

Report No.:

Test Time: 27.02.2020 21:09

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 50 30W 5000K прозрачный IP65 Ex

Luminous Length (mm): 940

Luminous Width (mm): 60

Luminous Height (mm): 80

Voltage: 229.2 V

Current: 0.136 A

Power: 30.52 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 2568.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 2568.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.2, 117.0, 132.2, 133.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.0, 109.4, 113.4, 114.0

Luminaire Efficacy Rating (LER): 84.22

Central Intensity: 998.88 cd

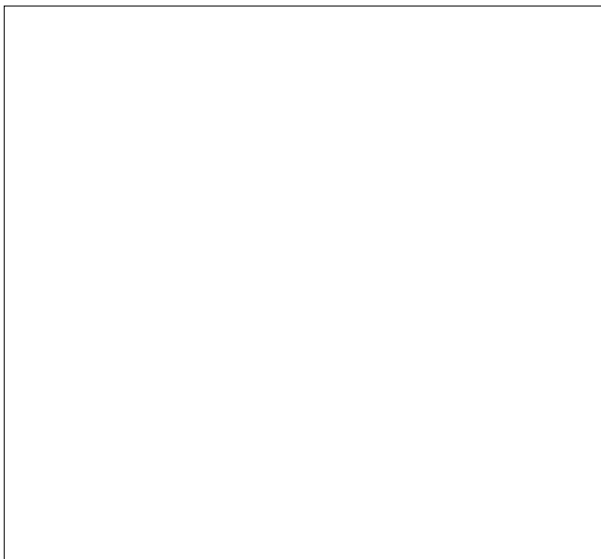
Max. Intensity: 1002.15 cd

Pos of Max. Intensity: H292.5 V4

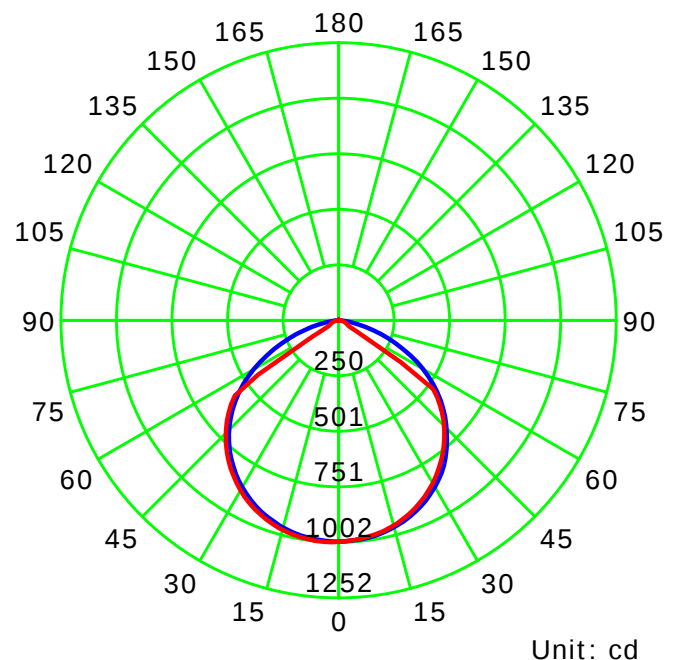
S/MH(C0/C180): 1.29

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

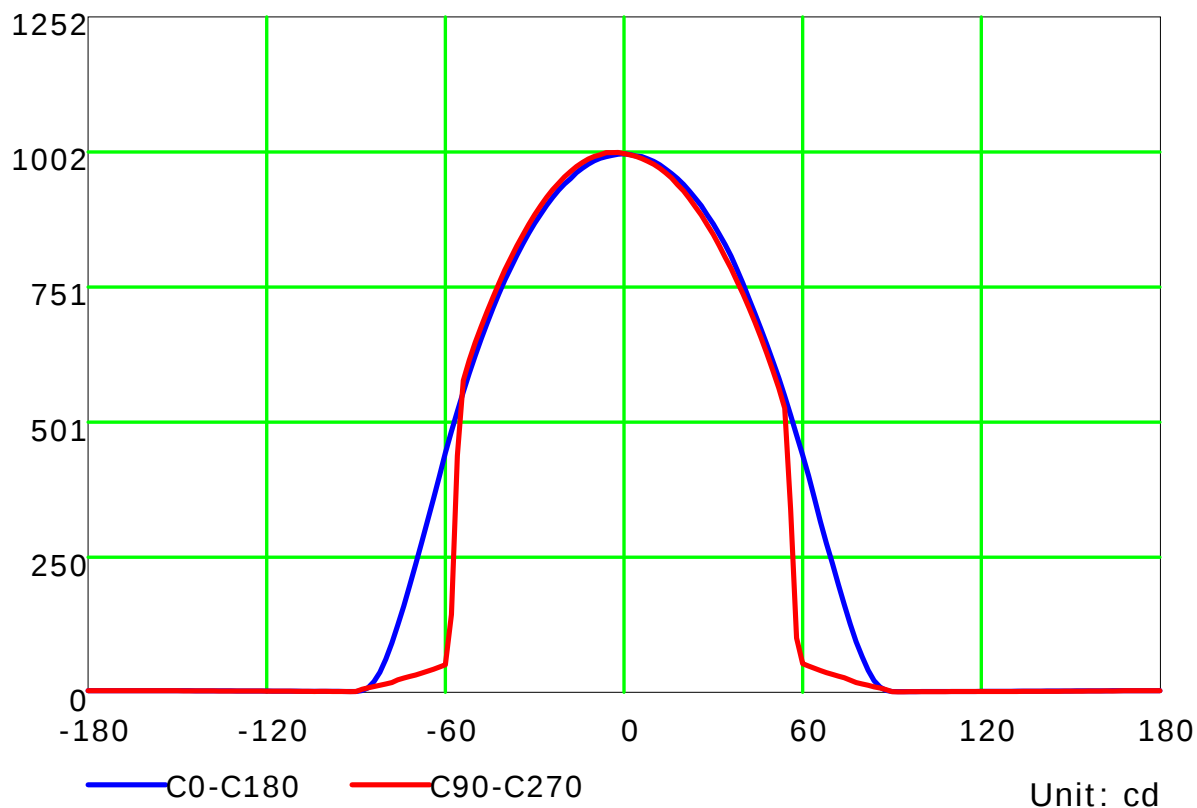
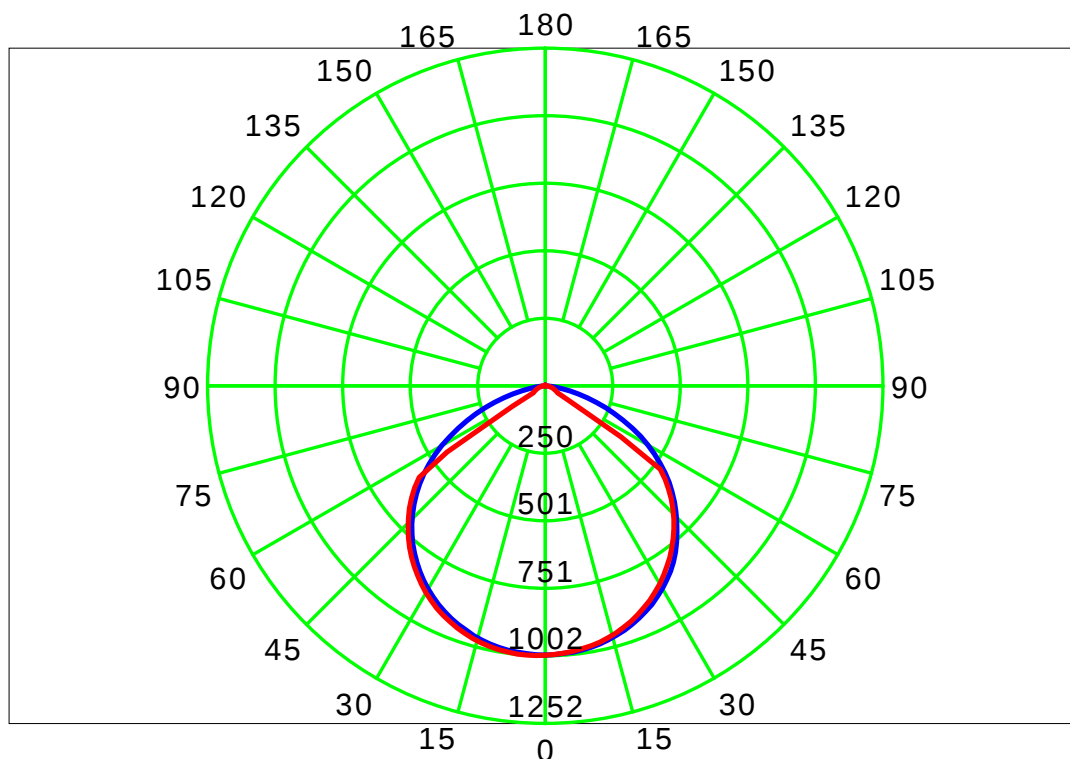
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

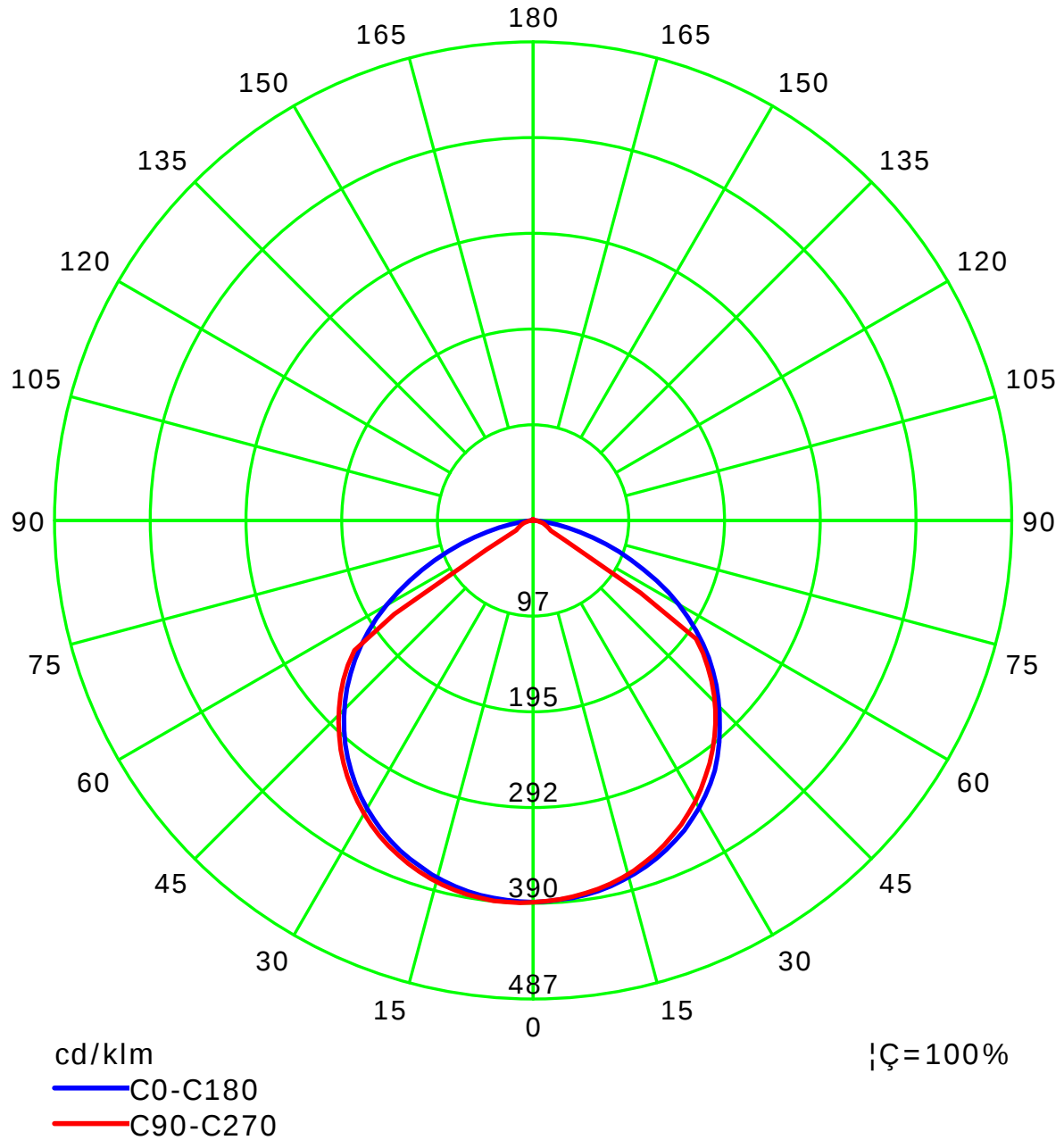
Luminous Intensity Distribution Curve



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

Gamma Plane (°): 0.0-180.0: 2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

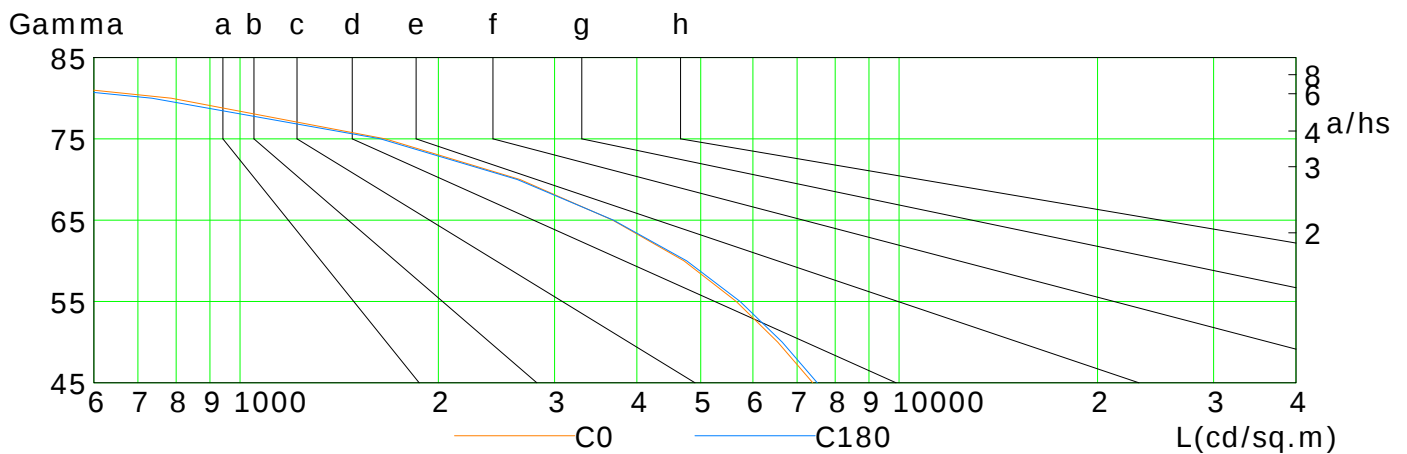
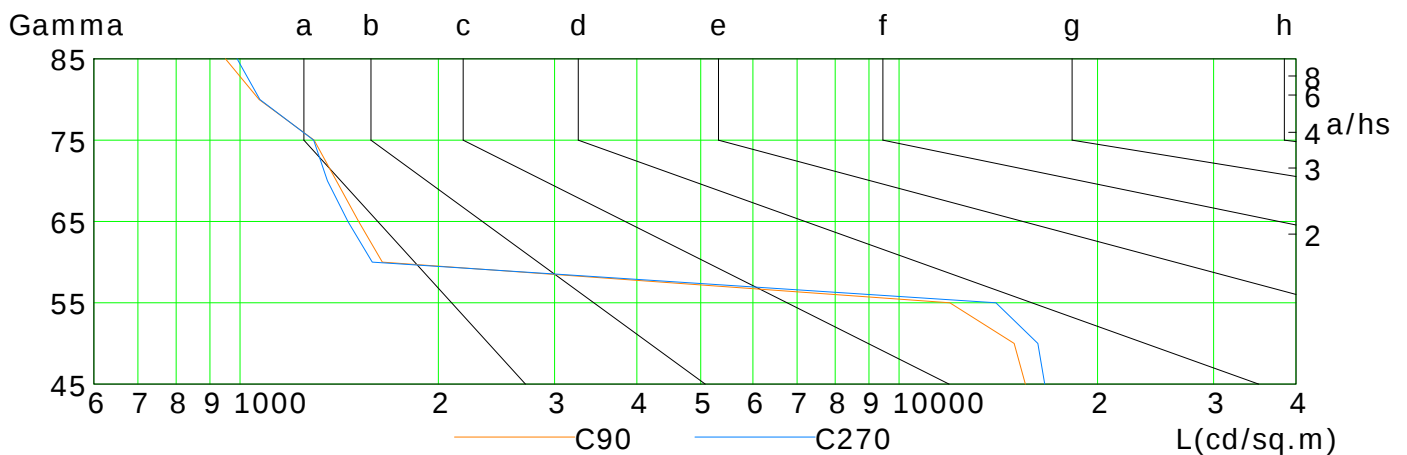
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7396	6543	5660	4716	3675	2659	1661	787	199
C90	15543	14949	11934	1644	1514	1400	1296	1069	950
C180	7512	6648	5738	4761	3686	2634	1634	735	178
C270	16633	16239	14024	1587	1458	1357	1293	1072	990

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

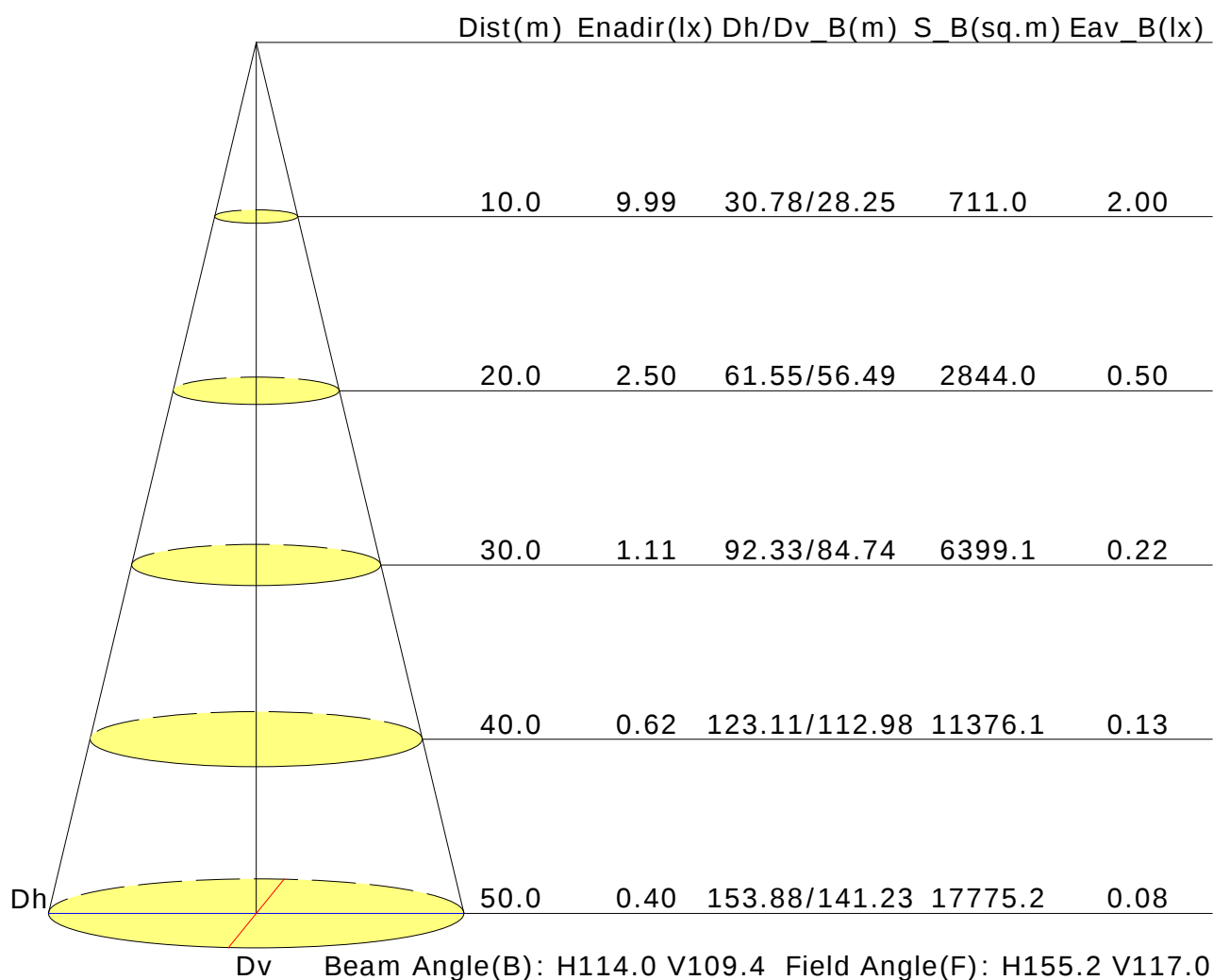
Test Device: LSG-1800B

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	19.1	20.4	19.4	20.6	20.9	19.3	20.6	19.6	20.9	21.1
3H	19.9	21.1	20.3	21.4	21.6	19.2	20.4	19.5	20.6	20.9
4H	20.1	21.2	20.5	21.5	21.8	19.2	20.2	19.5	20.5	20.8
6H	20.1	21.1	20.5	21.5	21.8	19.1	20.1	19.5	20.4	20.7
8H	20.1	21.1	20.5	21.4	21.7	19.1	20.0	19.4	20.4	20.7
12H	20.1	21.0	20.5	21.3	21.7	19.0	20.0	19.4	20.3	20.6
X=4H Y=2H	19.4	20.5	19.8	20.8	21.1	19.5	20.6	19.9	20.9	21.2
3H	20.3	21.2	20.7	21.5	21.9	19.4	20.3	19.8	20.7	21.0
4H	20.5	21.3	20.9	21.7	22.1	19.4	20.2	19.8	20.6	20.9
6H	20.5	21.3	21.0	21.7	22.1	19.3	20.1	19.8	20.5	20.9
8H	20.5	21.2	21.0	21.6	22.0	19.3	20.0	19.8	20.4	20.8
12H	20.5	21.1	21.0	21.5	22.0	19.3	19.9	19.8	20.3	20.8
X=8H Y=4H	20.4	21.1	20.9	21.5	21.9	19.3	20.0	19.8	20.4	20.8
6H	20.5	21.0	20.9	21.4	21.9	19.3	19.8	19.8	20.3	20.7
8H	20.5	20.9	20.9	21.4	21.9	19.3	19.7	19.8	20.2	20.7
12H	20.4	20.8	20.9	21.3	21.8	19.3	19.7	19.8	20.1	20.7
X=12H Y=4H	20.4	21.0	20.9	21.4	21.9	19.3	19.9	19.8	20.3	20.8
6H	20.4	20.9	20.9	21.4	21.8	19.3	19.7	19.8	20.2	20.7
8H	20.4	20.8	20.9	21.3	21.8	19.3	19.7	19.8	20.1	20.6
Variations with the observer position at spacings:										
S=1.0H	+0.1/-0.3					+0.8/-1.4				
S=1.5H	+0.7/-1.4					+2.8/-9.4				
S=2.0H	+1.1/-2.3					+4.4/-11.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2569lm ($8\log(F/F_0) = 3.3$).

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	0.61	0.72	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.89	0.93	0.96	1.00	1.02	
	0.30		0.53	0.64	0.72	0.77	0.84	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.81	0.86	0.89	0.95	0.98	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.96	
	0.20		0.47	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.45	0.56	0.63	0.69	0.75	0.80	0.83	0.87	0.90	
Rating:31W 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	0.95	0.76	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	0.22	0.18	
	0.20		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.91	0.73	0.61	0.52	0.41	0.37	0.28	0.22	0.17	
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.89	0.70	0.58	0.50	0.39	0.32	0.27	0.20	0.17	
	0.30		0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.56	0.45	0.37	0.32	0.25	0.21	0.18	0.13	0.11	
Rating:31W 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	0.18	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		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.16	0.17	0.18	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	0.18	0.19	0.19	0.19	0.20	0.20
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	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:31W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											