

Report No.:

Test Time: 07.09.2020 21:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 80LED 0.6A 75W 4000K opal

Luminous Length (mm): 1545

Luminous Height (mm): 90

Current: 0.353 A

Power Factor: 0.979

Luminous Width (mm): 55

Voltage: 221.5 V

Power: 76.66 W

Photometric Results

CIE Class: Direct

Measurement Flux: 8262.5 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.8, 164.4, 162.9, 162.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.3, 115.1, 114.6, 114.7

Luminaire Efficacy Rating (LER): 107.83

Max. Intensity: 2795.03 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 8262.5 lm

Efficiency: 100%

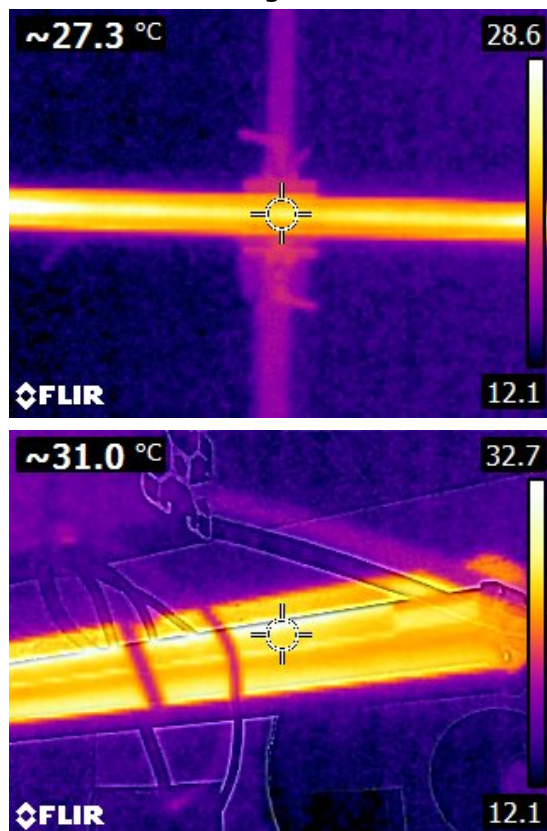
Upward Ratio: 1%

Central Intensity: 2790.27 cd

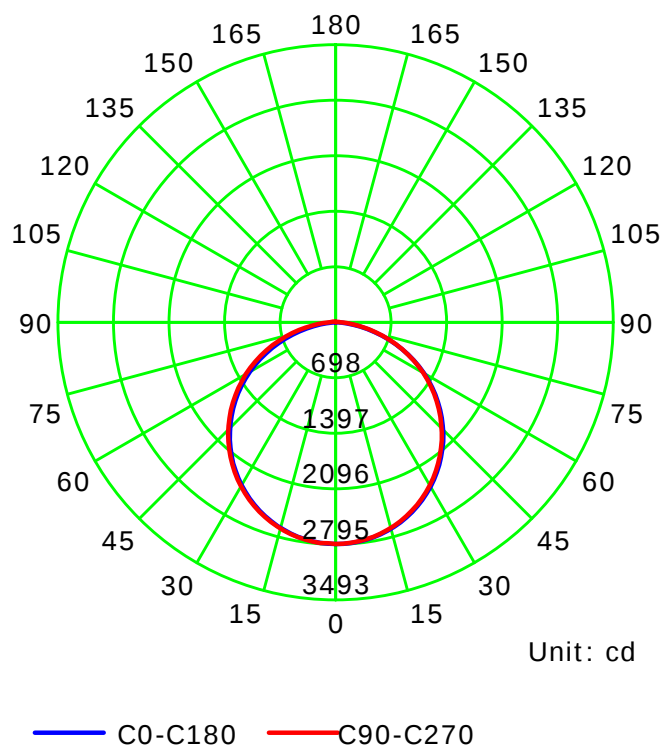
Pos of Max. Intensity: H45 V2

S/MH(C90/C270): 1.27

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

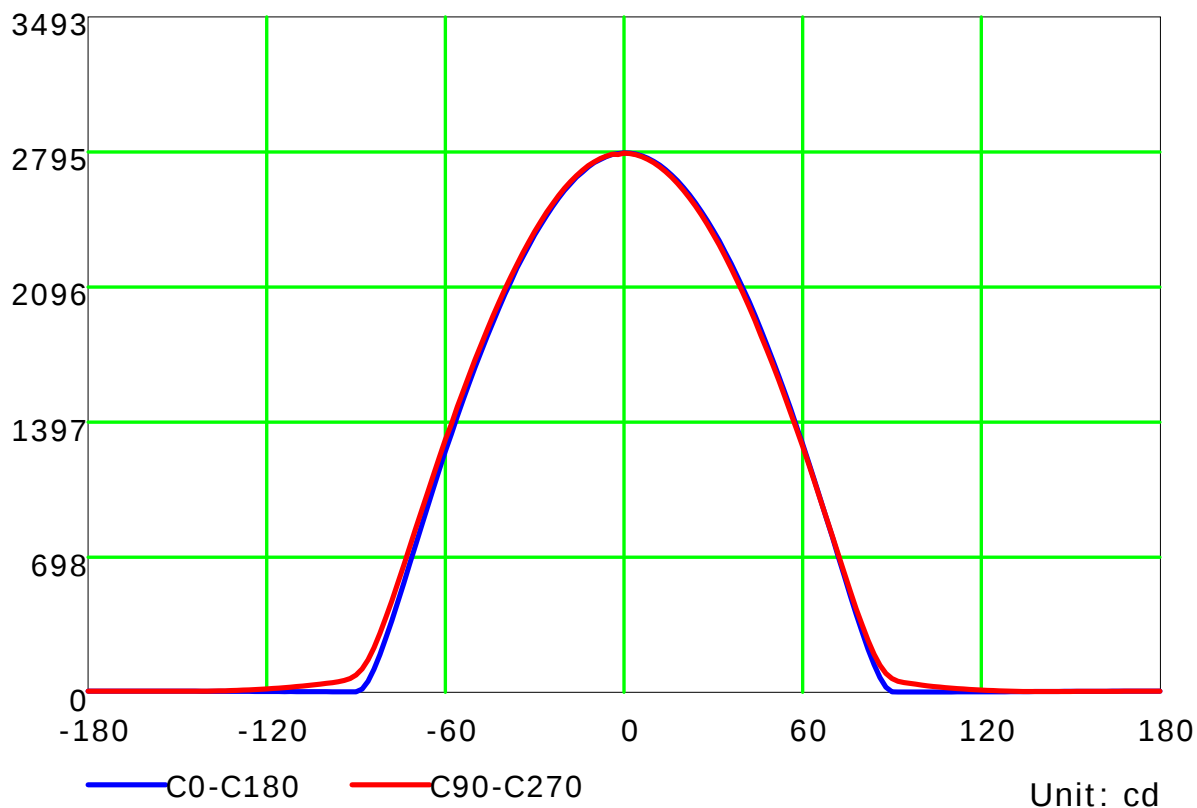
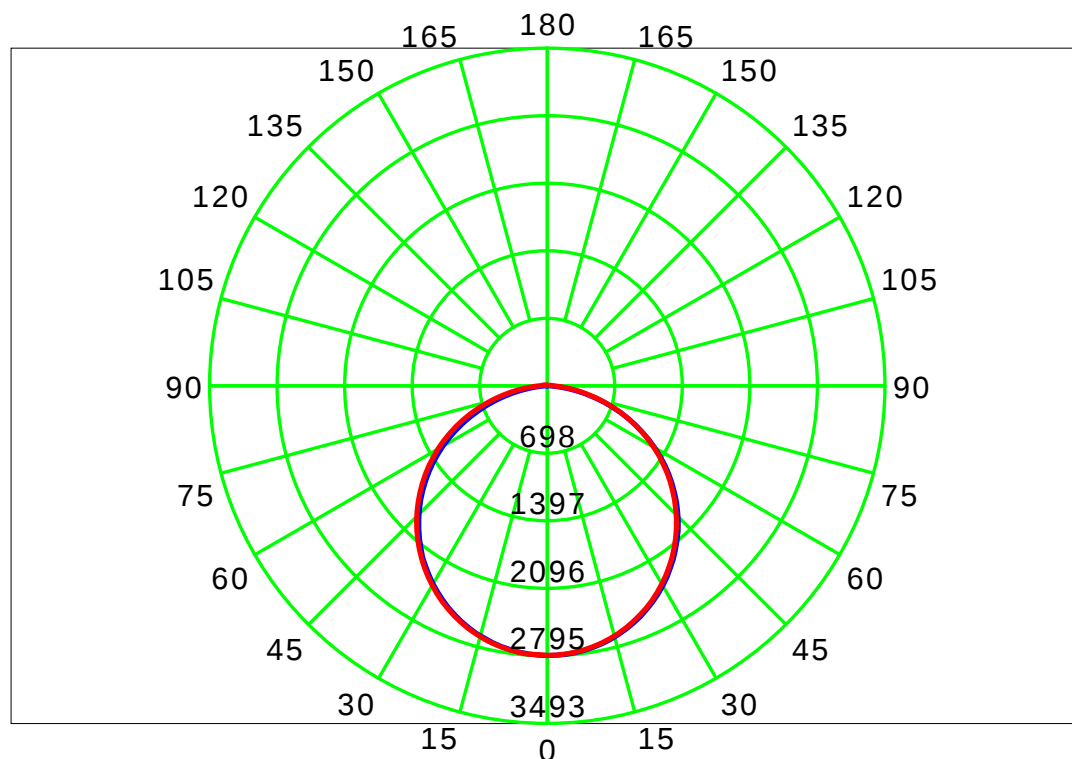
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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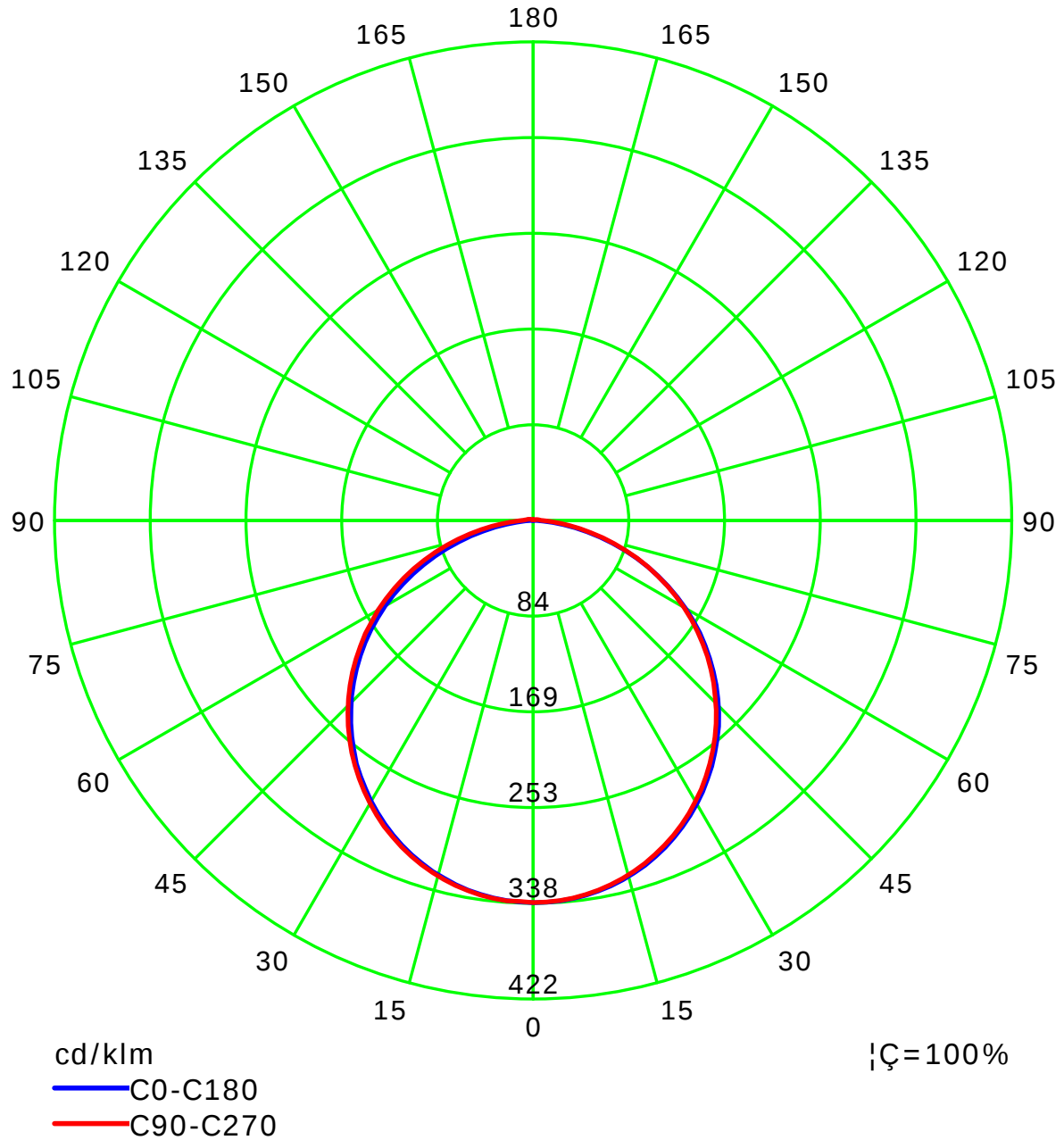
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

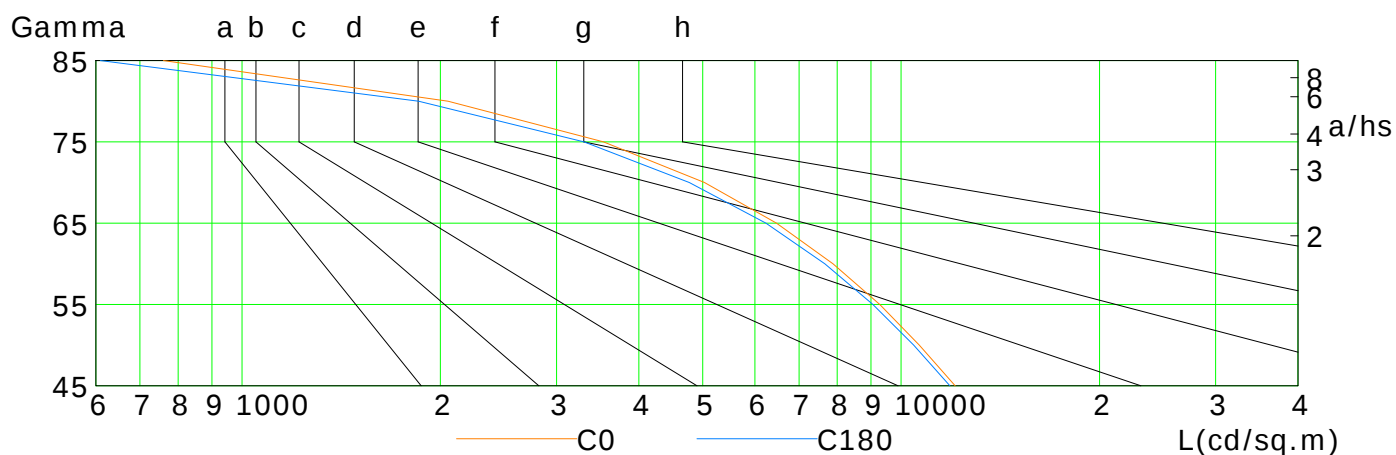
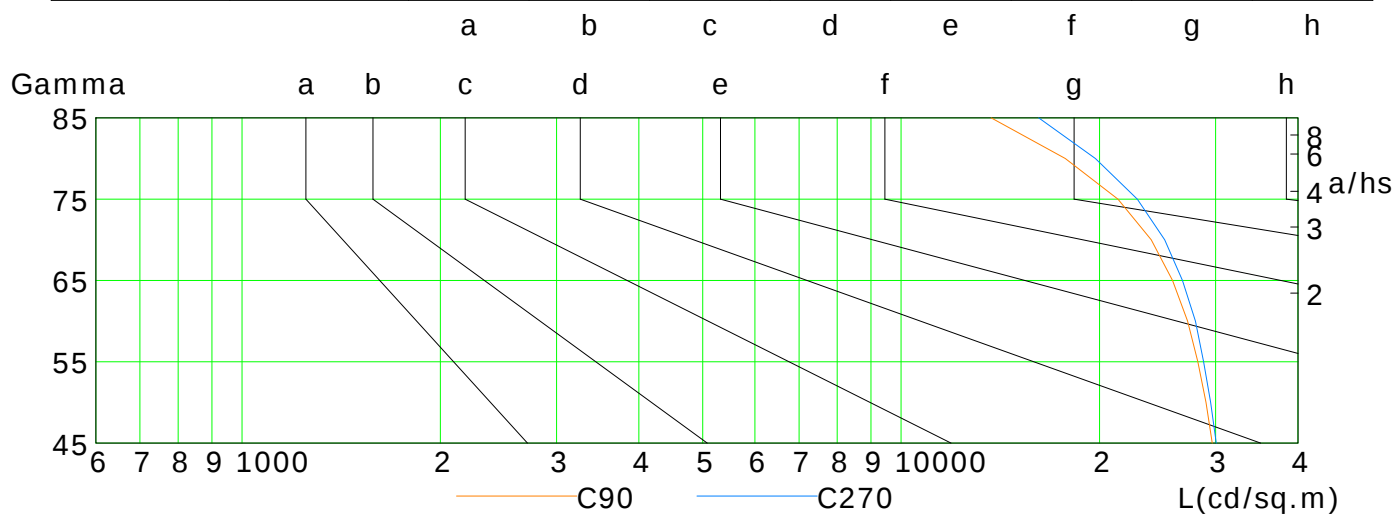
Inspector:

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	12079	10655	9280	7884	6469	5030	3536	2054	760
C90	29657	29005	28195	27207	25810	23966	21334	17742	13693
C180	11858	10448	9058	7663	6235	4770	3303	1853	610
C270	30062	29487	28773	27952	26724	25116	22827	19706	16174

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Temperature:

Operator:

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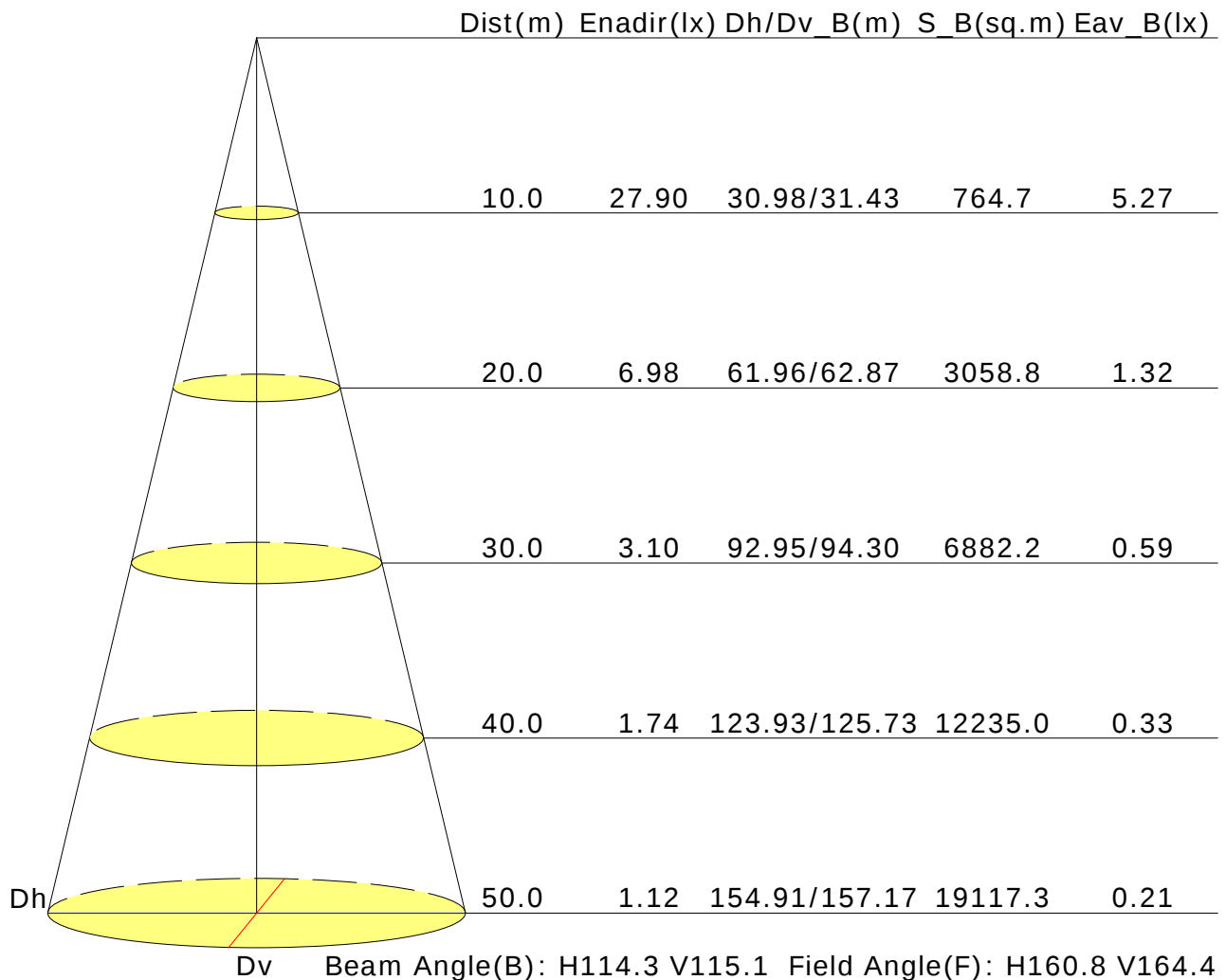
Test Device: LSG-1800B

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	20.5	21.9	20.8	22.2	22.4	22.6	24.0	23.0	24.3	24.6
3H	21.6	22.8	21.9	23.1	23.4	24.2	25.5	24.6	25.8	26.1
4H	21.9	23.1	22.2	23.4	23.7	24.8	26.0	25.2	26.4	26.7
6H	22.0	23.1	22.4	23.5	23.8	25.3	26.4	25.7	26.7	27.1
8H	22.0	23.1	22.4	23.5	23.8	25.5	26.5	25.8	26.9	27.2
12H	22.0	23.1	22.4	23.4	23.8	25.6	26.6	26.0	26.9	27.3
X=4H Y=2H	21.2	22.4	21.5	22.7	23.0	22.9	24.1	23.3	24.4	24.7
3H	22.4	23.4	22.8	23.7	24.1	24.6	25.6	25.0	26.0	26.4
4H	22.8	23.7	23.2	24.1	24.5	25.3	26.2	25.7	26.6	27.0
6H	23.0	23.8	23.4	24.2	24.6	25.9	26.7	26.3	27.1	27.5
8H	23.0	23.8	23.5	24.2	24.6	26.1	26.8	26.5	27.2	27.7
12H	23.0	23.7	23.5	24.2	24.6	26.2	26.9	26.7	27.3	27.8
X=8H Y=4H	23.0	23.8	23.5	24.2	24.6	25.4	26.1	25.8	26.5	27.0
6H	23.3	23.9	23.8	24.4	24.9	26.0	26.6	26.5	27.1	27.5
8H	23.4	23.9	23.9	24.4	24.9	26.2	26.8	26.7	27.2	27.7
12H	23.4	23.9	23.9	24.4	24.9	26.4	26.9	26.9	27.4	27.9
X=12H Y=4H	23.0	23.7	23.5	24.1	24.6	25.4	26.0	25.8	26.5	26.9
6H	23.4	23.9	23.9	24.4	24.9	26.0	26.5	26.5	27.0	27.5
8H	23.4	23.9	24.0	24.4	24.9	26.2	26.7	26.7	27.2	27.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.7					+0.6/-0.7				
S=2.0H	+0.7/-1.4					+1.3/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 8262lm ($8\log(F/F_0) = 7.3$).

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Temperature:

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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	0.55	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.47	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	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	0.87	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	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.68	0.73	0.77	0.81	0.85	
Rating:77W 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	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.47	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.43	0.36	0.32	0.25	0.20	
	0.20		0.71	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.45	0.38	0.32	0.25	0.20	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
Rating:77W 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	0.19	0.19	0.20	0.21	0.22	0.22	0.22	0.23	
	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	0.09	0.10	0.12	0.13	0.15	0.16	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	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	0.17	0.19	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	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:77W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												