



000 "FAROS"

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Page 1 of 9 Pages

Report No.: 1

Test Time: 22.05.2018 13:28

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FP 150 75W 5000K 150x55gr. NEMA

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 232.6 V

Power: 74.36 W

Luminous Length (mm): 496

Luminous Height (mm): 64

Current: 0.331 A

Power Factor: 0.963

Photometric Results

CIE Class: Direct

Measurement Flux: 8876.5 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 104.9, 151.3, 122.9, 129.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 53.2, 142.5, 68.4, 66.3

Luminaire Efficacy Rating (LER): 119.42

Max. Intensity: 7447.65 cd

S/MH(C0/C180): 1.68

Total Rated Lamp Lumens: 8876.5 lm

Efficiency: 100%

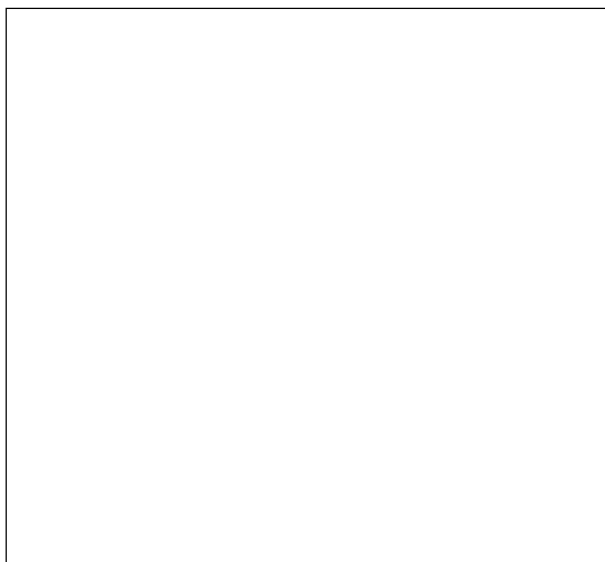
Upward Ratio: 0%

Central Intensity: 1634.3 cd

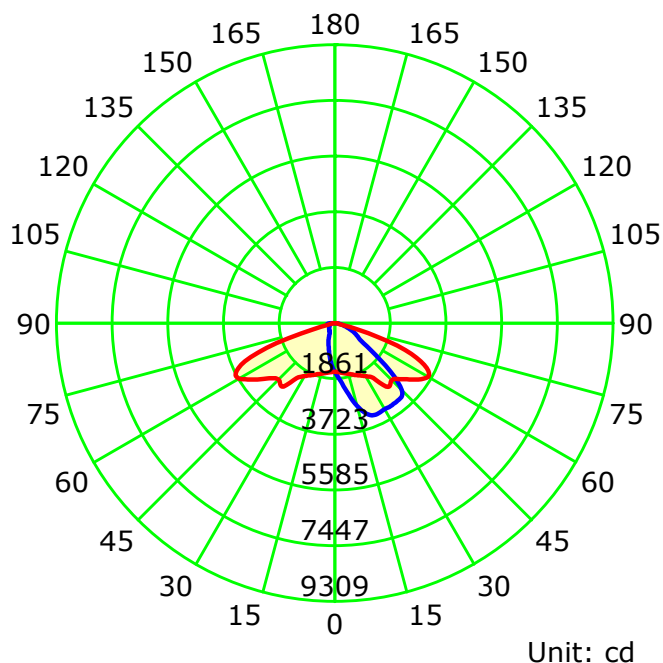
Pos of Max. Intensity: H285 V62

S/MH(C90/C270): 2.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

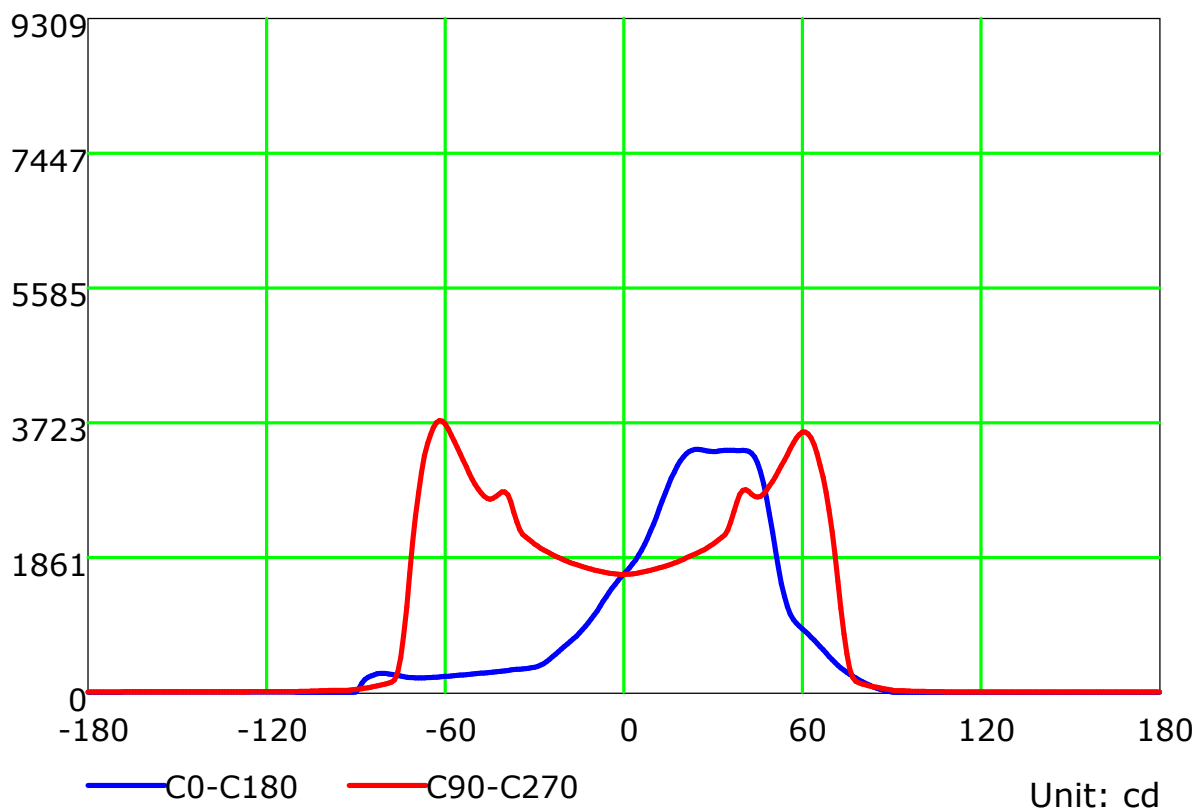
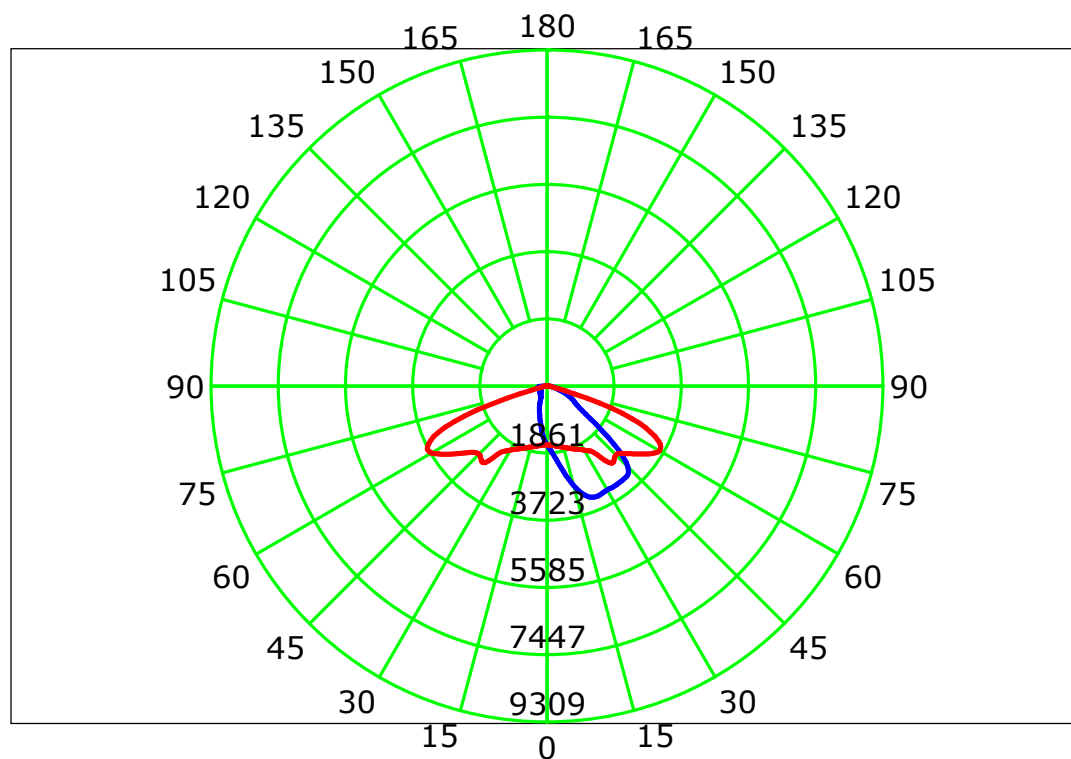
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

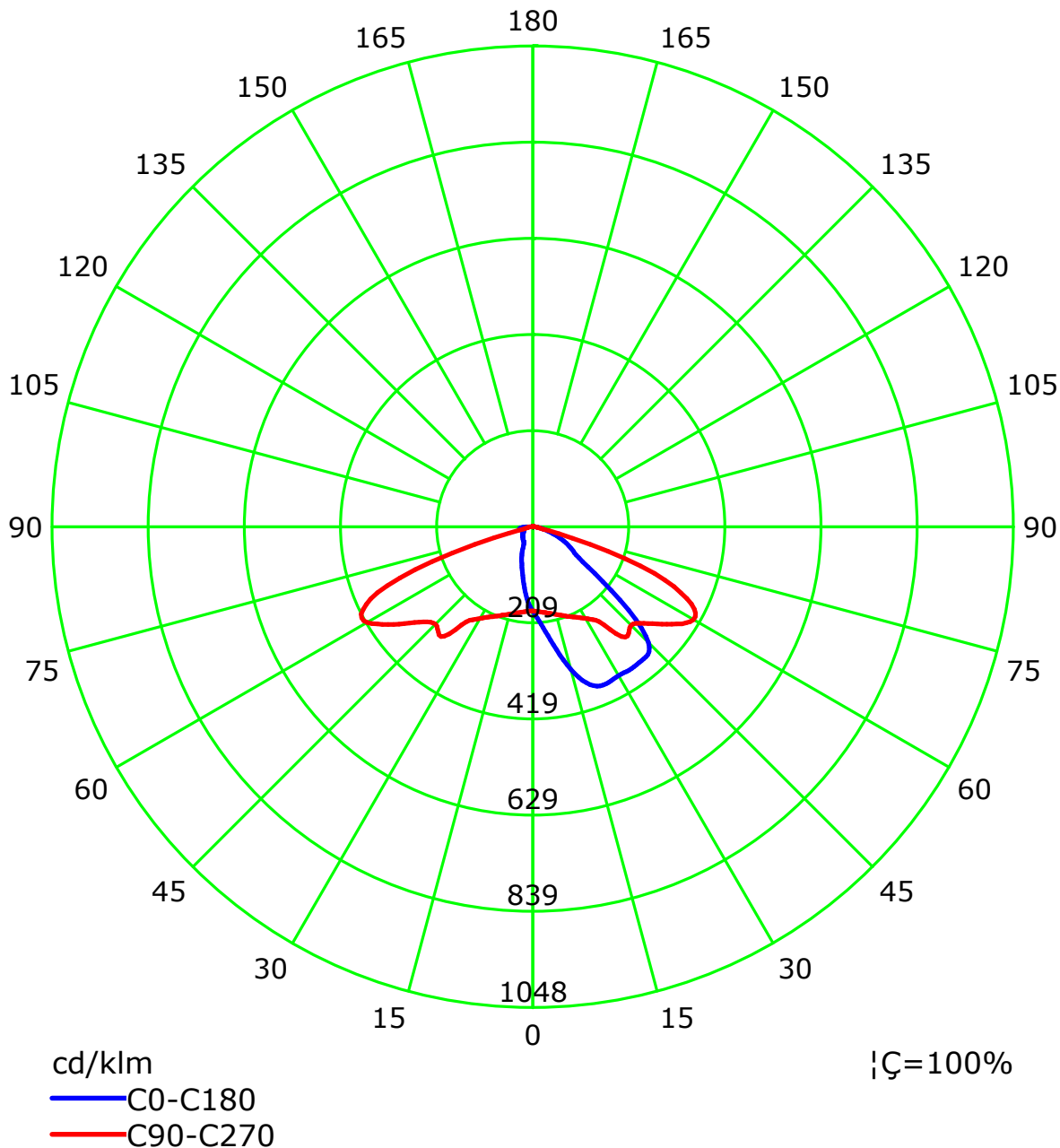
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.654 m

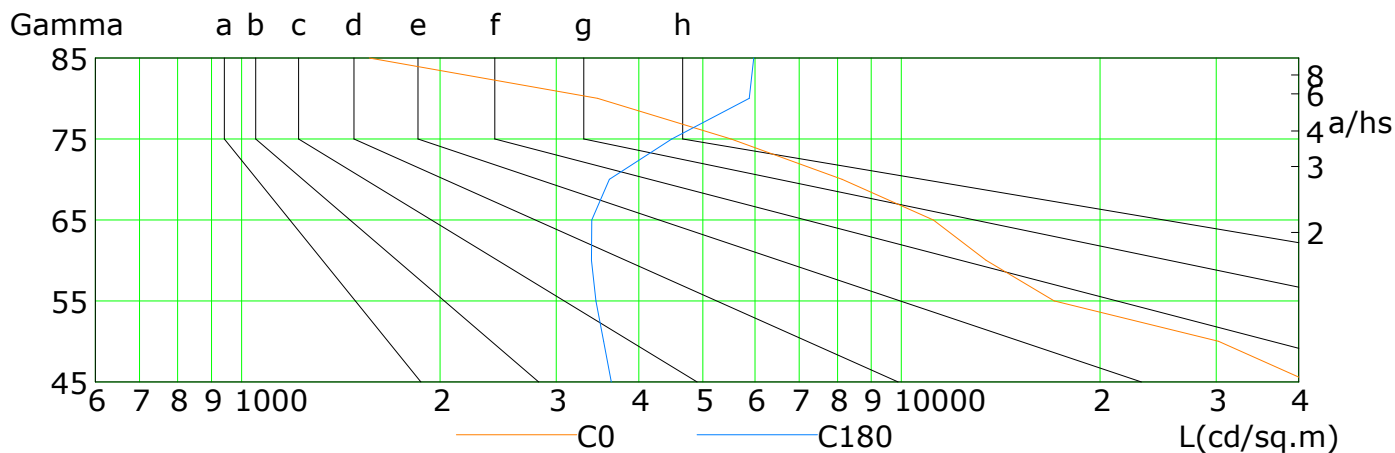
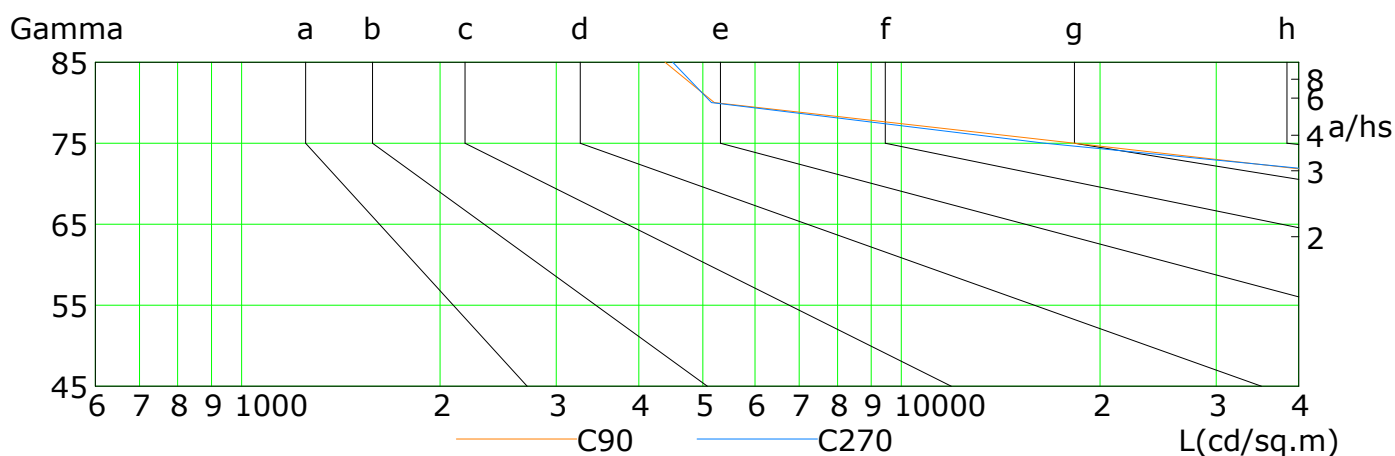
Humidity:

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	41653	30254	17053	13438	11182	8127	5517	3463	1562
C90	44537	51861	63727	77452	80561	63177	18313	5208	4382
C180	3635	3536	3443	3391	3396	3608	4487	5883	5974
C270	44086	51119	63940	79879	86942	69115	16502	5152	4503

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

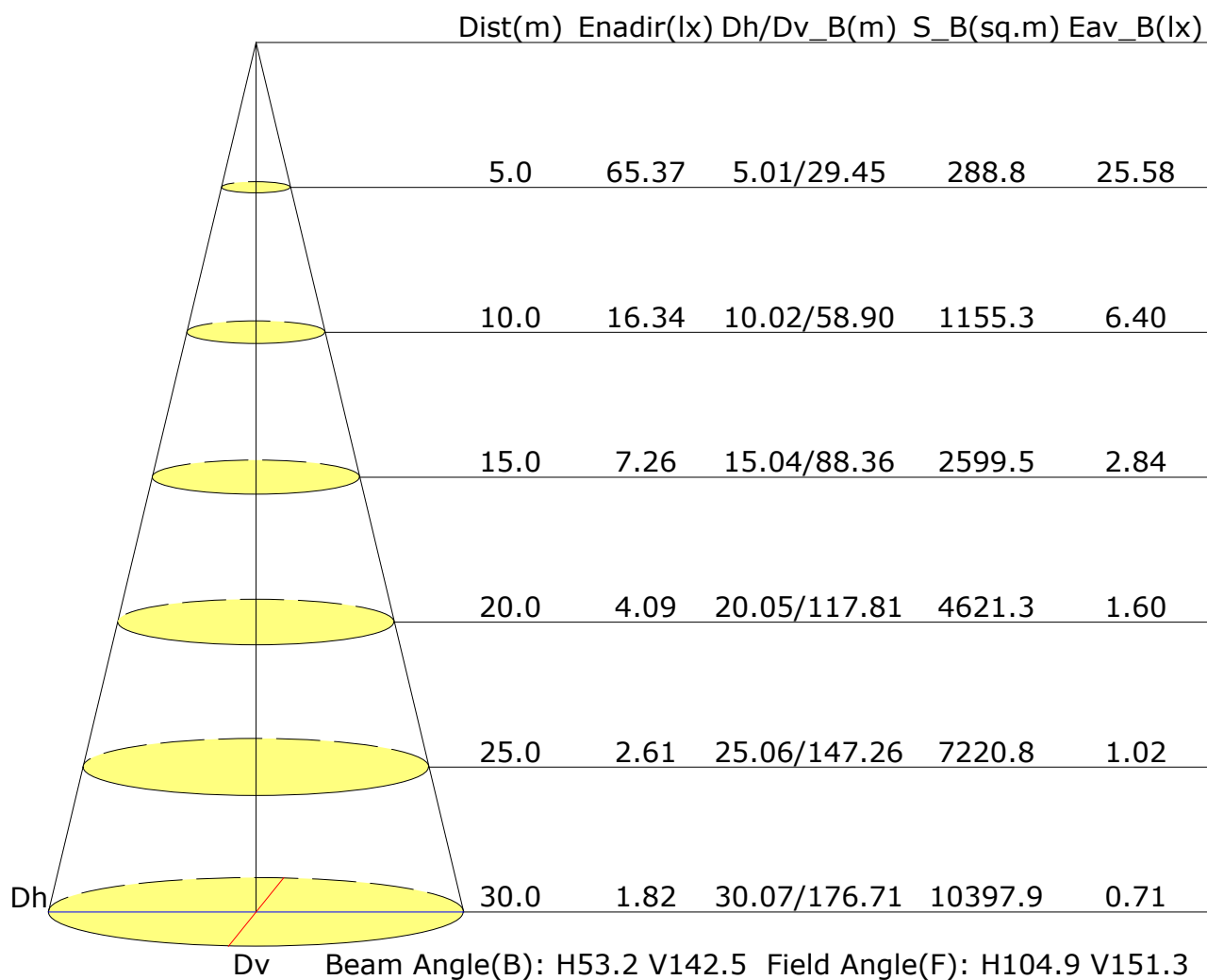
Test Device: LSG-1800B

Distance: 12.654 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1800B

Distance: 12.654 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	24.4	25.9	24.8	26.2	26.5	33.1	34.6	33.4	34.9	35.1
3H	24.7	26.0	25.0	26.3	26.6	35.4	36.8	35.8	37.1	37.4
4H	24.7	26.0	25.1	26.3	26.6	35.6	36.8	35.9	37.1	37.5
6H	24.7	25.9	25.1	26.2	26.6	35.5	36.7	35.9	37.0	37.3
8H	24.7	25.8	25.1	26.2	26.5	35.4	36.6	35.8	36.9	37.3
12H	24.7	25.8	25.1	26.1	26.5	35.4	36.5	35.8	36.8	37.2
X=4H Y=2H	26.1	27.4	26.4	27.7	28.0	33.0	34.3	33.3	34.6	34.9
3H	26.3	27.4	26.7	27.7	28.1	35.4	36.5	35.8	36.8	37.2
4H	26.3	27.3	26.8	27.7	28.1	35.6	36.5	36.0	36.9	37.3
6H	26.4	27.2	26.8	27.6	28.0	35.5	36.4	35.9	36.8	37.2
8H	26.3	27.1	26.8	27.5	28.0	35.5	36.3	35.9	36.7	37.1
12H	26.3	27.0	26.8	27.5	27.9	35.5	36.2	35.9	36.6	37.1
X=8H Y=4H	26.8	27.6	27.2	28.0	28.4	35.5	36.3	35.9	36.7	37.1
6H	26.8	27.5	27.3	27.9	28.4	35.4	36.1	35.9	36.5	37.0
8H	26.8	27.4	27.3	27.9	28.4	35.4	36.0	35.9	36.4	36.9
12H	26.8	27.3	27.3	27.8	28.3	35.4	35.9	35.9	36.4	36.9
X=12H Y=4H	26.8	27.5	27.2	27.9	28.4	35.4	36.2	35.9	36.6	37.0
6H	26.8	27.4	27.3	27.9	28.4	35.4	36.0	35.9	36.4	36.9
8H	26.9	27.3	27.4	27.8	28.3	35.4	35.9	35.9	36.4	36.9
Variations with the observer position at spacings:										
S=1.0H	+1.6/-2.7					+0.8/-0.9				
S=1.5H	+2.7/-4.3					+1.6/-2.8				
S=2.0H	+3.6/-4.8					+2.0/-3.3				

Calculate in accordance with CIE Pub.117. The table is revised with 8877lm ($8\log(F/F_0) = 7.6$).

C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.654 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 2.00									
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	NA	0.67	0.73	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		NA	0.59	0.66	0.72	0.81	0.87	0.91	0.96	0.99	
	0.20		NA	0.54	0.60	0.67	0.76	0.82	0.86	0.92	0.96	
0.50	0.50	0.20	NA	0.65	0.71	0.76	0.84	0.89	0.92	0.96	0.98	
	0.30		NA	0.58	0.64	0.70	0.79	0.84	0.88	0.93	0.96	
	0.20		NA	0.53	0.59	0.65	0.75	0.80	0.84	0.90	0.93	
0.30	0.50	0.20	NA	0.63	0.68	0.74	0.81	0.85	0.88	0.92	0.95	
	0.30		NA	0.57	0.63	0.69	0.77	0.82	0.85	0.89	0.92	
	0.20		NA	0.52	0.59	0.64	0.73	0.78	0.82	0.87	0.90	
0.00	0.00	0.00	NA	0.50	0.56	0.61	0.70	0.75	0.78	0.83	0.85	
Rating:74W 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 = 2.00									
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	NA	0.81	0.70	0.60	0.47	0.38	0.33	0.25	0.21	
	0.30		NA	0.69	0.61	0.53	0.42	0.35	0.30	0.24	0.20	
	0.20		NA	0.60	0.54	0.48	0.39	0.33	0.28	0.23	0.19	
0.50	0.50	0.20	NA	0.77	0.67	0.58	0.45	0.40	0.31	0.24	0.20	
	0.30		NA	0.67	0.59	0.52	0.41	0.34	0.29	0.23	0.19	
	0.20		NA	0.59	0.53	0.47	0.38	0.31	0.27	0.22	0.18	
0.30	0.50	0.20	NA	0.74	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		NA	0.65	0.57	0.50	0.39	0.33	0.28	0.22	0.18	
	0.20		NA	0.58	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
0.00	0.00	0.00	0.99	0.49	0.43	0.37	0.29	0.24	0.21	0.16	0.13	
Rating:74W 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 = 2.00									
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	NA	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		NA	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.19	
	0.20		NA	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	NA	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	NA	0.17	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		NA	0.11	0.12	0.13	0.14	0.16	0.16	0.17	0.18	
	0.20		NA	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16	
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:74W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												