

Report No.: 1

Test Time: 05.11.2019 20:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 4x40LED 0.3A 38W 3000K bez stekla

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 220.7 V

Current: 0.178 A

Power: 38.73 W

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 5431 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 5431.0 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.3, 145.5, 152.2, 152.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.5, 115.1, 117.3, 116.7

Luminaire Efficacy Rating (LER): 140.28

Central Intensity: 1921.42 cd

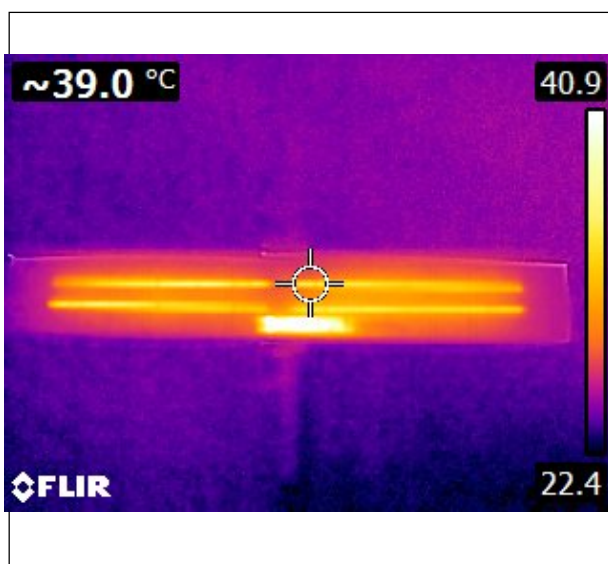
Max. Intensity: 1930.37 cd

Pos of Max. Intensity: H112.5 V4

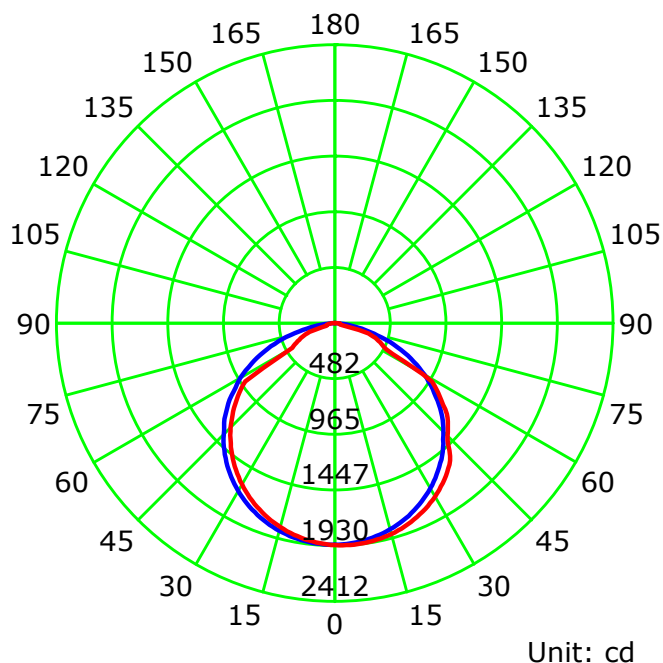
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.29

Termogramma



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

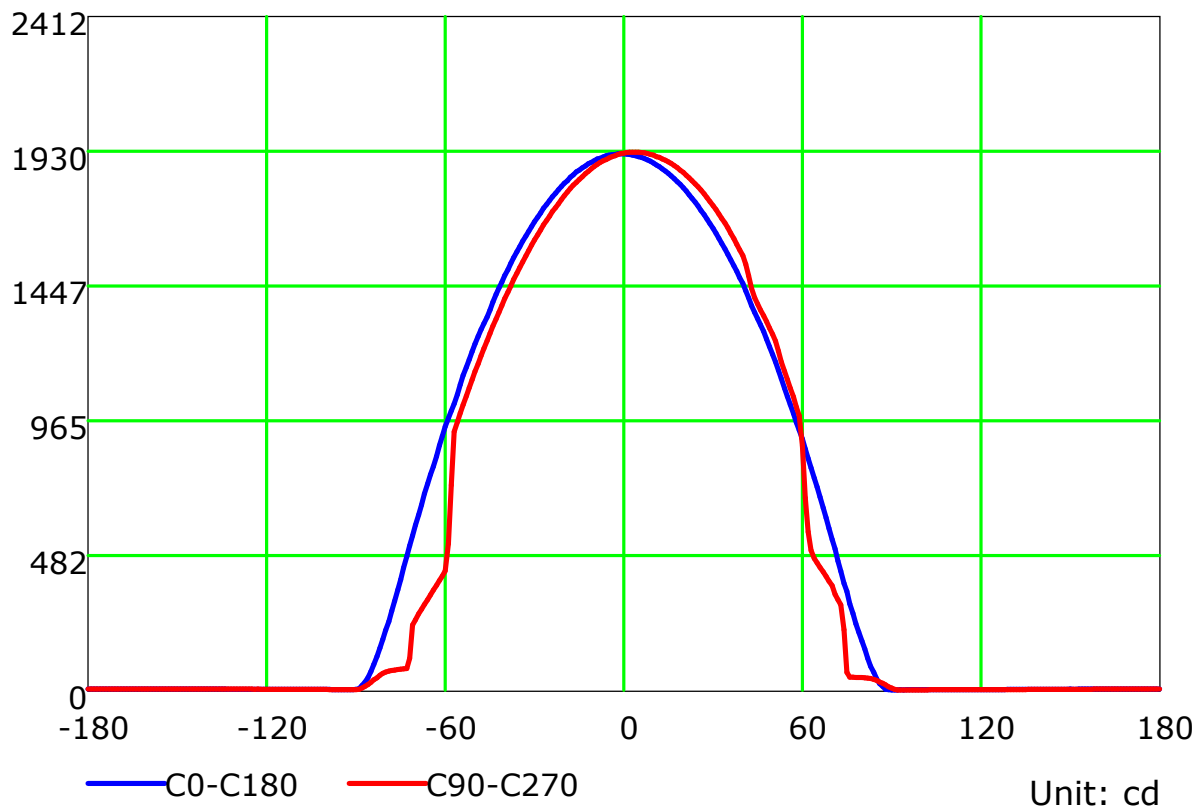
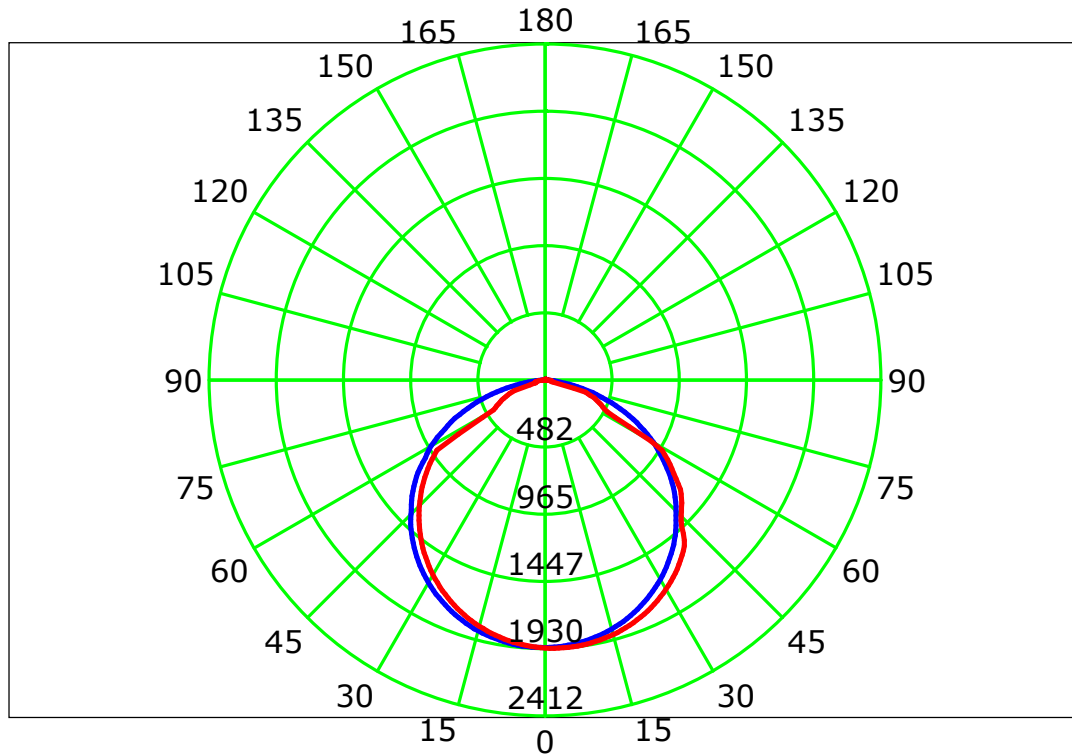
Test Device: LSG-1800B

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

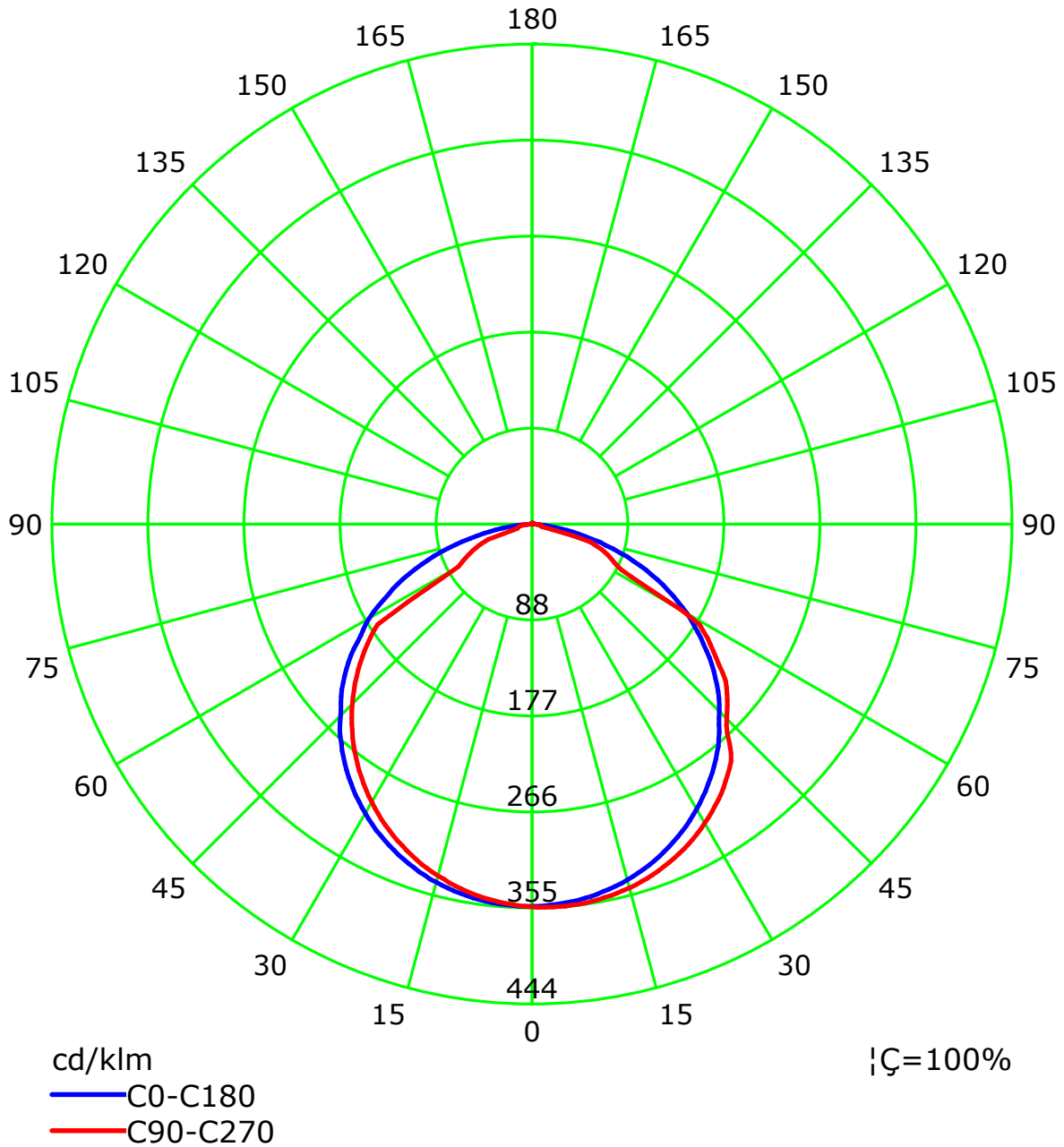
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)

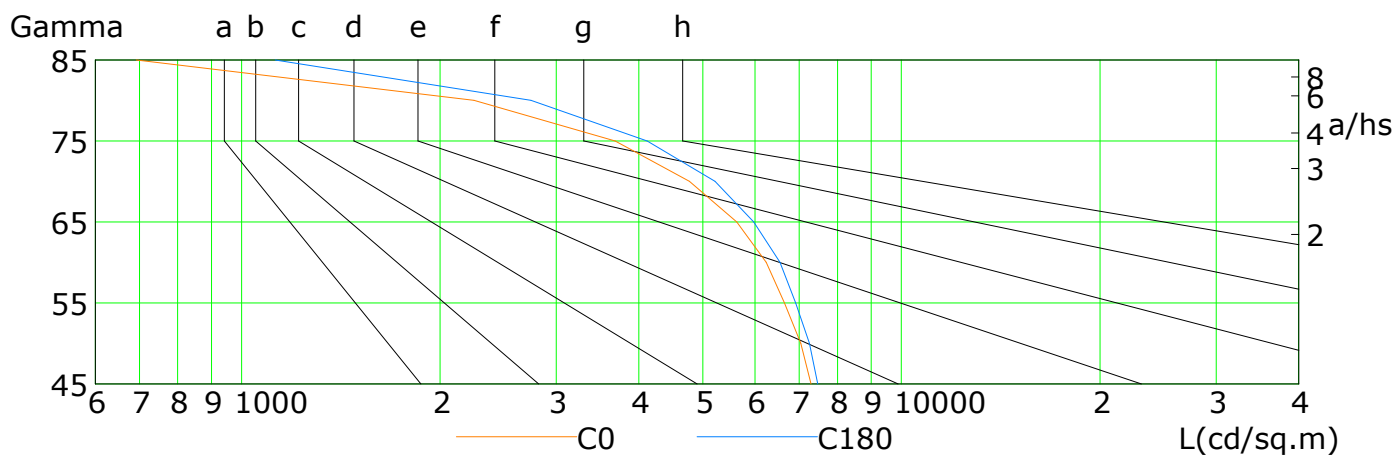
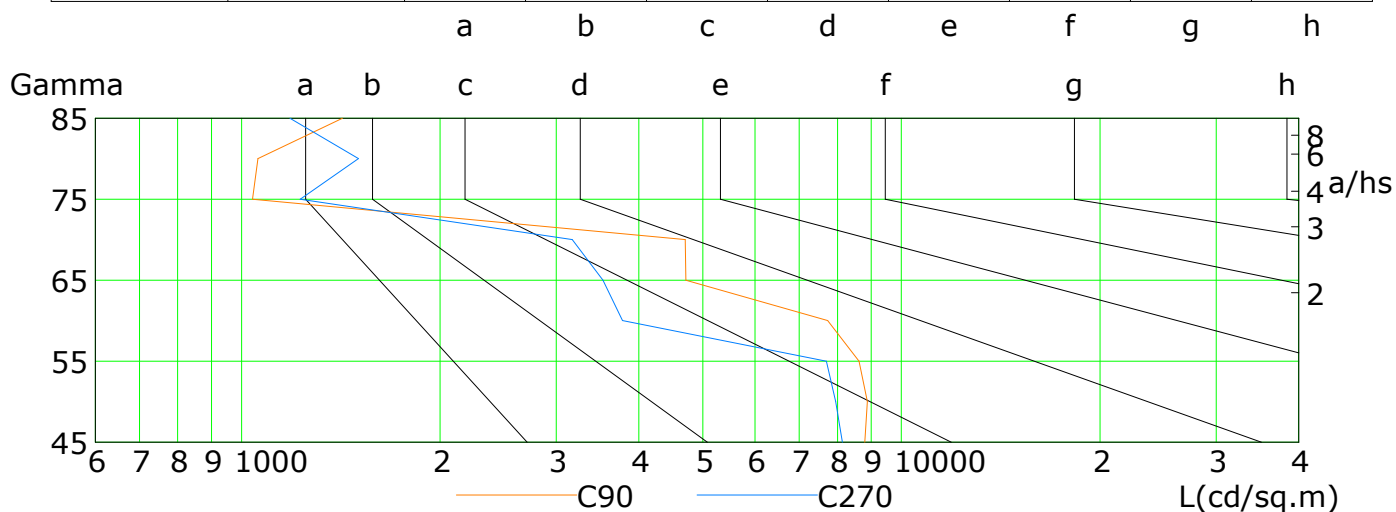


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

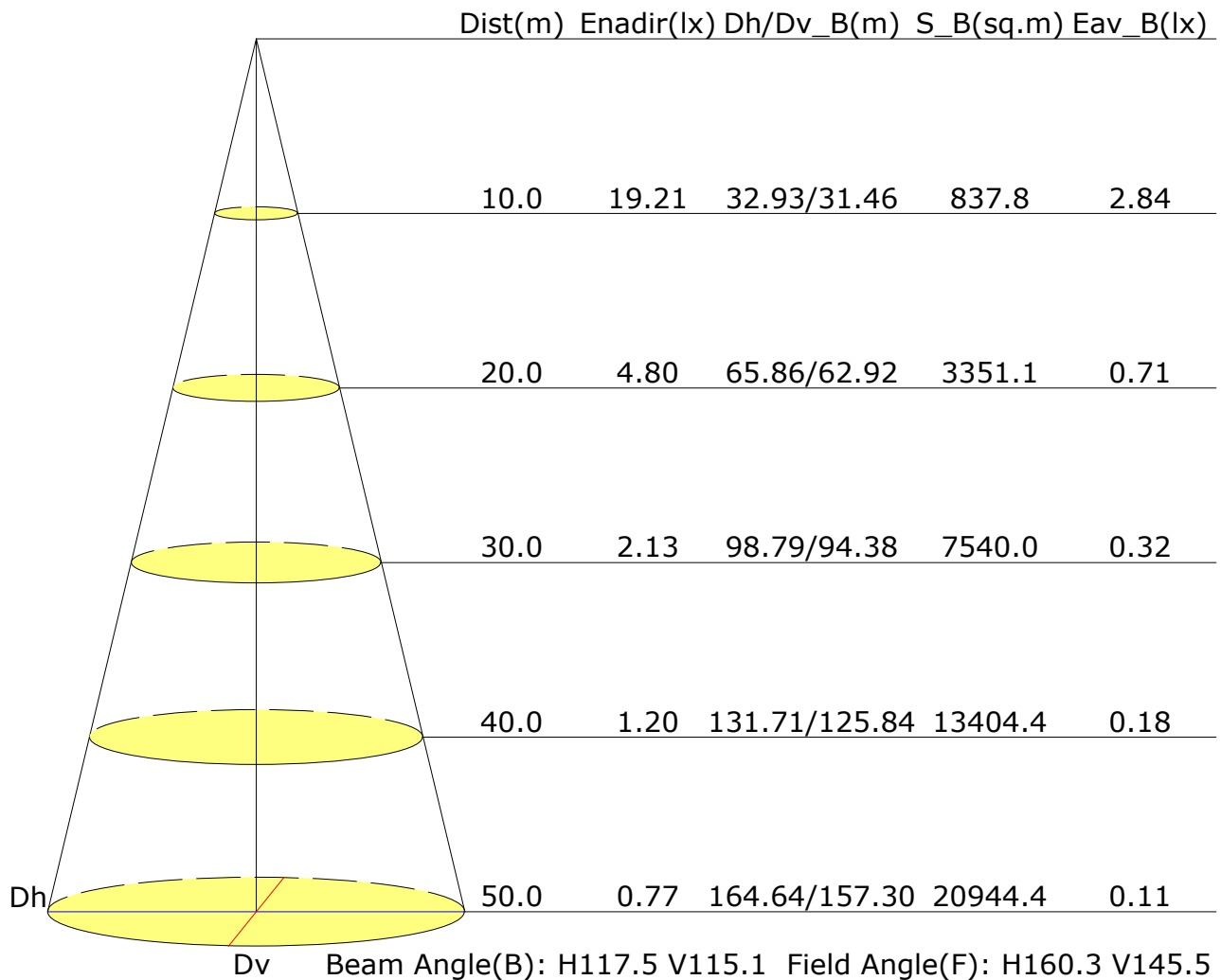


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7296	7037	6651	6236	5632	4770	3681	2250	693
C90	8806	8876	8625	7729	4713	4704	1039	1059	1422
C180	7470	7255	6917	6547	5976	5219	4119	2747	1125
C270	8136	7951	7695	3777	3529	3169	1227	1504	1184

C Plane (°):0.0-360.0: 22.5
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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	19.5	20.8	19.8	21.1	21.3	19.2	20.6	19.5	20.8	21.1
3H	20.8	22.1	21.2	22.3	22.6	19.8	21.0	20.1	21.3	21.6
4H	21.3	22.4	21.6	22.7	23.0	19.9	21.0	20.2	21.3	21.6
6H	21.4	22.5	21.8	22.8	23.1	19.8	20.9	20.2	21.2	21.6
8H	21.4	22.4	21.8	22.8	23.1	19.8	20.9	20.2	21.2	21.5
12H	21.4	22.4	21.8	22.7	23.1	19.8	20.8	20.2	21.1	21.5
X=4H Y=2H	20.0	21.2	20.4	21.5	21.8	19.8	20.9	20.1	21.2	21.5
3H	21.5	22.5	21.9	22.8	23.2	20.4	21.4	20.8	21.7	22.1
4H	22.0	22.9	22.4	23.2	23.6	20.5	21.4	21.0	21.8	22.2
6H	22.2	23.0	22.6	23.4	23.8	20.5	21.3	21.0	21.7	22.1
8H	22.2	22.9	22.7	23.3	23.8	20.5	21.2	21.0	21.6	22.1
12H	22.2	22.8	22.7	23.3	23.7	20.5	21.2	21.0	21.6	22.0
X=8H Y=4H	22.0	22.7	22.5	23.1	23.6	20.6	21.3	21.1	21.8	22.2
6H	22.2	22.8	22.7	23.2	23.7	20.6	21.2	21.1	21.7	22.1
8H	22.3	22.8	22.8	23.2	23.7	20.7	21.2	21.2	21.6	22.1
12H	22.3	22.7	22.8	23.2	23.7	20.7	21.1	21.2	21.6	22.1
X=12H Y=4H	22.0	22.6	22.4	23.0	23.5	20.6	21.3	21.1	21.7	22.1
6H	22.2	22.7	22.7	23.2	23.7	20.6	21.1	21.1	21.6	22.1
8H	22.2	22.7	22.7	23.2	23.7	20.7	21.1	21.2	21.6	22.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.5/-0.5				
S=1.5H	+0.4/-0.7					+1.3/-2.2				
S=2.0H	+0.8/-1.4					+1.9/-3.1				

Calculate in accordance with CIE Pub.117. The table is revised with 5431lm ($8\log(F/F_0) = 5.9$).

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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	0.58	0.68	0.76	0.82	0.89	0.94	0.97	1.02	1.04	
	0.30		0.50	0.61	0.69	0.75	0.83	0.89	0.92	0.98	1.01	
	0.20		0.44	0.55	0.63	0.69	0.78	0.84	0.88	0.94	0.98	
0.50	0.50	0.20	0.56	0.66	0.74	0.79	0.86	0.90	0.93	0.98	1.00	
	0.30		0.49	0.60	0.67	0.73	0.81	0.86	0.90	0.94	0.97	
	0.20		0.44	0.55	0.62	0.68	0.76	0.82	0.86	0.92	0.95	
0.30	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.87	0.90	0.94	0.96	
	0.30		0.48	0.59	0.66	0.71	0.79	0.83	0.87	0.91	0.94	
	0.20		0.43	0.54	0.62	0.67	0.75	0.80	0.84	0.89	0.92	
0.00	0.00	0.00	0.41	0.52	0.59	0.64	0.71	0.76	0.80	0.84	0.87	
Rating:39W 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	0.99	0.80	0.68	0.59	0.46	0.38	0.32	0.25	0.20	
	0.30		0.82	0.69	0.59	0.52	0.42	0.35	0.30	0.23	0.19	
	0.20		0.71	0.60	0.52	0.47	0.38	0.32	0.28	0.22	0.18	
0.50	0.50	0.20	0.95	0.77	0.65	0.56	0.44	0.40	0.31	0.24	0.19	
	0.30		0.80	0.67	0.57	0.50	0.40	0.34	0.29	0.22	0.18	
	0.20		0.70	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.92	0.74	0.62	0.54	0.42	0.35	0.29	0.22	0.18	
	0.30		0.79	0.65	0.56	0.49	0.39	0.32	0.28	0.21	0.18	
	0.20		0.69	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
0.00	0.00	0.00	0.59	0.48	0.41	0.36	0.28	0.23	0.20	0.15	0.13	
Rating:39W 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	0.18	0.19	0.19	0.20	0.21	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	0.08	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
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:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												