

Report No.: 1

Test Time: 18.12.2019 21:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 40LED 0.35A 44W 4000K matoviy

Luminous Length (mm): 1280

Luminous Width (mm): 135

Luminous Height (mm): 100

Voltage: 221.3 V

Current: 0.215 A

Power: 46.86 W

Power Factor: 0.984

Photometric Results

CIE Class: Direct

Measurement Flux: 5826 lm

Downward Ratio: 92%

Total Rated Lamp Lumens: 5826.0 lm

Efficiency: 100%

Upward Ratio: 8%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.4, 218.1, 194.1, 194.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.1, 125.5, 115.5, 115.9

Luminaire Efficacy Rating (LER): 124.38

Central Intensity: 1717.79 cd

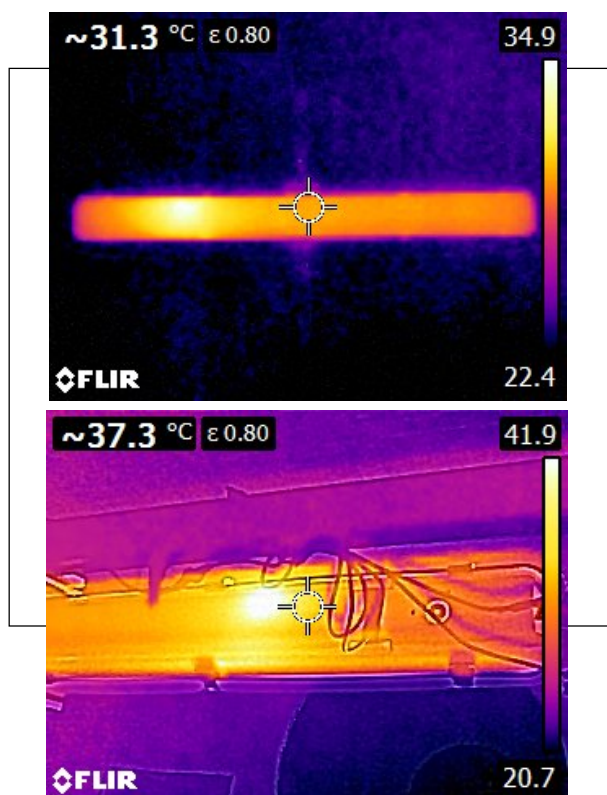
Max. Intensity: 1718.27 cd

Pos of Max. Intensity: H22.5 V0

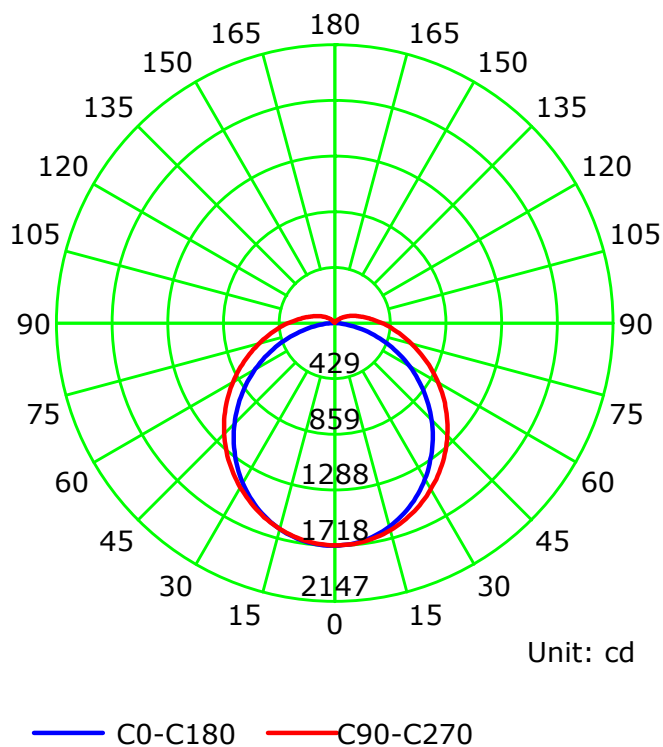
S/MH(C0/C180): 1.22

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

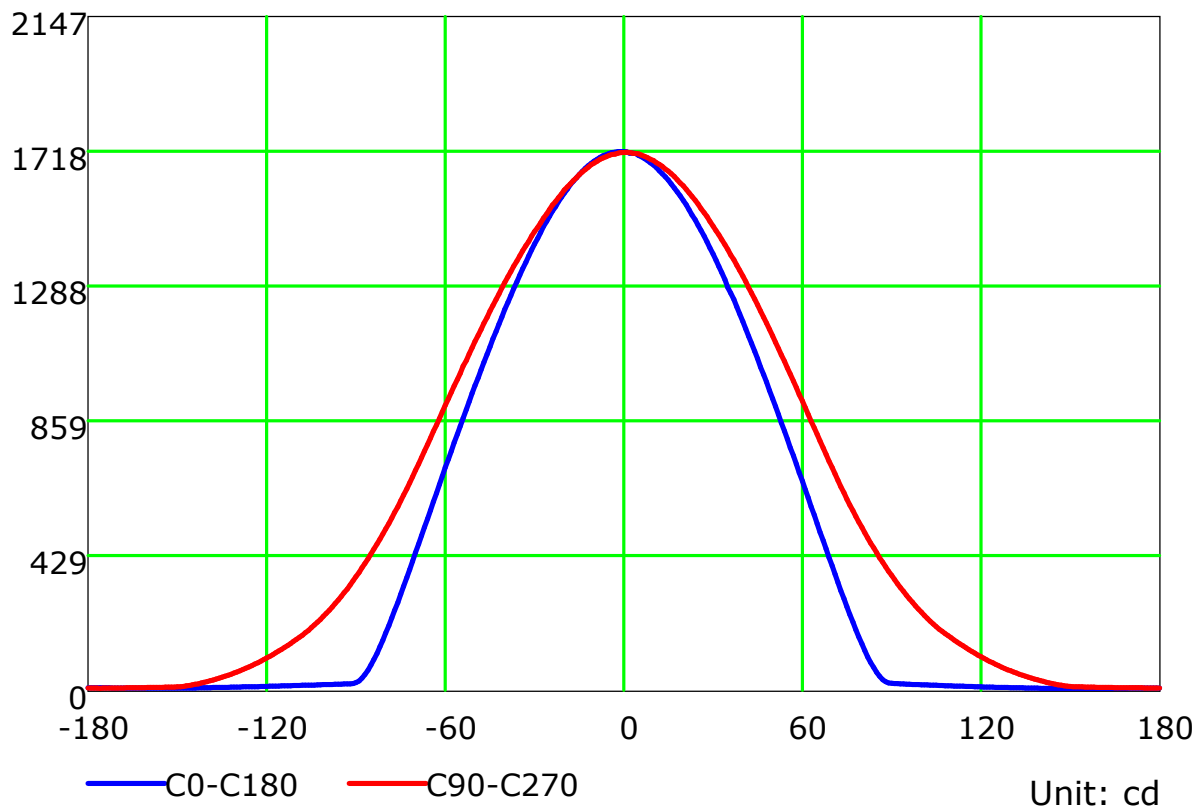
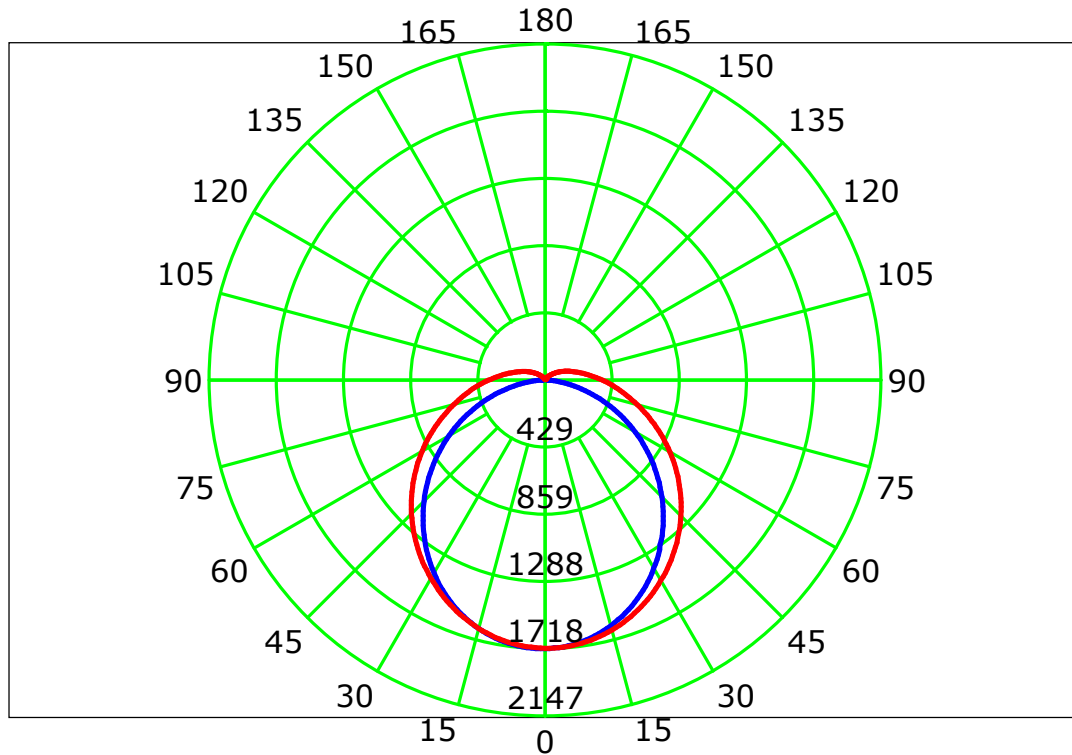
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

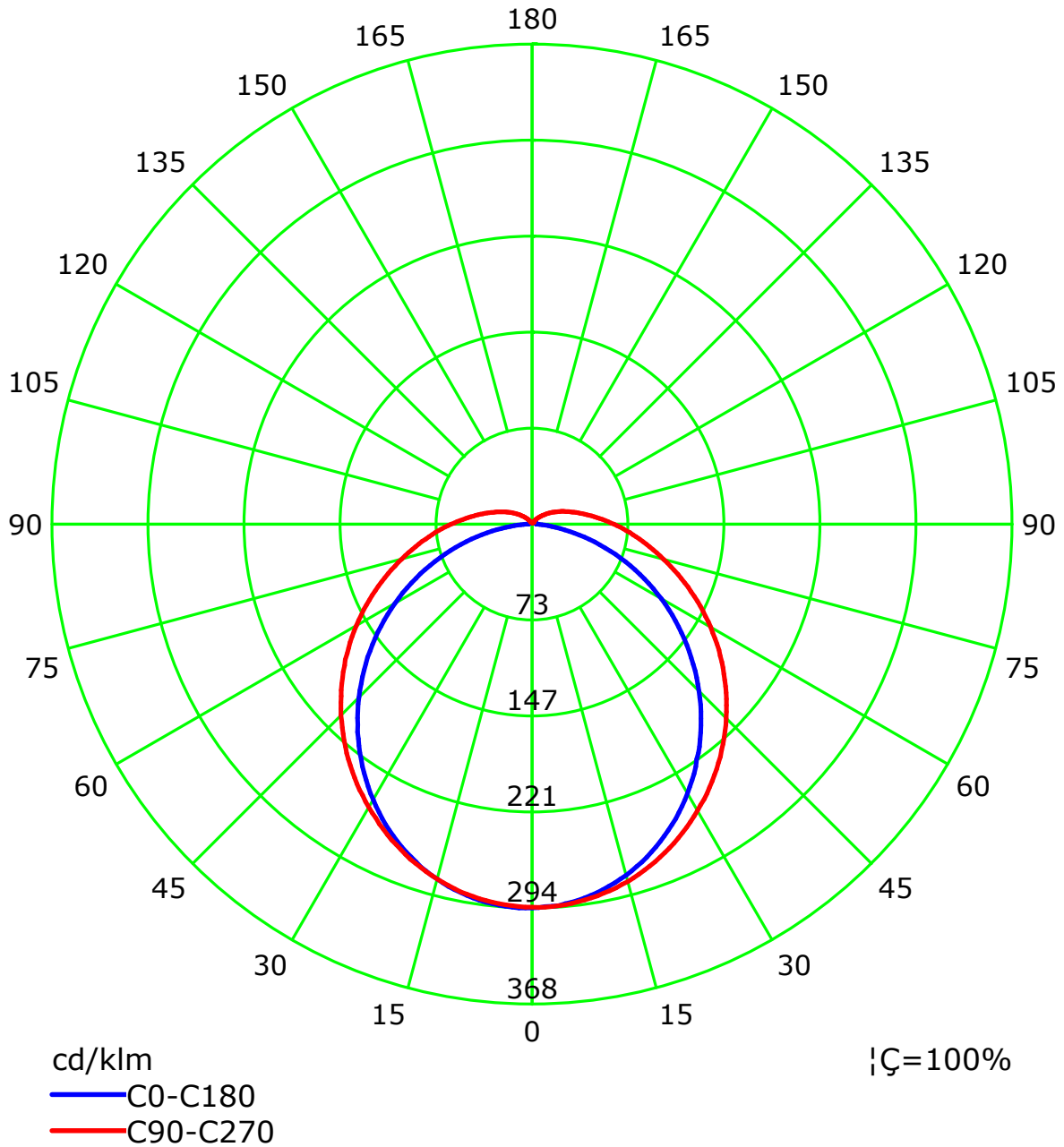


Unit: cd

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)

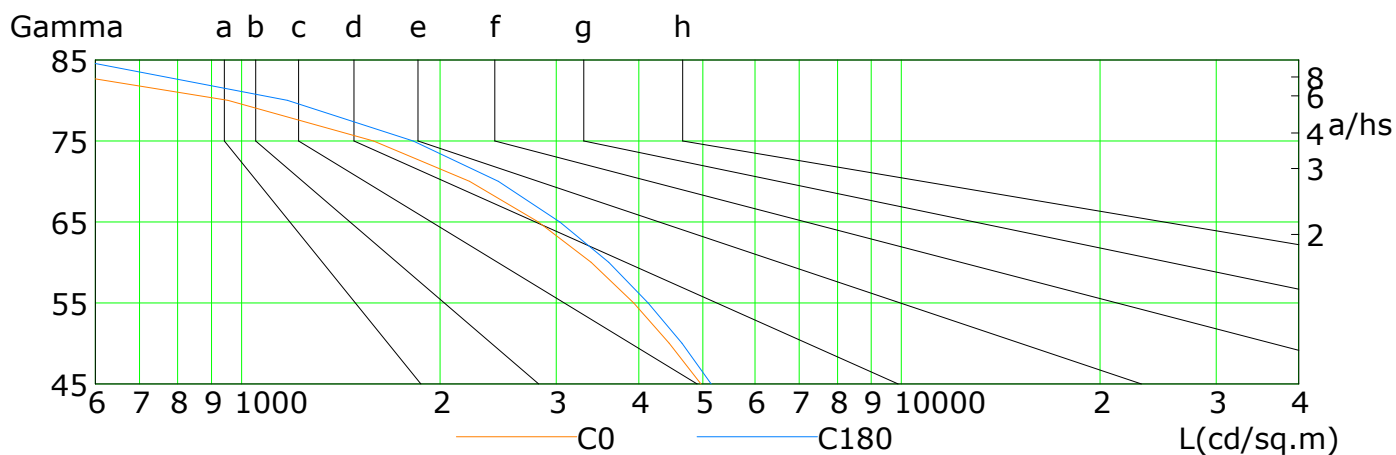
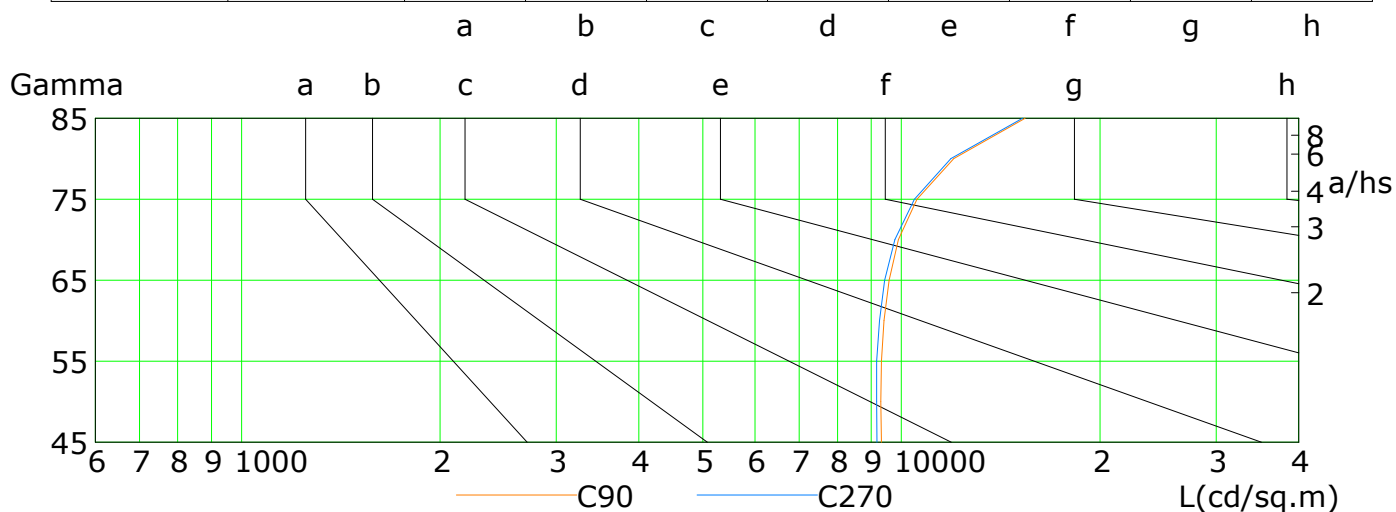


C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

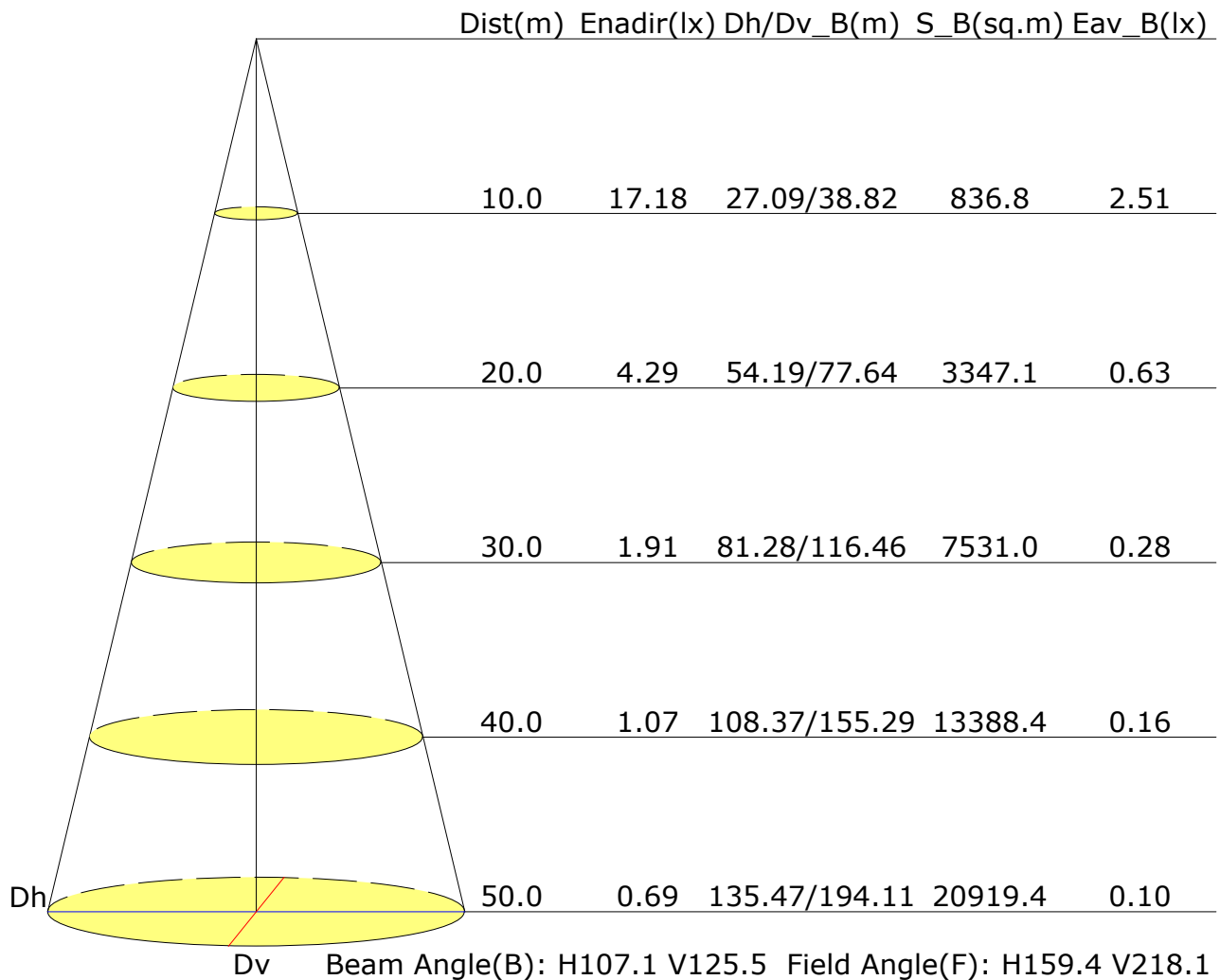


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4970	4449	3928	3386	2815	2215	1585	953	401
C90	9328	9310	9330	9409	9578	9897	10562	12006	15398
C180	5151	4649	4131	3602	3036	2448	1820	1174	566
C270	9182	9168	9171	9264	9432	9778	10467	11889	15262

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:

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	16.6	17.9	17.0	18.3	18.7	19.1	20.4	19.5	20.8	21.2
3H	17.6	18.9	18.1	19.3	19.7	21.2	22.4	21.6	22.8	23.3
4H	18.0	19.1	18.4	19.6	20.0	22.2	23.4	22.7	23.8	24.3
6H	18.1	19.2	18.6	19.7	20.2	23.3	24.4	23.8	24.9	25.4
8H	18.2	19.2	18.6	19.7	20.2	23.9	25.0	24.4	25.4	25.9
12H	18.1	19.2	18.6	19.6	20.1	24.5	25.5	25.0	26.0	26.5
X=4H Y=2H	17.4	18.6	17.9	19.0	19.5	19.4	20.6	19.9	21.0	21.5
3H	18.7	19.7	19.2	20.2	20.7	21.7	22.7	22.2	23.2	23.7
4H	19.1	20.1	19.7	20.5	21.1	22.9	23.8	23.4	24.3	24.8
6H	19.4	20.2	20.0	20.8	21.3	24.2	25.0	24.7	25.5	26.1
8H	19.5	20.2	20.0	20.8	21.4	24.8	25.6	25.4	26.1	26.7
12H	19.5	20.2	20.1	20.7	21.4	25.6	26.2	26.1	26.8	27.4
X=8H Y=4H	19.7	20.5	20.3	21.0	21.6	23.0	23.8	23.6	24.3	24.9
6H	20.2	20.8	20.8	21.4	22.0	24.5	25.1	25.0	25.6	26.3
8H	20.4	20.9	21.0	21.5	22.1	25.3	25.8	25.9	26.4	27.0
12H	20.4	20.9	21.1	21.5	22.2	26.1	26.6	26.8	27.2	27.9
X=12H Y=4H	19.9	20.6	20.4	21.1	21.7	23.0	23.7	23.6	24.2	24.9
6H	20.5	21.0	21.1	21.6	22.2	24.5	25.0	25.1	25.6	26.3
8H	20.7	21.2	21.3	21.8	22.4	25.3	25.8	25.9	26.4	27.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.6					+0.5/-0.4				
S=2.0H	+0.5/-1.1					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5826lm ($8\log(F/F_0) = 6.1$).

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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	0.47	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	0.81	0.85	0.89	0.92	
	0.30		0.42	0.52	0.58	0.64	0.71	0.76	0.80	0.85	0.89	
	0.20		0.37	0.46	0.53	0.58	0.66	0.72	0.76	0.82	0.86	
0.30	0.50	0.20	0.47	0.56	0.62	0.66	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	0.52	0.59	0.64	0.67	0.72	0.75	
Rating:47W 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	0.75	0.66	0.54	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.48	0.42	0.36	0.29	0.25	
	0.20		0.74	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.98	0.82	0.71	0.62	0.51	0.46	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.51	0.43	0.37	0.33	0.26	0.22	
0.30	0.50	0.20	0.93	0.78	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	0.27	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:47W 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	0.19	0.20	0.21	0.22	0.24	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:47W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												