



000 "FAROS"

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Report No.: 2

Test Time: 04.12.2017 10:17

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FP 150 75W 5000K 90x90gr. NEMA

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 231.7 V

Power: 75.58 W

Luminous Length (mm): 496

Luminous Height (mm): 80

Current: 0.337 A

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Measurement Flux: 9072.7 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.5, 114.1, 123.1, 123.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.3, 81.8, 89.8, 89.9

Luminaire Efficacy Rating (LER): 120.09

Max. Intensity: 5448.11 cd

S/MH(C0/C180): 1.47

Total Rated Lamp Lumens: 9072.7 lm

Efficiency: 100%

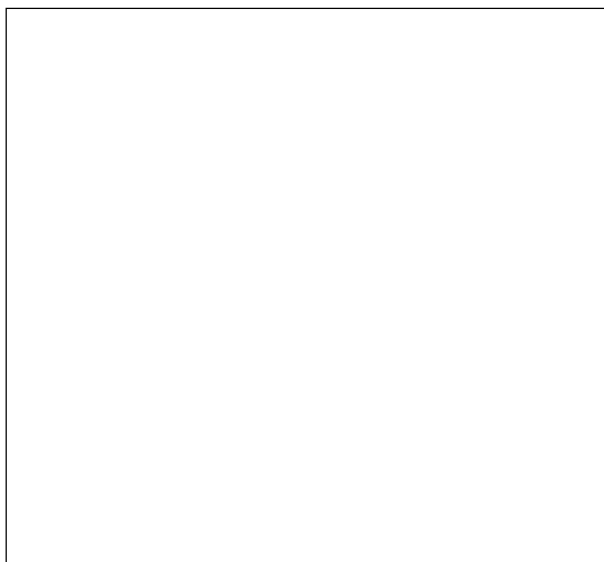
Upward Ratio: 0%

Central Intensity: 3699.32 cd

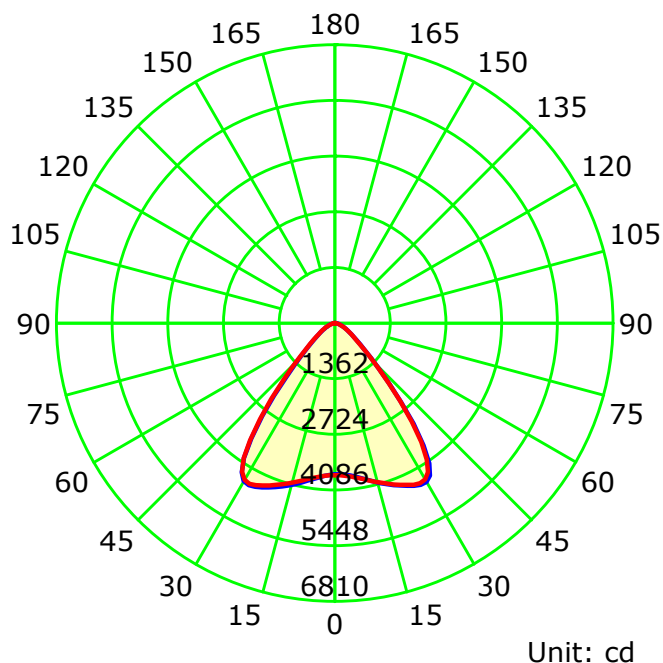
Pos of Max. Intensity: H135 V34

S/MH(C90/C270): 1.46

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

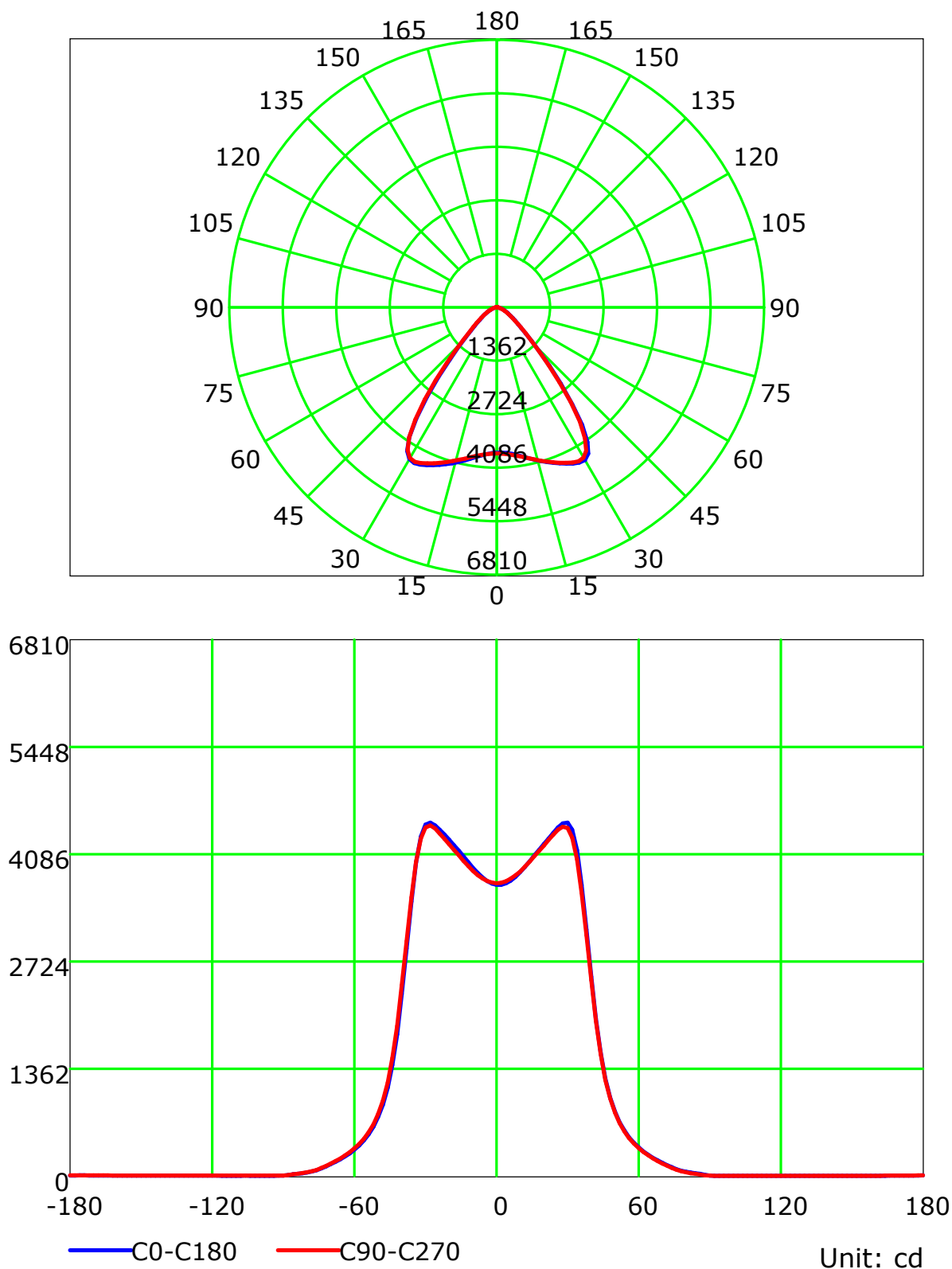
Test Device: LSG-1800B

Distance: 12.606 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

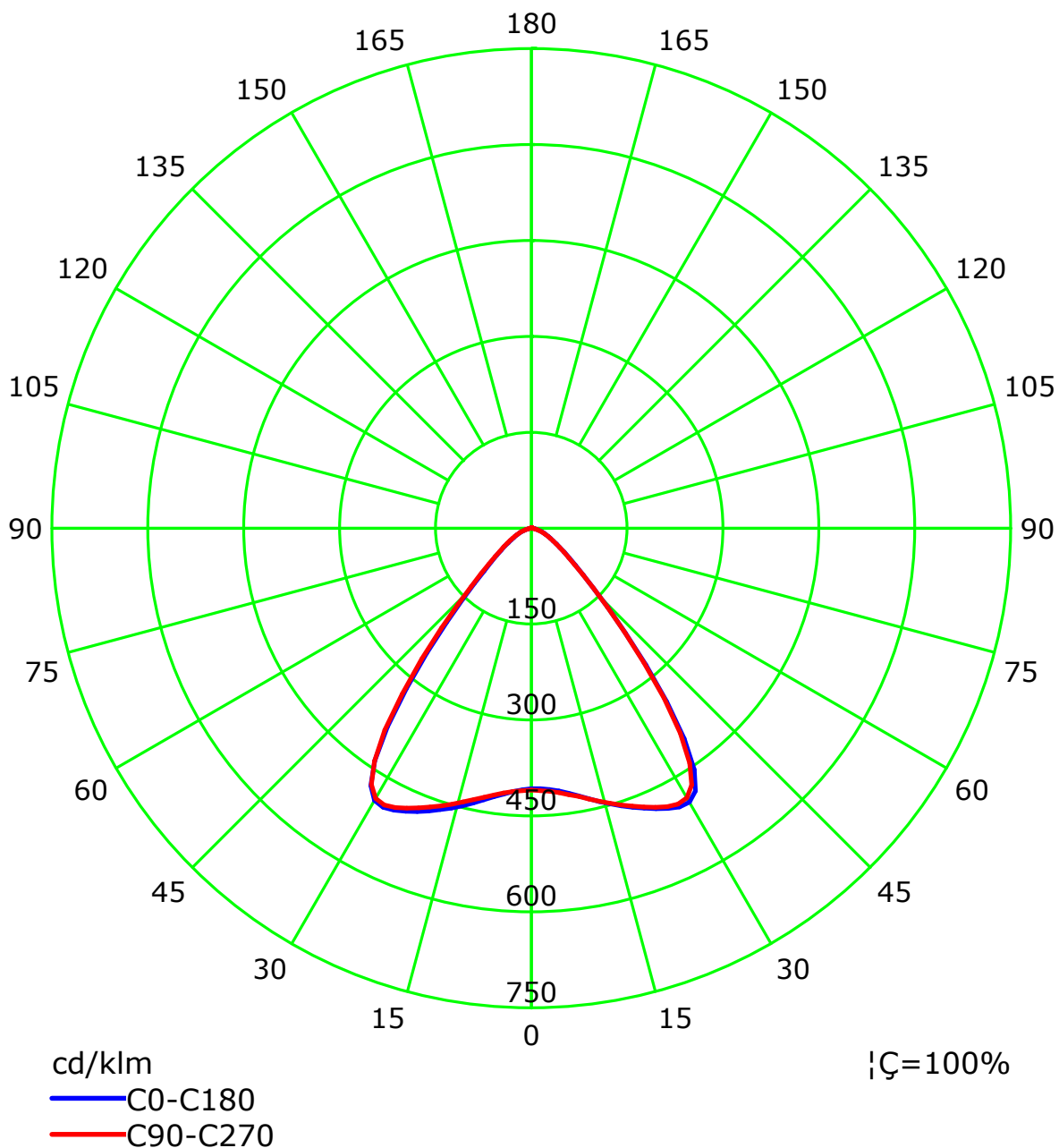
Test Device: LSG-1800B

Distance: 12.606 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 (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.606 m

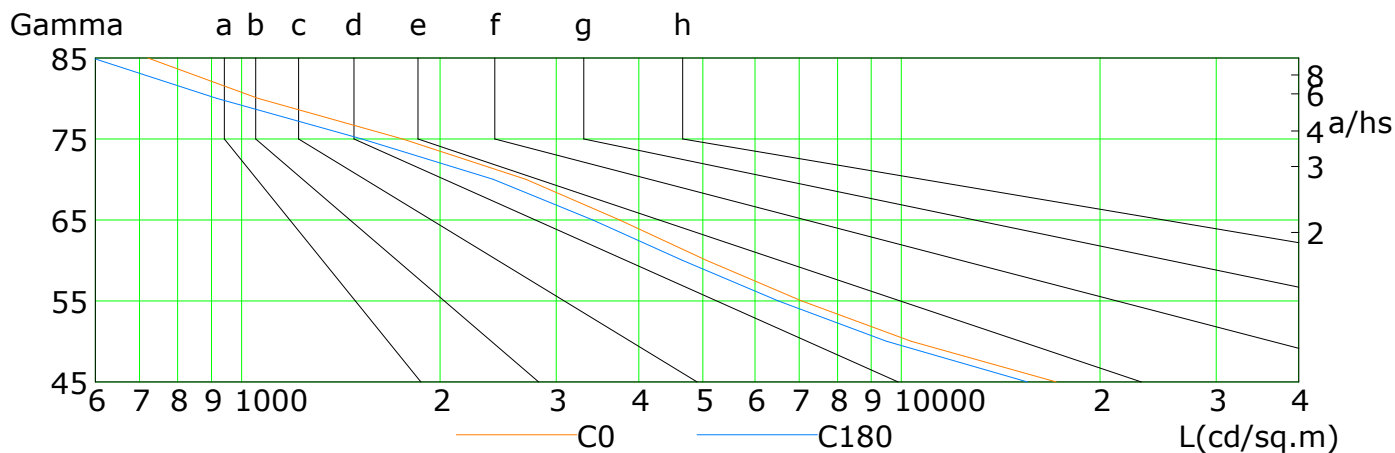
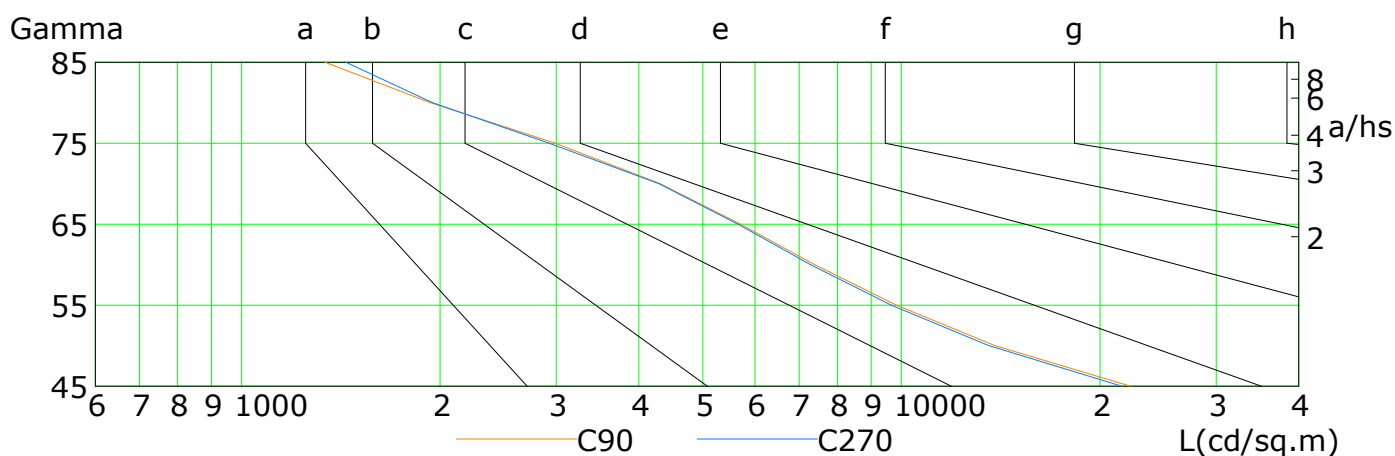
Humidity:

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	17154	10352	7063	5062	3741	2696	1754	1059	721
C90	22233	13853	9831	7387	5705	4308	2987	1931	1339
C180	15516	9500	6511	4658	3407	2407	1523	917	595
C270	21568	13564	9658	7282	5656	4289	2925	1945	1440

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

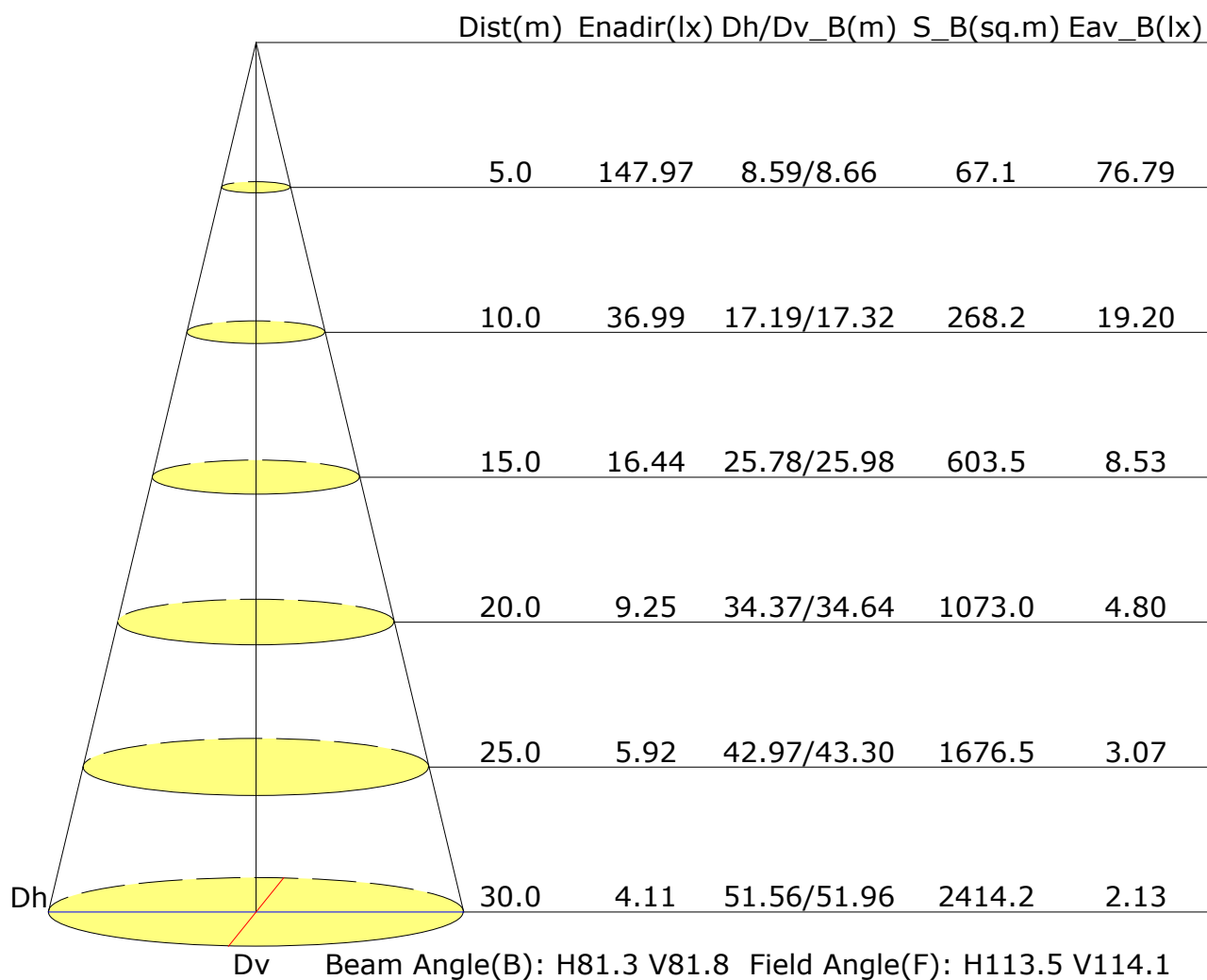
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Illuminance at a Distance



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: 12.606 m

Humidity:

Inspector:

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	20.8	21.9	21.0	22.1	22.4	21.0	22.2	21.3	22.4	22.6
3H	20.8	21.8	21.1	22.1	22.3	21.1	22.1	21.4	22.4	22.6
4H	20.8	21.7	21.1	22.0	22.3	21.1	22.0	21.4	22.3	22.6
6H	20.7	21.6	21.1	21.9	22.2	21.1	21.9	21.4	22.2	22.6
8H	20.7	21.5	21.1	21.8	22.2	21.0	21.9	21.4	22.2	22.5
12H	20.7	21.5	21.0	21.8	22.1	21.0	21.8	21.4	22.1	22.5
X=4H Y=2H	20.8	21.8	21.1	22.0	22.3	21.1	22.0	21.4	22.3	22.6
3H	20.9	21.7	21.3	22.0	22.4	21.2	22.0	21.6	22.3	22.7
4H	20.9	21.6	21.3	22.0	22.4	21.2	22.0	21.6	22.3	22.7
6H	20.9	21.5	21.3	21.9	22.3	21.2	21.9	21.7	22.3	22.7
8H	20.9	21.5	21.3	21.9	22.3	21.2	21.8	21.7	22.2	22.6
12H	20.9	21.4	21.3	21.8	22.3	21.2	21.7	21.7	22.1	22.6
X=8H Y=4H	20.9	21.5	21.4	21.9	22.3	21.2	21.8	21.7	22.2	22.6
6H	20.9	21.4	21.4	21.8	22.3	21.2	21.7	21.7	22.1	22.6
8H	20.9	21.3	21.4	21.8	22.3	21.2	21.6	21.7	22.1	22.6
12H	20.9	21.3	21.4	21.7	22.2	21.2	21.6	21.7	22.1	22.6
X=12H Y=4H	20.9	21.4	21.3	21.8	22.3	21.2	21.7	21.6	22.1	22.6
6H	20.9	21.3	21.4	21.8	22.3	21.2	21.6	21.7	22.1	22.6
8H	20.9	21.3	21.4	21.7	22.2	21.2	21.6	21.7	22.0	22.6
Variations with the observer position at spacings:										
S=1.0H	+2.8/-3.2					+2.6/-3.0				
S=1.5H	+3.7/-4.6					+3.5/-4.2				
S=2.0H	+5.4/-5.7					+5.3/-5.1				

Calculate in accordance with CIE Pub.117. The table is revised with 9073lm ($8\log(F/F_0) = 7.7$).

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: 12.606 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	0.73	0.82	0.88	0.92	0.97	1.01	1.03	1.06	1.08	
	0.30		0.67	0.76	0.82	0.87	0.93	0.97	0.99	1.03	1.06	
	0.20		0.62	0.72	0.78	0.83	0.89	0.93	0.96	1.01	1.03	
0.50	0.50	0.20	0.71	0.80	0.85	0.89	0.94	0.97	0.99	1.02	1.04	
	0.30		0.66	0.75	0.81	0.85	0.90	0.94	0.96	1.00	1.02	
	0.20		0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
0.30	0.50	0.20	0.70	0.78	0.83	0.87	0.91	0.94	0.96	0.98	1.00	
	0.30		0.65	0.74	0.79	0.83	0.88	0.92	0.94	0.97	0.98	
	0.20		0.62	0.70	0.76	0.80	0.86	0.89	0.92	0.95	0.97	
0.00	0.00	0.00	0.60	0.68	0.74	0.77	0.82	0.86	0.88	0.91	0.92	
Rating:76W 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	0.75	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.51	0.44	0.38	0.31	0.26	0.22	0.17	0.14	
	0.20		0.54	0.45	0.39	0.34	0.28	0.24	0.20	0.16	0.13	
0.50	0.50	0.20	0.72	0.57	0.47	0.41	0.32	0.30	0.22	0.17	0.14	
	0.30		0.61	0.50	0.42	0.36	0.29	0.24	0.21	0.16	0.13	
	0.20		0.53	0.44	0.38	0.33	0.27	0.22	0.19	0.15	0.13	
0.30	0.50	0.20	0.70	0.54	0.45	0.39	0.30	0.24	0.21	0.16	0.13	
	0.30		0.59	0.48	0.40	0.35	0.28	0.23	0.19	0.15	0.12	
	0.20		0.52	0.43	0.37	0.32	0.26	0.21	0.18	0.14	0.12	
0.00	0.00	0.00	0.40	0.31	0.26	0.22	0.17	0.14	0.12	0.09	0.07	
Rating:76W 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	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	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	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	
	0.30		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.14	0.15	0.16	0.16	0.18	0.18	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:76W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												