

Report No.: 1

Test Time: 18.11.2019 17:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58_750 152LED 0,6A 36W 4000K opal

Luminous Length (mm): 750

Luminous Width (mm): 70

Luminous Height (mm): 65

Voltage: 221.4 V

Current: 0.176 A

Power: 37.59 W

Power Factor: 0.959

Photometric Results

CIE Class: Direct

Measurement Flux: 4162.6 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4162.6 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 168.3, 164.4, 165.7, 165.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 115.3, 111.9, 113.9, 114.1

Luminaire Efficacy Rating (LER): 110.79

Central Intensity: 1393.8 cd

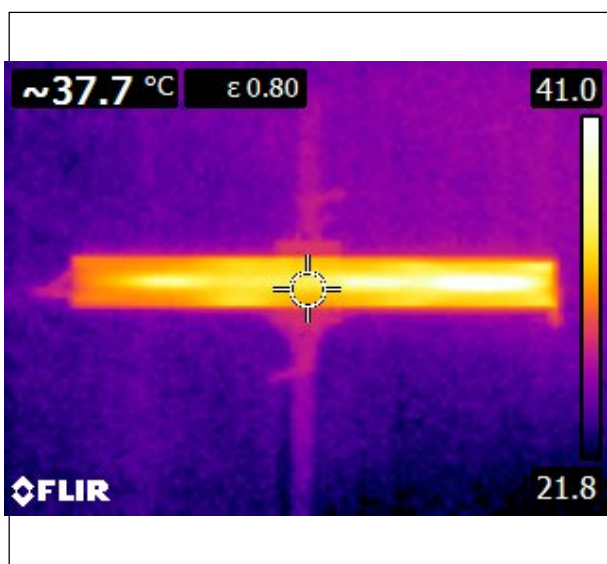
Max. Intensity: 1399.4 cd

Pos of Max. Intensity: H135 V3

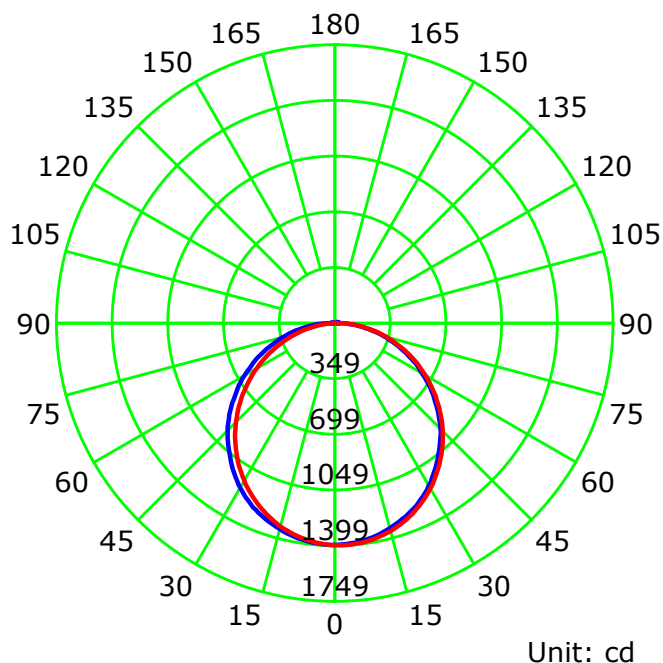
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.25

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

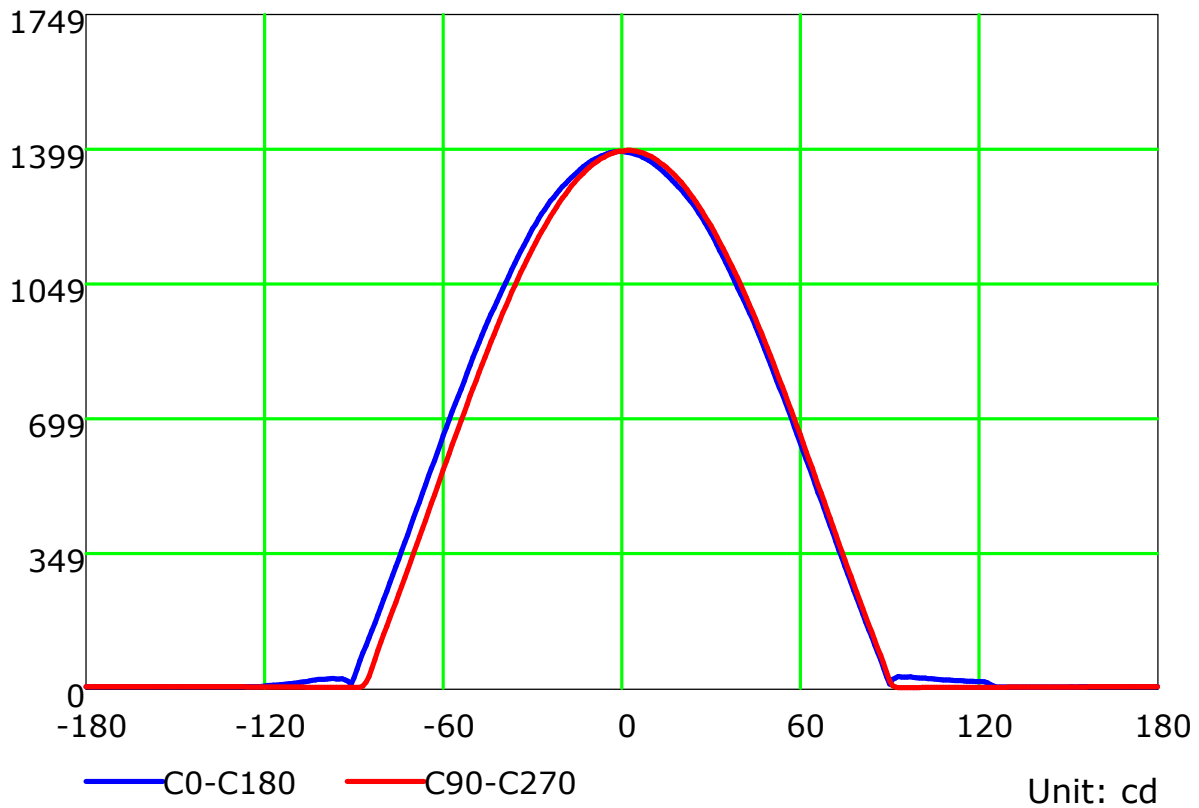
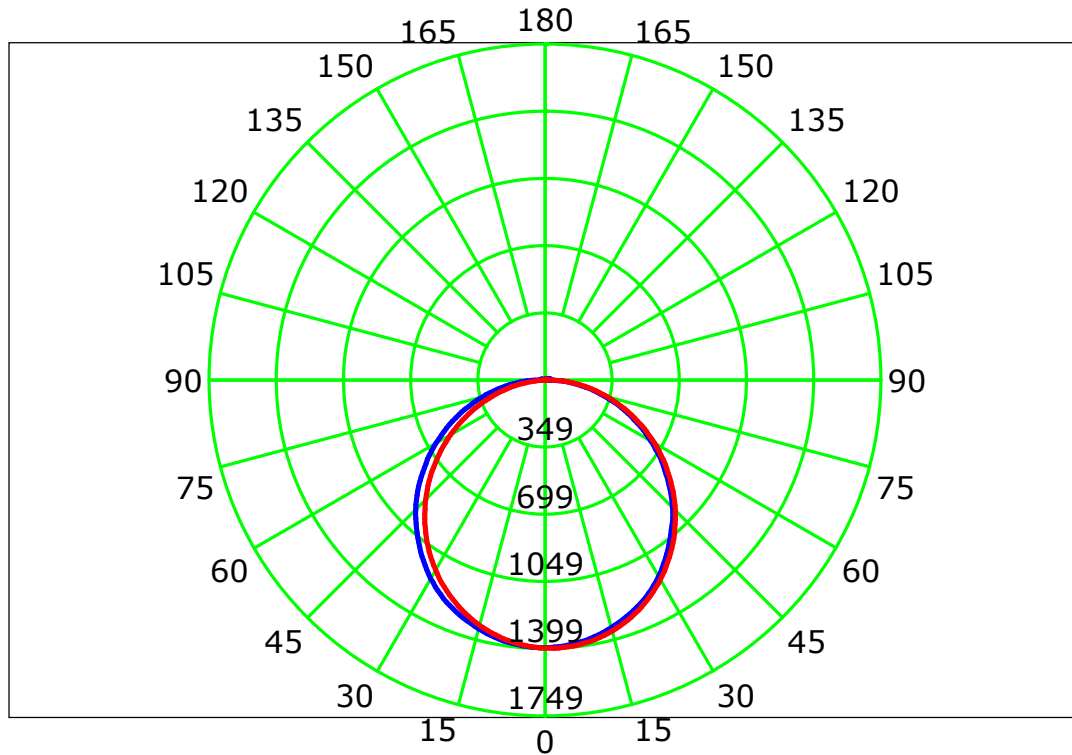
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

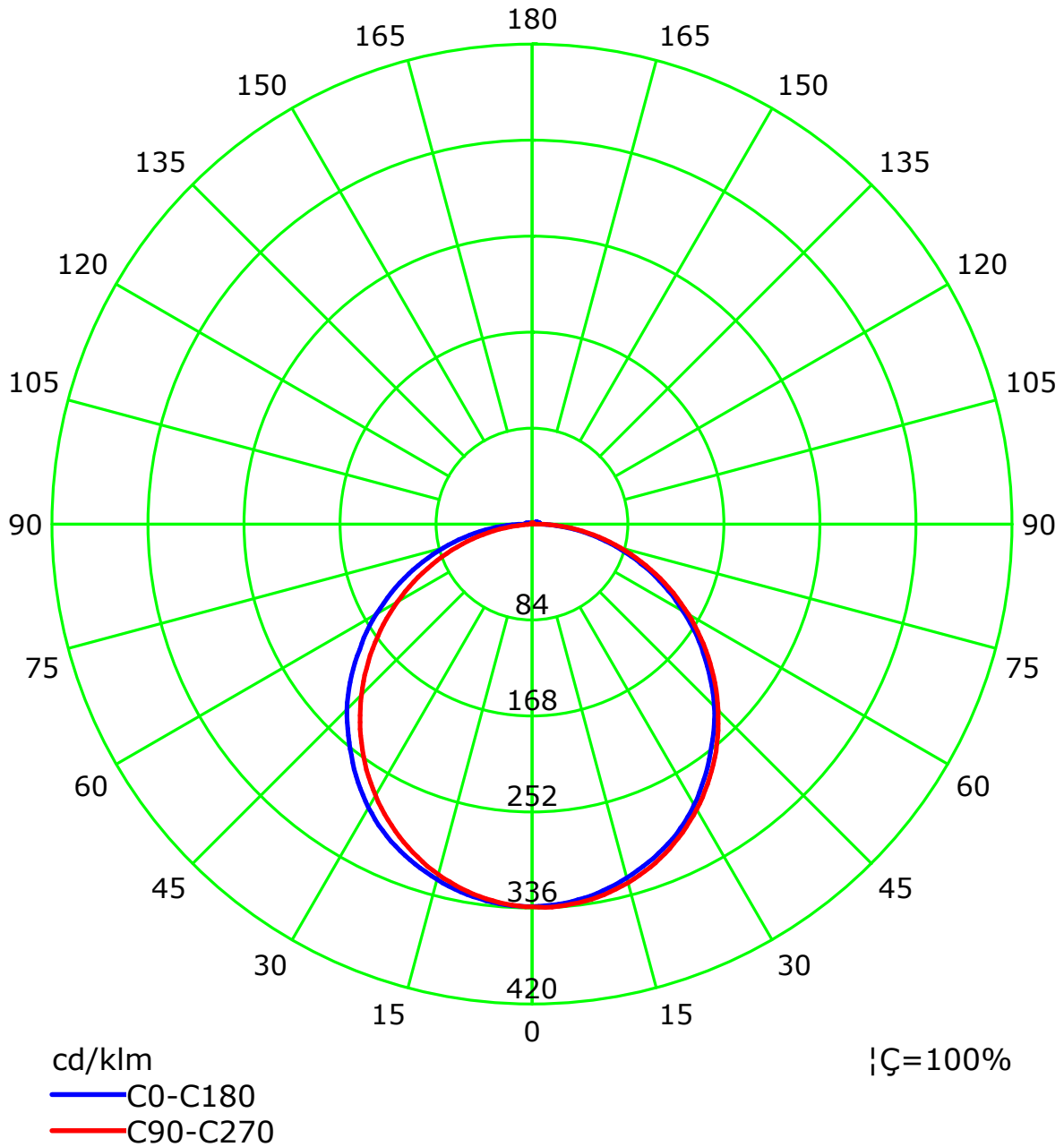
Luminous Intensity Distribution Curve



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)



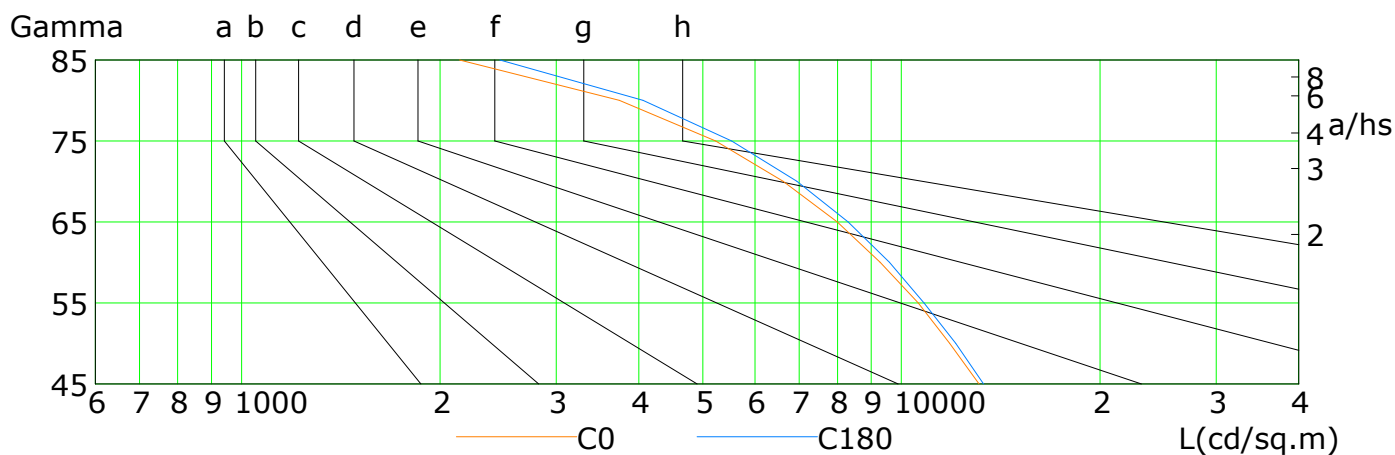
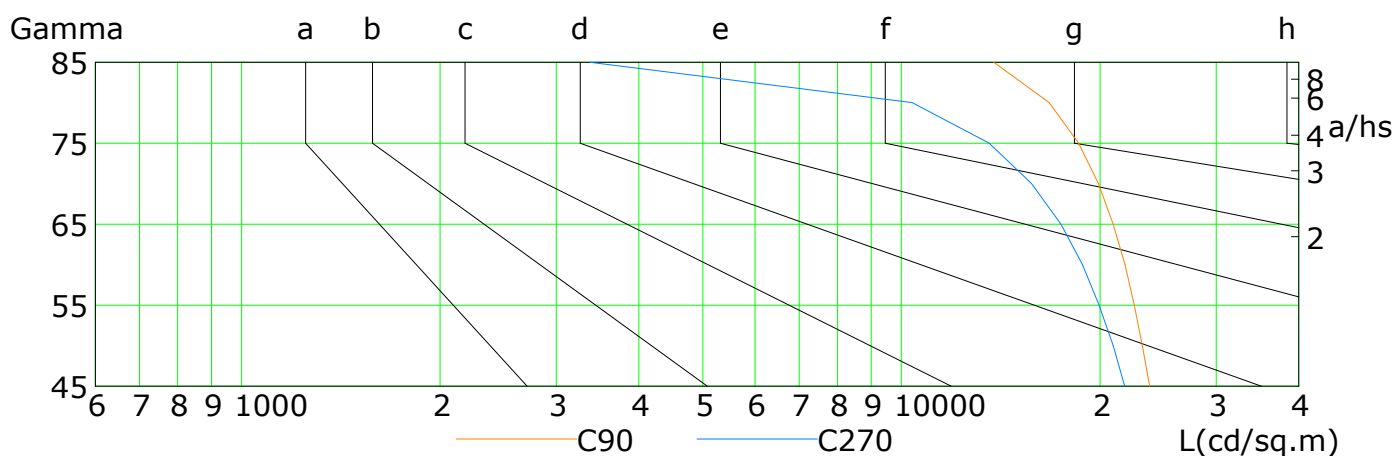
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h

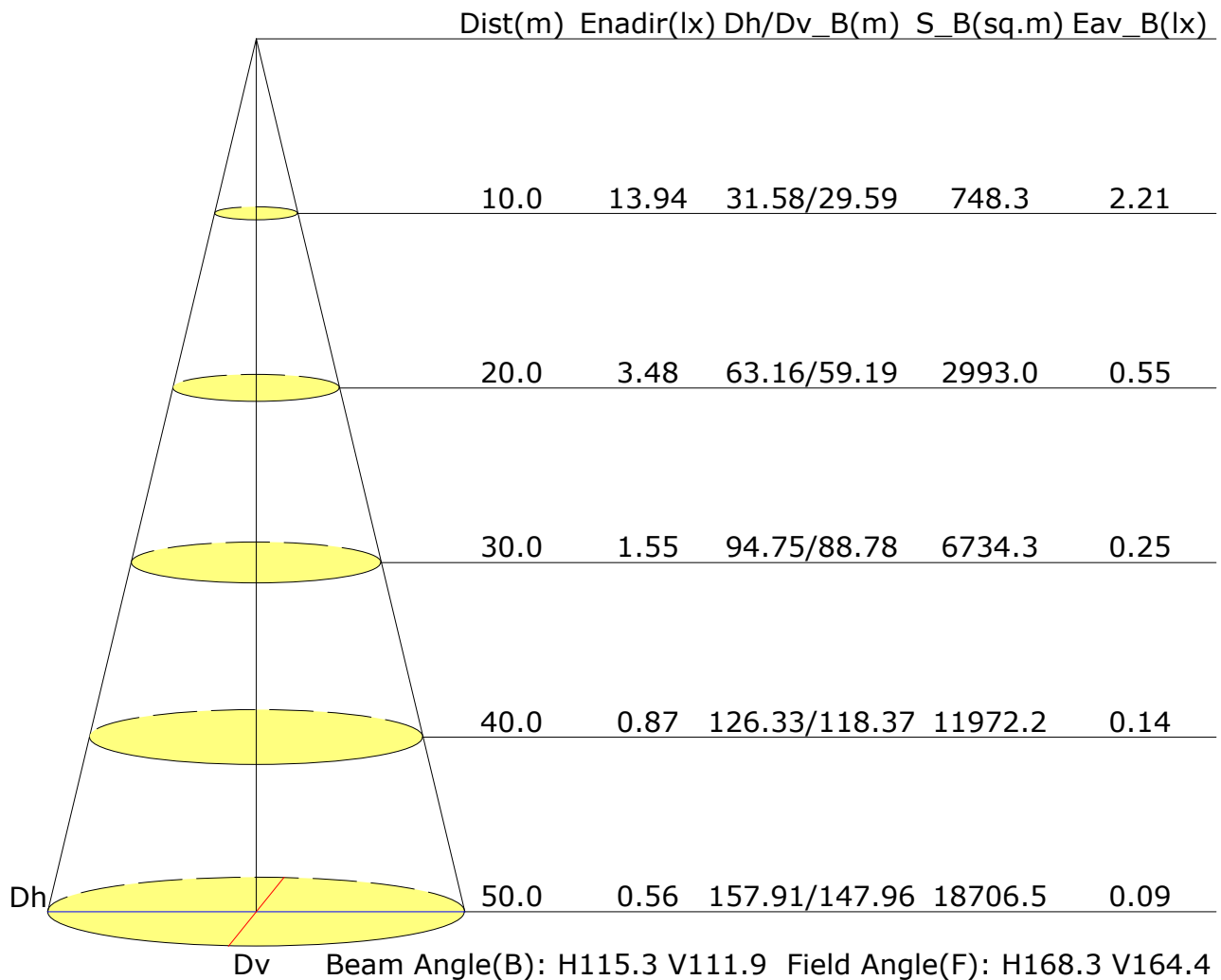


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13117	11835	10611	9286	7997	6622	5227	3735	2139
C90	23774	23181	22544	21823	20928	19885	18568	16738	13806
C180	13327	12088	10824	9595	8305	6944	5529	4058	2463
C270	21807	20929	19935	18805	17457	15753	13593	10389	3371

C Plane (°):0.0-360.0: 22.5
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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	20.8	22.2	21.1	22.5	22.7	22.1	23.5	22.4	23.8	24.0
3H	22.0	23.3	22.4	23.6	23.9	23.6	24.9	24.0	25.2	25.5
4H	22.5	23.7	22.9	24.0	24.3	24.3	25.5	24.7	25.8	26.1
6H	22.8	23.9	23.2	24.3	24.6	24.8	25.9	25.2	26.2	26.6
8H	22.9	24.0	23.3	24.3	24.7	24.9	26.0	25.3	26.4	26.7
12H	22.9	24.0	23.3	24.3	24.7	25.0	26.1	25.4	26.4	26.8
X=4H Y=2H	21.4	22.6	21.8	23.0	23.3	22.5	23.7	22.8	24.0	24.3
3H	22.8	23.9	23.2	24.2	24.6	24.2	25.2	24.6	25.6	26.0
4H	23.4	24.3	23.8	24.7	25.1	24.9	25.9	25.3	26.2	26.6
6H	23.8	24.6	24.3	25.1	25.5	25.5	26.3	25.9	26.7	27.2
8H	23.9	24.7	24.4	25.1	25.6	25.7	26.5	26.2	26.9	27.4
12H	24.0	24.7	24.5	25.2	25.6	25.9	26.5	26.3	27.0	27.5
X=8H Y=4H	23.7	24.4	24.1	24.9	25.3	25.0	25.8	25.5	26.2	26.7
6H	24.2	24.8	24.7	25.3	25.8	25.7	26.3	26.2	26.8	27.3
8H	24.4	24.9	24.9	25.4	25.9	26.0	26.5	26.5	27.0	27.5
12H	24.5	25.0	25.0	25.5	26.0	26.2	26.7	26.7	27.2	27.7
X=12H Y=4H	23.7	24.4	24.2	24.8	25.3	25.0	25.7	25.5	26.2	26.7
6H	24.2	24.8	24.7	25.3	25.8	25.7	26.3	26.2	26.8	27.3
8H	24.4	24.9	25.0	25.4	26.0	26.0	26.5	26.5	27.0	27.5
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					+0.3/-0.4				
S=2.0H	+0.6/-1.1					+0.7/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4163lm ($8\log(F/F_0) = 5.0$).

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

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 = 1.25									
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	0.55	0.65	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.30		0.47	0.57	0.65	0.71	0.79	0.85	0.89	0.95	0.98	
	0.20		0.41	0.52	0.59	0.65	0.74	0.80	0.84	0.91	0.95	
0.50	0.50	0.20	0.53	0.63	0.70	0.75	0.82	0.87	0.90	0.95	0.98	
	0.30		0.46	0.56	0.63	0.69	0.77	0.82	0.86	0.91	0.94	
	0.20		0.41	0.51	0.58	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.61	0.68	0.72	0.79	0.83	0.87	0.91	0.94	
	0.30		0.45	0.55	0.62	0.67	0.74	0.79	0.83	0.88	0.91	
	0.20		0.40	0.50	0.57	0.63	0.70	0.76	0.80	0.85	0.89	
0.00	0.00	0.00	0.38	0.48	0.54	0.59	0.67	0.72	0.76	0.80	0.84	
Rating:38W 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	1.02	0.84	0.72	0.63	0.51	0.42	0.36	0.28	0.23	
	0.30		0.85	0.72	0.63	0.56	0.46	0.39	0.34	0.27	0.22	
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21	
0.50	0.50	0.20	0.98	0.81	0.69	0.60	0.48	0.43	0.35	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.78	0.66	0.58	0.46	0.38	0.33	0.26	0.21	
	0.30		0.81	0.68	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.45	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:38W 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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:38W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												