

Report No.:

Test Time: 26.06.2020 12:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 24W 4000K frozen ИПС35-300ТД s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.8 V

Current: 0.115 A

Power: 24.85 W

Power Factor: 0.969

Photometric Results

CIE Class: Direct

Measurement Flux: 3376 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3376.0 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.1, 133.8, 142.0, 142.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.1, 88.6, 94.4, 94.9

Luminaire Efficacy Rating (LER): 135.90

Central Intensity: 1490.93 cd

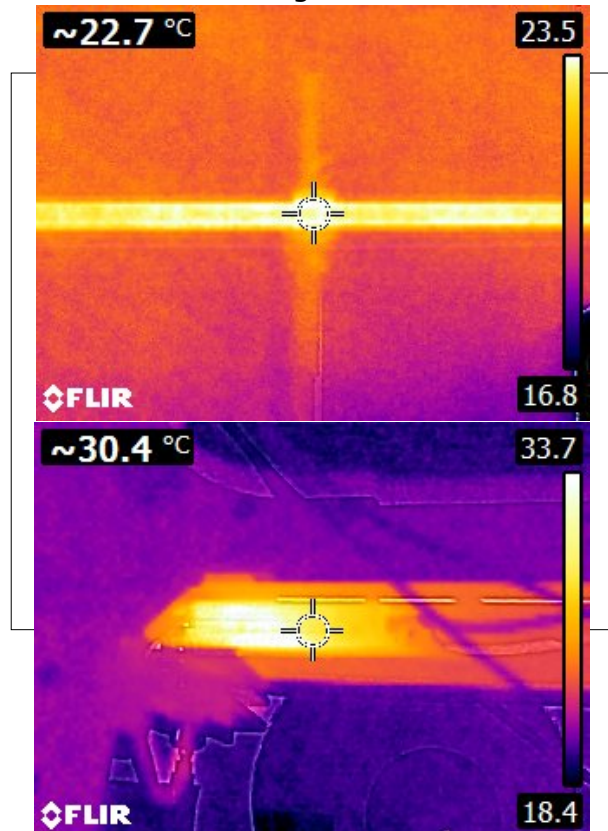
Max. Intensity: 1493.17 cd

Pos of Max. Intensity: H90 V4

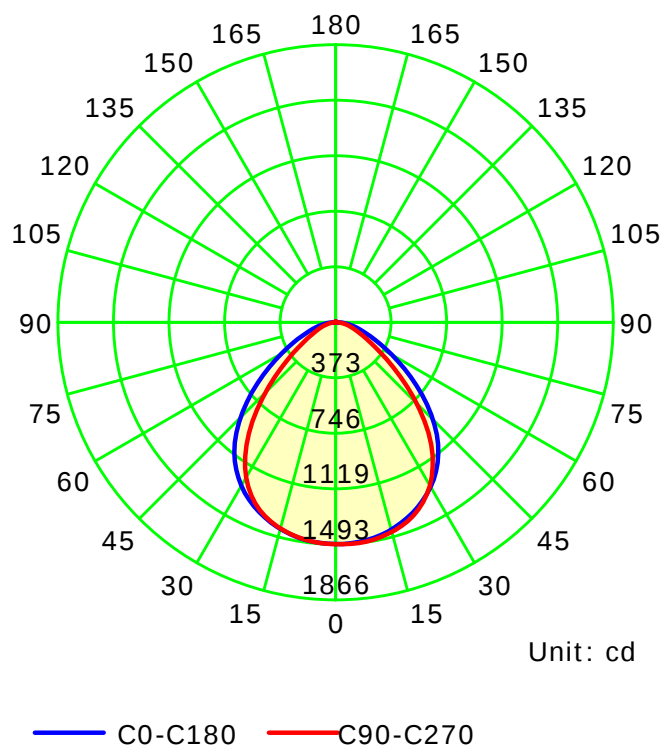
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.22

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

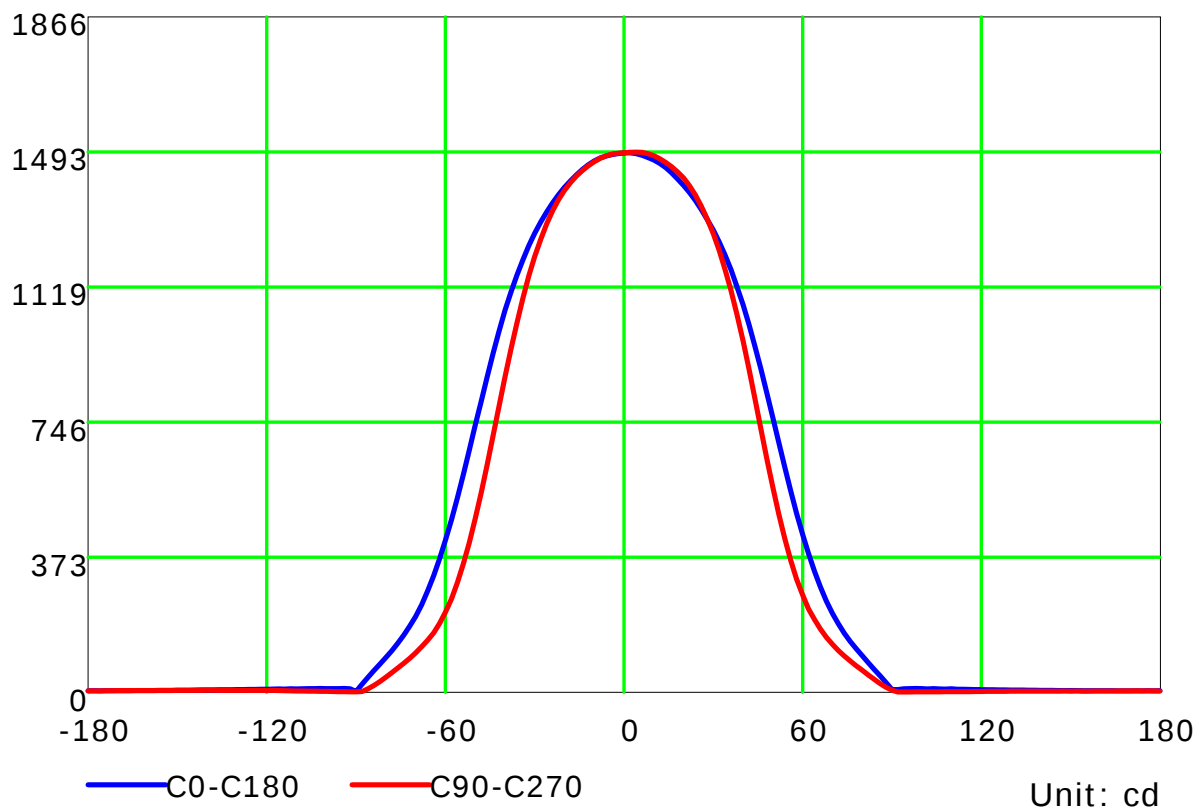
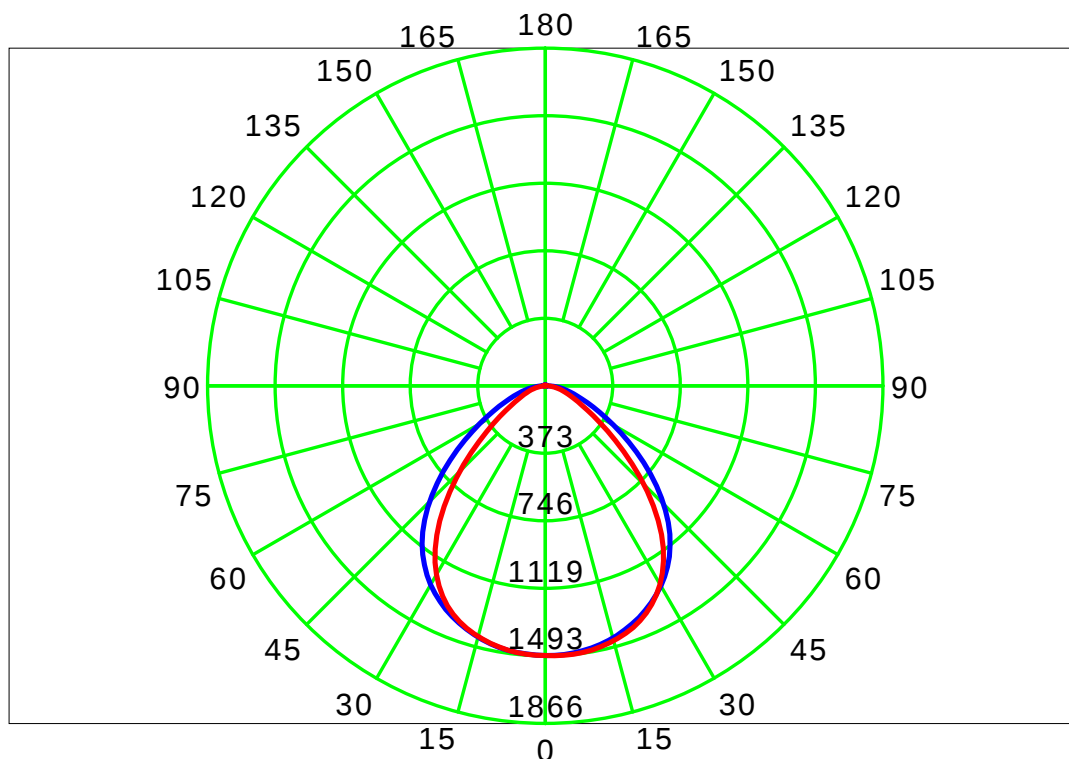
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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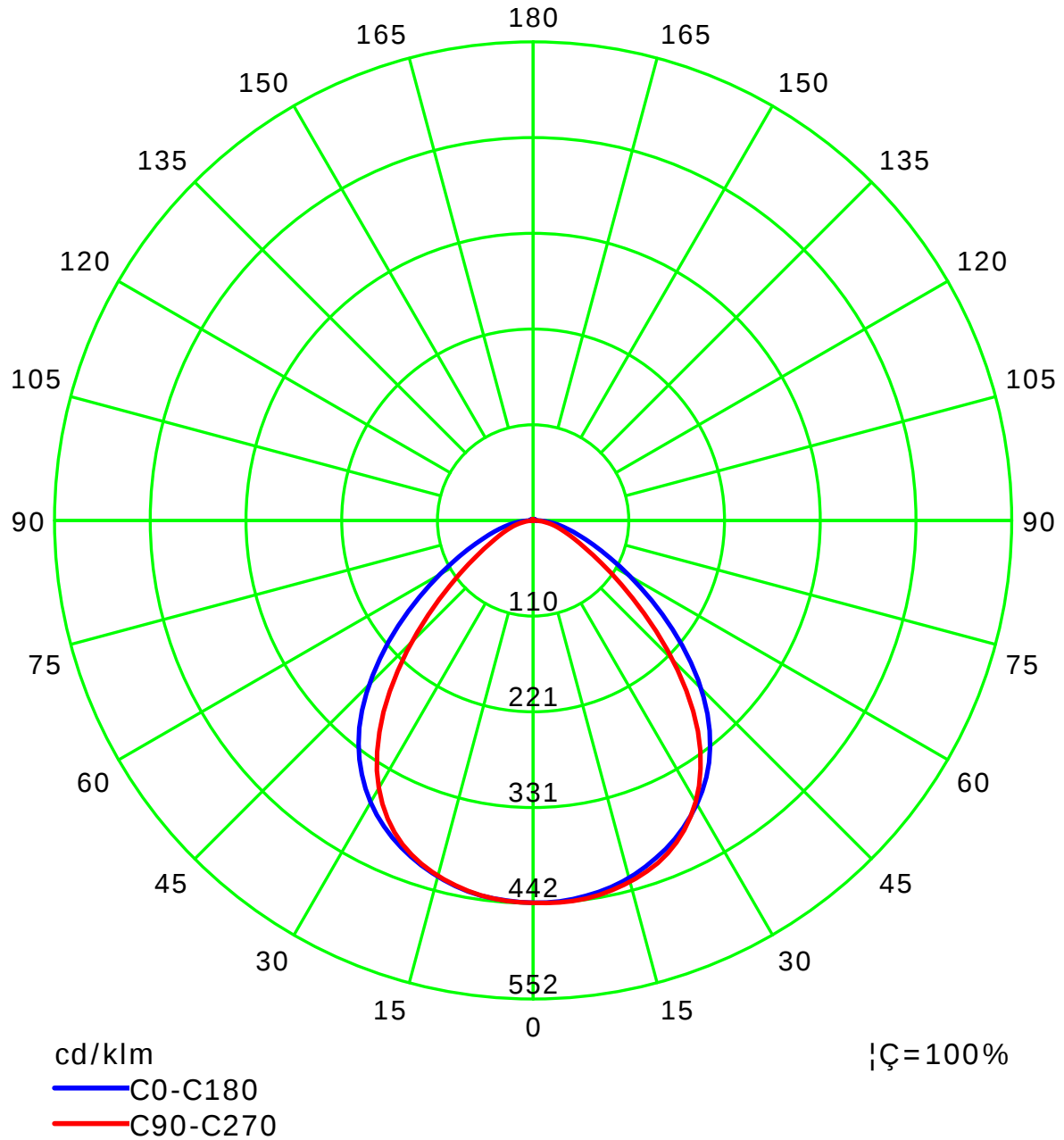
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°): 0.0-360.0: 22.5

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Test Device: LSG-1800B

Distance: 12.677 m

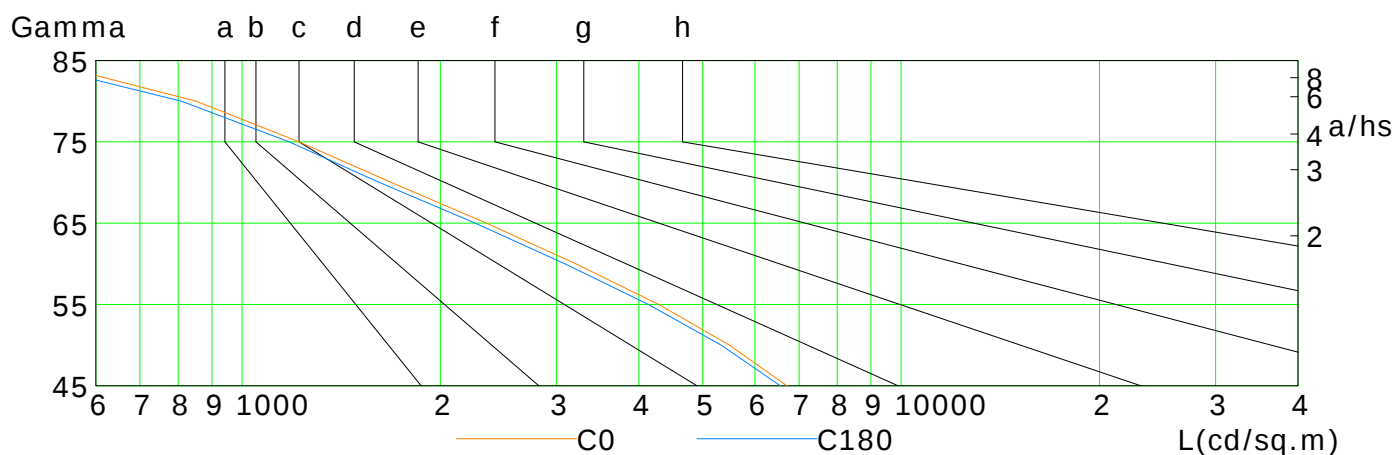
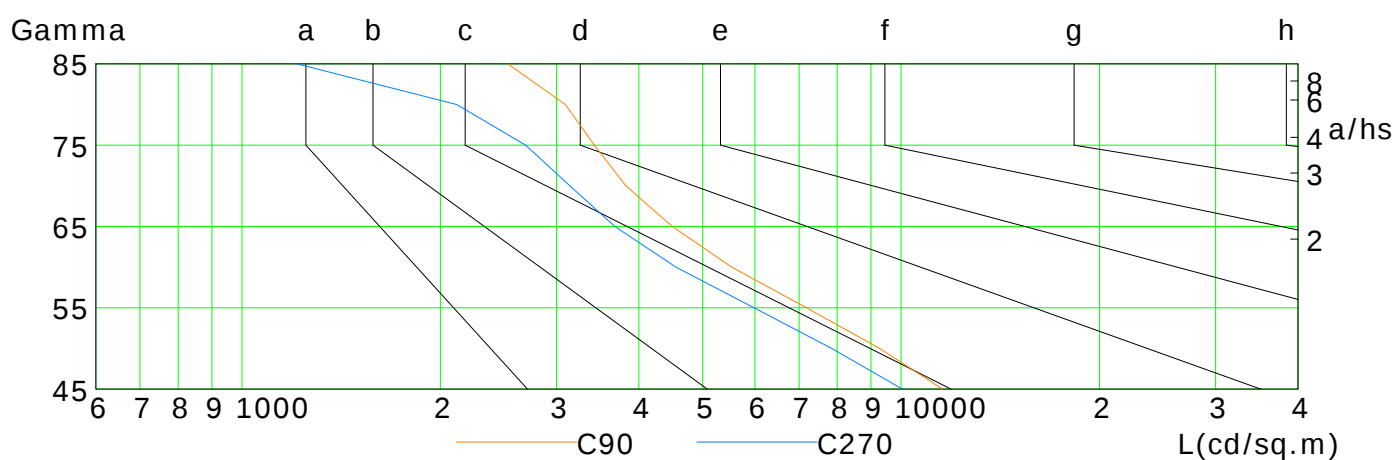
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6709	5488	4288	3211	2349	1686	1221	852	490
C90	11558	9276	7185	5533	4497	3824	3424	3094	2531
C180	6556	5333	4137	3090	2258	1616	1179	809	455
C270	10041	7846	5979	4554	3679	3143	2694	2117	1212

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

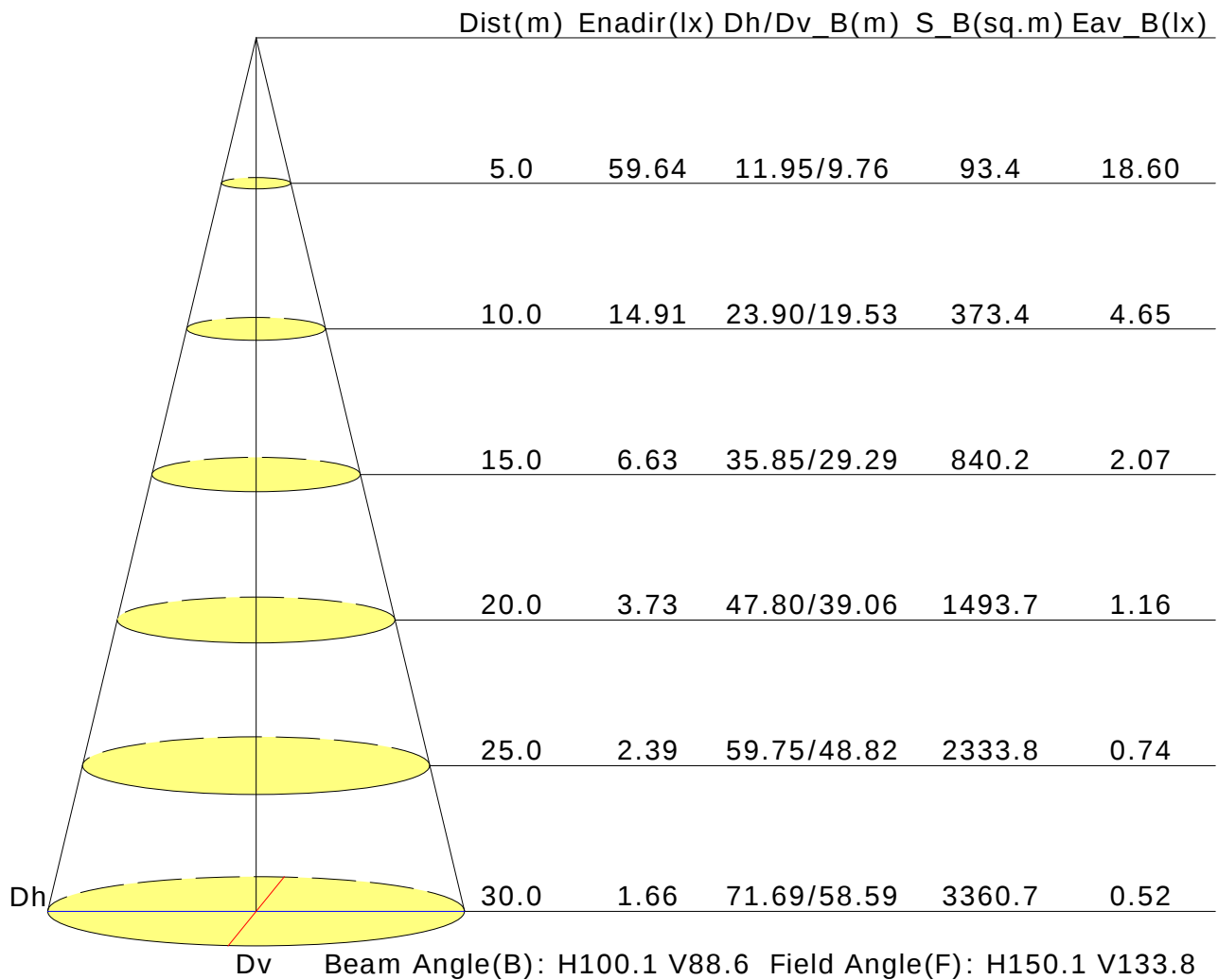
Test Device: LSG-1800B

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	17.6	18.9	17.9	19.1	19.4	17.4	18.6	17.7	18.9	19.1
3H	18.1	19.3	18.5	19.5	19.8	17.9	19.0	18.2	19.3	19.5
4H	18.3	19.4	18.7	19.7	20.0	18.0	19.1	18.4	19.4	19.7
6H	18.4	19.4	18.8	19.7	20.0	18.2	19.2	18.6	19.5	19.8
8H	18.4	19.4	18.8	19.7	20.0	18.2	19.2	18.6	19.5	19.9
12H	18.4	19.3	18.8	19.7	20.0	18.3	19.2	18.6	19.5	19.9
X=4H Y=2H	17.8	18.8	18.1	19.1	19.4	17.6	18.6	17.9	18.9	19.2
3H	18.4	19.3	18.8	19.7	20.0	18.1	19.0	18.5	19.4	19.7
4H	18.7	19.5	19.1	19.8	20.2	18.4	19.2	18.8	19.6	20.0
6H	18.9	19.6	19.3	20.0	20.4	18.6	19.3	19.0	19.7	20.1
8H	18.9	19.6	19.4	20.0	20.4	18.7	19.3	19.1	19.7	20.2
12H	18.9	19.5	19.4	19.9	20.4	18.7	19.3	19.2	19.7	20.2
X=8H Y=4H	18.7	19.3	19.1	19.8	20.2	18.4	19.1	18.9	19.5	19.9
6H	18.9	19.5	19.4	19.9	20.4	18.7	19.2	19.2	19.7	20.2
8H	19.0	19.5	19.5	20.0	20.5	18.8	19.3	19.3	19.7	20.2
12H	19.1	19.5	19.6	20.0	20.5	18.9	19.3	19.4	19.8	20.3
X=12H Y=4H	18.7	19.3	19.1	19.7	20.1	18.4	19.0	18.9	19.4	19.9
6H	18.9	19.4	19.4	19.9	20.4	18.7	19.2	19.2	19.6	20.1
8H	19.0	19.4	19.5	19.9	20.4	18.8	19.2	19.3	19.7	20.2
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.6					+0.5/-0.9				
S=1.5H	+0.9/-1.6					+1.4/-1.8				
S=2.0H	+1.8/-2.5					+2.7/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3376lm ($8\log(F/F_0) = 4.2$).

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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	0.64	0.74	0.81	0.86	0.92	0.96	0.99	1.03	1.06	
	0.30		0.57	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.52	0.63	0.70	0.75	0.83	0.88	0.91	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.79	0.83	0.89	0.93	0.96	0.99	1.01	
	0.30		0.57	0.66	0.73	0.78	0.85	0.89	0.92	0.96	0.99	
	0.20		0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.92	0.95	0.97	
	0.30		0.56	0.65	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
	0.20		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.50	0.59	0.65	0.70	0.76	0.80	0.83	0.86	0.89	
Rating:25W 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	0.88	0.71	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.17	
0.50	0.50	0.20	0.84	0.68	0.57	0.49	0.39	0.36	0.27	0.21	0.17	
	0.30		0.71	0.59	0.50	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.62	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.82	0.65	0.54	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.57	0.49	0.42	0.34	0.28	0.24	0.19	0.16	
	0.20		0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.50	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
Rating:25W 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	0.16	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		0.06	0.08	0.09	0.11	0.13	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	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating:25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											