

Report No.: 1

Test Time: 25.11.2019 10:29

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FL 1500 2x60 LED 0,32A 32W 4000K microprisma ID

Luminous Length (mm): 1500

Luminous Width (mm): 115

Luminous Height (mm): 94

Voltage: 221.1 V

Current: 0.138 A

Power: 29.93 W

Power Factor: 0.974

Photometric Results

CIE Class: Direct

Measurement Flux: 2909.9 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 2909.9 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.8, 139.1, 135.8, 134.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.5, 71.1, 71.7, 70.8

Luminaire Efficacy Rating (LER): 97.27

Central Intensity: 1655.34 cd

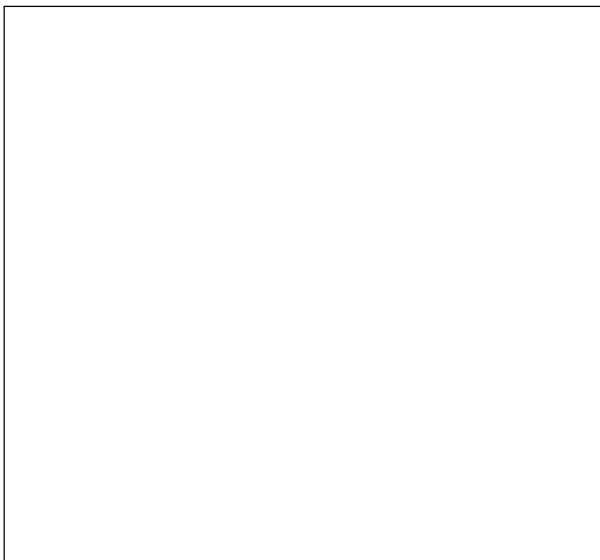
Max. Intensity: 1669.74 cd

Pos of Max. Intensity: H90 V2

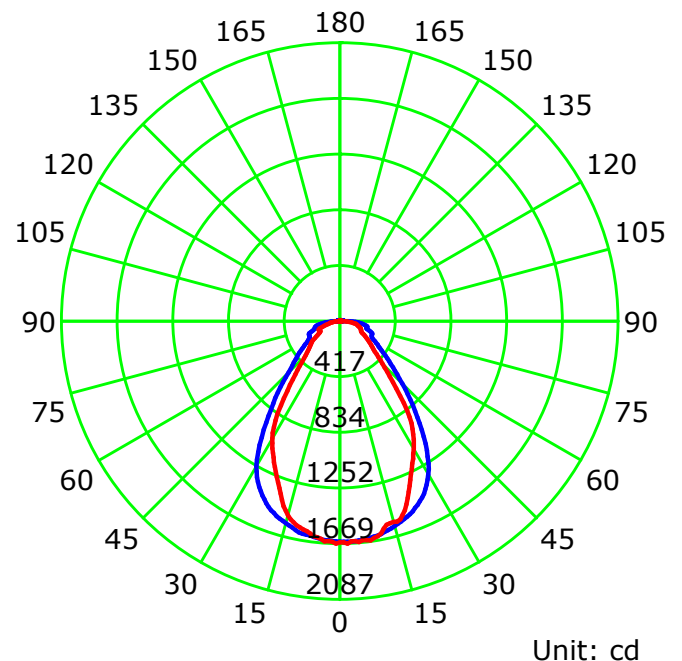
S/MH(C0/C180): 1.16

S/MH(C90/C270): 1.01

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

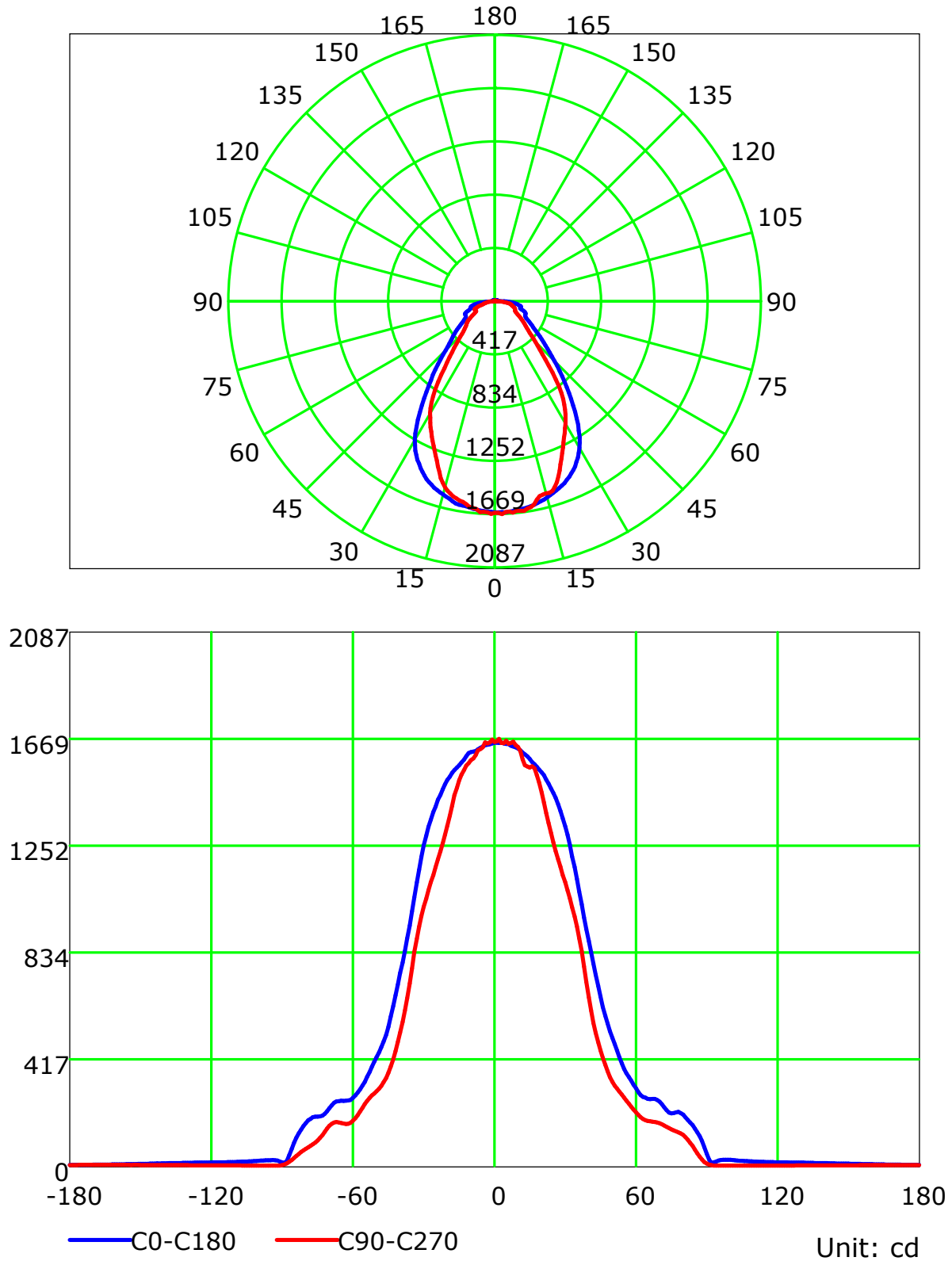
Temperature:

Humidity:

Operator:

Inspector:

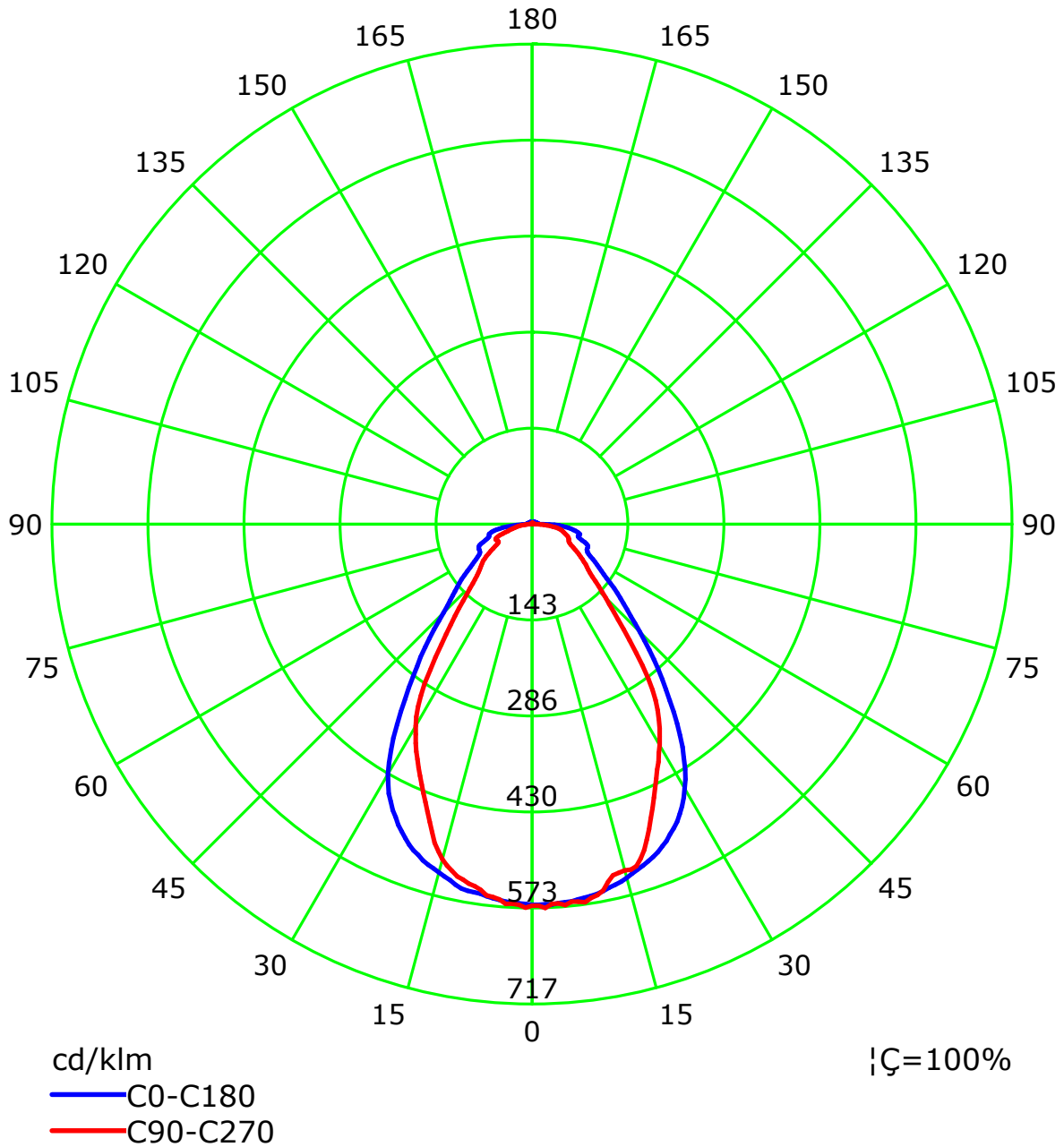
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
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)

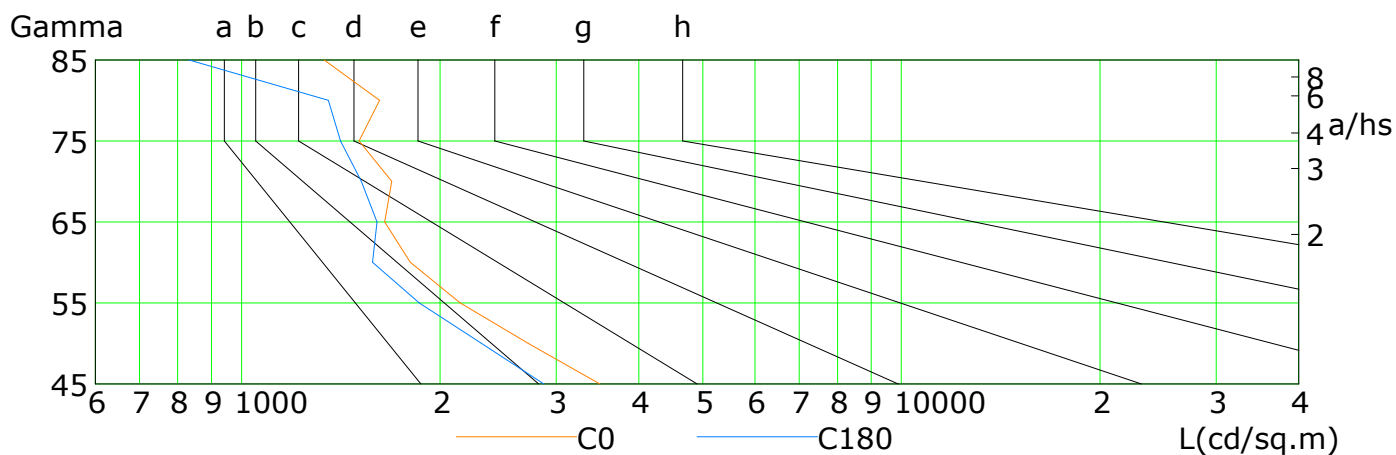
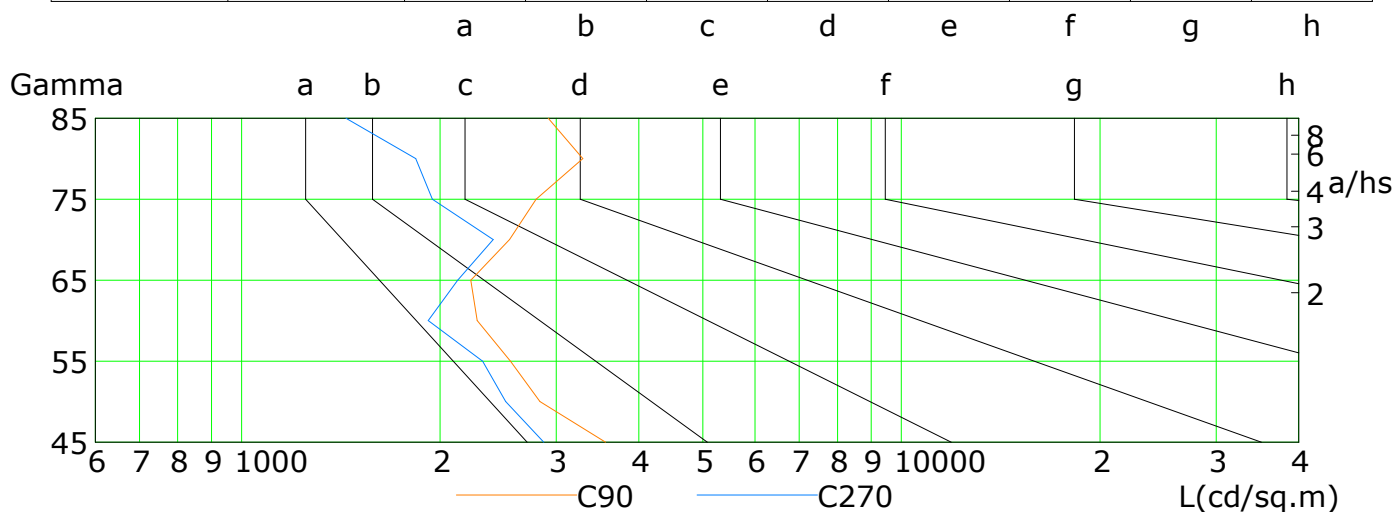


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

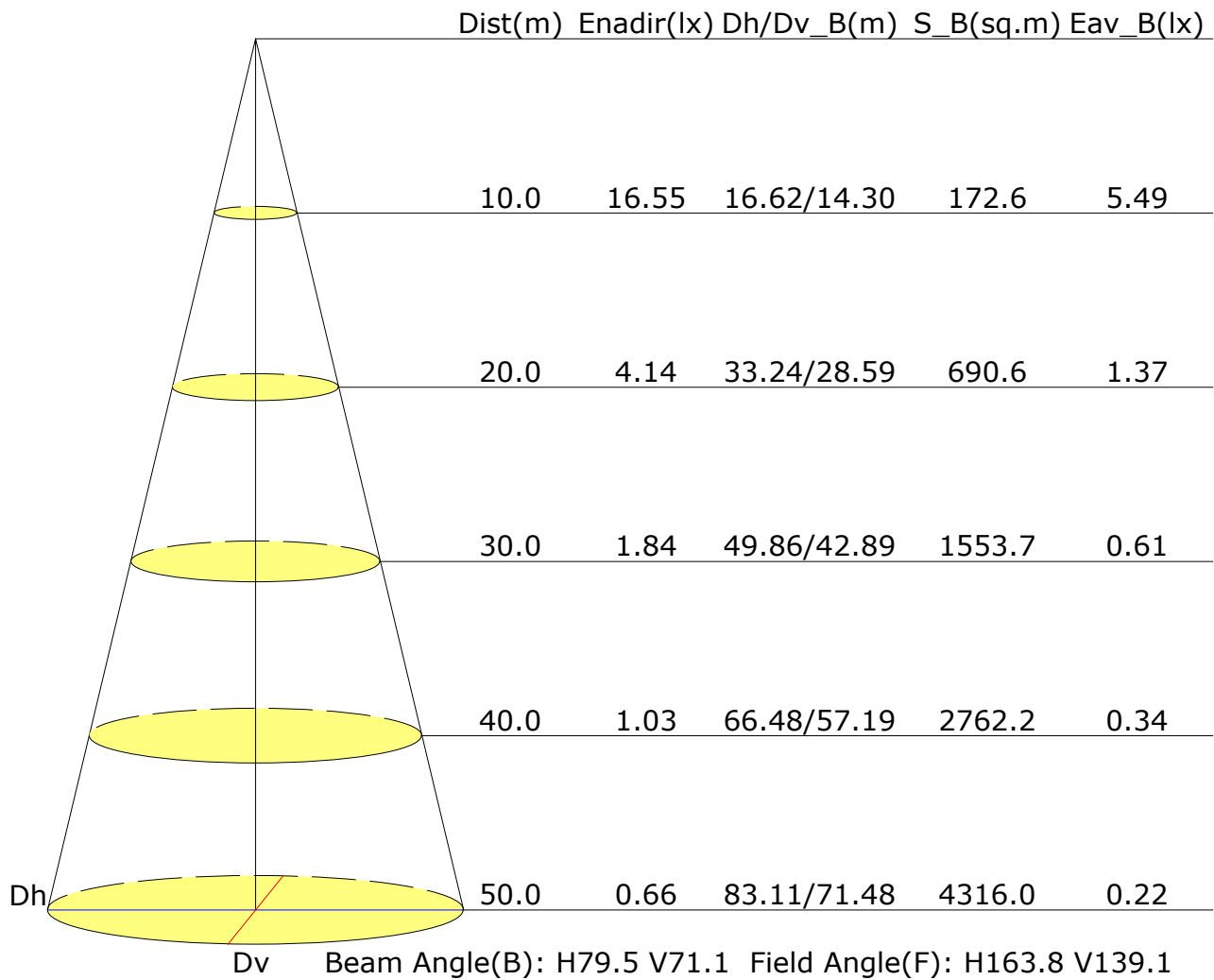


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3491	2717	2144	1801	1648	1689	1507	1618	1335
C90	3562	2833	2556	2275	2225	2547	2793	3288	2915
C180	2871	2309	1859	1579	1604	1520	1412	1353	832
C270	2870	2514	2320	1919	2125	2406	1945	1836	1439

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	14.7	15.9	15.0	16.2	16.4	13.7	14.9	14.0	15.2	15.4
3H	15.9	17.0	16.3	17.3	17.6	15.1	16.1	15.4	16.4	16.7
4H	16.6	17.6	16.9	17.9	18.2	15.8	16.8	16.2	17.1	17.5
6H	17.3	18.3	17.7	18.6	19.0	16.5	17.5	16.9	17.8	18.2
8H	17.7	18.6	18.1	19.0	19.3	16.9	17.8	17.3	18.1	18.5
12H	18.0	18.9	18.4	19.2	19.6	17.1	18.0	17.5	18.3	18.7
X=4H Y=2H	15.0	16.0	15.3	16.3	16.6	14.1	15.1	14.5	15.4	15.8
3H	16.4	17.3	16.8	17.6	18.0	15.7	16.5	16.1	16.9	17.3
4H	17.2	18.0	17.6	18.4	18.8	16.5	17.3	17.0	17.7	18.1
6H	18.2	18.9	18.6	19.3	19.8	17.4	18.1	17.9	18.5	19.0
8H	18.7	19.3	19.1	19.7	20.2	17.8	18.4	18.3	18.9	19.3
12H	19.1	19.6	19.5	20.1	20.6	18.1	18.7	18.6	19.1	19.6
X=8H Y=4H	17.4	18.0	17.8	18.5	18.9	16.8	17.4	17.2	17.8	18.3
6H	18.5	19.0	19.0	19.5	20.0	17.7	18.3	18.2	18.7	19.2
8H	19.1	19.6	19.6	20.0	20.6	18.2	18.7	18.7	19.2	19.7
12H	19.6	20.0	20.1	20.5	21.1	18.6	19.0	19.1	19.5	20.1
X=12H Y=4H	17.4	18.0	17.9	18.4	18.9	16.8	17.4	17.3	17.8	18.3
6H	18.6	19.0	19.1	19.5	20.0	17.8	18.3	18.3	18.8	19.3
8H	19.2	19.6	19.7	20.1	20.6	18.3	18.7	18.8	19.2	19.8
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.4/-0.4				
S=1.5H	+0.6/-0.9					+0.6/-0.9				
S=2.0H	+1.3/-1.2					+1.4/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 2910lm ($8\log(F/F_0) = 3.7$).

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 = 1.00									
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	0.74	0.80	0.85	0.91	0.95	0.98	1.02	1.04	
	0.30		0.58	0.67	0.74	0.78	0.85	0.90	0.93	0.98	1.01	
	0.20		0.53	0.62	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
0.50	0.50	0.20	0.63	0.72	0.78	0.82	0.87	0.91	0.94	0.97	1.00	
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.97	
	0.20		0.53	0.62	0.68	0.72	0.79	0.84	0.87	0.92	0.95	
0.30	0.50	0.20	0.62	0.70	0.75	0.79	0.84	0.88	0.90	0.94	0.96	
	0.30		0.57	0.65	0.71	0.75	0.81	0.84	0.87	0.91	0.94	
	0.20		0.53	0.61	0.67	0.71	0.77	0.82	0.85	0.89	0.92	
0.00	0.00	0.00	0.50	0.58	0.64	0.68	0.74	0.78	0.80	0.84	0.86	
Rating:30W 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 = 1.00									
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	0.71	0.61	0.53	0.42	0.35	0.30	0.24	0.20	
	0.30		0.72	0.61	0.53	0.47	0.38	0.33	0.28	0.22	0.19	
	0.20		0.62	0.53	0.47	0.42	0.35	0.30	0.26	0.21	0.18	
0.50	0.50	0.20	0.82	0.68	0.58	0.50	0.40	0.37	0.29	0.22	0.18	
	0.30		0.70	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.60	0.52	0.46	0.41	0.34	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.79	0.64	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
	0.20		0.59	0.51	0.44	0.40	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.48	0.40	0.34	0.30	0.25	0.21	0.18	0.14	0.12	
Rating:30W 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 = 1.00									
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	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating:30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												