

Report No.: 1

Test Time: 23.12.2019 18:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 4x24LED 0.48A 26.5W 5000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 350

Luminous Height (mm): 100

Voltage: 221.3 V

Current: 0.114 A

Power: 25.03 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 3310 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 3310.0 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.8, 217.1, 193.7, 193.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.3, 124.5, 115.3, 115.4

Luminaire Efficacy Rating (LER): 132.29

Central Intensity: 979.2 cd

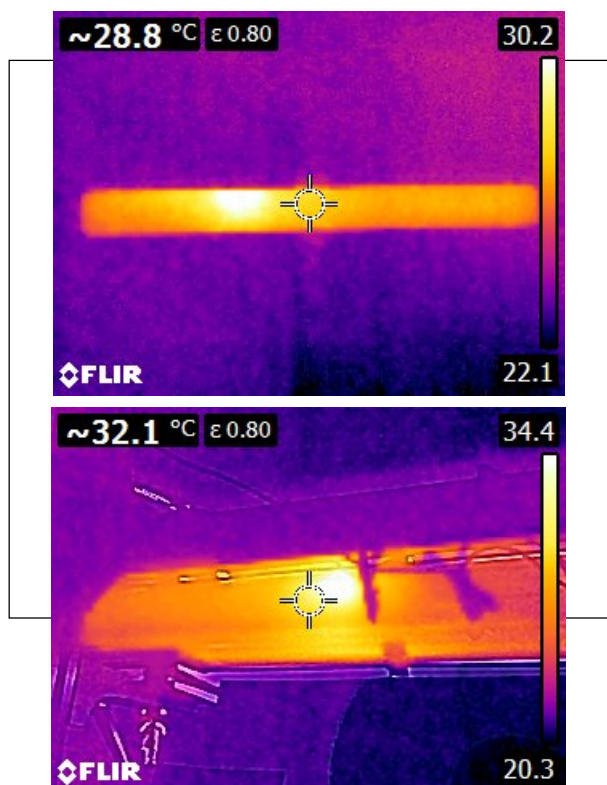
Max. Intensity: 979.45 cd

Pos of Max. Intensity: H157.5 V0

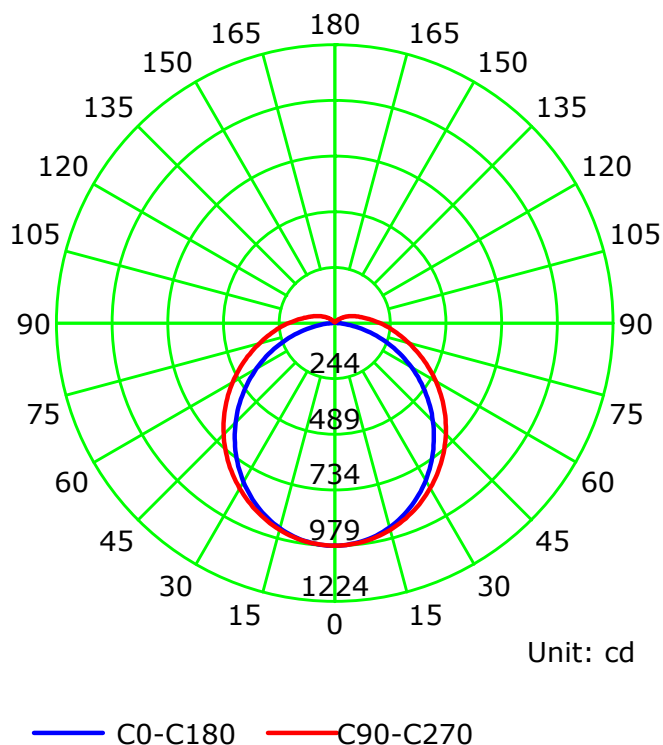
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.28

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

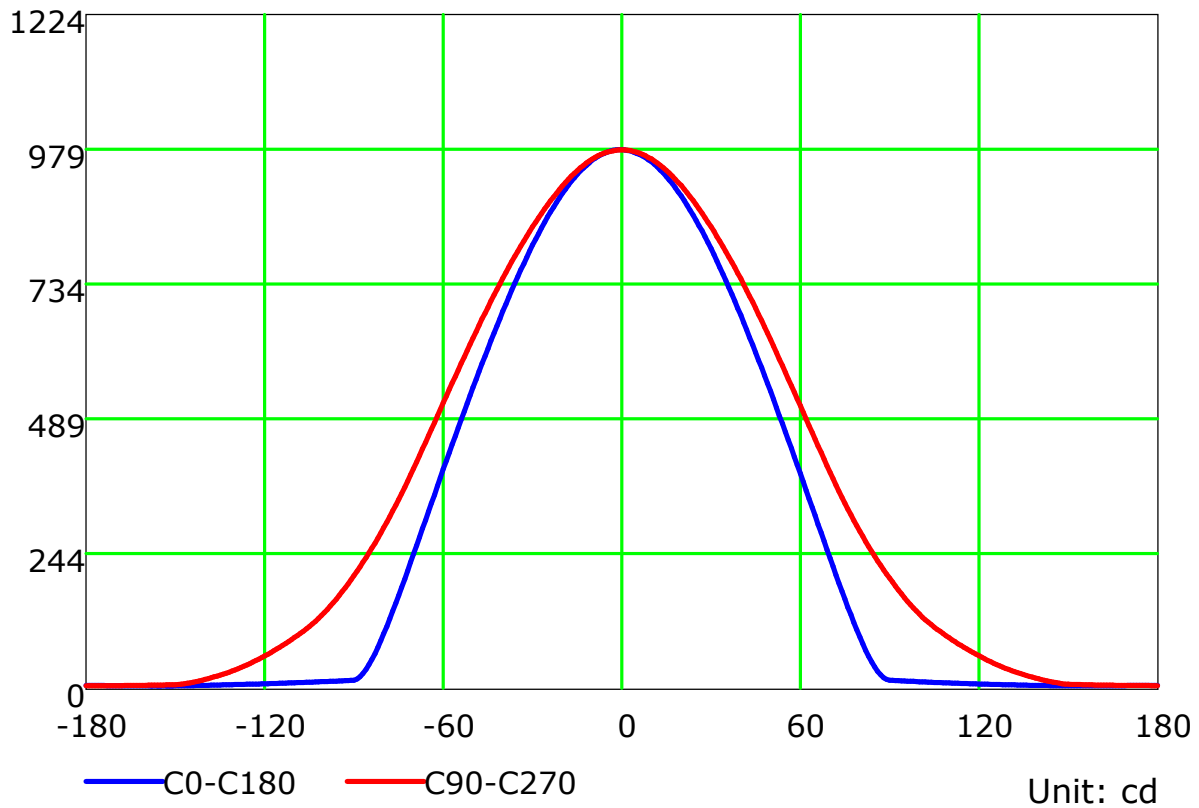
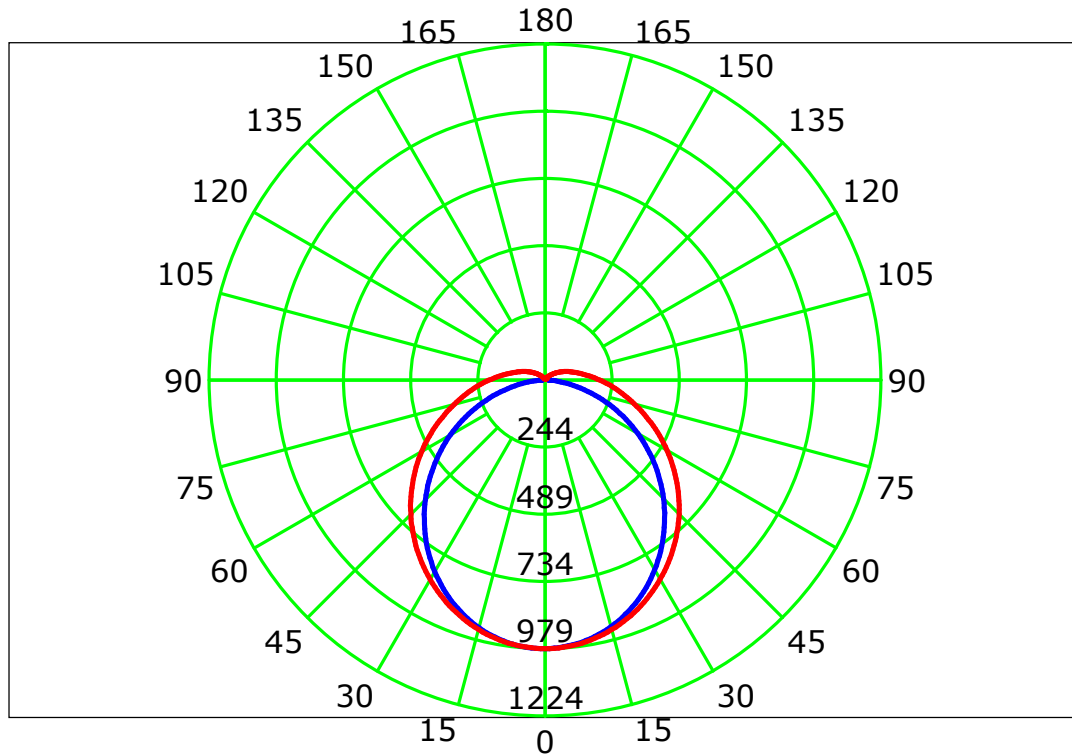
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

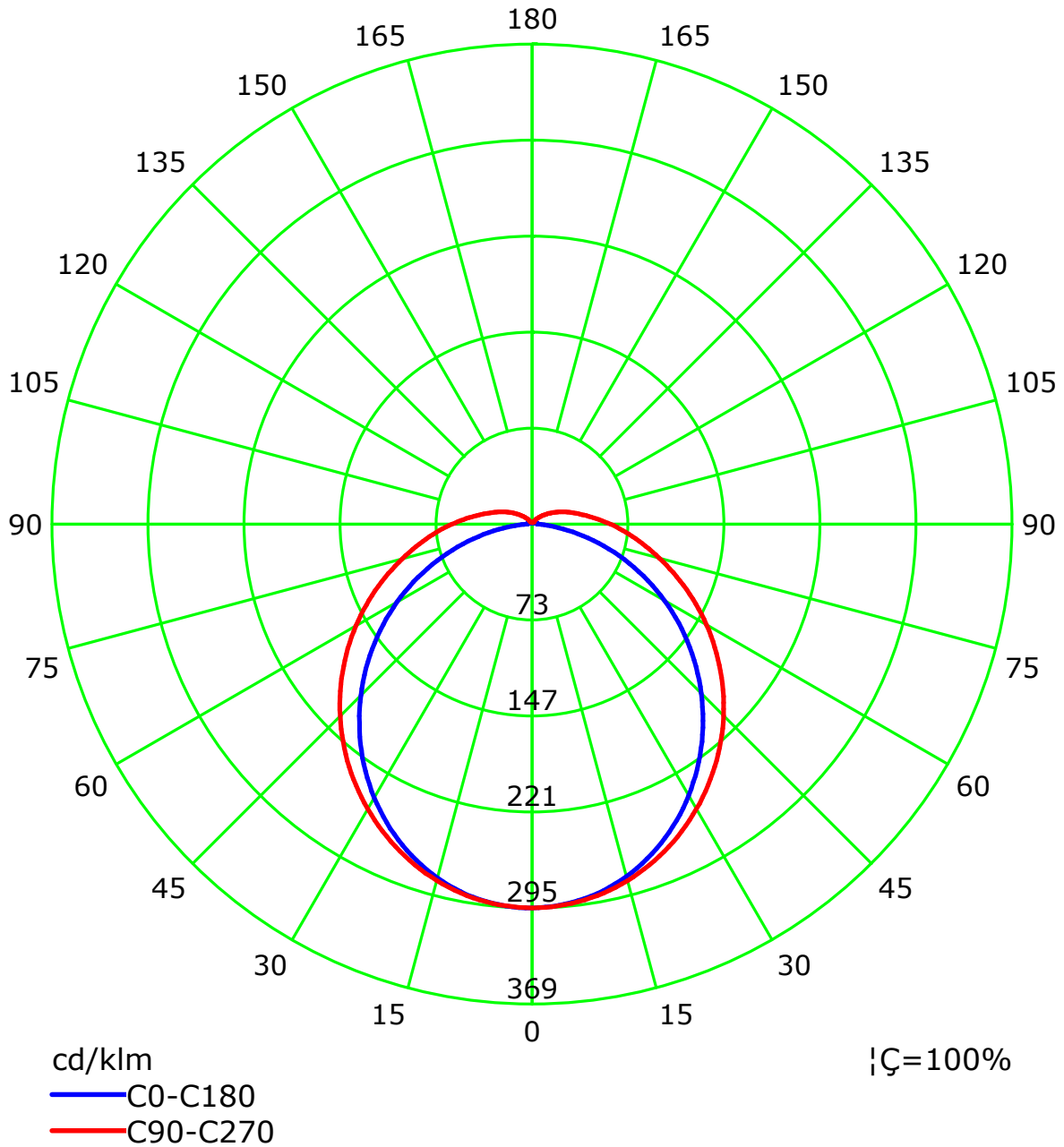
Luminous Intensity Distribution Curve



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)

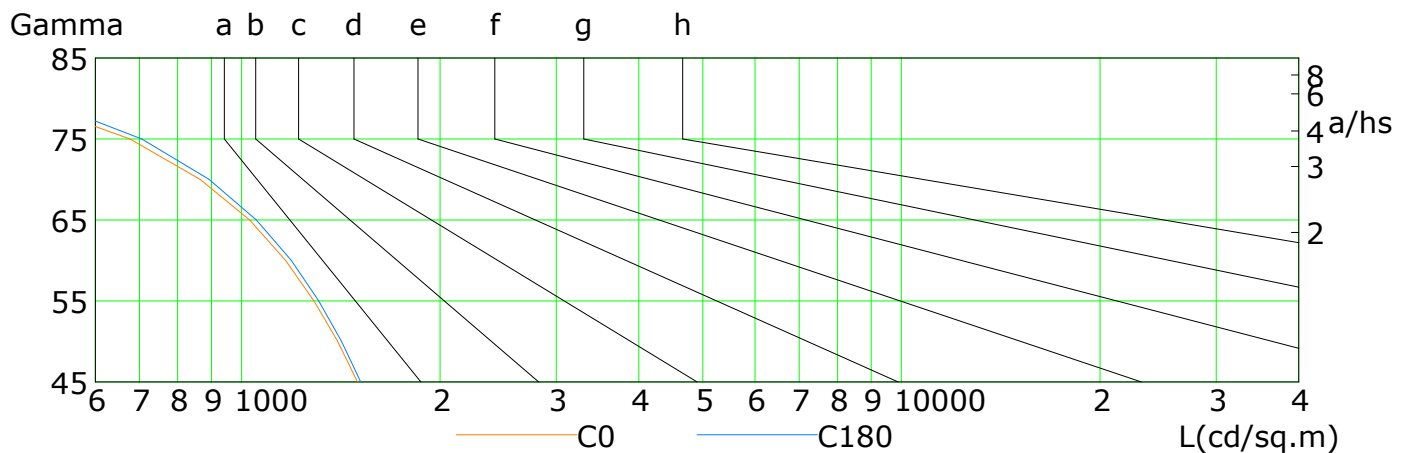
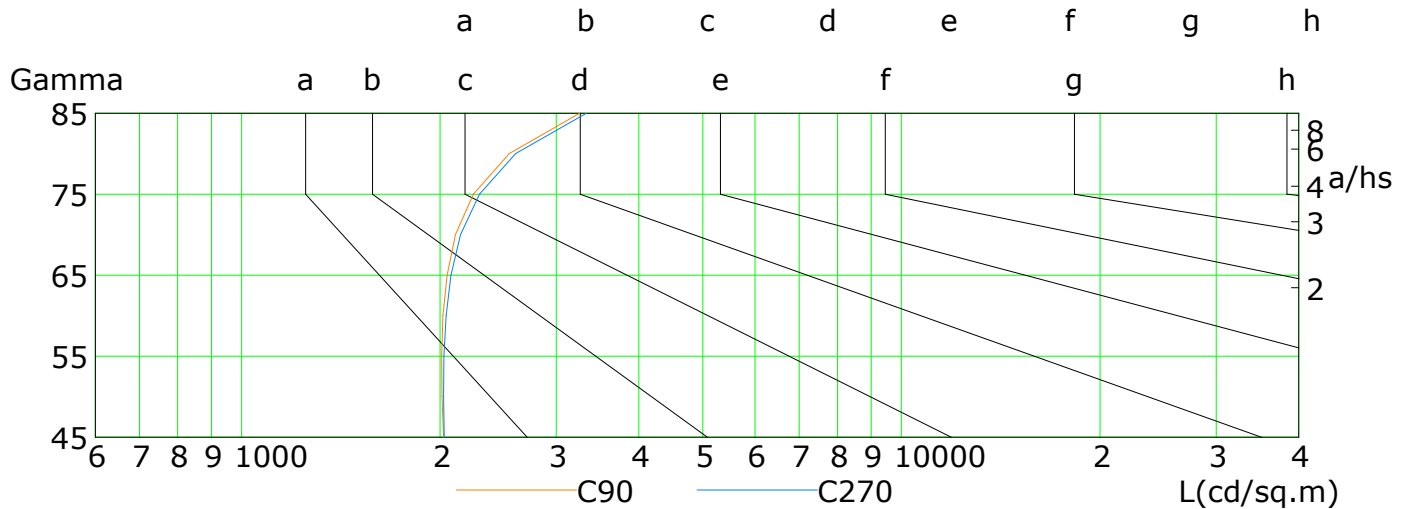


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

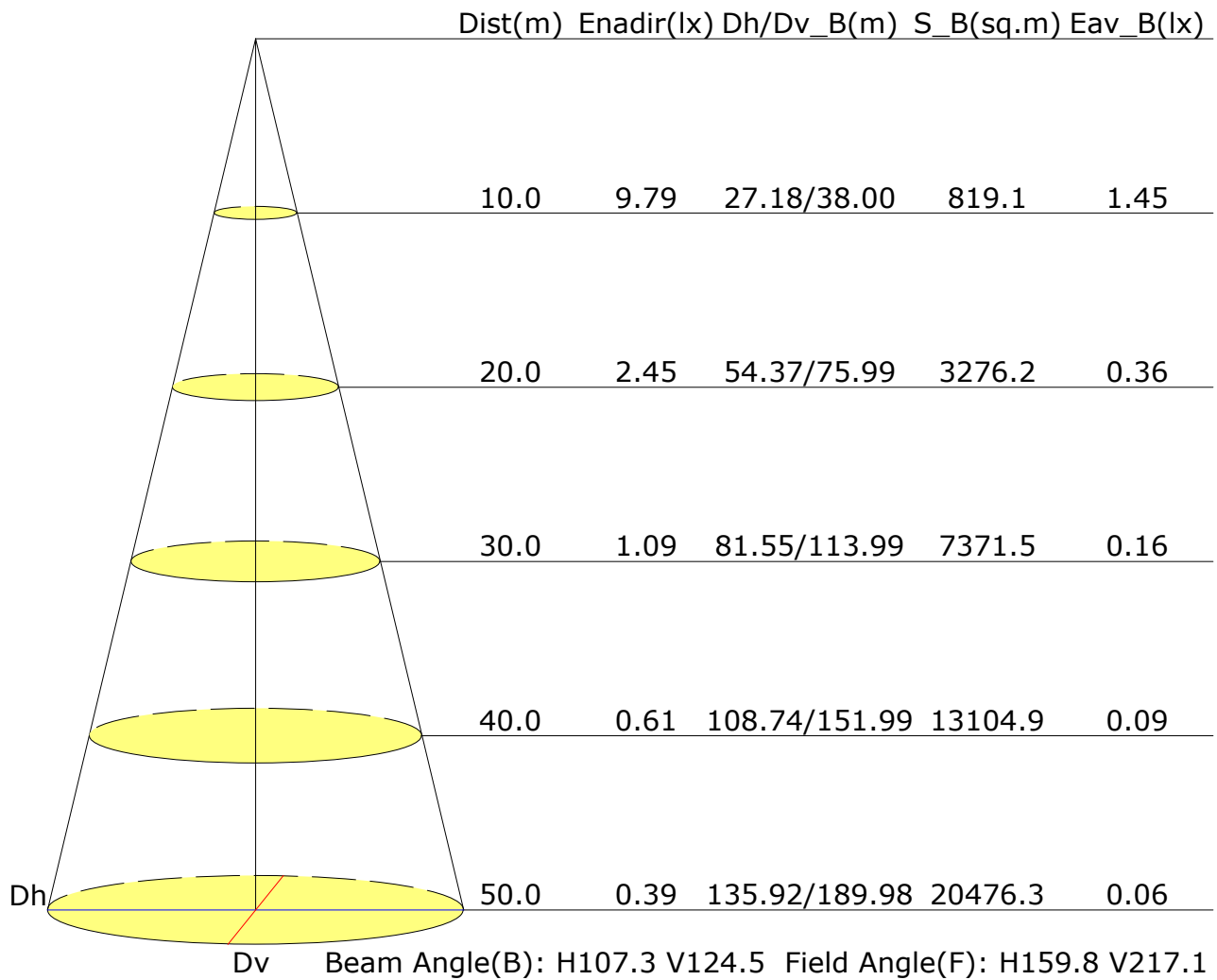


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1499	1398	1288	1166	1029	865	678	458	235
C90	2023	2014	2011	2020	2050	2109	2245	2543	3252
C180	1516	1417	1309	1190	1053	892	706	490	260
C270	2028	2023	2026	2042	2077	2146	2293	2603	3331

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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 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	12.7	14.0	13.1	14.4	14.8	14.3	15.7	14.7	16.0	16.4
3H	13.9	15.1	14.4	15.5	16.0	16.4	17.6	16.8	18.0	18.5
4H	14.4	15.5	14.8	15.9	16.4	17.4	18.6	17.9	19.0	19.5
6H	14.6	15.7	15.1	16.2	16.6	18.5	19.6	19.0	20.0	20.5
8H	14.7	15.7	15.2	16.2	16.7	19.1	20.1	19.5	20.6	21.1
12H	14.7	15.7	15.2	16.2	16.7	19.6	20.6	20.1	21.1	21.6
X=4H Y=2H	13.5	14.7	14.0	15.1	15.6	14.8	15.9	15.3	16.4	16.8
3H	15.0	16.0	15.5	16.4	17.0	17.1	18.1	17.6	18.5	19.1
4H	15.5	16.4	16.1	16.9	17.5	18.3	19.2	18.8	19.7	20.2
6H	15.9	16.7	16.5	17.3	17.8	19.5	20.3	20.1	20.9	21.4
8H	16.0	16.8	16.6	17.3	17.9	20.2	20.9	20.8	21.5	22.1
12H	16.1	16.8	16.7	17.3	17.9	20.9	21.6	21.5	22.1	22.7
X=8H Y=4H	16.1	16.9	16.7	17.4	18.0	18.5	19.2	19.1	19.8	20.4
6H	16.7	17.3	17.3	17.9	18.5	20.0	20.6	20.5	21.1	21.8
8H	17.0	17.5	17.5	18.1	18.7	20.8	21.3	21.4	21.9	22.5
12H	17.1	17.6	17.7	18.2	18.8	21.6	22.1	22.3	22.7	23.4
X=12H Y=4H	16.3	17.0	16.8	17.5	18.1	18.5	19.2	19.1	19.7	20.3
6H	17.0	17.5	17.6	18.1	18.8	20.0	20.6	20.6	21.1	21.8
8H	17.3	17.8	17.9	18.4	19.0	20.9	21.4	21.5	22.0	22.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.4/-0.4				
S=2.0H	+0.5/-1.0					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 3310lm ($8\log(F/F_0) = 4.2$).

C Plane (°):0.0-360.0: 22.5
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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	0.52	0.62	0.69	0.74	0.81	0.86	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.66	0.74	0.80	0.84	0.90	0.94	
	0.20		0.38	0.48	0.55	0.60	0.69	0.75	0.79	0.86	0.90	
0.50	0.50	0.20	0.50	0.59	0.65	0.70	0.77	0.82	0.85	0.89	0.92	
	0.30		0.42	0.52	0.59	0.64	0.71	0.76	0.80	0.85	0.89	
	0.20		0.37	0.47	0.53	0.59	0.66	0.72	0.76	0.82	0.86	
0.30	0.50	0.20	0.47	0.56	0.62	0.67	0.73	0.77	0.80	0.84	0.87	
	0.30		0.41	0.50	0.56	0.61	0.68	0.73	0.76	0.81	0.84	
	0.20		0.36	0.45	0.52	0.57	0.64	0.69	0.73	0.78	0.82	
0.00	0.00	0.00	0.33	0.42	0.48	0.53	0.59	0.64	0.67	0.72	0.75	
Rating:25W 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	1.03	0.86	0.74	0.66	0.53	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.48	0.41	0.36	0.29	0.25	
	0.20		0.73	0.64	0.58	0.52	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.98	0.82	0.70	0.62	0.51	0.45	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.39	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.43	0.37	0.32	0.26	0.22	
0.30	0.50	0.20	0.93	0.77	0.67	0.59	0.48	0.40	0.35	0.28	0.23	
	0.30		0.80	0.68	0.60	0.53	0.44	0.38	0.33	0.26	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.59	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:25W 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	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29	
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.26	0.26	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.22	0.23	
0.50	0.50	0.20	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28	
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.25	
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27	
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24	
	0.20		0.12	0.13	0.14	0.15	0.17	0.19	0.20	0.21	0.22	
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Rating:25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												