

Report No.: 1

Test Time: 25.03.2020 23:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 3000K 2x25-90 gr

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 228.8 V

Current: 0.204 A

Power: 45.53 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 6368.9 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 6368.9 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 132.0, 133.3, 134.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.3, 70.6, 84.4, 85.2

Luminaire Efficacy Rating (LER): 139.93

Central Intensity: 1928.79 cd

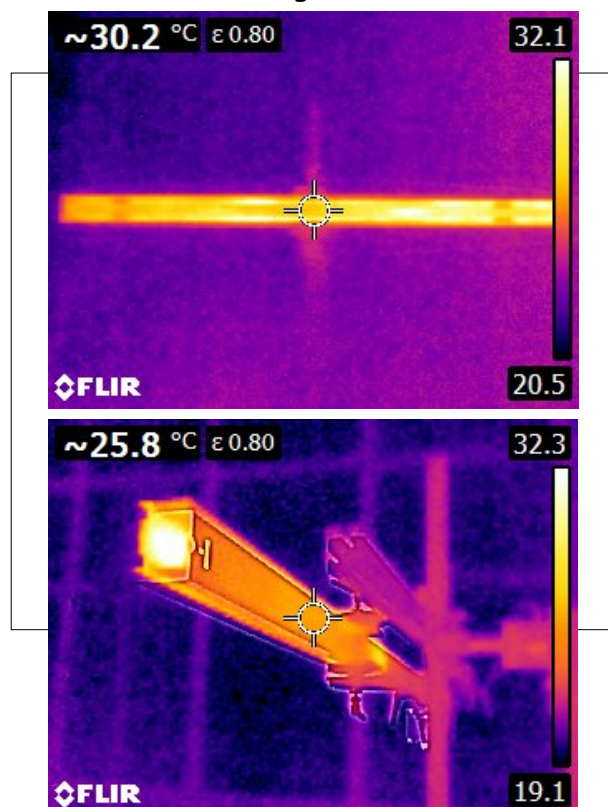
Max. Intensity: 3800.59 cd

Pos of Max. Intensity: H90 V20

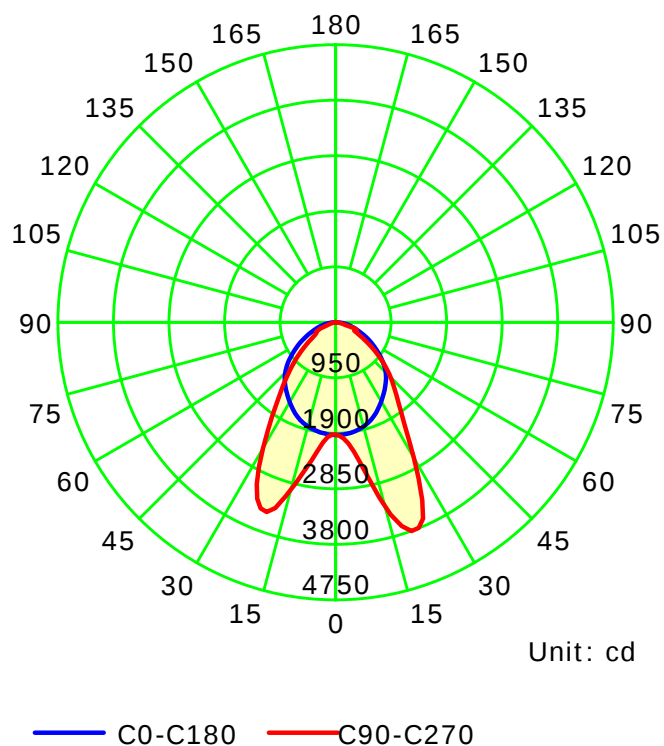
S/MH(C0/C180): 1.21

S/MH(C90/C270): 1.45

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

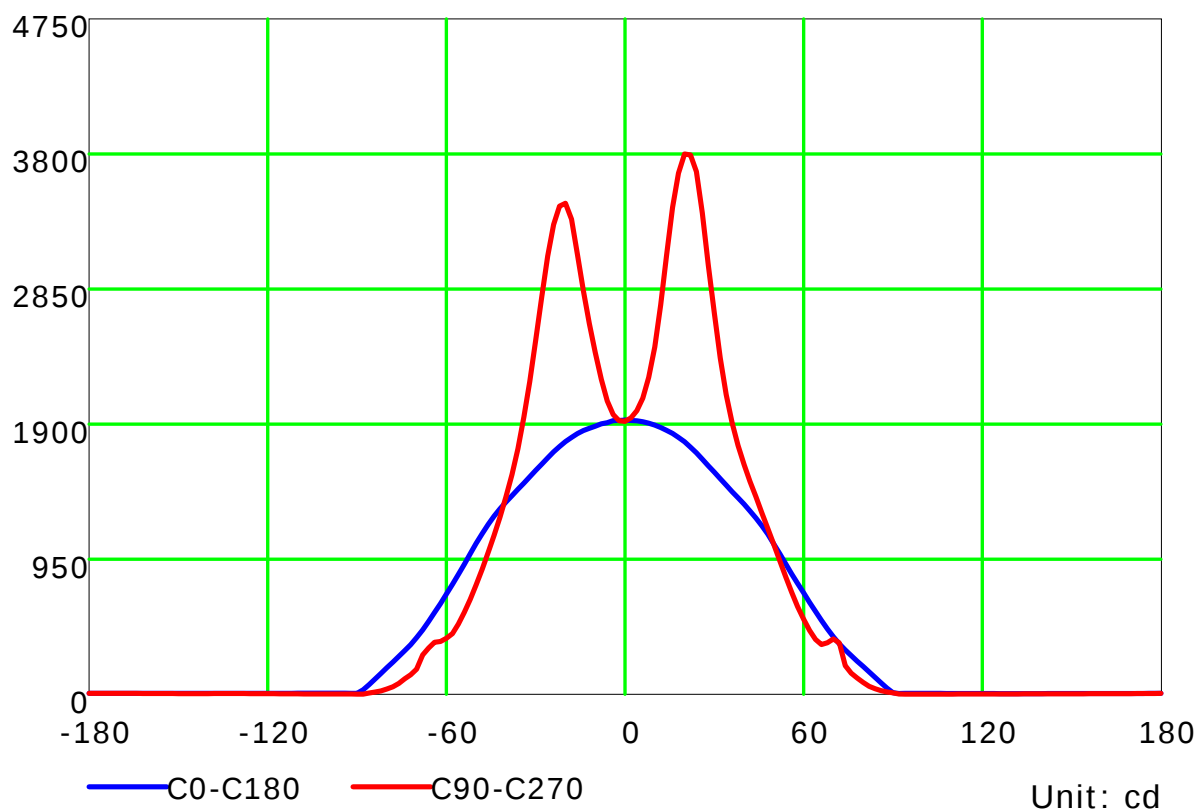
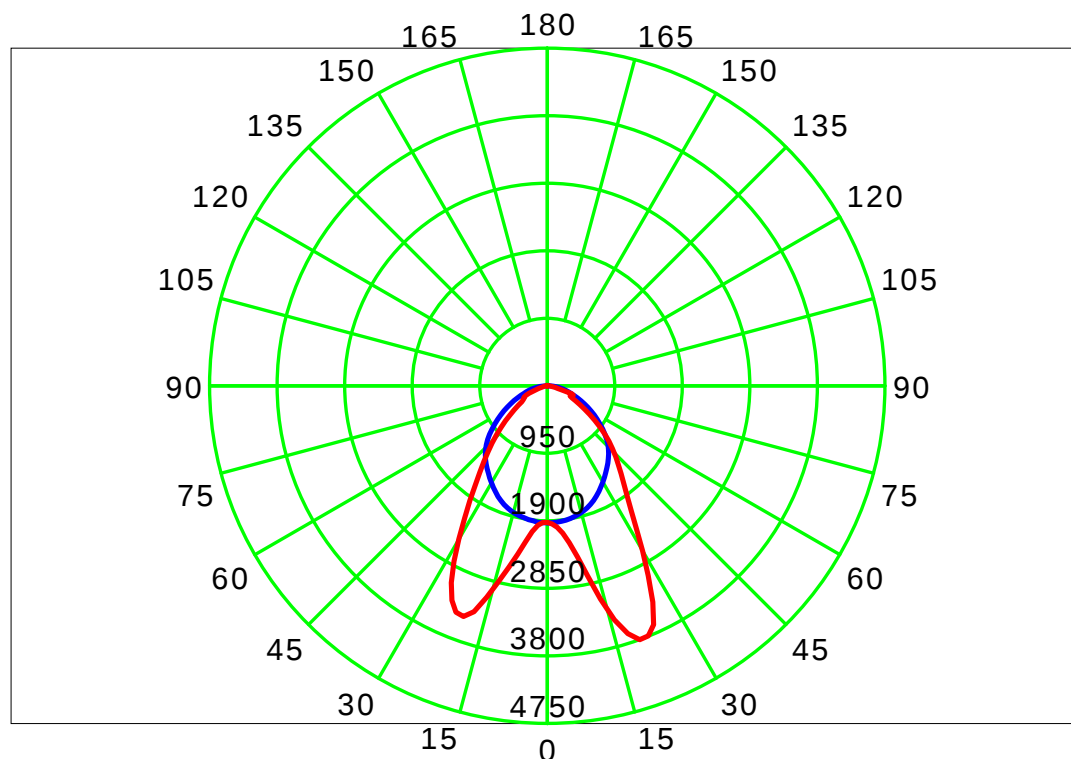
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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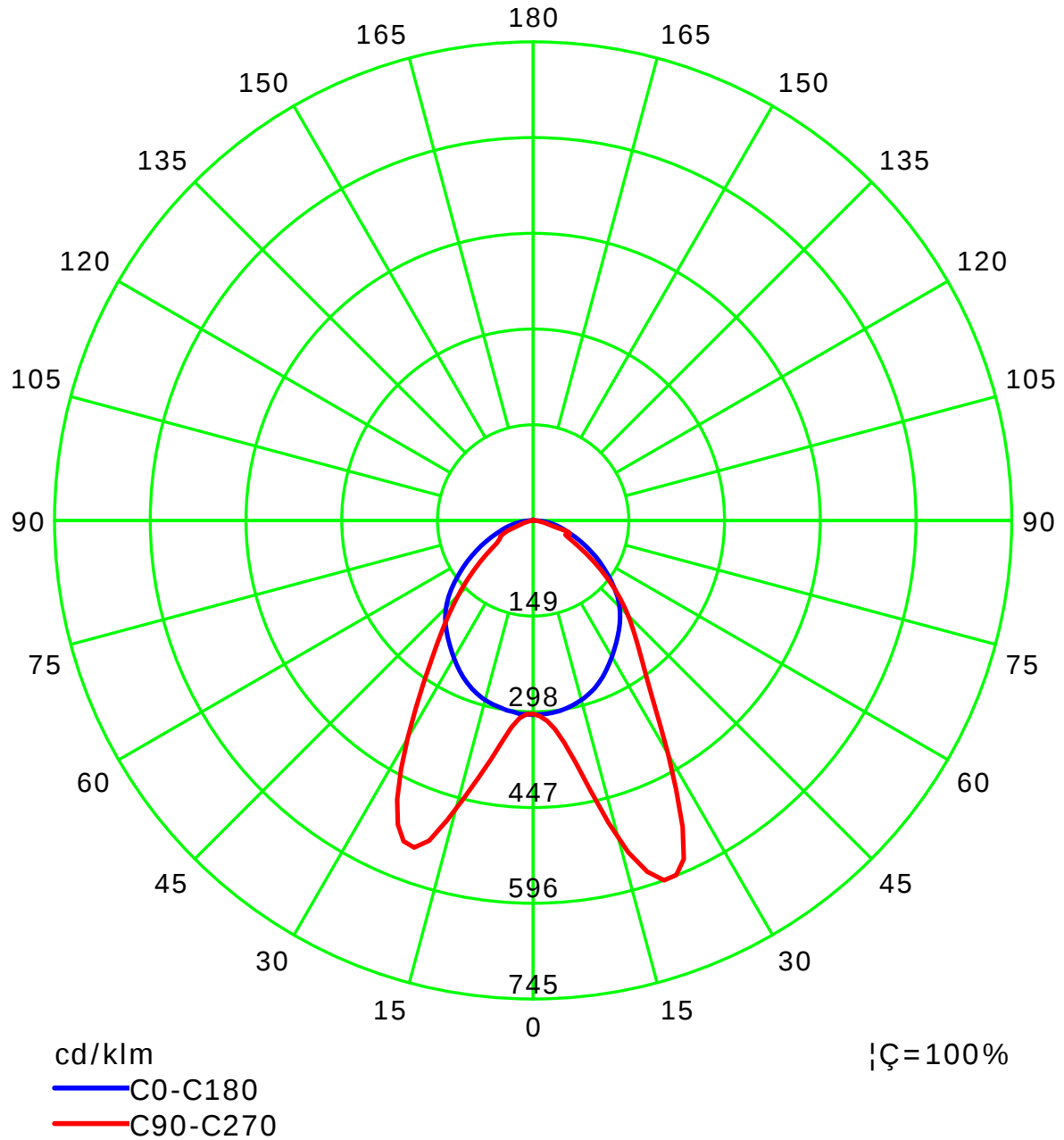
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Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Test Device: LSG-1800B

Distance: 12.677 m

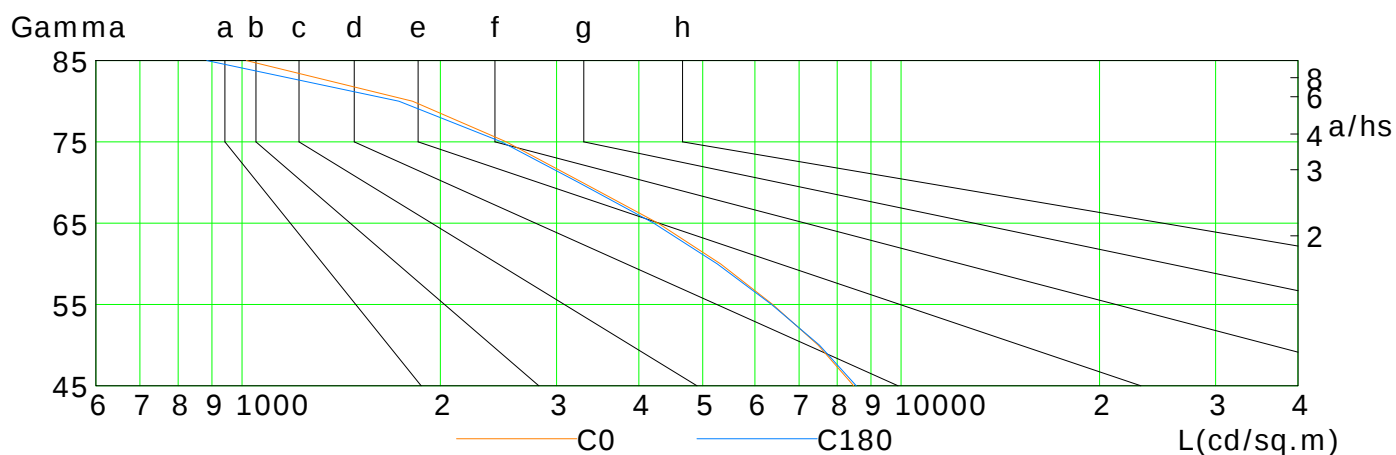
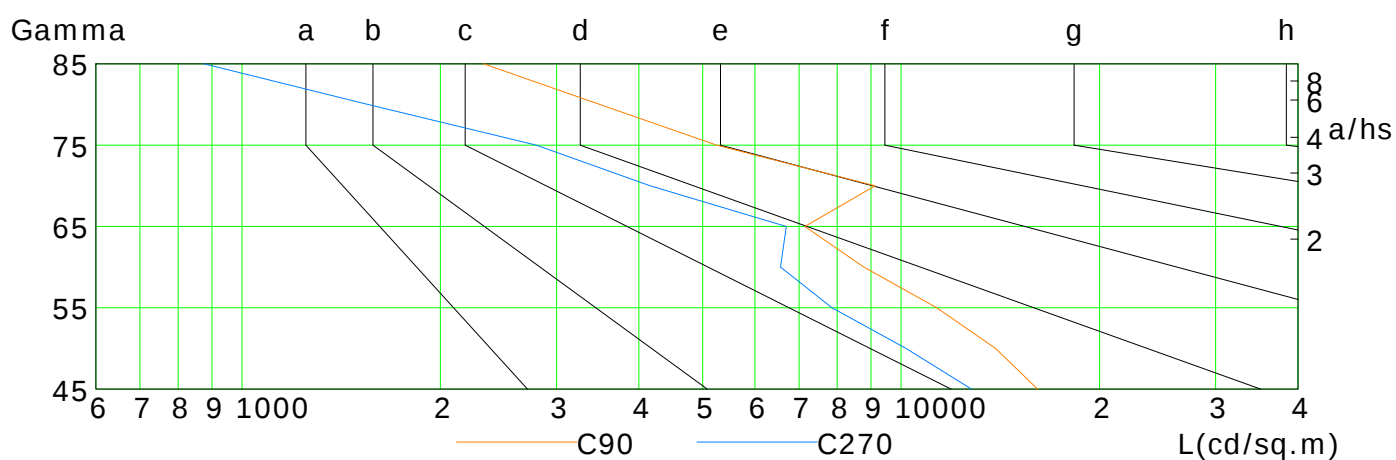
Humidity:

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	8472	7482	6385	5321	4278	3285	2518	1814	1015
C90	16112	13905	11327	8779	7144	9133	5249	3492	2327
C180	8547	7517	6360	5257	4214	3242	2475	1730	884
C270	12789	10170	7858	6563	6696	4161	2797	1553	877

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

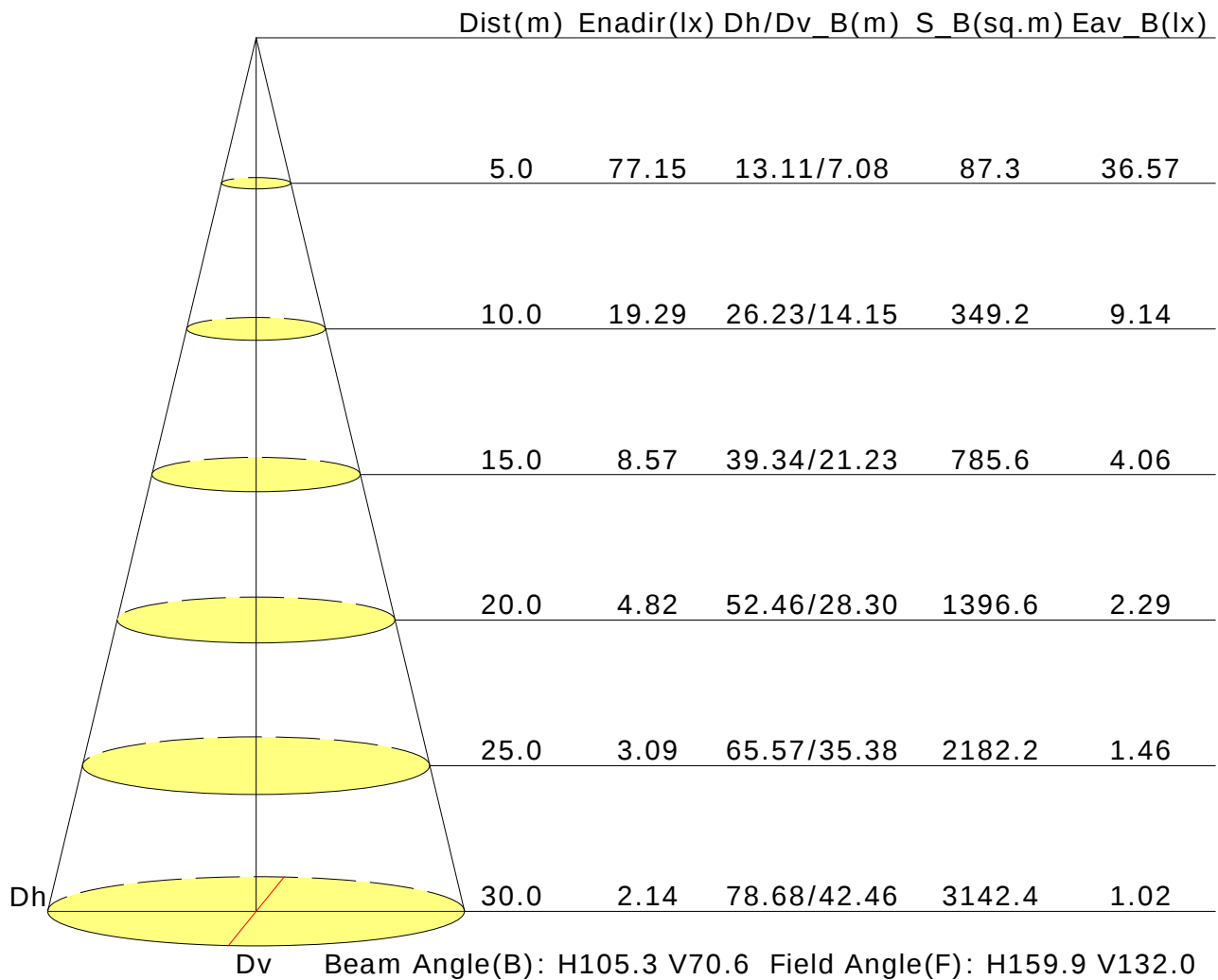
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	19.9	21.1	20.2	21.3	21.6	18.8	20.0	19.1	20.3	20.5
3H	20.4	21.5	20.7	21.8	22.1	19.6	20.7	19.9	21.0	21.2
4H	20.6	21.6	20.9	21.9	22.2	19.8	20.9	20.2	21.2	21.5
6H	20.7	21.7	21.1	22.0	22.3	19.9	20.9	20.2	21.2	21.5
8H	20.7	21.7	21.1	22.0	22.3	19.9	20.8	20.2	21.1	21.5
12H	20.7	21.7	21.1	22.0	22.3	19.8	20.7	20.2	21.1	21.4
X=4H Y=2H	19.9	21.0	20.3	21.3	21.6	19.0	20.1	19.4	20.4	20.7
3H	20.6	21.6	21.0	21.9	22.2	19.9	20.9	20.3	21.2	21.5
4H	20.9	21.7	21.3	22.1	22.5	20.3	21.1	20.7	21.4	21.8
6H	21.2	21.9	21.6	22.3	22.7	20.4	21.1	20.8	21.5	21.9
8H	21.2	21.9	21.7	22.3	22.7	20.4	21.0	20.8	21.4	21.9
12H	21.3	21.9	21.7	22.3	22.7	20.4	21.0	20.8	21.4	21.8
X=8H Y=4H	21.0	21.6	21.4	22.0	22.5	20.3	21.0	20.8	21.4	21.8
6H	21.3	21.8	21.8	22.3	22.7	20.5	21.0	21.0	21.5	21.9
8H	21.4	21.9	21.9	22.3	22.8	20.5	21.0	21.0	21.4	21.9
12H	21.5	21.9	22.0	22.4	22.9	20.5	20.9	21.0	21.4	21.9
X=12H Y=4H	21.0	21.6	21.4	22.0	22.4	20.3	20.9	20.8	21.4	21.8
6H	21.3	21.7	21.8	22.2	22.7	20.5	20.9	21.0	21.4	21.9
8H	21.4	21.8	21.9	22.3	22.8	20.5	20.9	21.0	21.4	21.9
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.0					+0.7/-1.0				
S=1.5H	+1.9/-1.8					+1.3/-1.8				
S=2.0H	+3.2/-2.5					+2.4/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6369Im ($8\log(F/F_0) = 6.4$).

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Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.70	0.78	0.84	0.88	0.94	0.98	1.01	1.04	1.06	
	0.30		0.64	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.67	0.73	0.78	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	0.68	0.76	0.82	0.86	0.91	0.95	0.97	1.00	1.02	
	0.30		0.63	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.59	0.66	0.73	0.77	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.74	0.79	0.83	0.88	0.91	0.94	0.96	0.98	
	0.30		0.62	0.69	0.75	0.79	0.85	0.88	0.91	0.94	0.97	
	0.20		0.58	0.65	0.72	0.76	0.82	0.86	0.89	0.92	0.95	
0.00	0.00	0.00	0.56	0.63	0.69	0.73	0.79	0.82	0.85	0.88	0.90	
Rating:46W 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 = 1.50									
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	0.79	0.66	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.66	0.57	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.76	0.63	0.53	0.46	0.36	0.33	0.25	0.20	0.16	
	0.30		0.64	0.55	0.47	0.41	0.33	0.27	0.24	0.18	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	0.74	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.53	0.45	0.39	0.31	0.26	0.22	0.18	0.14	
	0.20		0.55	0.47	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.37	0.31	0.26	0.21	0.17	0.15	0.12	0.09	
Rating:46W 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 = 1.50									
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	0.17	0.18	0.18	0.19	0.20	0.21	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	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	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	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	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	0.07	0.09	0.10	0.12	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:46W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												