

Report No.:

Test Time: 30.10.2020 16:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 25LED 0.45A 55Wx2 5000K prozrachniy

Number of Lamps: 1

Lumens per Lamp: 13378.9 lm

Luminous Length (mm): 55 mm

Luminous Width (mm): 1245 mm

Luminous Height (mm): 80 mm

Voltage: 221.4 V

Current: 0.496 A

Power: 107.91 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 13378.9 lm

Measurement Flux: 13378.9 lm

Efficiency: 100.00%

Downward Ratio: 99.69%

Upward Ratio: 0.32%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.0, 117.8, 133.3, 133.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.3, 109.2, 113.9, 114.2

Luminaire Efficacy Rating (LER): 124.03

Central Intensity: 5214.98 cd

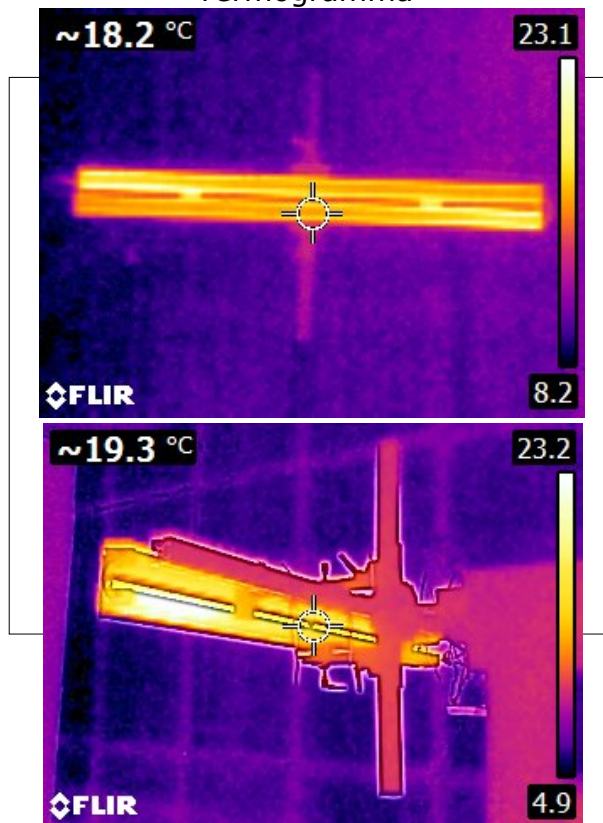
Max. Intensity: 5220.48 cd

Pos of Max. Intensity: H45 V2

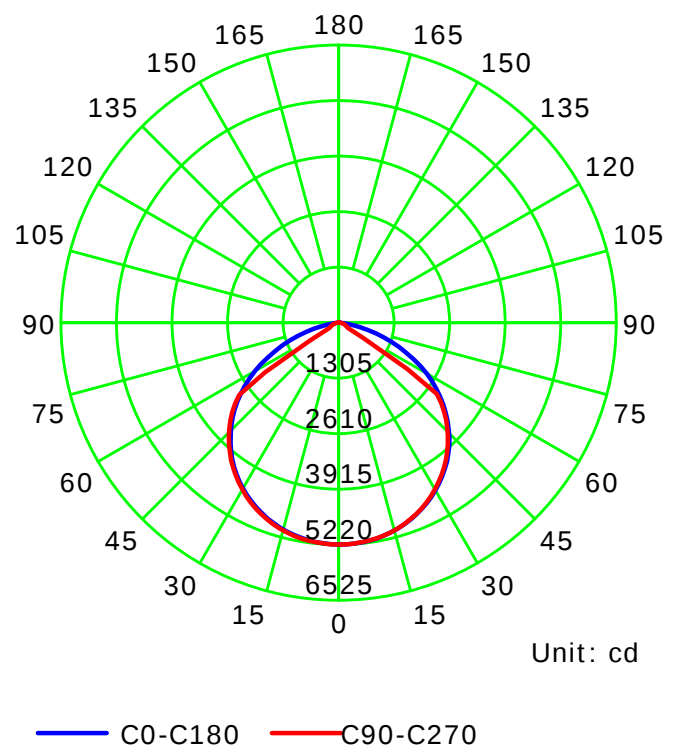
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.29

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.682 m

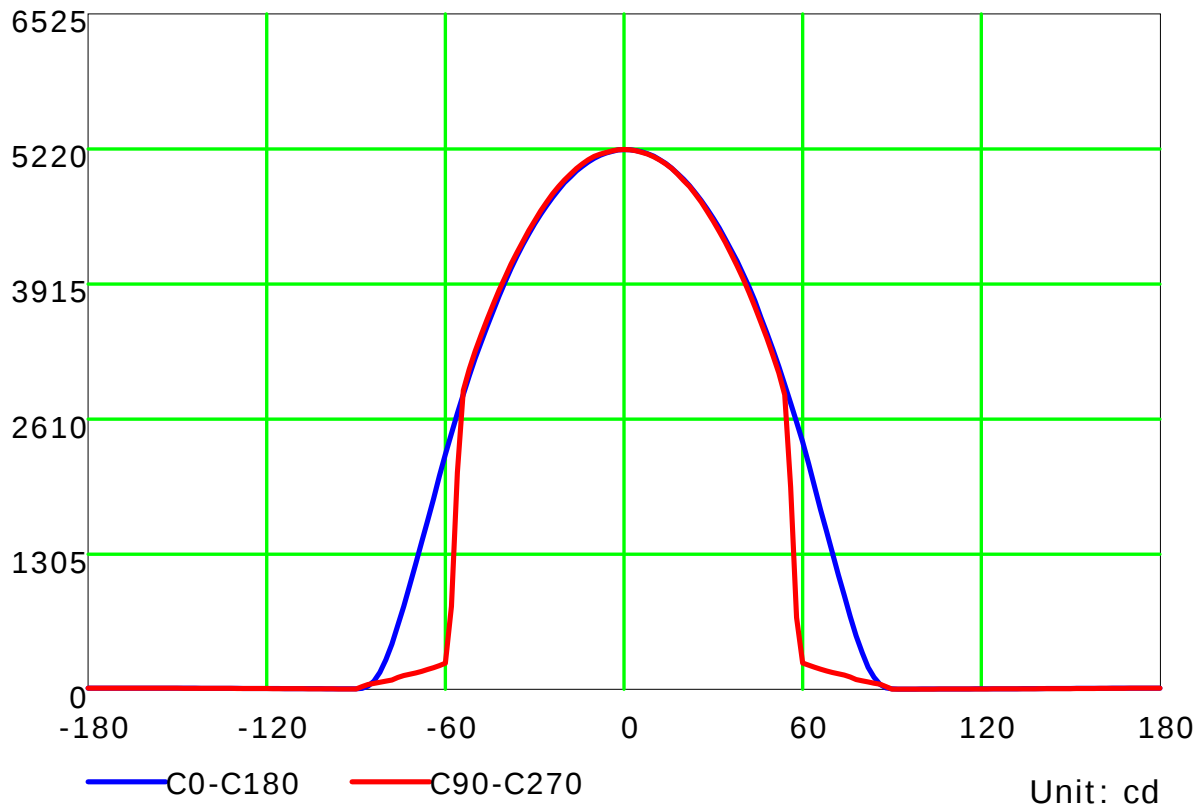
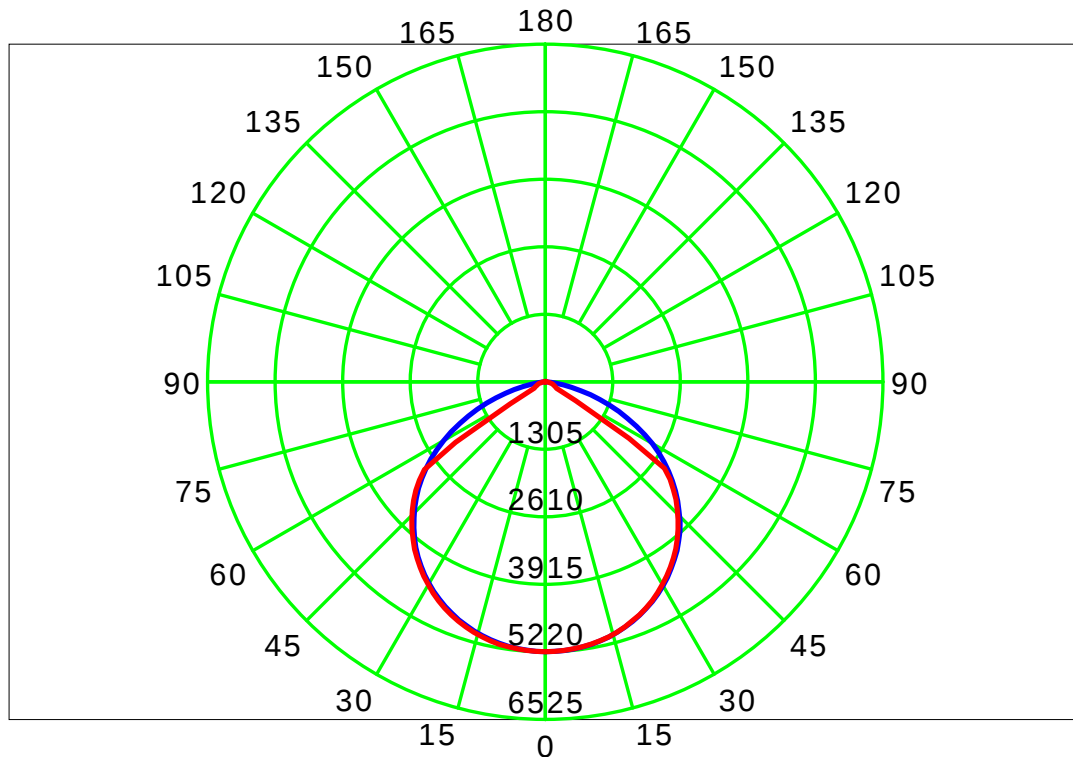
Temperature:

Humidity:

Operator:

Inspector:

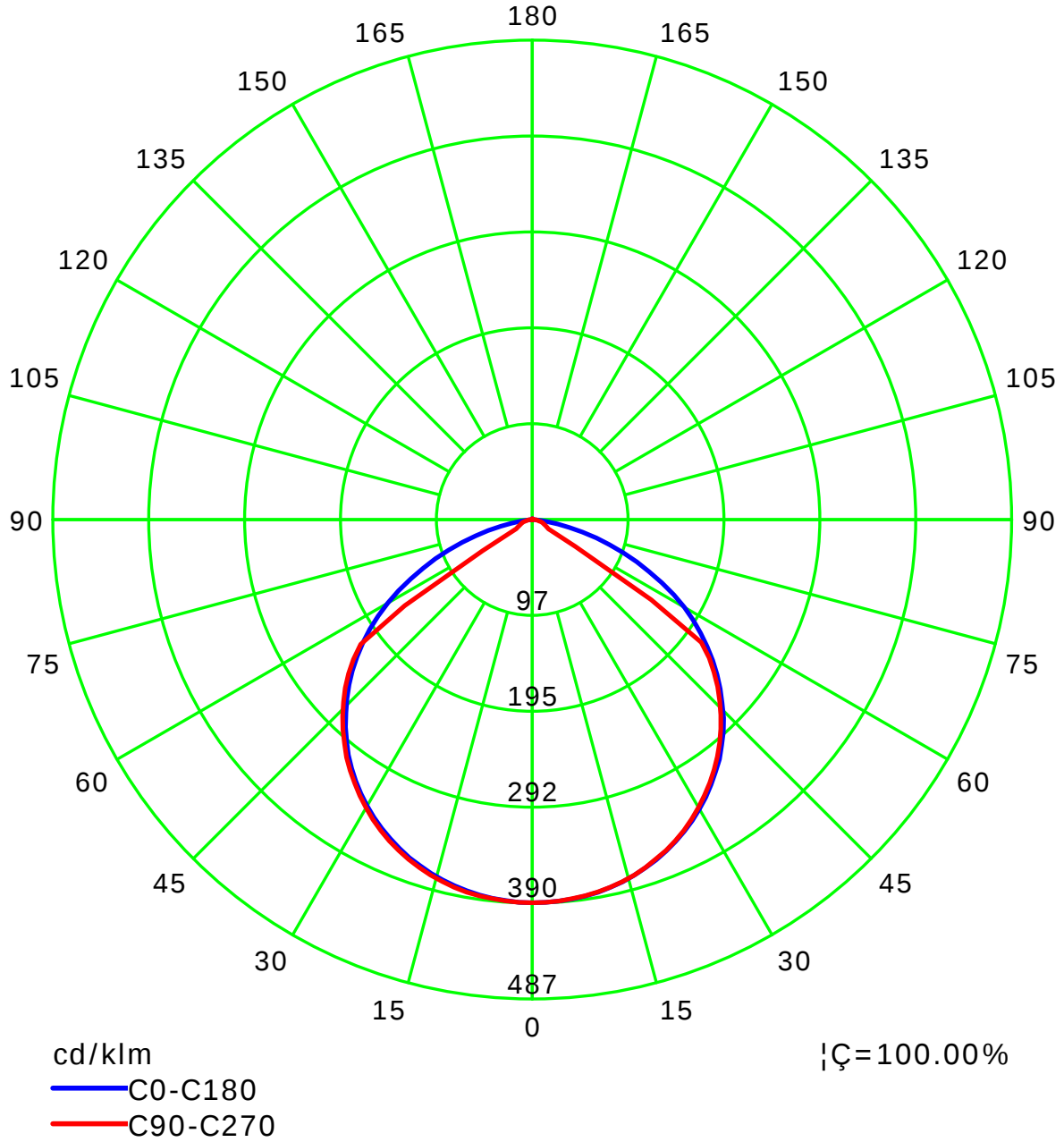
Luminous Intensity Distribution Curve



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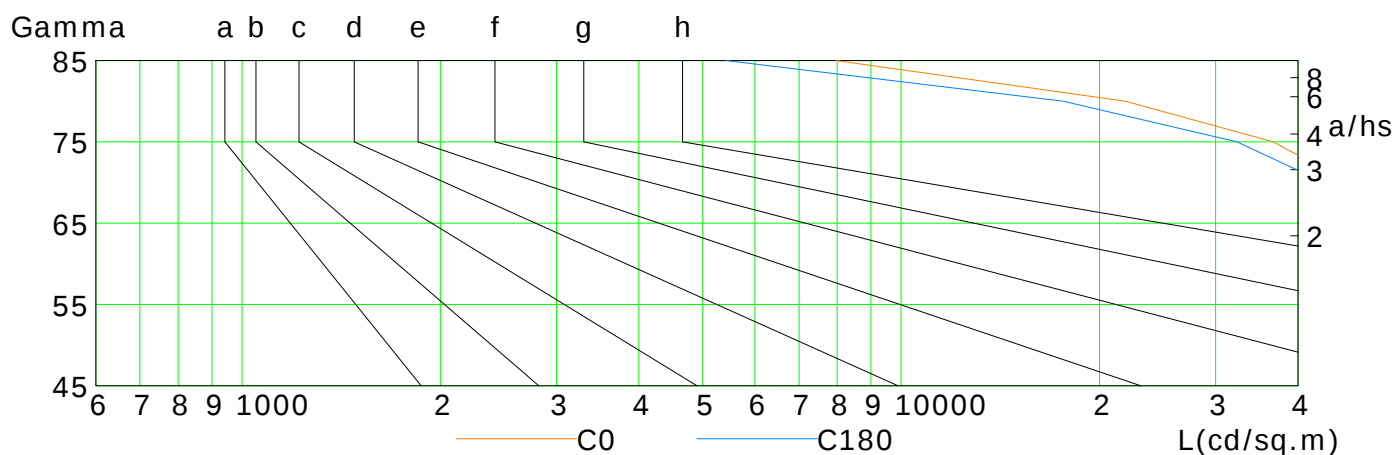
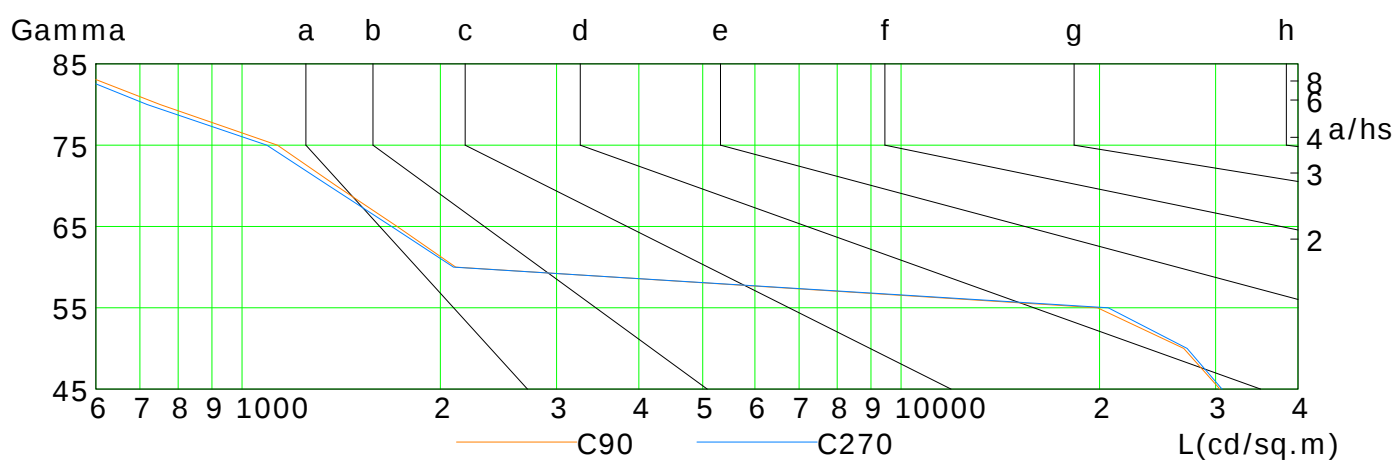
Luminous Intensity Distribution Curve(cd / klm)



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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	71271	69302	66569	62870	56215	47823	36682	21883	7972
C90	30464	26836	19856	2110	1720	1390	1131	751	522
C180	69496	67500	64332	59673	52669	43885	32333	17617	5426
C270	30671	27151	20612	2094	1686	1355	1090	718	504

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

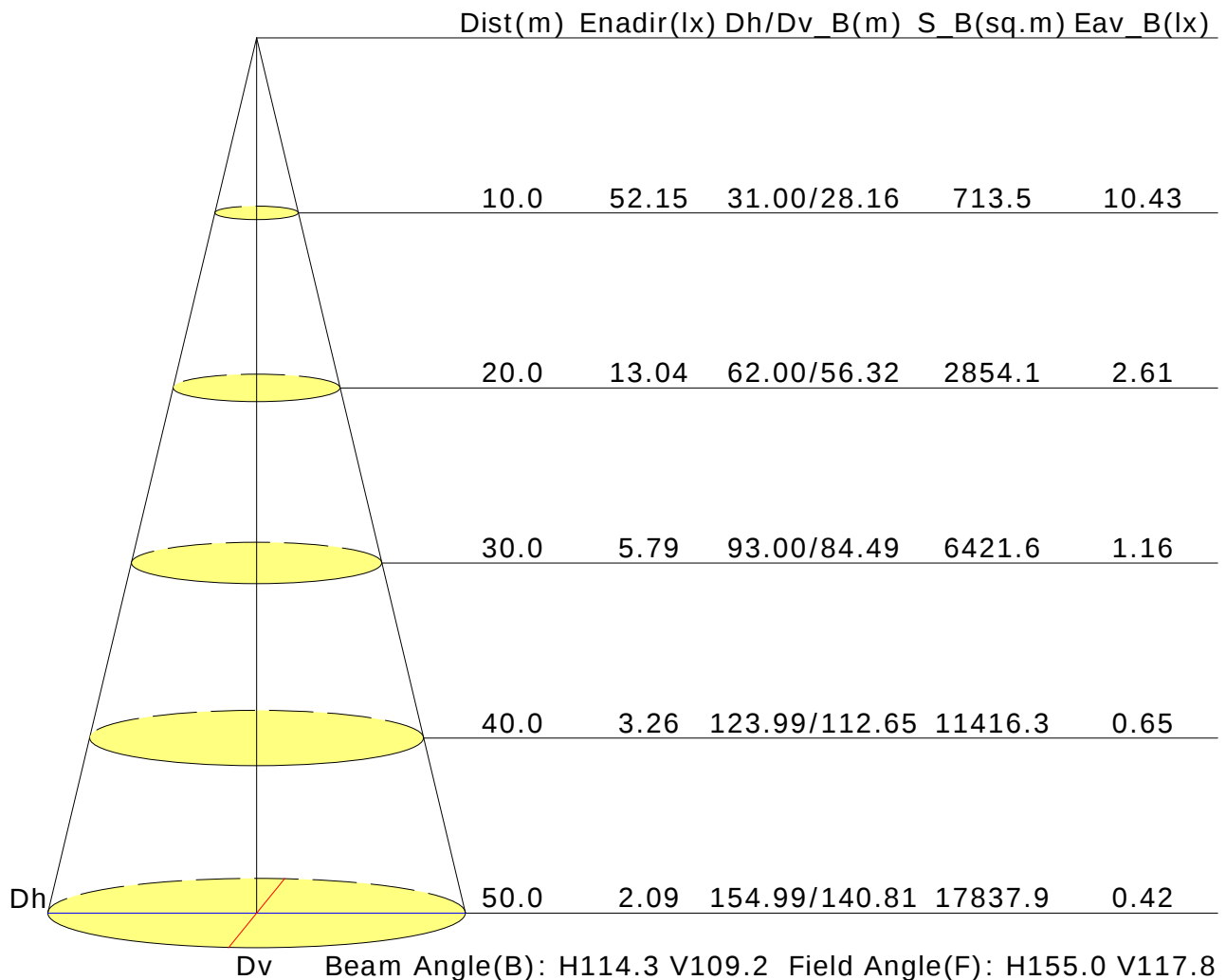
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

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	26.2	27.4	26.5	27.7	27.9	22.8	24.1	23.1	24.3	24.6
3H	27.4	28.6	27.7	28.8	29.1	22.7	23.8	23.0	24.1	24.4
4H	27.8	28.9	28.1	29.2	29.5	22.6	23.7	22.9	24.0	24.3
6H	27.9	28.9	28.2	29.2	29.5	22.5	23.5	22.9	23.8	24.2
8H	27.9	28.9	28.3	29.2	29.5	22.5	23.4	22.8	23.8	24.1
12H	27.9	28.8	28.2	29.1	29.5	22.4	23.4	22.8	23.7	24.0
X=4H Y=2H	26.2	27.3	26.6	27.6	27.9	23.3	24.4	23.7	24.7	25.0
3H	27.5	28.5	27.9	28.8	29.1	23.2	24.1	23.6	24.4	24.8
4H	28.0	28.8	28.4	29.2	29.5	23.1	24.0	23.5	24.3	24.7
6H	28.1	28.8	28.5	29.2	29.6	23.1	23.8	23.5	24.2	24.6
8H	28.1	28.7	28.5	29.1	29.6	23.0	23.7	23.5	24.1	24.5
12H	28.1	28.7	28.5	29.1	29.5	23.0	23.6	23.5	24.0	24.5
X=8H Y=4H	27.9	28.5	28.3	28.9	29.4	23.1	23.8	23.6	24.2	24.6
6H	28.0	28.5	28.5	29.0	29.4	23.1	23.6	23.6	24.1	24.5
8H	28.0	28.5	28.5	28.9	29.4	23.1	23.5	23.6	24.0	24.5
12H	28.0	28.4	28.5	28.9	29.4	23.1	23.4	23.6	23.9	24.4
X=12H Y=4H	27.8	28.4	28.3	28.9	29.3	23.1	23.7	23.6	24.1	24.6
6H	28.0	28.4	28.4	28.9	29.4	23.1	23.5	23.6	24.0	24.5
8H	28.0	28.4	28.5	28.8	29.3	23.0	23.4	23.5	23.9	24.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.8/-1.0				
S=1.5H	+0.7/-0.8					+2.1/-9.8				
S=2.0H	+1.7/-2.2					+3.2/-12.7				

Calculate in accordance with CIE Pub.117. The table is revised with 13379lm ($8\log(F/F_0) = 9.0$).

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:

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	0.61	0.72	0.80	0.85	0.92	0.97	1.00	1.04	1.07	
	0.30		0.54	0.65	0.73	0.79	0.87	0.92	0.96	1.01	1.04	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.59	0.70	0.78	0.83	0.89	0.93	0.96	1.00	1.03	
	0.30		0.53	0.64	0.72	0.77	0.85	0.89	0.93	0.97	1.00	
	0.20		0.48	0.59	0.67	0.73	0.81	0.86	0.90	0.95	0.98	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.96	0.99	
	0.30		0.52	0.63	0.70	0.75	0.82	0.87	0.90	0.94	0.97	
	0.20		0.47	0.59	0.66	0.72	0.79	0.84	0.87	0.92	0.95	
0.00	0.00	0.00	0.45	0.56	0.64	0.69	0.76	0.80	0.83	0.87	0.90	
Rating:108W 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	0.95	0.76	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.65	0.55	0.48	0.39	0.32	0.28	0.22	0.18	
	0.20		0.68	0.57	0.49	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.92	0.73	0.61	0.52	0.41	0.37	0.28	0.22	0.17	
	0.30		0.78	0.63	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.89	0.70	0.58	0.50	0.39	0.32	0.27	0.20	0.17	
	0.30		0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.19	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.56	0.45	0.37	0.32	0.25	0.21	0.18	0.13	0.11	
Rating:108W 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	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	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	0.11	0.12	0.14	0.15	0.16	0.17	0.18	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	0.15	0.16	0.17	0.18	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		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
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:108W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												