

Report No.: 1

Test Time: 24.12.2019 15:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 190 2x210LED 0.7A 80W 4000K zakaleenooe steklo krezet

Luminous Length (mm): 1200

Luminous Width (mm): 190

Luminous Height (mm): 80

Voltage: 221.4 V

Current: 0.365 A

Power: 79.04 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 9304.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 9304.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 126.8, 87.8, 103.1, 103.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.8, 46.9, 57.7, 58.5

Luminaire Efficacy Rating (LER): 117.77

Central Intensity: 7694.49 cd

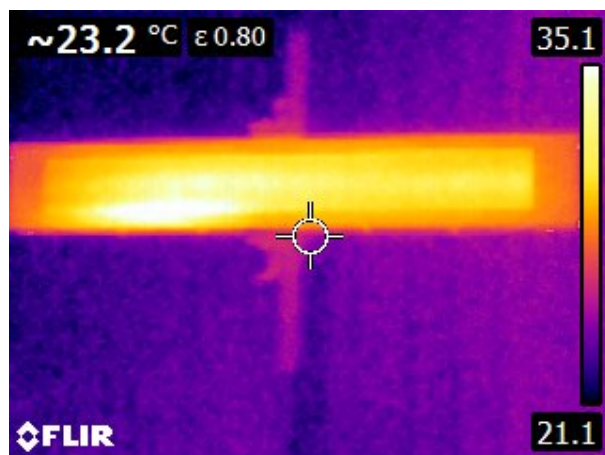
Max. Intensity: 7695.09 cd

Pos of Max. Intensity: H67.5 V0

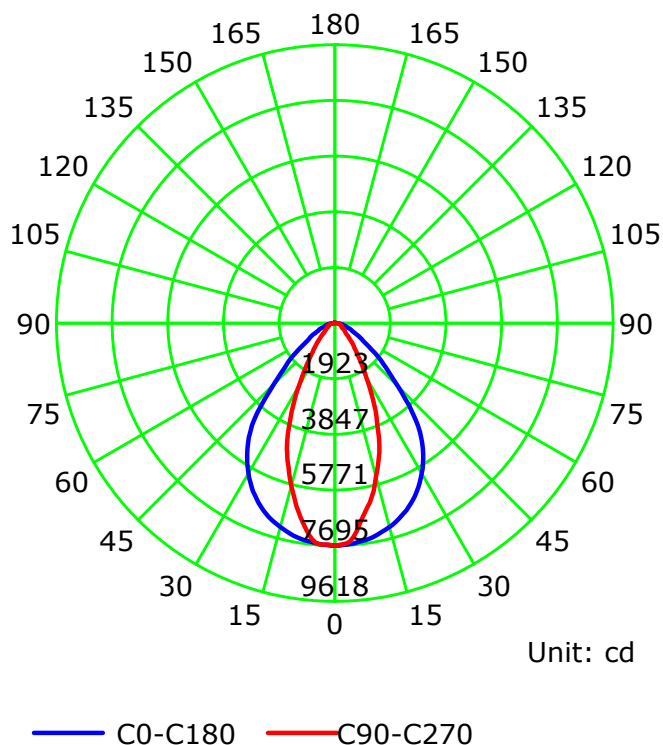
S/MH(C0/C180): 1.17

S/MH(C90/C270): 0.73

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

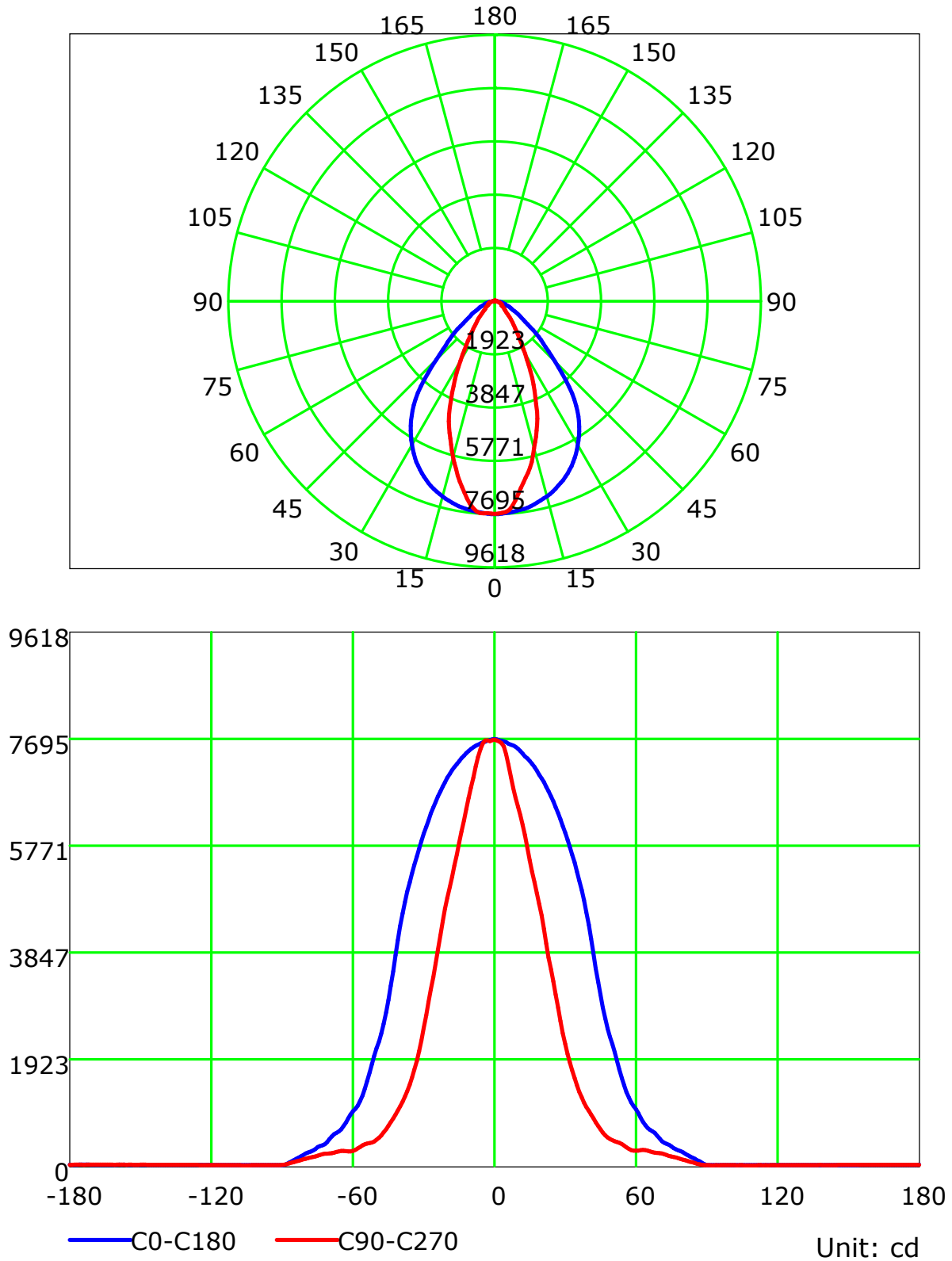
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

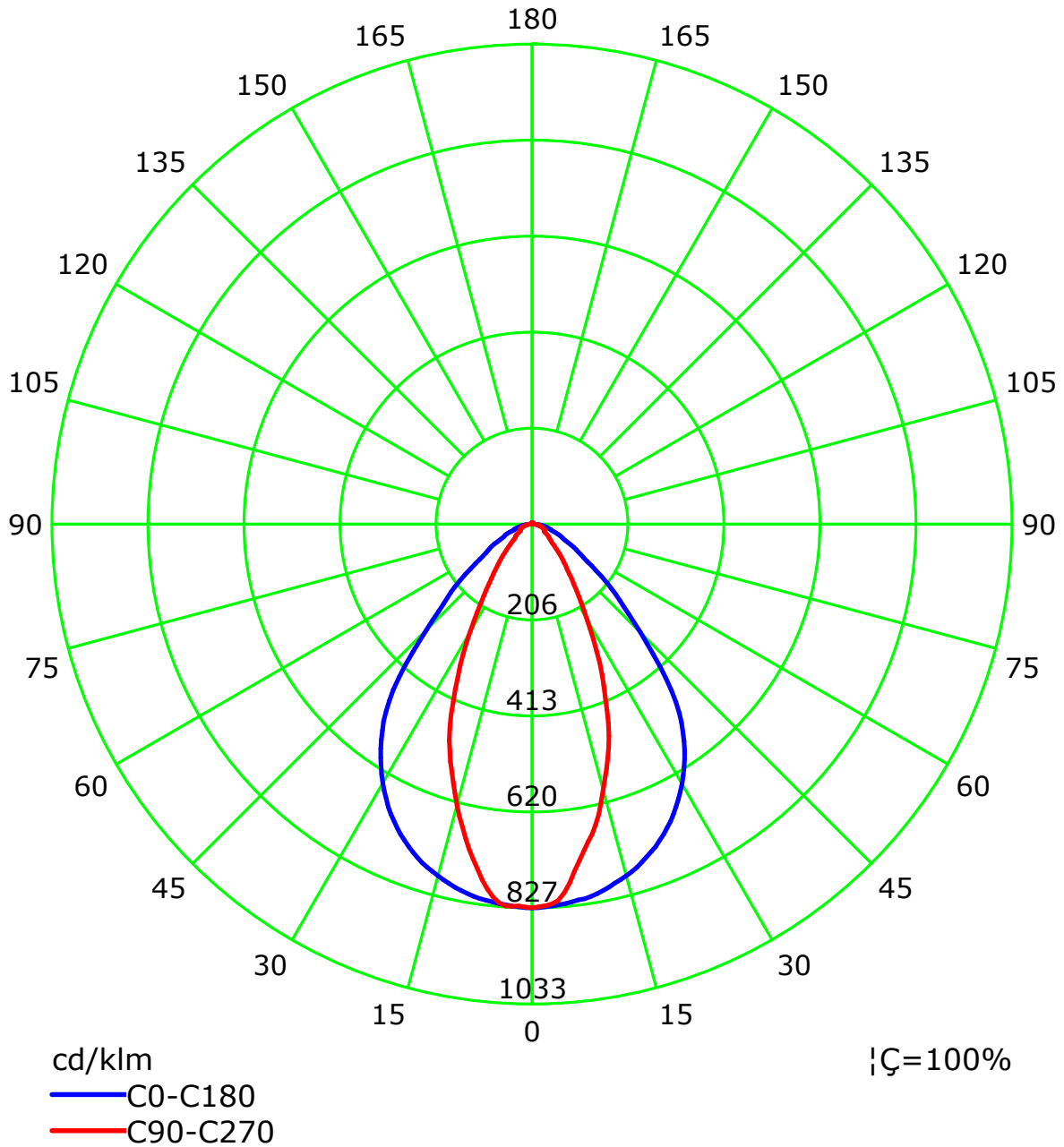
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

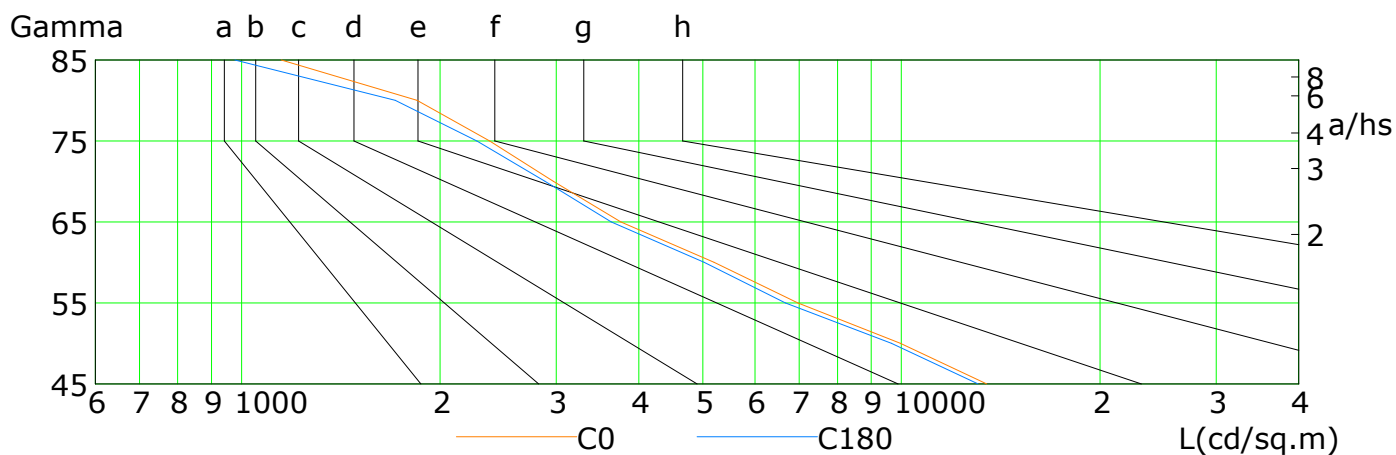
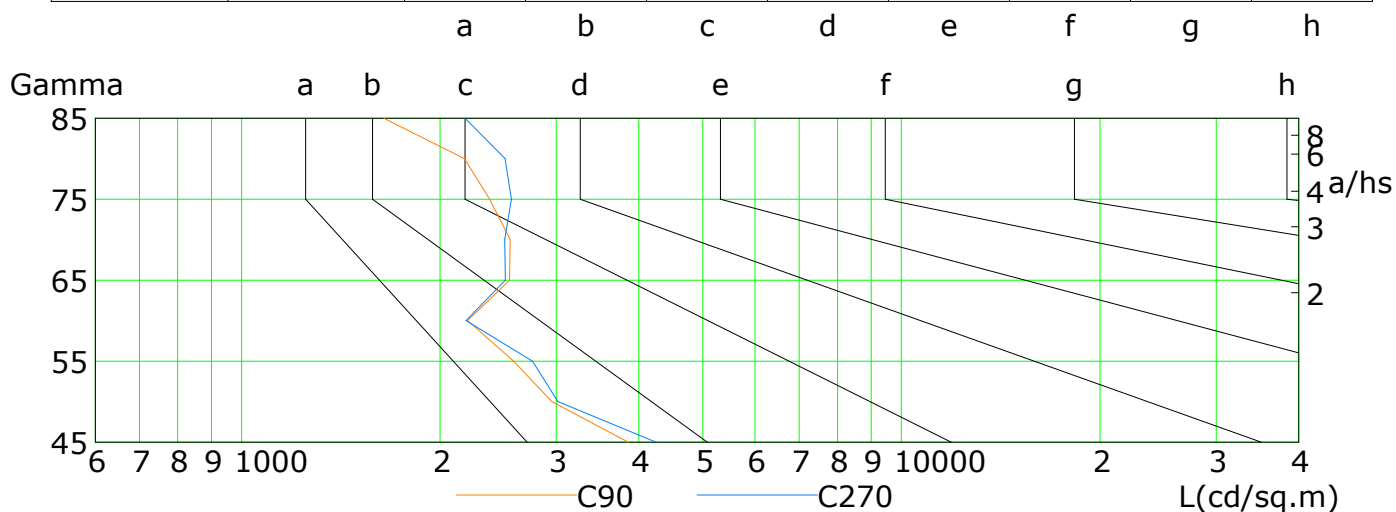


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
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

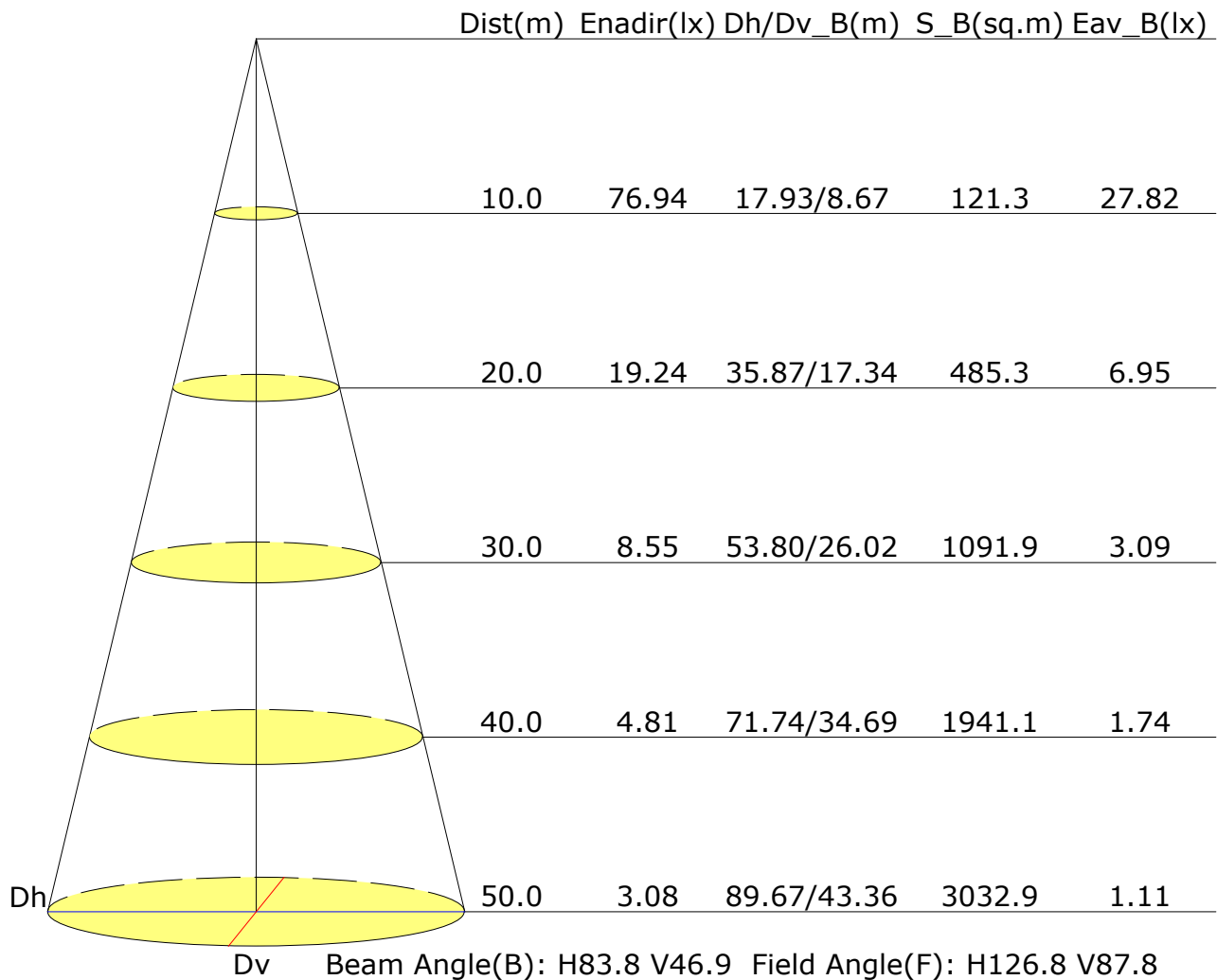


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13465	9966	6966	5201	3759	2969	2376	1844	1148
C90	3857	2953	2585	2200	2548	2553	2376	2177	1642
C180	13062	9651	6675	5021	3635	2883	2273	1710	977
C270	4248	3015	2760	2188	2511	2505	2564	2507	2181

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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Gamma Plane (°):0.0-180.0:1.0
 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	18.7	19.7	19.0	20.0	20.2	13.2	14.2	13.5	14.5	14.7
3H	19.1	20.1	19.5	20.4	20.7	14.0	15.0	14.4	15.3	15.6
4H	19.3	20.2	19.7	20.5	20.8	14.5	15.4	14.9	15.7	16.1
6H	19.4	20.3	19.8	20.6	20.9	15.0	15.8	15.4	16.2	16.5
8H	19.5	20.3	19.9	20.6	21.0	15.2	16.0	15.5	16.3	16.7
12H	19.5	20.3	19.9	20.6	21.0	15.3	16.1	15.7	16.4	16.8
X=4H Y=2H	18.6	19.5	18.9	19.8	20.1	13.6	14.6	14.0	14.9	15.2
3H	19.1	19.9	19.5	20.3	20.6	14.7	15.4	15.1	15.8	16.1
4H	19.4	20.1	19.8	20.5	20.9	15.3	16.0	15.7	16.3	16.7
6H	19.6	20.3	20.1	20.7	21.1	15.8	16.5	16.3	16.9	17.3
8H	19.7	20.3	20.2	20.7	21.2	16.1	16.6	16.5	17.1	17.5
12H	19.8	20.3	20.3	20.7	21.2	16.2	16.7	16.7	17.2	17.7
X=8H Y=4H	19.4	19.9	19.8	20.4	20.8	15.5	16.0	15.9	16.5	16.9
6H	19.7	20.1	20.2	20.6	21.1	16.2	16.6	16.7	17.1	17.6
8H	19.8	20.2	20.3	20.7	21.2	16.5	16.9	17.0	17.3	17.9
12H	19.9	20.3	20.4	20.8	21.3	16.7	17.1	17.2	17.6	18.1
X=12H Y=4H	19.4	19.9	19.8	20.3	20.8	15.5	16.0	16.0	16.4	16.9
6H	19.7	20.1	20.2	20.6	21.1	16.2	16.6	16.7	17.1	17.6
8H	19.8	20.2	20.3	20.7	21.2	16.6	16.9	17.1	17.4	17.9
Variations with the observer position at spacings:										
S=1.0H	+0.8/-0.9					+0.9/-0.8				
S=1.5H	+2.5/-1.9					+1.7/-1.4				
S=2.0H	+4.0/-2.9					+2.5/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 9305lm ($8\log(F/F_0) = 7.7$).

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Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.69	0.78	0.84	0.89	0.94	0.98	1.01	1.04	1.07	
	0.30		0.63	0.72	0.78	0.83	0.90	0.94	0.97	1.01	1.04	
	0.20		0.58	0.68	0.74	0.79	0.86	0.90	0.94	0.99	1.02	
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		0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.58	0.67	0.73	0.77	0.84	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.66	0.74	0.80	0.83	0.88	0.91	0.94	0.96	0.98	
	0.30		0.61	0.70	0.75	0.79	0.85	0.89	0.91	0.94	0.97	
	0.20		0.58	0.66	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.56	0.64	0.69	0.73	0.79	0.82	0.85	0.88	0.90	
Rating:79W 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 = 0.75									
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	0.80	0.65	0.55	0.48	0.38	0.31	0.26	0.20	0.17	
	0.30		0.67	0.56	0.48	0.42	0.34	0.28	0.24	0.19	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
0.50	0.50	0.20	0.77	0.62	0.52	0.45	0.35	0.33	0.25	0.19	0.16	
	0.30		0.65	0.54	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
	0.20		0.56	0.48	0.41	0.37	0.30	0.25	0.22	0.17	0.14	
0.30	0.50	0.20	0.74	0.59	0.50	0.43	0.33	0.27	0.23	0.18	0.15	
	0.30		0.63	0.52	0.44	0.39	0.31	0.26	0.22	0.17	0.14	
	0.20		0.55	0.47	0.40	0.35	0.29	0.24	0.21	0.16	0.14	
0.00	0.00	0.00	0.43	0.35	0.30	0.26	0.20	0.17	0.14	0.11	0.09	
Rating:79W 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 = 0.75									
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	0.22	0.22	0.23	
	0.30		0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	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	0.21	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19	
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
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:79W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												