

Report No.: 1

Test Time: 25.03.2020 23:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 3000K 104x90 gr

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.203 A

Power Factor: 0.974

Luminous Width (mm): 75

Voltage: 228.7 V

Power: 45.37 W

Photometric Results

CIE Class: Direct

Measurement Flux: 6233 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 162.1, 126.9, 136.5, 137.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.2, 85.5, 86.1, 85.1

Luminaire Efficacy Rating (LER): 137.43

Max. Intensity: 3005.34 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 6233.0 lm

Efficiency: 100%

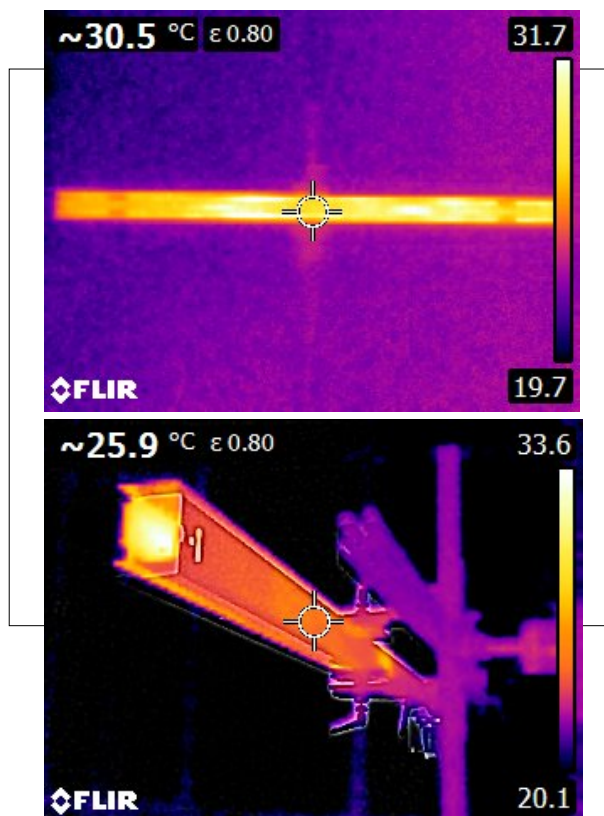
Upward Ratio: 1%

Central Intensity: 2906.18 cd

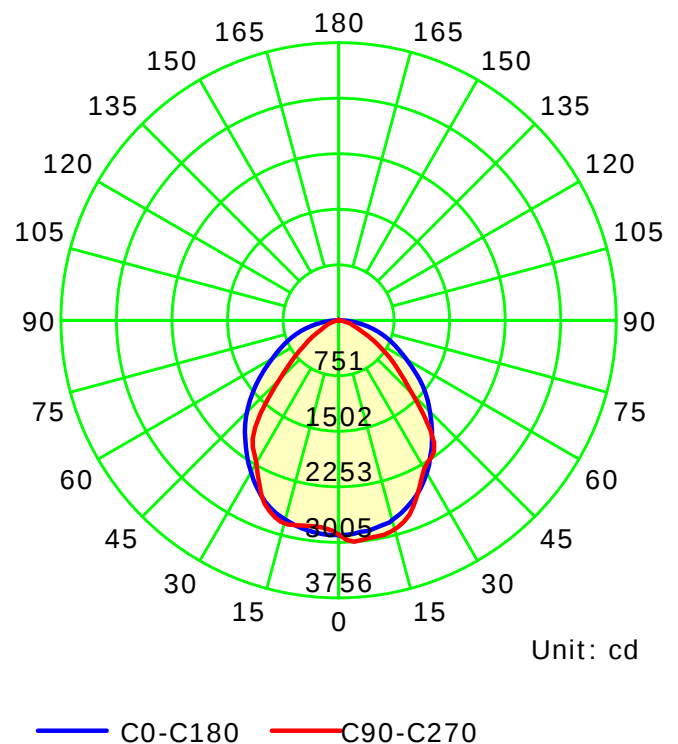
Pos of Max. Intensity: H135 V6

S/MH(C90/C270): 1.17

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

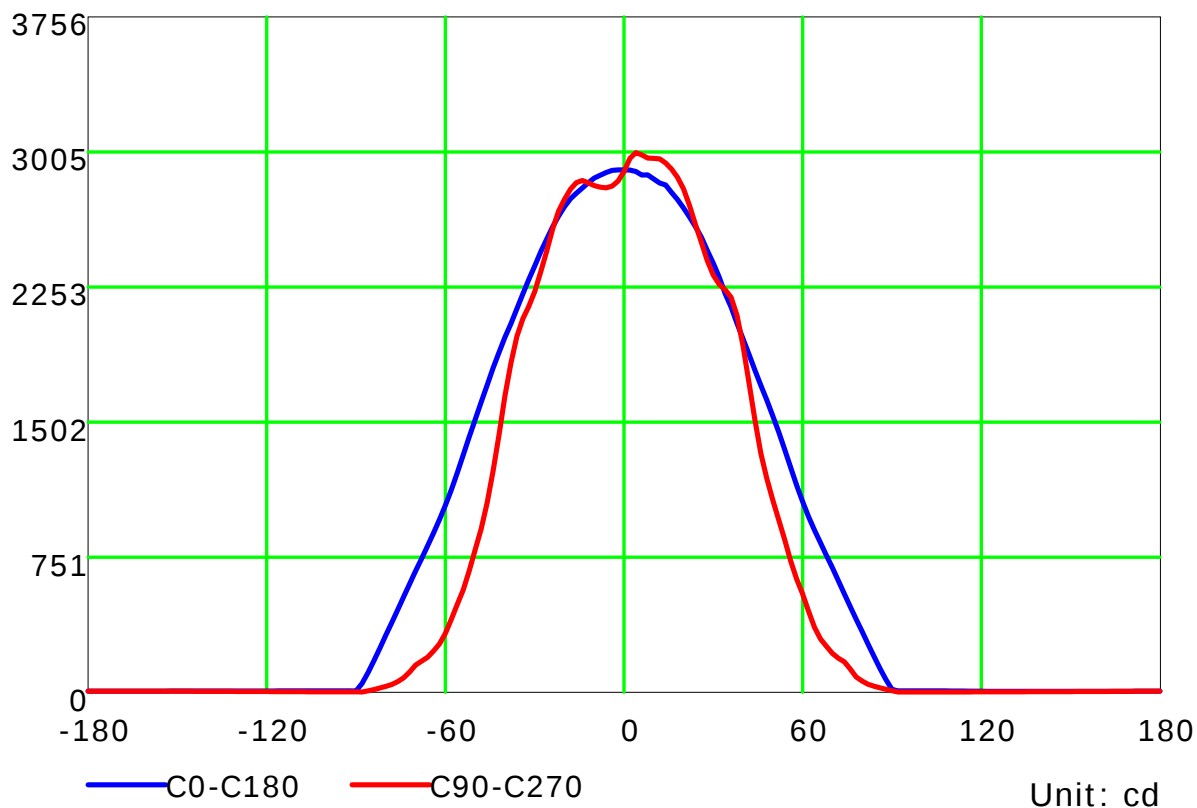
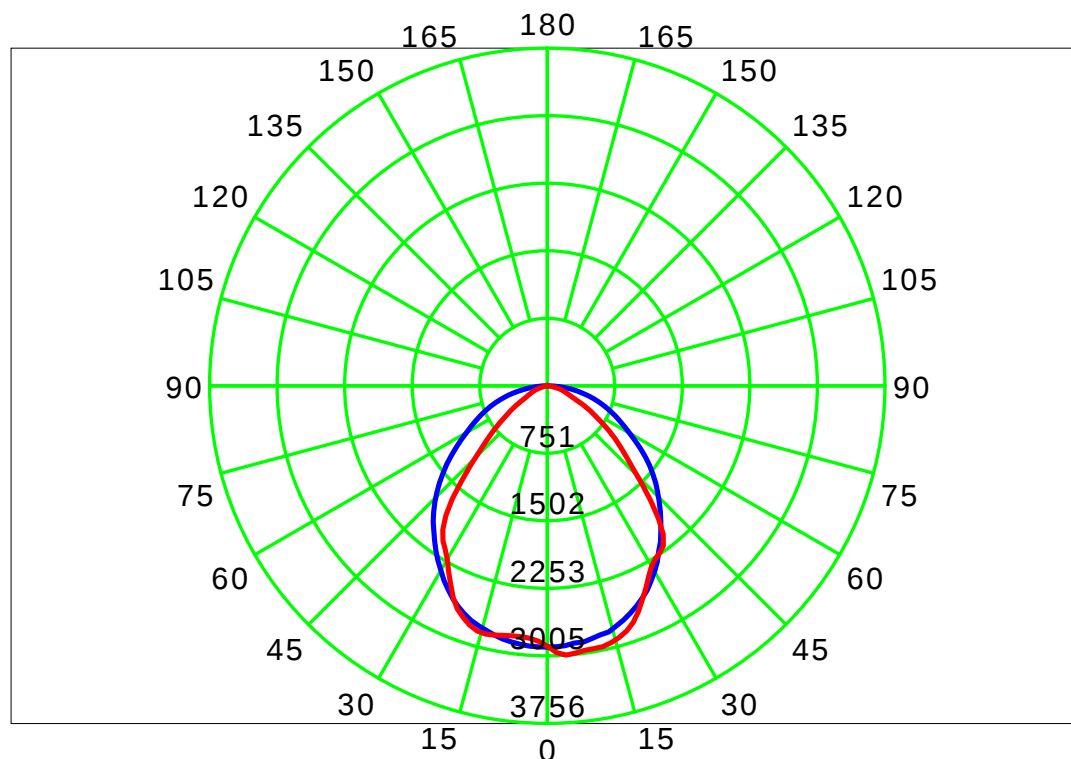
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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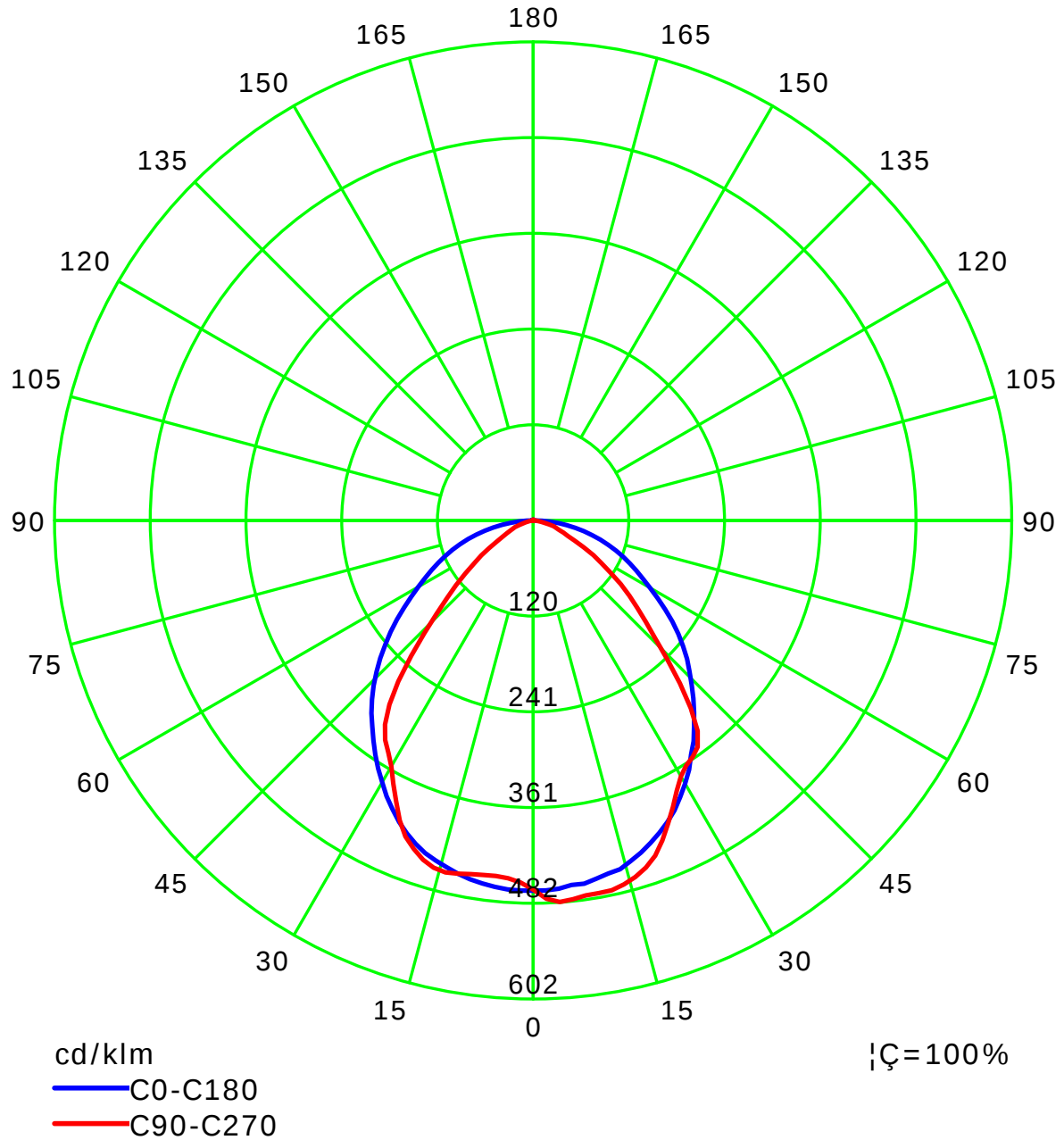
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

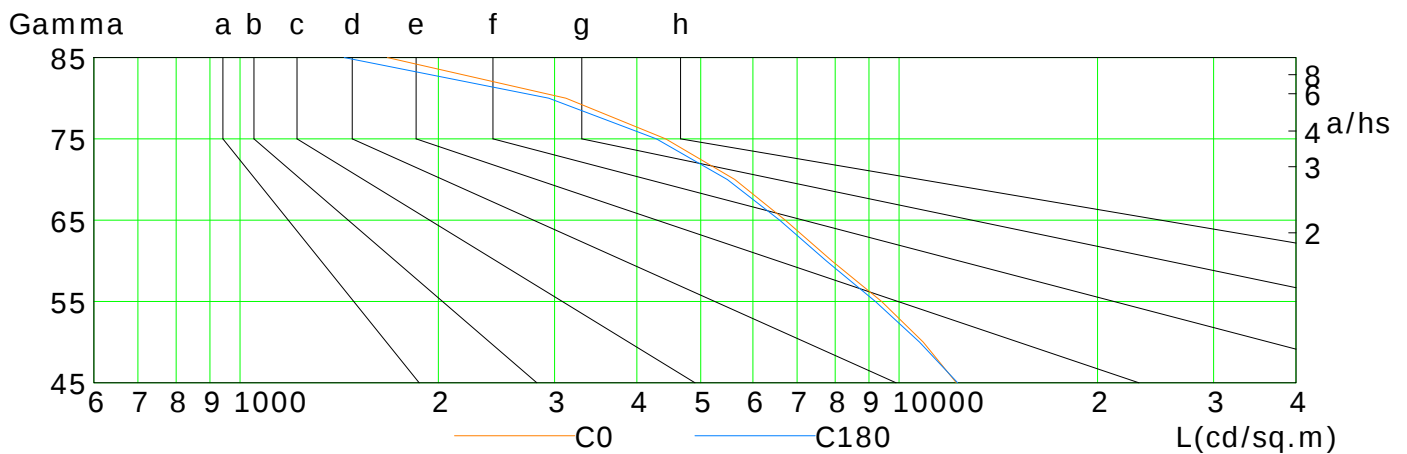
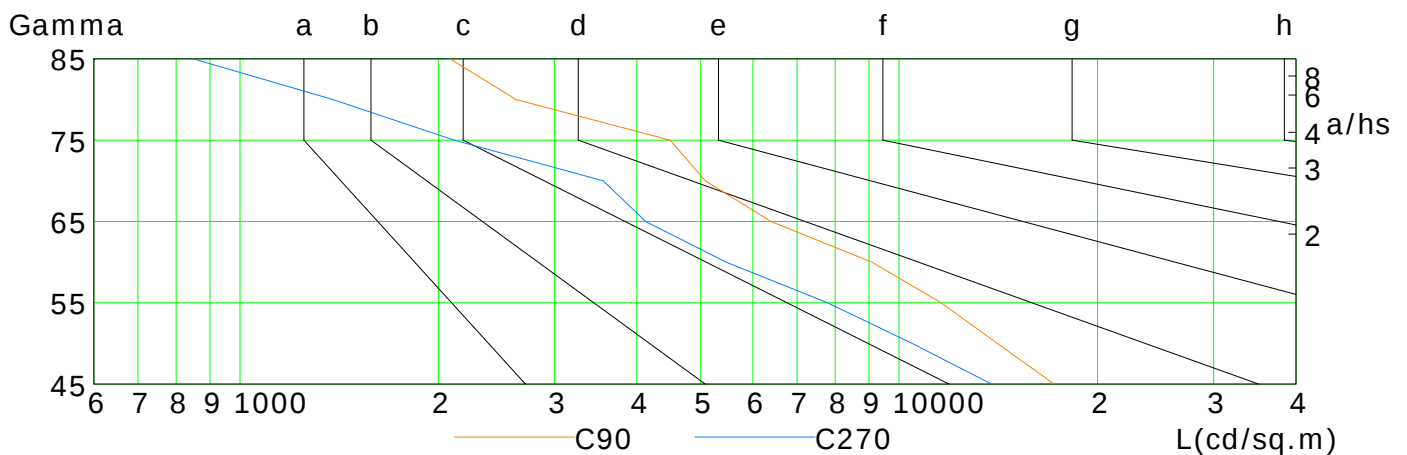
Luminous Intensity Distribution Curve(cd / klm)



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	12216	10875	9407	7902	6719	5633	4423	3122	1674
C90	17185	14095	11580	9091	6390	5081	4492	2623	2083
C180	12268	10736	9201	7750	6586	5486	4281	2940	1439
C270	13811	10466	7785	5461	4125	3557	2113	1382	850

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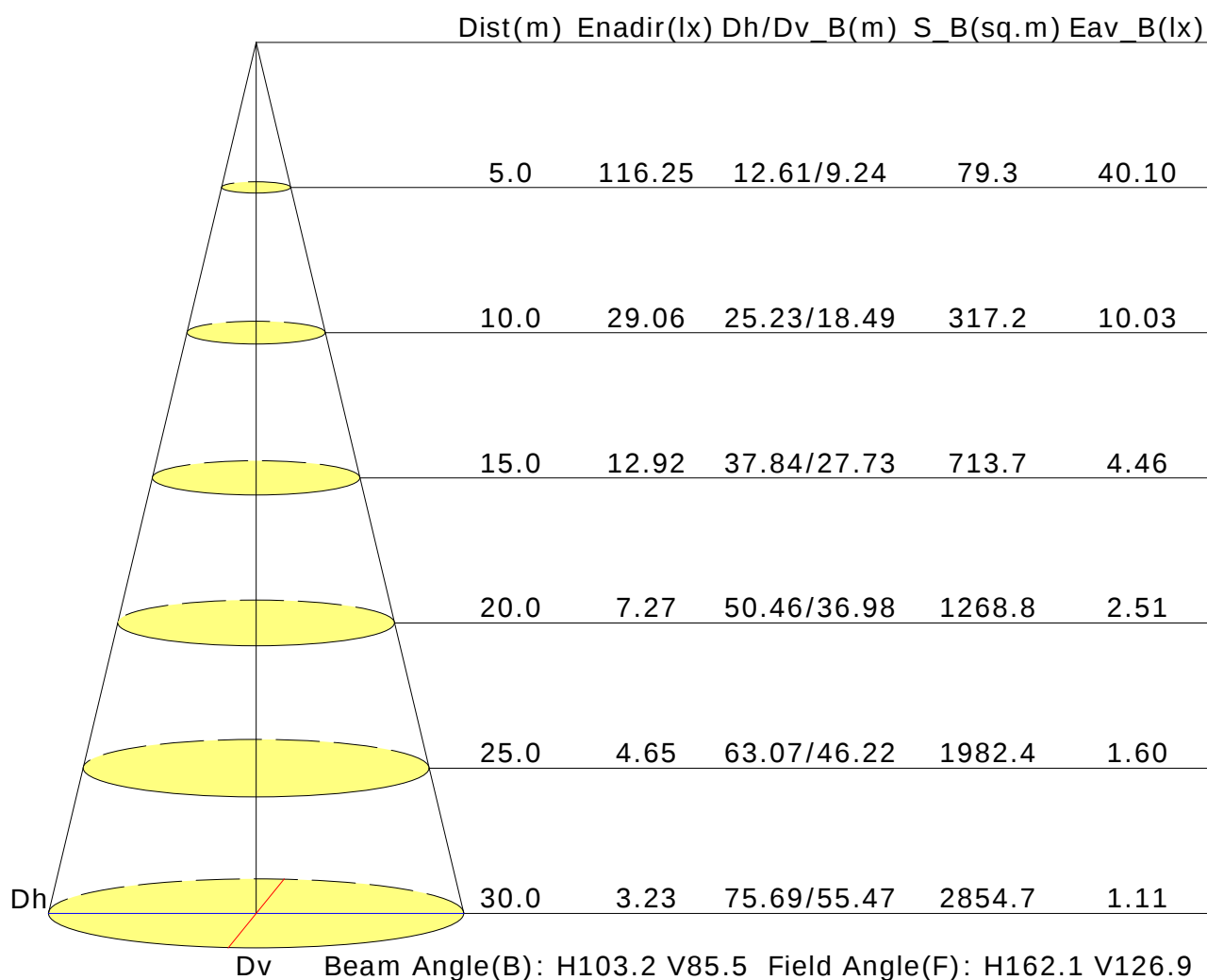
Test Device: LSG-1800B

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	19.6	20.9	19.9	21.1	21.4	19.0	20.3	19.3	20.5	20.7
3H	20.8	21.9	21.1	22.2	22.5	19.3	20.4	19.7	20.7	21.0
4H	21.3	22.3	21.6	22.6	22.9	19.4	20.5	19.8	20.8	21.1
6H	21.6	22.6	22.0	22.9	23.2	19.4	20.4	19.8	20.7	21.0
8H	21.7	22.6	22.1	23.0	23.3	19.4	20.4	19.8	20.7	21.0
12H	21.8	22.7	22.1	23.0	23.3	19.4	20.3	19.8	20.6	21.0
X=4H Y=2H	19.8	20.8	20.1	21.1	21.4	19.2	20.3	19.6	20.6	20.9
3H	21.0	21.9	21.4	22.3	22.6	19.6	20.5	20.0	20.9	21.2
4H	21.6	22.4	22.0	22.8	23.2	19.8	20.6	20.2	20.9	21.3
6H	22.0	22.7	22.5	23.1	23.5	19.8	20.5	20.2	20.9	21.3
8H	22.2	22.8	22.6	23.2	23.7	19.8	20.5	20.3	20.9	21.3
12H	22.3	22.8	22.7	23.3	23.7	19.8	20.4	20.3	20.8	21.3
X=8H Y=4H	21.6	22.2	22.0	22.6	23.1	19.8	20.5	20.3	20.9	21.3
6H	22.1	22.6	22.5	23.0	23.5	19.9	20.4	20.4	20.9	21.3
8H	22.2	22.7	22.7	23.2	23.7	19.9	20.4	20.4	20.8	21.3
12H	22.4	22.8	22.9	23.2	23.8	19.9	20.3	20.4	20.8	21.3
X=12H Y=4H	21.5	22.1	22.0	22.6	23.0	19.8	20.4	20.3	20.8	21.3
6H	22.0	22.5	22.5	23.0	23.5	19.9	20.3	20.4	20.8	21.3
8H	22.2	22.6	22.7	23.1	23.6	19.9	20.3	20.4	20.8	21.3
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.7/-1.1				
S=1.5H	+0.8/-1.1					+1.6/-2.7				
S=2.0H	+1.6/-1.9					+3.1/-3.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6233lm ($8\log(F/F_0) = 6.4$).

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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	0.65	0.75	0.82	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.59	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.54	0.63	0.70	0.76	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.64	0.73	0.79	0.84	0.89	0.93	0.96	0.99	1.02	
	0.30		0.58	0.67	0.74	0.79	0.85	0.89	0.92	0.97	0.99	
	0.20		0.53	0.63	0.70	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98	
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.90	0.93	0.96	
	0.20		0.53	0.62	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.87	0.89	
Rating:45W 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	0.86	0.70	0.59	0.51	0.41	0.33	0.29	0.22	0.18	
	0.30		0.72	0.60	0.52	0.45	0.37	0.31	0.26	0.21	0.17	
	0.20		0.62	0.52	0.46	0.41	0.33	0.28	0.25	0.20	0.16	
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.38	0.35	0.27	0.21	0.17	
	0.30		0.70	0.58	0.50	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		0.61	0.51	0.45	0.40	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.80	0.64	0.54	0.46	0.36	0.30	0.25	0.20	0.16	
	0.30		0.69	0.57	0.48	0.42	0.34	0.28	0.24	0.19	0.15	
	0.20		0.60	0.50	0.44	0.38	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.49	0.40	0.34	0.29	0.23	0.19	0.16	0.13	0.10	
Rating:45W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.11	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	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												