26.3	26.6
4H	27.7	28.8	28.0	29.1	29.5	24.8	26.0	25.2	26.3	26.6
6H	27.9	29.0	28.3	29.3	29.7	24.9	26.0	25.3	26.3	26.6
8H	27.9	29.0	28.3	29.3	29.7	24.9	26.0	25.3	26.3	26.7
12H	27.9	28.9	28.3	29.3	29.6	24.9	25.9	25.3	26.3	26.6
X=4H Y=2H	26.2	27.3	26.5	27.6	28.0	24.6	25.8	25.0	26.1	26.4
3H	27.6	28.6	28.0	28.9	29.3	25.5	26.5	25.9	26.9	27.2
4H	28.1	29.0	28.5	29.4	29.8	25.6	26.5	26.0	26.9	27.3
6H	28.4	29.2	28.9	29.6	30.1	25.7	26.5	26.2	26.9	27.3
8H	28.5	29.2	28.9	29.6	30.1	25.8	26.5	26.2	26.9	27.4
12H	28.5	29.1	29.0	29.6	30.0	25.8	26.4	26.2	26.9	27.3
X=8H Y=4H	28.1	28.8	28.5	29.2	29.7	25.7	26.4	26.1	26.8	27.3
6H	28.5	29.0	29.0	29.5	30.0	25.9	26.5	26.4	26.9	27.4
8H	28.6	29.1	29.1	29.5	30.0	26.0	26.5	26.5	26.9	27.5
12H	28.6	29.0	29.1	29.5	30.0	26.0	26.4	26.5	26.9	27.4
X=12H Y=4H	28.1	28.7	28.5	29.2	29.6	25.7	26.3	26.1	26.8	27.2
6H	28.4	29.0	28.9	29.4	29.9	25.9	26.4	26.4	26.9	27.4
8H	28.5	29.0	29.1	29.5	30.0	26.0	26.4	26.5	26.9	27.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.4/-0.5				
S=1.5H	+0.7/-0.8					+1.1/-0.6				
S=2.0H	+1.5/-1.8					+1.5/-2.6				

Calculate in accordance with CIE Pub.117. The table is revised with 15676lm ($8\log(F/F_0) = 9.6$).

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

Gamma Plane (°):0.0-180.0:5.0
 Test Device: LSG-1800B
 Distance: 12.654 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	0.56	0.67	0.75	0.80	0.88	0.93	0.96	1.01	1.04	
	0.30		0.48	0.59	0.67	0.73	0.82	0.87	0.91	0.97	1.00	
	0.20		0.43	0.53	0.62	0.68	0.77	0.83	0.87	0.93	0.97	
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.97	0.99	
	0.30		0.47	0.58	0.66	0.71	0.79	0.85	0.88	0.93	0.96	
	0.20		0.42	0.53	0.61	0.67	0.75	0.81	0.85	0.90	0.94	
0.30	0.50	0.20	0.53	0.63	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.47	0.57	0.64	0.70	0.77	0.82	0.86	0.90	0.93	
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.88	0.91	
0.00	0.00	0.00	0.40	0.50	0.57	0.62	0.70	0.75	0.78	0.83	0.86	
Rating:108W 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	1.00	0.82	0.69	0.60	0.47	0.39	0.33	0.26	0.21	
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.72	0.61	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.96	0.79	0.66	0.57	0.45	0.41	0.32	0.24	0.20	
	0.30		0.81	0.68	0.59	0.51	0.41	0.34	0.30	0.23	0.19	
	0.20		0.71	0.60	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
0.30	0.50	0.20	0.93	0.76	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.80	0.67	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.20		0.70	0.59	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.60	0.50	0.42	0.37	0.29	0.24	0.21	0.16	0.13	
Rating:108W 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	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	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	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	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	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	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:108W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												