

Report No.: 1

Test Time: 01.10.2019 16:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 84 LED 20W 6500K prozrachnyi

Luminous Length (mm): 770

Luminous Width (mm): 75

Luminous Height (mm): 80

Voltage: 221.1 V

Current: 0.095 A

Power: 20.38 W

Power Factor: 0.965

Photometric Results

CIE Class: Direct

Measurement Flux: 3042.4 lm

Downward Ratio: 97%

Total Rated Lamp Lumens: 3042.4 lm

Efficiency: 100%

Upward Ratio: 3%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.9, 151.2, 150.5, 151.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.3, 116.3, 81.7, 83.3

Luminaire Efficacy Rating (LER): 149.33

Central Intensity: 543.73 cd

Max. Intensity: 1439.14 cd

Pos of Max. Intensity: H270 V10

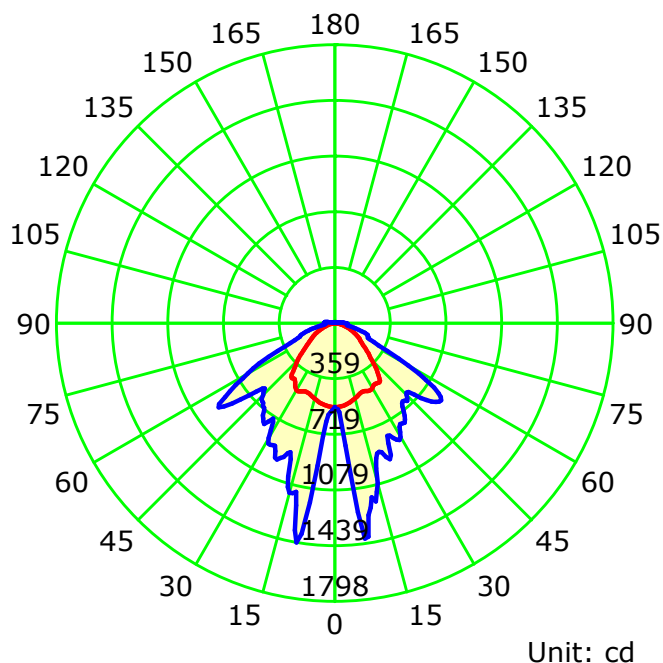
S/MH(C0/C180): 1.32

S/MH(C90/C270): 1.85

Picture Of Luminaire



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

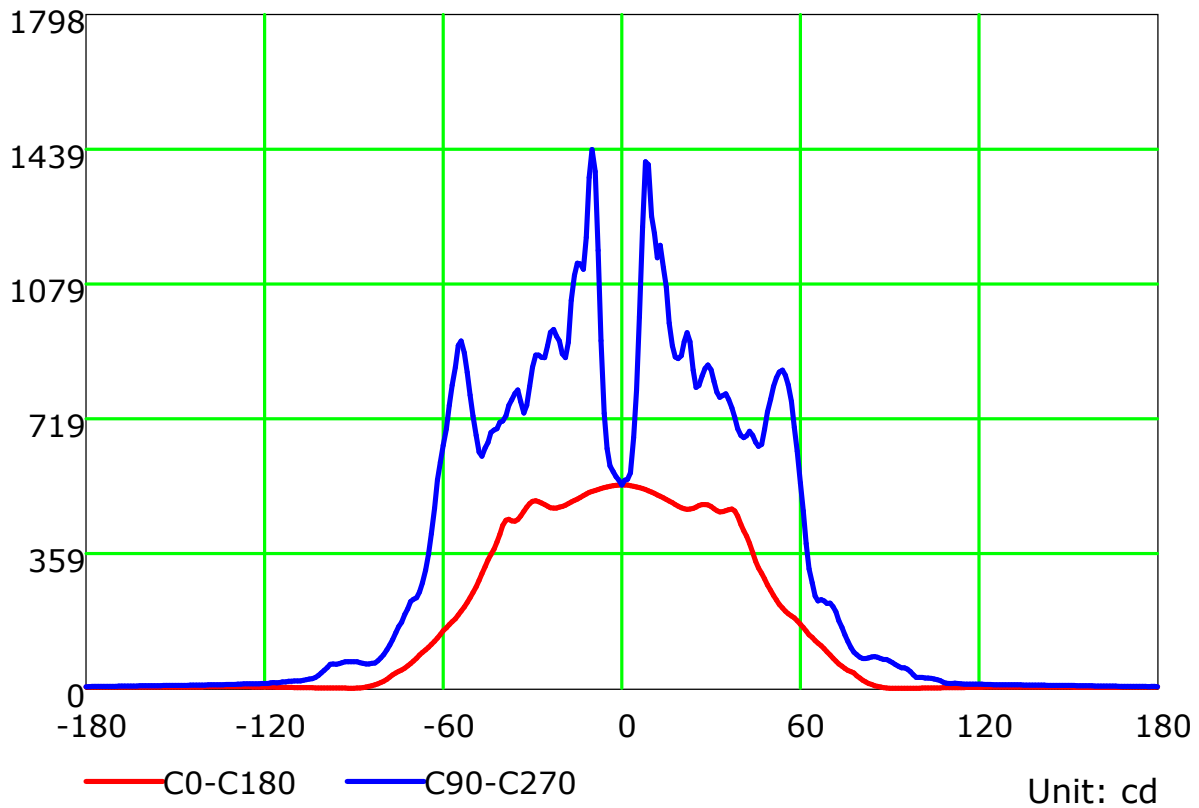
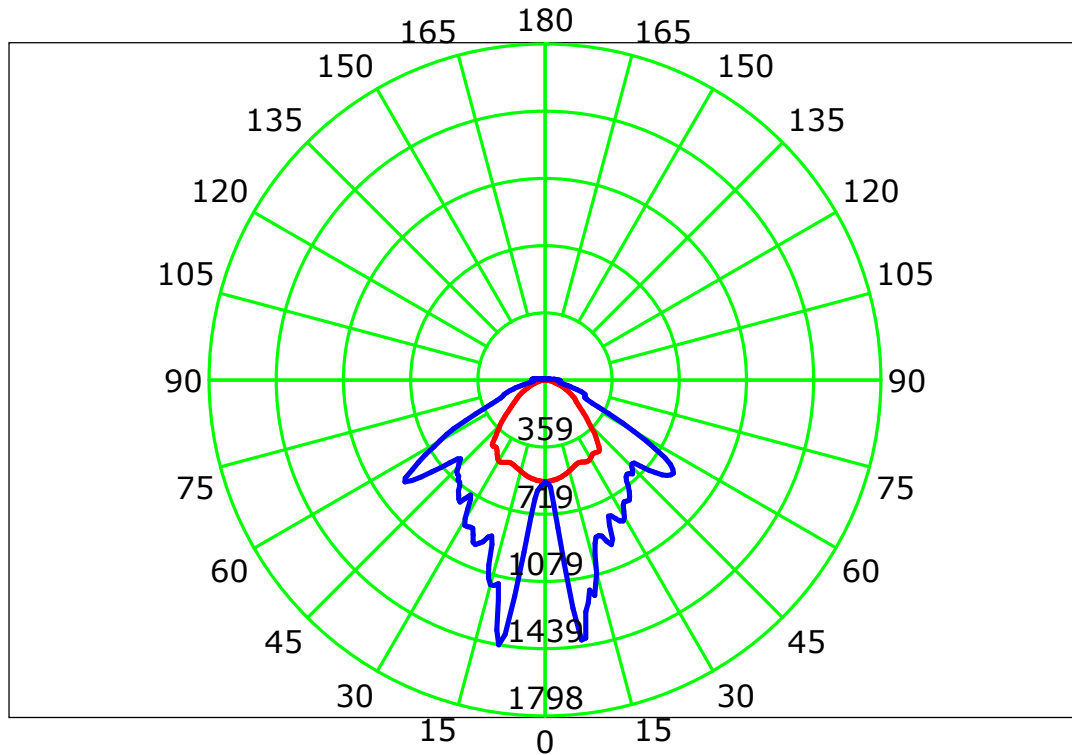
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

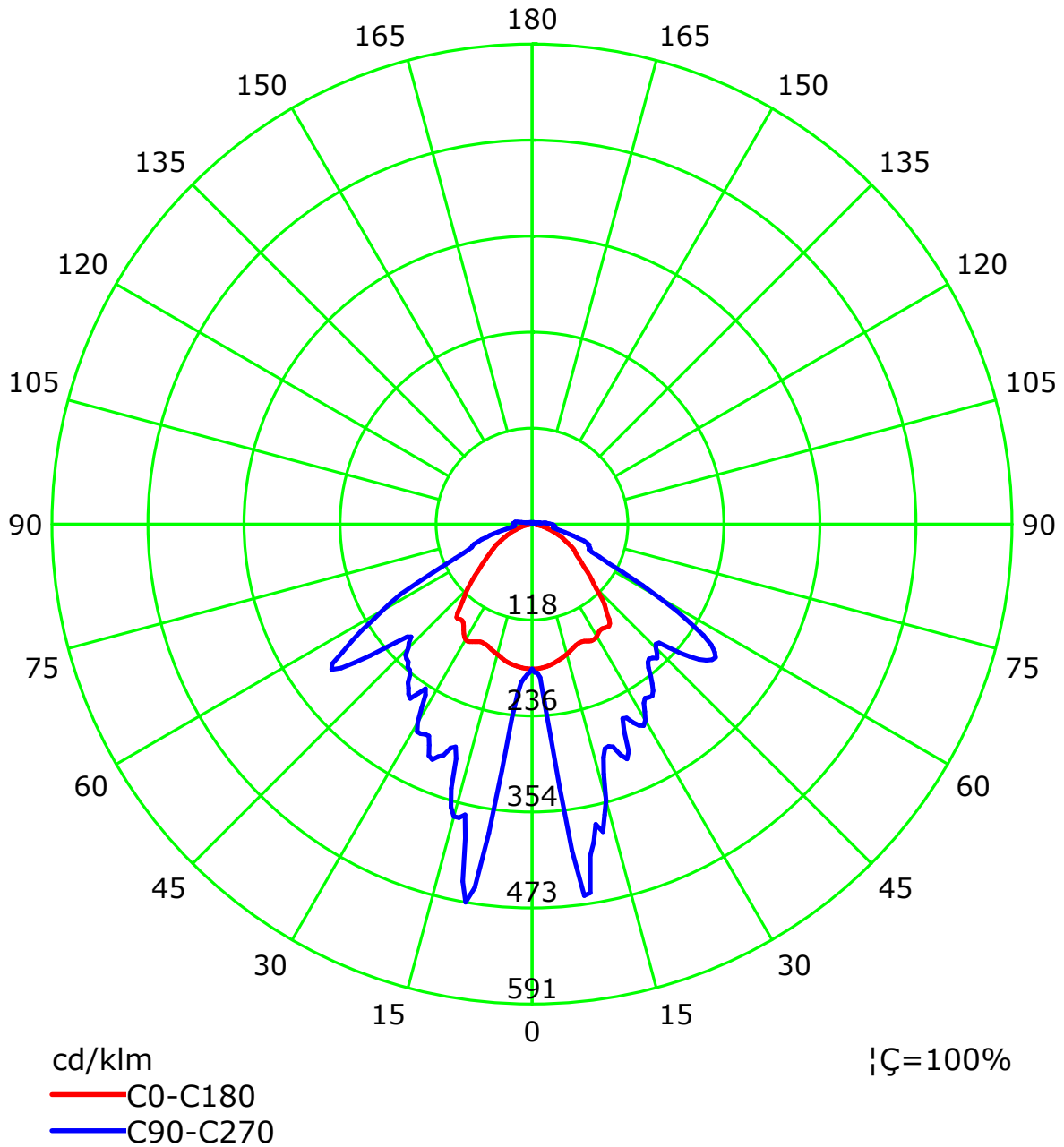
Luminous Intensity Distribution Curve



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:

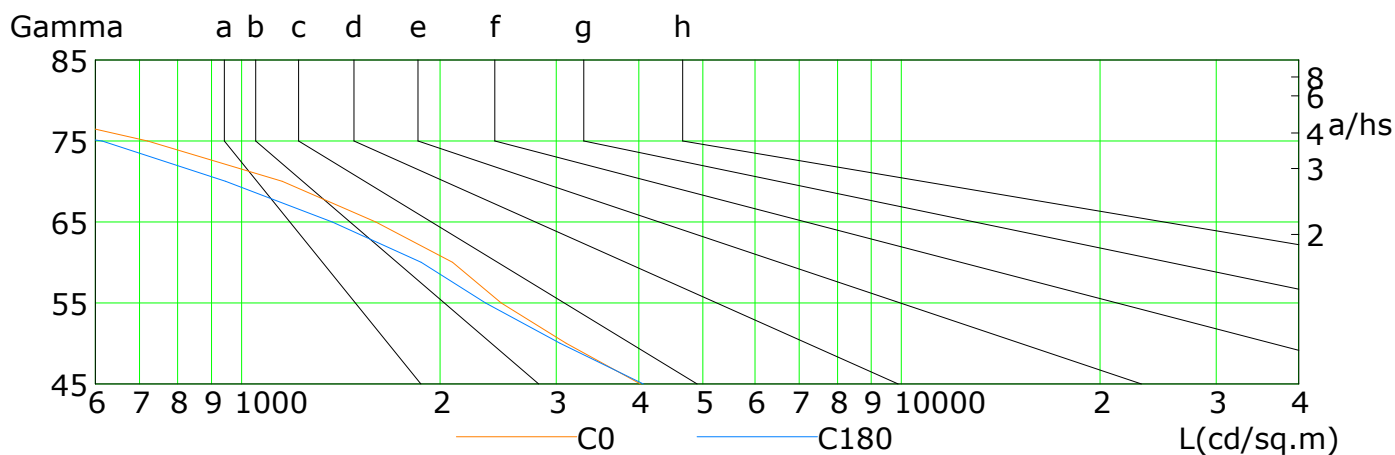
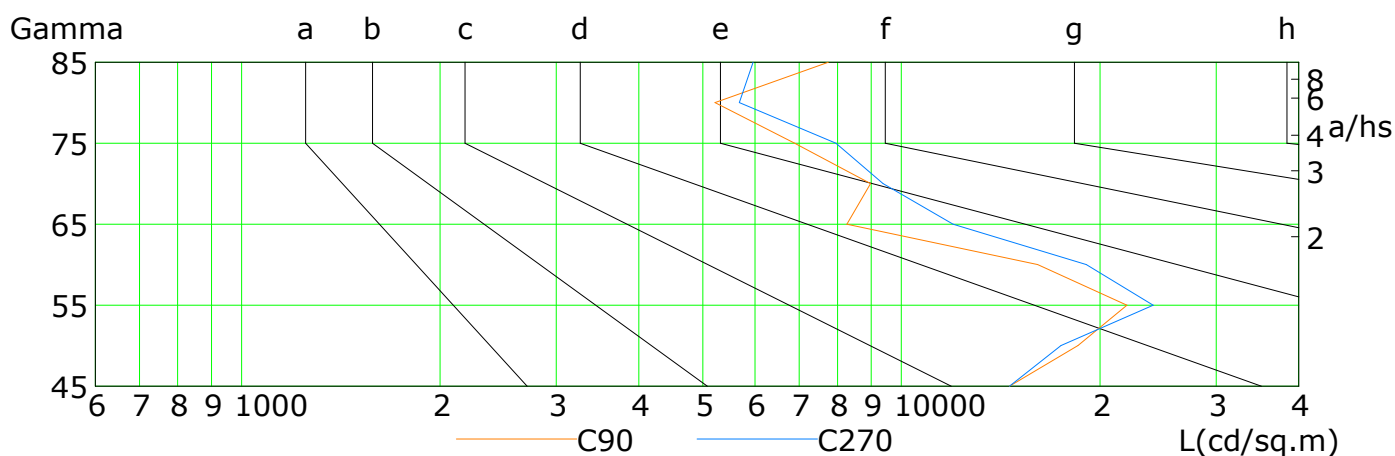
Luminous Intensity Distribution Curve(cd/klm)



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

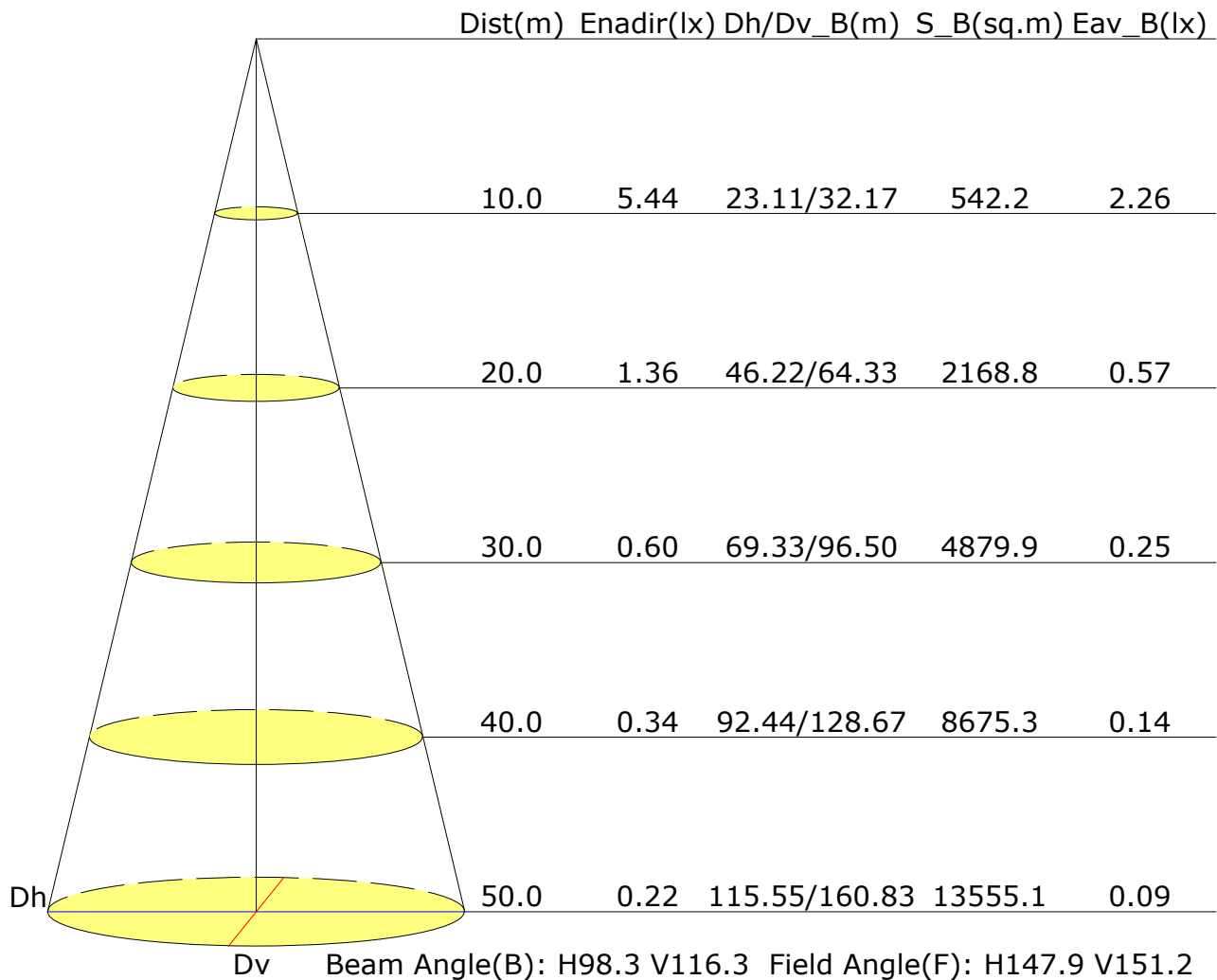


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4023	3106	2474	2088	1596	1152	720	390	112
C90	14580	18509	21980	16095	8264	8982	6888	5217	7745
C180	4061	3040	2344	1871	1373	946	615	277	78
C270	14575	17451	24063	19062	11979	9375	7957	5678	5962

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

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	18.3	19.7	18.7	20.0	20.3	22.3	23.7	22.7	24.0	24.3
3H	19.3	20.5	19.7	20.9	21.2	22.9	24.2	23.3	24.5	24.9
4H	19.5	20.6	19.9	21.0	21.3	23.2	24.3	23.6	24.7	25.1
6H	19.5	20.6	19.9	20.9	21.3	23.3	24.4	23.7	24.7	25.1
8H	19.5	20.5	19.9	20.9	21.3	23.3	24.4	23.8	24.8	25.2
12H	19.4	20.4	19.9	20.8	21.2	23.4	24.4	23.8	24.8	25.2
X=4H Y=2H	19.9	21.1	20.3	21.4	21.8	22.7	23.9	23.1	24.2	24.6
3H	21.1	22.1	21.6	22.5	22.9	23.5	24.5	23.9	24.9	25.3
4H	21.4	22.3	21.9	22.7	23.2	23.7	24.6	24.2	25.0	25.5
6H	21.6	22.4	22.0	22.8	23.3	23.9	24.7	24.4	25.1	25.6
8H	21.6	22.3	22.1	22.8	23.2	23.9	24.7	24.4	25.1	25.6
12H	21.6	22.2	22.1	22.7	23.2	24.1	24.7	24.6	25.2	25.7
X=8H Y=4H	21.6	22.3	22.1	22.8	23.3	23.8	24.5	24.3	25.0	25.5
6H	21.9	22.5	22.4	23.0	23.5	24.0	24.5	24.5	25.0	25.6
8H	21.9	22.5	22.5	23.0	23.5	24.1	24.6	24.6	25.1	25.6
12H	22.0	22.4	22.5	23.0	23.5	24.2	24.7	24.8	25.2	25.8
X=12H Y=4H	21.6	22.2	22.1	22.7	23.2	23.7	24.4	24.3	24.9	25.4
6H	21.9	22.4	22.4	22.9	23.4	23.9	24.5	24.5	25.0	25.5
8H	22.0	22.4	22.5	22.9	23.5	24.0	24.5	24.6	25.0	25.6
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.3					+0.5/-0.7				
S=1.5H	+0.6/-0.9					+1.5/-1.5				
S=2.0H	+1.1/-2.7					+2.6/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3042lm ($8\log(F/F_0) = 3.9$).

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 2.00									
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	NA	0.71	0.77	0.82	0.89	0.93	0.96	1.00	1.03	
	0.30		NA	0.64	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
	0.20		NA	0.59	0.64	0.70	0.78	0.84	0.88	0.93	0.97	
0.50	0.50	0.20	NA	0.69	0.74	0.78	0.85	0.89	0.92	0.96	0.98	
	0.30		NA	0.62	0.68	0.73	0.80	0.85	0.88	0.93	0.96	
	0.20		NA	0.58	0.63	0.69	0.76	0.82	0.85	0.90	0.93	
0.30	0.50	0.20	NA	0.66	0.71	0.76	0.82	0.86	0.88	0.92	0.94	
	0.30		NA	0.61	0.66	0.71	0.78	0.82	0.85	0.89	0.92	
	0.20		NA	0.57	0.62	0.67	0.75	0.79	0.82	0.87	0.90	
0.00	0.00	0.00	NA	0.54	0.59	0.64	0.71	0.75	0.78	0.82	0.84	
Rating:20W 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 = 2.00									
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	NA	0.74	0.65	0.56	0.44	0.37	0.32	0.25	0.20	
	0.30		NA	0.64	0.56	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		NA	0.56	0.50	0.45	0.36	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	NA	0.71	0.61	0.53	0.42	0.38	0.30	0.23	0.19	
	0.30		NA	0.61	0.54	0.48	0.38	0.32	0.28	0.22	0.18	
	0.20		NA	0.54	0.49	0.43	0.35	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	NA	0.67	0.58	0.51	0.40	0.33	0.28	0.22	0.18	
	0.30		NA	0.59	0.52	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		NA	0.53	0.47	0.42	0.34	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.97	0.42	0.38	0.33	0.26	0.22	0.19	0.15	0.12	
Rating:20W 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 = 2.00									
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	NA	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25	
	0.30		NA	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22	
	0.20		NA	0.10	0.11	0.12	0.14	0.16	0.17	0.19	0.20	
0.50	0.50	0.20	NA	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	
	0.30		NA	0.14	0.15	0.16	0.18	0.19	0.19	0.21	0.21	
	0.20		NA	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19	
0.30	0.50	0.20	NA	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		NA	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	
	0.20		NA	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.19	
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
Rating:20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												