

Report No.: 1

Test Time: 24.10.2019 13:28

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 75 24LED 32W opal

Luminous Width (mm): 80

Voltage: 221.3 V

Power: 32.09 W

Luminous Length (mm): 1275

Luminous Height (mm): 75

Current: 0.149 A

Power Factor: 0.972

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 3482.3 lm

Downward Ratio: 85%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.2, 277.1, 232.2, 224.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.6, 139.0, 125.3, 123.3

Luminaire Efficacy Rating (LER): 108.57

Max. Intensity: 871.36 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 3482.3 lm

Efficiency: 100%

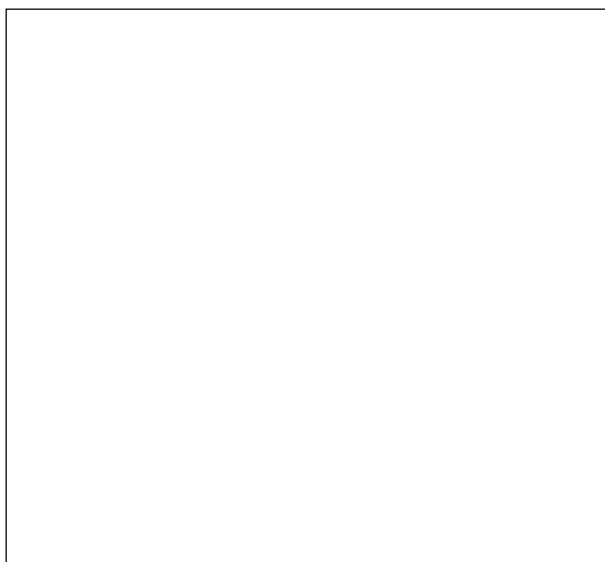
Upward Ratio: 15%

Central Intensity: 869.55 cd

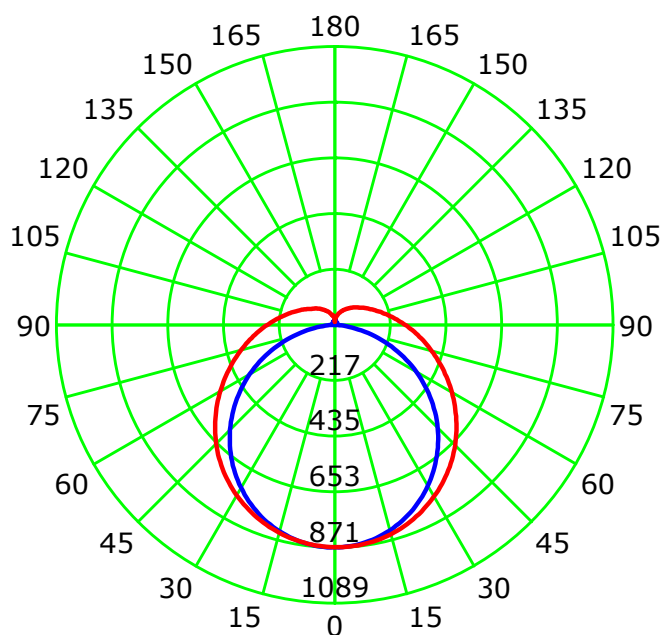
Pos of Max. Intensity: H157.5 V1

S/MH(C90/C270): 1.32

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

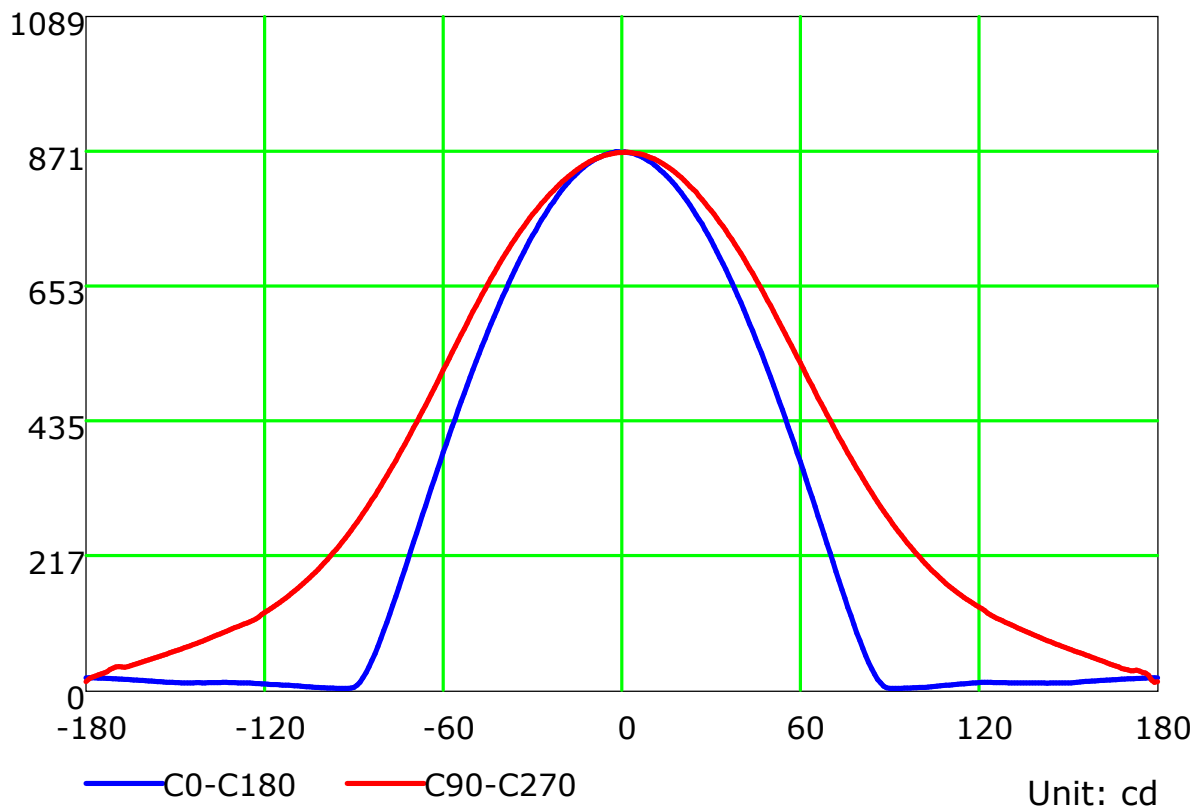
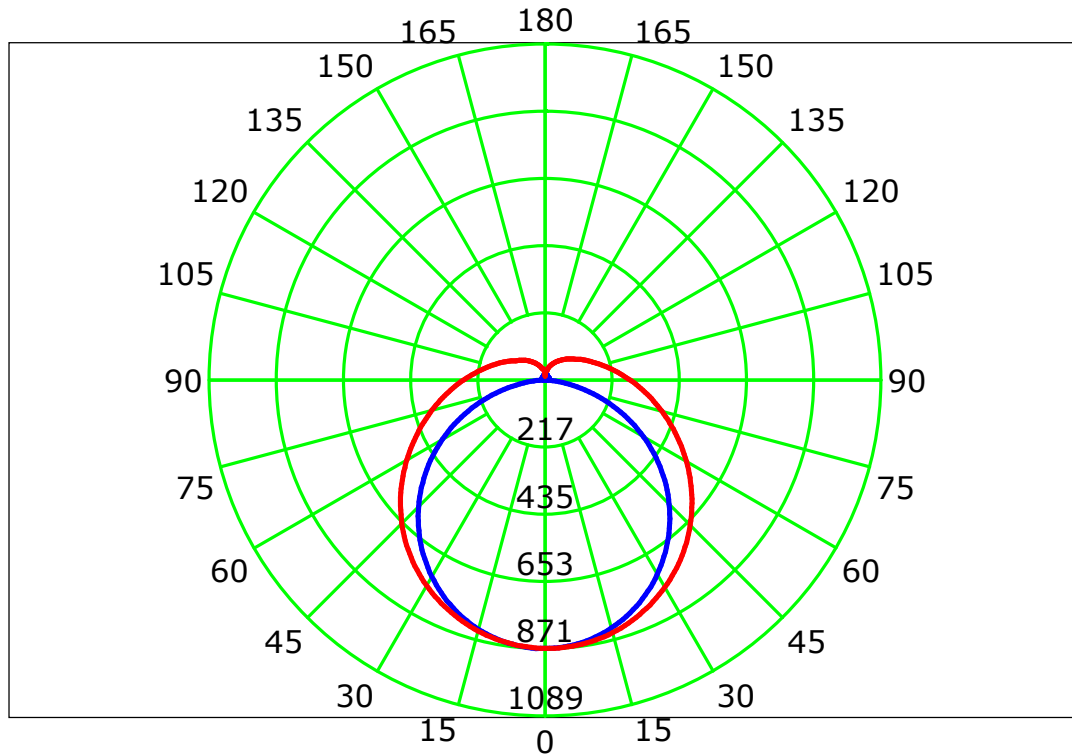
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

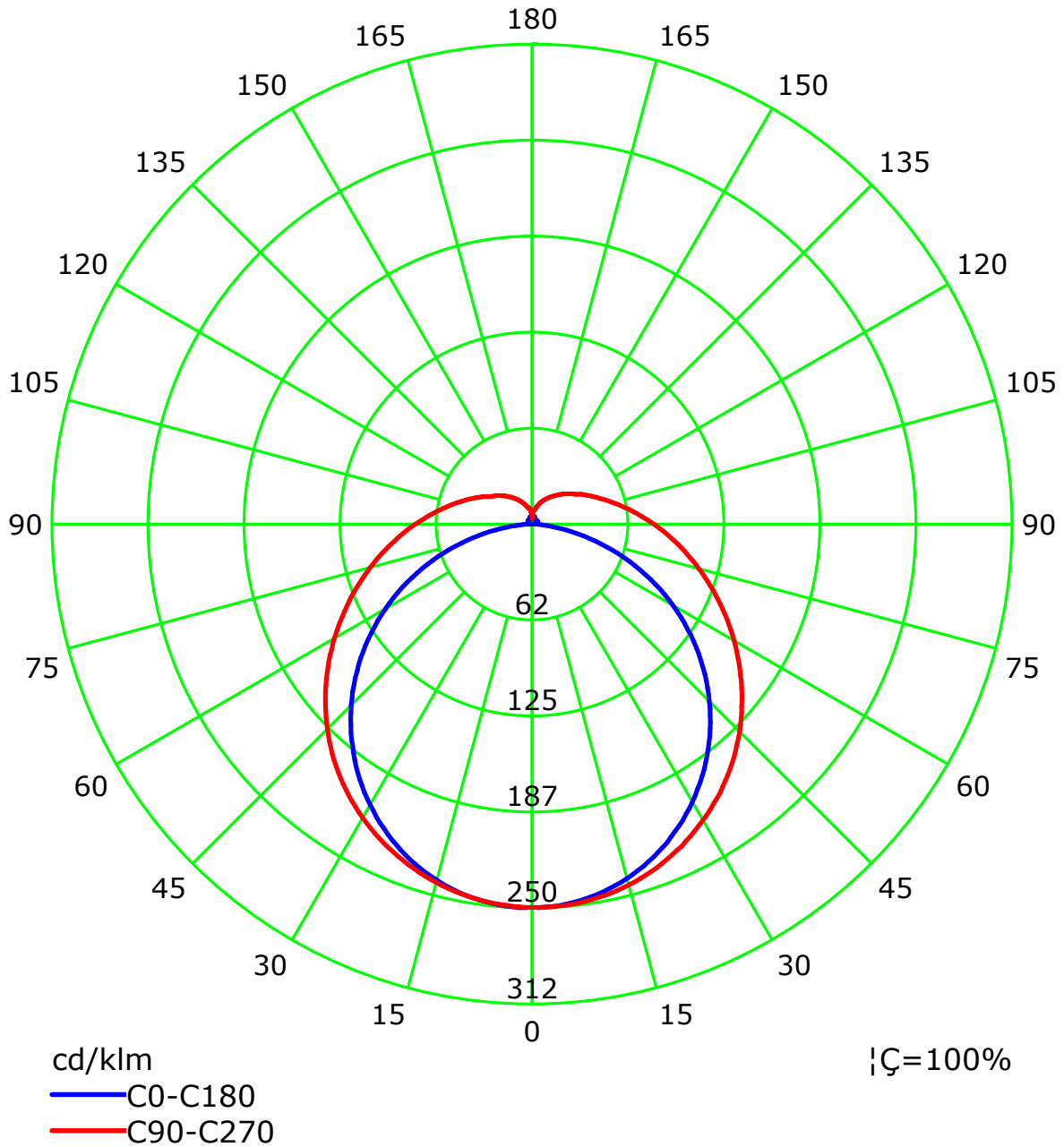
Luminous Intensity Distribution Curve



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)



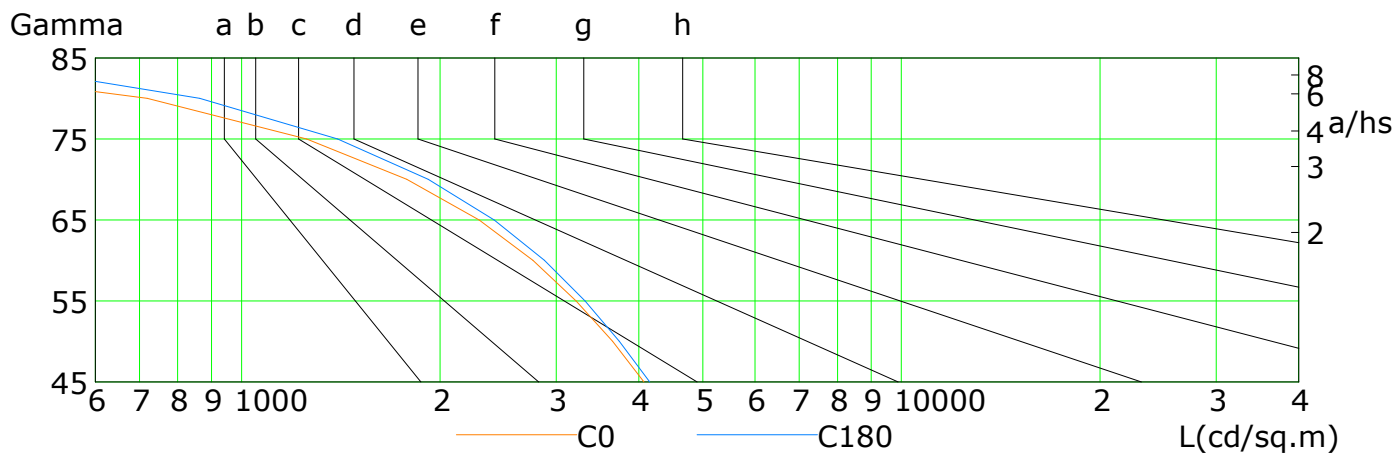
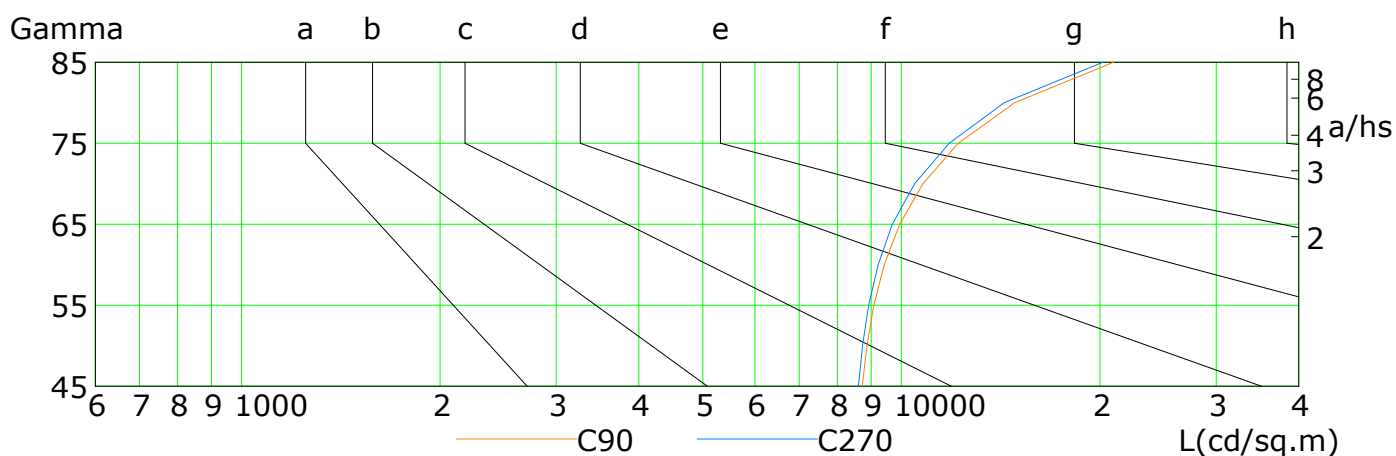
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h

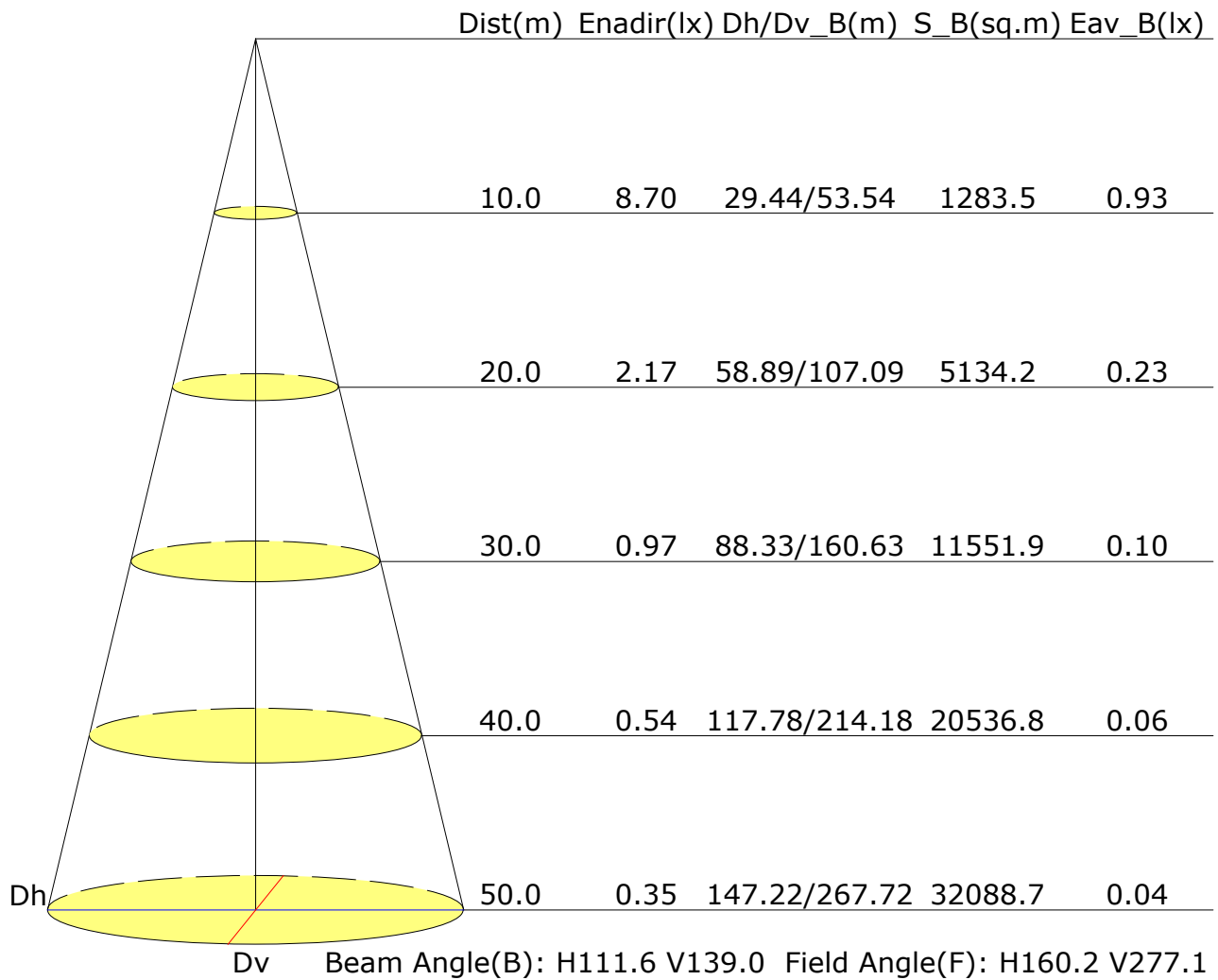


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4071	3649	3214	2763	2290	1780	1255	719	249
C90	8720	8867	9082	9426	9938	10779	12189	14858	20966
C180	4156	3736	3317	2877	2414	1917	1398	864	367
C270	8607	8734	8922	9225	9686	10472	11815	14327	20200

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

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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	15.5	16.8	16.0	17.3	17.8	18.5	19.7	19.0	20.2	20.8
3H	16.6	17.7	17.1	18.3	18.8	20.8	21.9	21.3	22.5	23.0
4H	16.9	18.0	17.5	18.5	19.1	22.0	23.1	22.6	23.7	24.3
6H	17.1	18.1	17.6	18.6	19.3	23.4	24.4	23.9	24.9	25.6
8H	17.1	18.1	17.7	18.6	19.3	24.1	25.1	24.7	25.6	26.3
12H	17.0	18.0	17.6	18.6	19.2	24.8	25.8	25.4	26.4	27.0
X=4H Y=2H	16.5	17.6	17.0	18.1	18.7	18.8	19.8	19.3	20.4	21.0
3H	17.7	18.7	18.3	19.2	19.9	21.3	22.2	21.8	22.8	23.4
4H	18.2	19.0	18.8	19.6	20.3	22.6	23.5	23.2	24.1	24.8
6H	18.4	19.2	19.1	19.8	20.5	24.1	24.9	24.8	25.5	26.2
8H	18.5	19.2	19.1	19.8	20.5	24.9	25.6	25.6	26.3	27.0
12H	18.5	19.1	19.1	19.8	20.5	25.8	26.5	26.5	27.1	27.9
X=8H Y=4H	18.9	19.6	19.5	20.2	20.9	22.7	23.4	23.4	24.1	24.8
6H	19.3	19.9	20.0	20.6	21.3	24.4	25.0	25.1	25.6	26.4
8H	19.5	20.0	20.2	20.7	21.5	25.3	25.9	26.0	26.5	27.3
12H	19.5	20.0	20.2	20.7	21.5	26.4	26.8	27.1	27.5	28.3
X=12H Y=4H	19.1	19.7	19.7	20.3	21.1	22.7	23.4	23.4	24.0	24.8
6H	19.6	20.2	20.3	20.8	21.6	24.4	24.9	25.1	25.6	26.4
8H	19.9	20.3	20.6	21.0	21.8	25.4	25.8	26.1	26.5	27.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.3/-0.6					+0.5/-0.5				
S=2.0H	+0.5/-1.1					+0.9/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3482lm ($8\log(F/F_0) = 4.3$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
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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 = 1.50									
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	0.60	0.67	0.72	0.79	0.84	0.87	0.92	0.95	
	0.30		0.44	0.52	0.59	0.64	0.72	0.78	0.82	0.87	0.91	
	0.20		0.38	0.46	0.53	0.58	0.66	0.72	0.77	0.83	0.87	
0.50	0.50	0.20	0.49	0.56	0.63	0.67	0.73	0.78	0.81	0.85	0.88	
	0.30		0.42	0.49	0.56	0.61	0.68	0.73	0.76	0.81	0.85	
	0.20		0.37	0.44	0.51	0.56	0.63	0.68	0.72	0.78	0.82	
0.30	0.50	0.20	0.46	0.53	0.59	0.63	0.69	0.72	0.75	0.79	0.82	
	0.30		0.40	0.47	0.53	0.58	0.64	0.68	0.72	0.76	0.79	
	0.20		0.36	0.42	0.49	0.53	0.60	0.65	0.68	0.73	0.77	
0.00	0.00	0.00	0.32	0.38	0.44	0.48	0.54	0.58	0.61	0.66	0.69	
Rating:32W 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 = 1.50									
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	0.85	0.74	0.65	0.53	0.45	0.39	0.31	0.26	
	0.30		0.83	0.73	0.64	0.58	0.48	0.41	0.36	0.30	0.25	
	0.20		0.71	0.64	0.57	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.93	0.80	0.69	0.61	0.50	0.45	0.37	0.29	0.24	
	0.30		0.78	0.69	0.61	0.54	0.45	0.39	0.34	0.28	0.23	
	0.20		0.68	0.61	0.54	0.49	0.42	0.36	0.32	0.26	0.22	
0.30	0.50	0.20	0.87	0.74	0.64	0.57	0.46	0.39	0.34	0.27	0.23	
	0.30		0.74	0.65	0.57	0.51	0.43	0.37	0.32	0.26	0.22	
	0.20		0.65	0.58	0.52	0.47	0.40	0.34	0.30	0.25	0.21	
0.00	0.00	0.00	0.53	0.48	0.42	0.38	0.32	0.27	0.24	0.20	0.17	
Rating:32W 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 = 1.50									
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	0.30	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.36	
	0.30		0.24	0.25	0.26	0.27	0.29	0.30	0.31	0.32	0.33	
	0.20		0.19	0.20	0.21	0.23	0.25	0.26	0.27	0.29	0.30	
0.50	0.50	0.20	0.29	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.34	
	0.30		0.23	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	
	0.20		0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.28	0.29	
0.30	0.50	0.20	0.28	0.30	0.30	0.31	0.32	0.32	0.32	0.33	0.33	
	0.30		0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.30	
	0.20		0.18	0.20	0.21	0.22	0.23	0.25	0.26	0.27	0.28	
0.00	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
Rating:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												