

Report No.:

Test Time: 29.09.2020 10:31

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FG 595 36W 5000K опал IP40 EVEN

Luminous Length (mm): 595

Luminous Width (mm): 595

Luminous Height (mm): 40

Voltage: 221.5 V

Current: 0.175 A

Power: 33.21 W

Power Factor: 0.853

Photometric Results

CIE Class: Direct

Measurement Flux: 2775.2 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 2775.2 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.0, 164.5, 164.6, 164.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.1, 113.7, 113.9, 113.9

Luminaire Efficacy Rating (LER): 83.62

Central Intensity: 942.26 cd

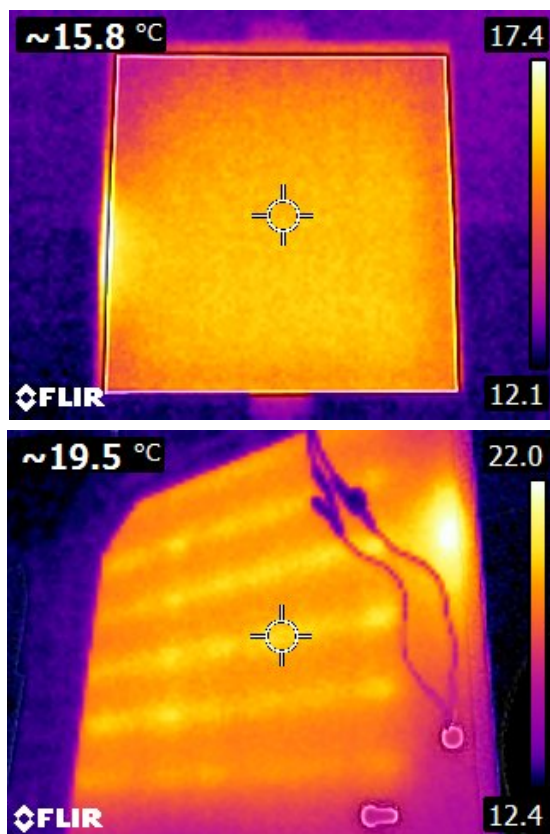
Max. Intensity: 942.27 cd

Pos of Max. Intensity: H0 V0

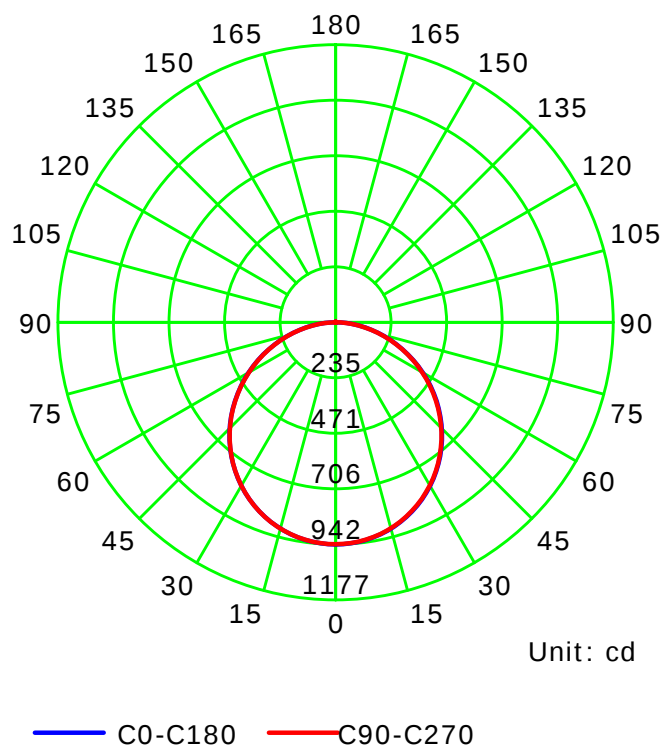
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

Termogramma



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

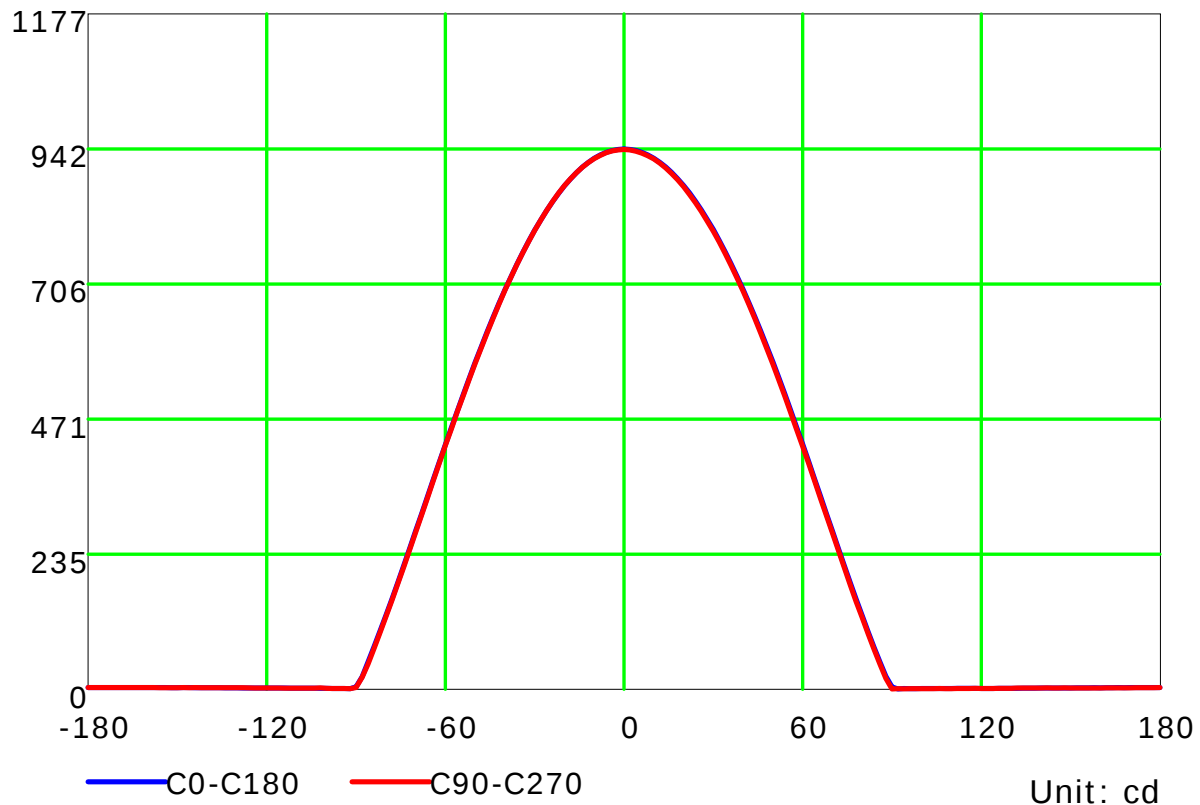
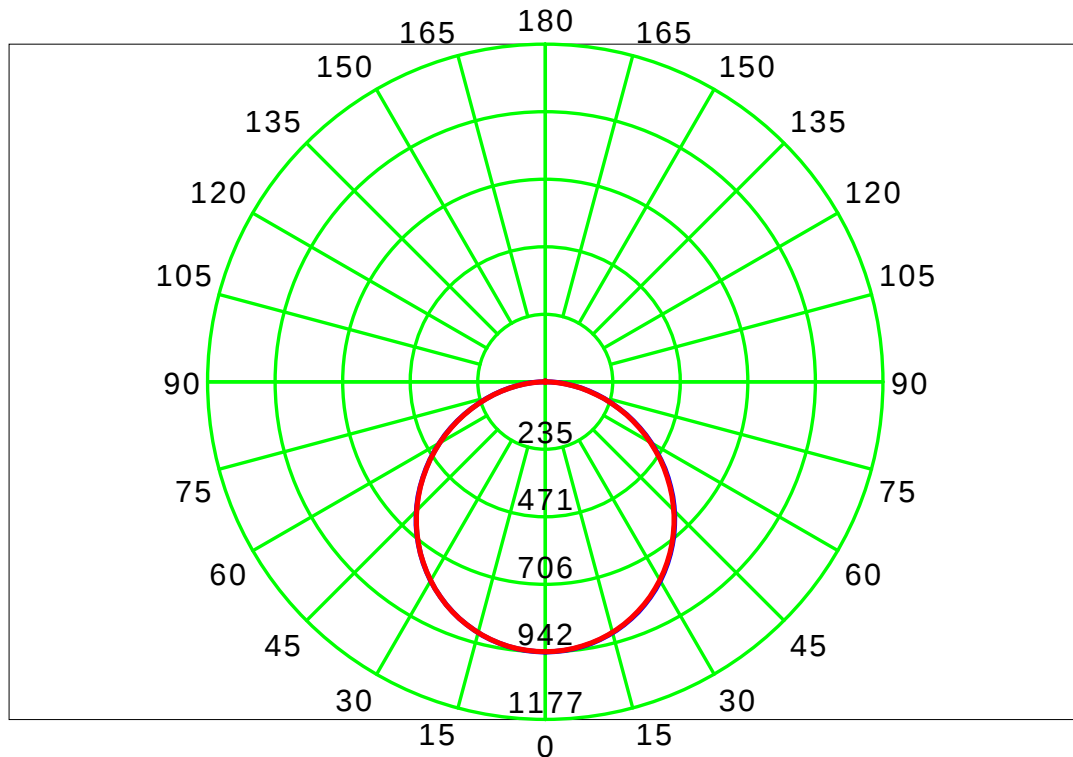
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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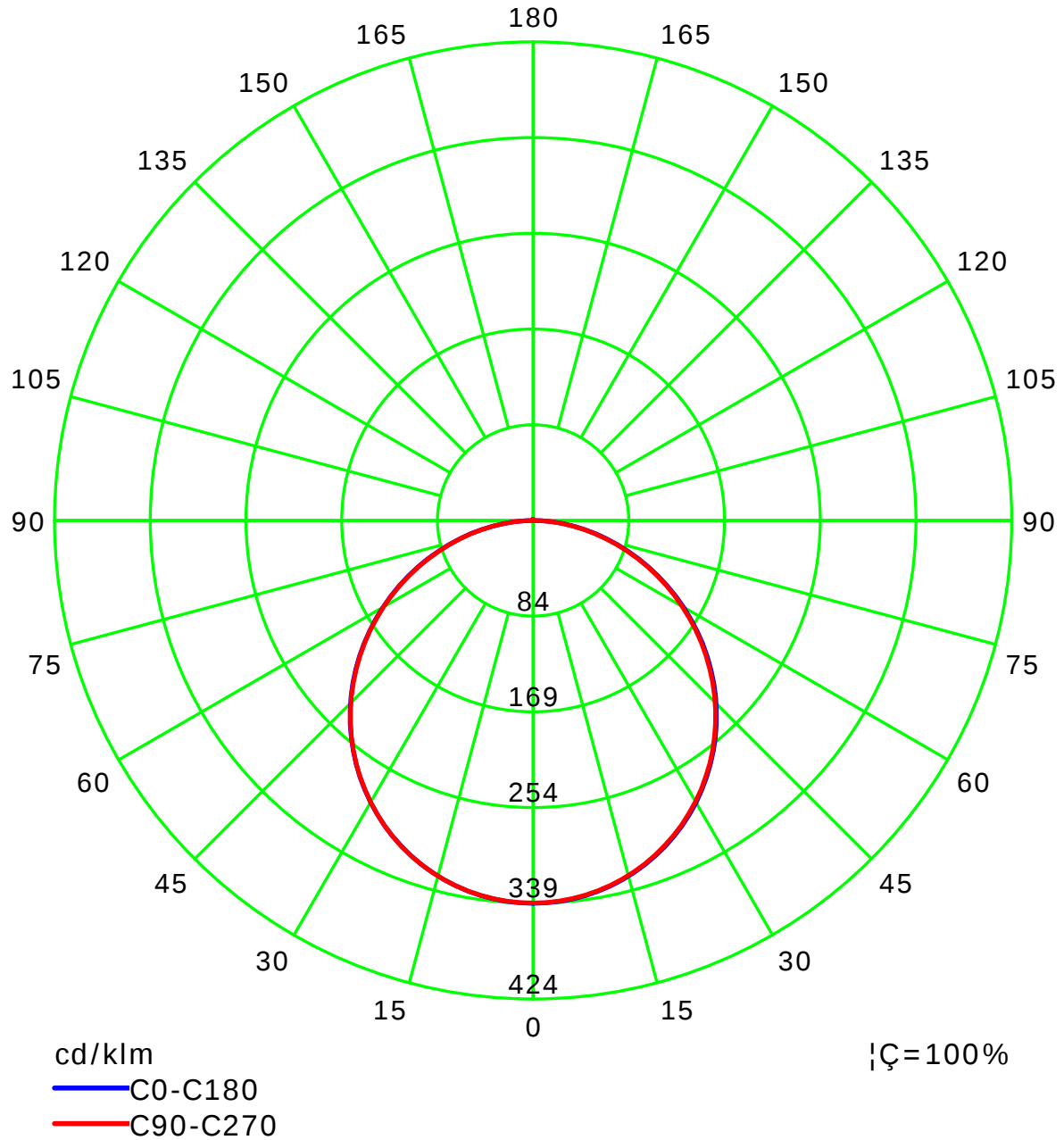
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

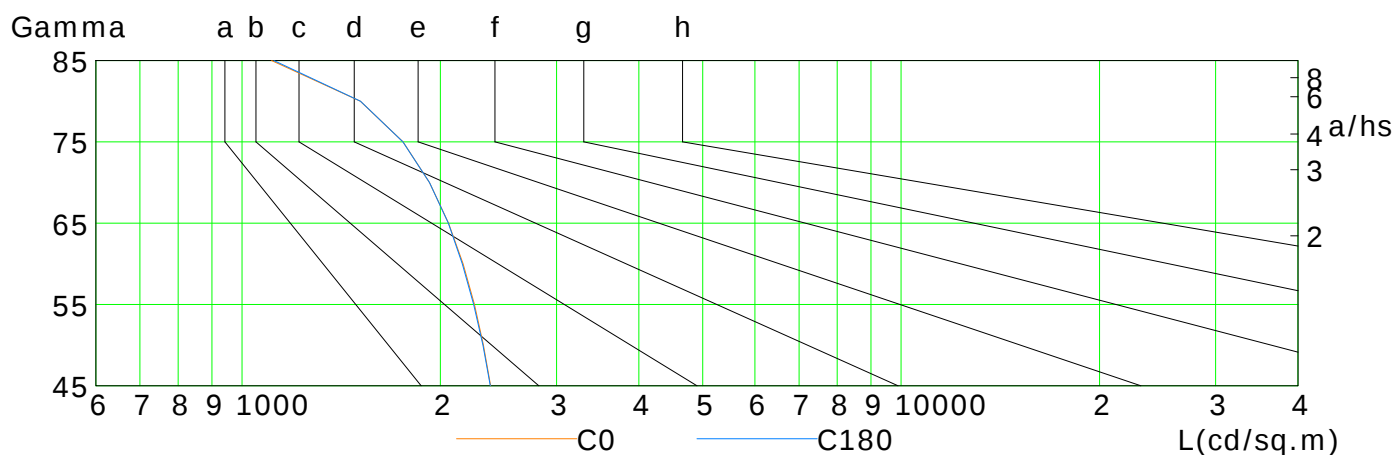
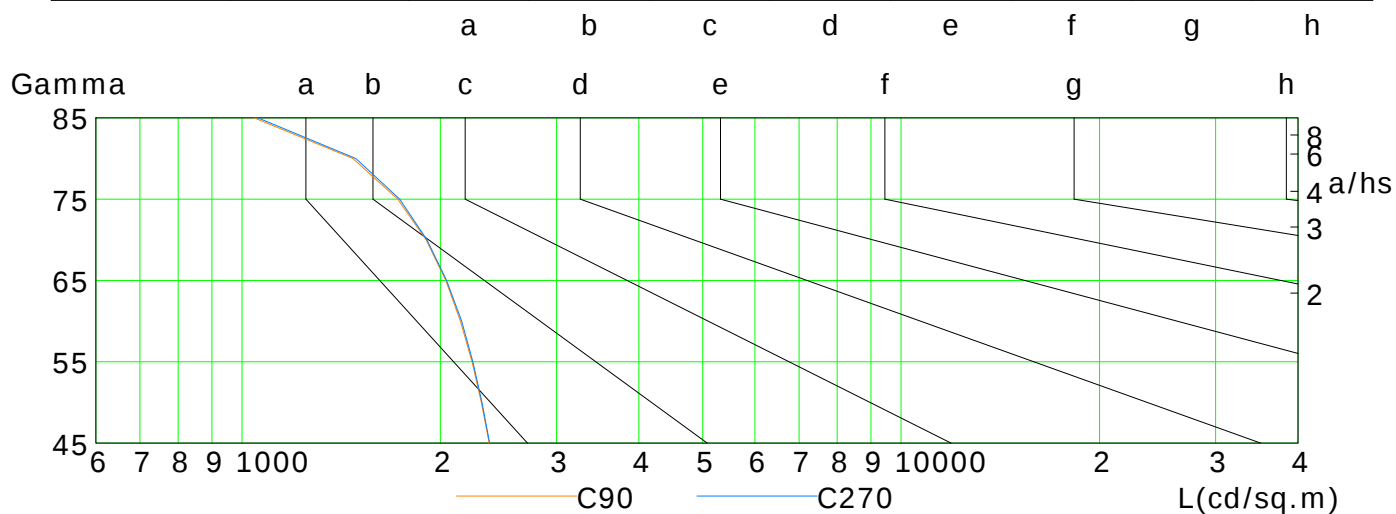
Inspector:

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2384	2324	2252	2164	2057	1925	1755	1512	1109
C90	2371	2308	2234	2144	2038	1902	1723	1474	1043
C180	2381	2321	2246	2159	2057	1925	1755	1513	1118
C270	2375	2313	2240	2153	2044	1908	1734	1488	1057

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Temperature:

Operator:

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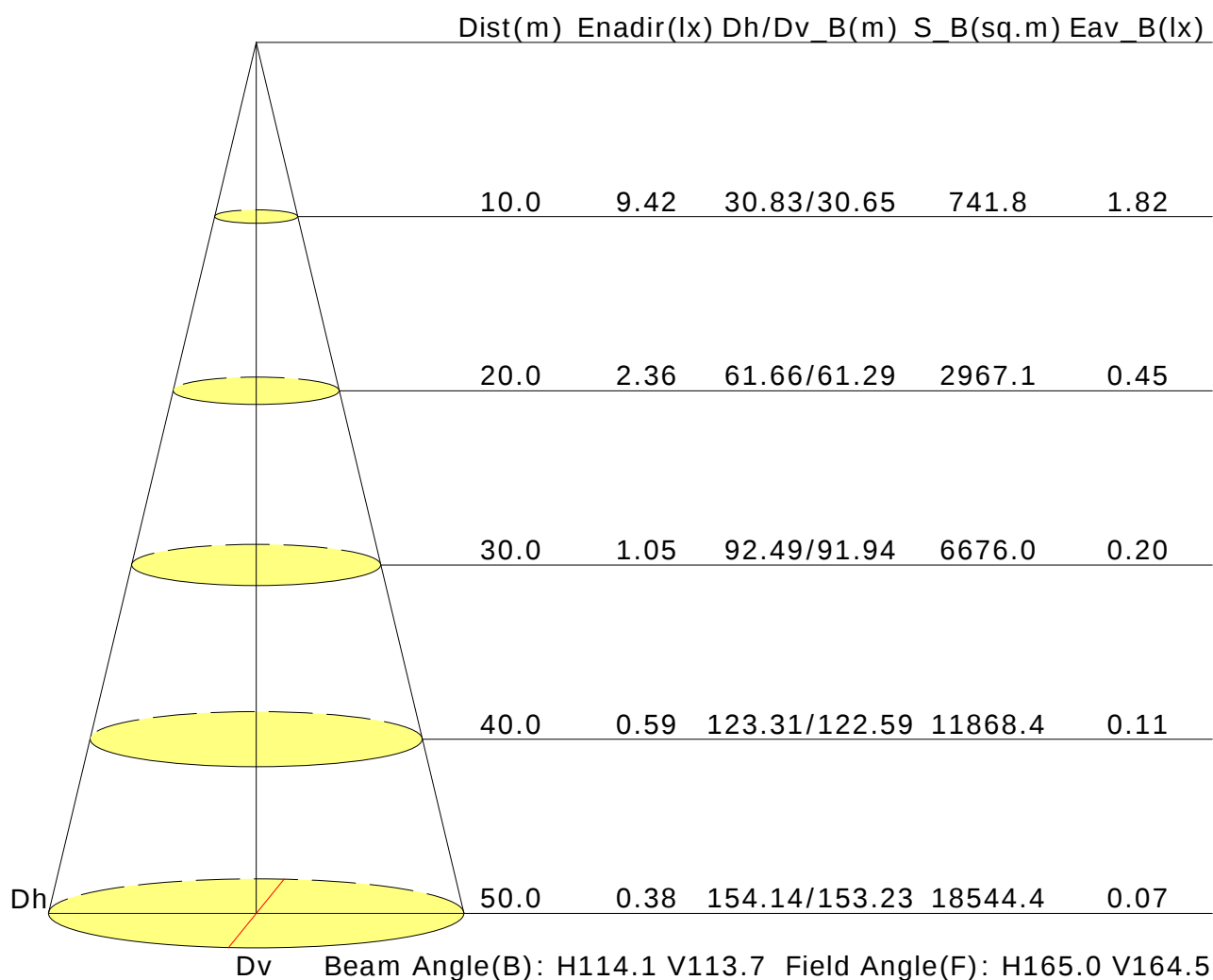
Test Device: LSG-1800B

Distance: 12.682 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	15.3	16.7	15.7	17.0	17.2	15.3	16.7	15.6	17.0	17.2
3H	16.9	18.2	17.2	18.5	18.8	16.9	18.1	17.2	18.4	18.7
4H	17.5	18.8	17.9	19.1	19.4	17.5	18.7	17.8	19.0	19.3
6H	18.0	19.1	18.4	19.5	19.8	18.0	19.1	18.3	19.4	19.7
8H	18.2	19.3	18.6	19.6	19.9	18.1	19.2	18.5	19.5	19.9
12H	18.3	19.3	18.7	19.7	20.0	18.2	19.2	18.6	19.6	19.9
X=4H Y=2H	16.0	17.2	16.3	17.5	17.8	16.0	17.2	16.3	17.5	17.8
3H	17.7	18.8	18.1	19.1	19.5	17.7	18.8	18.1	19.1	19.4
4H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.1
6H	19.1	19.9	19.5	20.3	20.7	19.0	19.9	19.5	20.3	20.7
8H	19.3	20.1	19.8	20.5	20.9	19.2	20.0	19.7	20.4	20.9
12H	19.4	20.1	19.9	20.6	21.0	19.4	20.1	19.8	20.5	20.9
X=8H Y=4H	18.8	19.6	19.2	20.0	20.4	18.8	19.5	19.2	19.9	20.4
6H	19.5	20.2	20.0	20.6	21.1	19.5	20.1	20.0	20.5	21.0
8H	19.8	20.4	20.3	20.8	21.3	19.8	20.3	20.2	20.8	21.3
12H	20.0	20.5	20.5	21.0	21.5	19.9	20.4	20.4	20.9	21.4
X=12H Y=4H	18.8	19.5	19.3	19.9	20.4	18.8	19.5	19.2	19.9	20.3
6H	19.6	20.1	20.1	20.6	21.1	19.5	20.1	20.0	20.6	21.0
8H	19.9	20.4	20.4	20.9	21.4	19.8	20.3	20.3	20.8	21.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.3/-0.4				
S=2.0H	+0.5/-0.8					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 2775lm ($8\log(F/F_0) = 3.5$).

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Test Lab:

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.682 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	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.71	0.80	0.85	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.81	0.85	0.91	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98	
	0.30		0.47	0.57	0.64	0.70	0.77	0.83	0.87	0.92	0.95	
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.80	0.84	0.88	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.68	0.73	0.77	0.82	0.85	
Rating:33W 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	1.01	0.84	0.72	0.63	0.50	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.56	0.45	0.38	0.33	0.26	0.22	
	0.20		0.73	0.63	0.56	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:33W 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	0.19	0.20	0.21	0.21	0.22	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	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	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	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	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:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												