

Report No.:

Test Time: 25.03.2020 23:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 5000K 2x25-90 gr

Number of Lamps: 1

Luminous Width (mm): 75

Voltage: 229.0 V

Power: 45.53 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.204 A

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 6551.1 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.9, 132.0, 133.3, 134.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.3, 70.6, 84.4, 85.2

Luminaire Efficacy Rating (LER): 143.93

Max. Intensity: 3909.29 cd

S/MH(C0/C180): 1.21

Total Rated Lamp Lumens: 6551.1 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1983.95 cd

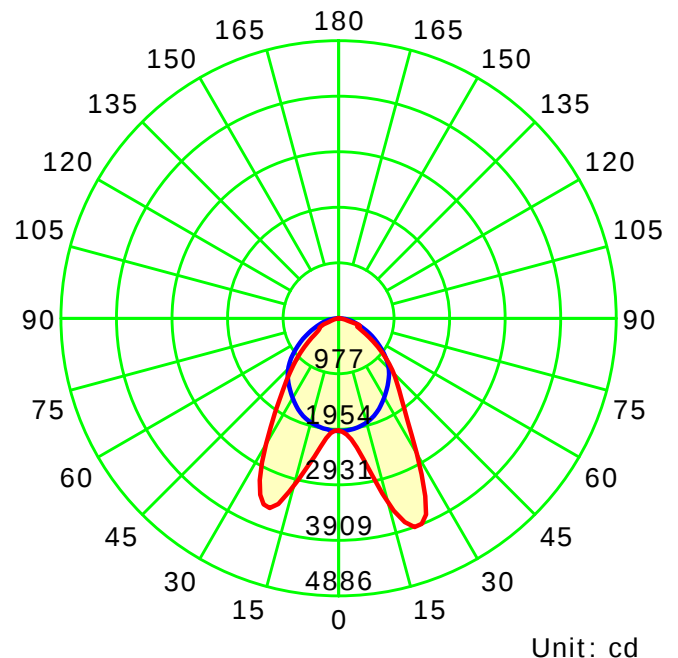
Pos of Max. Intensity: H90 V20

S/MH(C90/C270): 1.45

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 (°):0.0-180.0:2.0

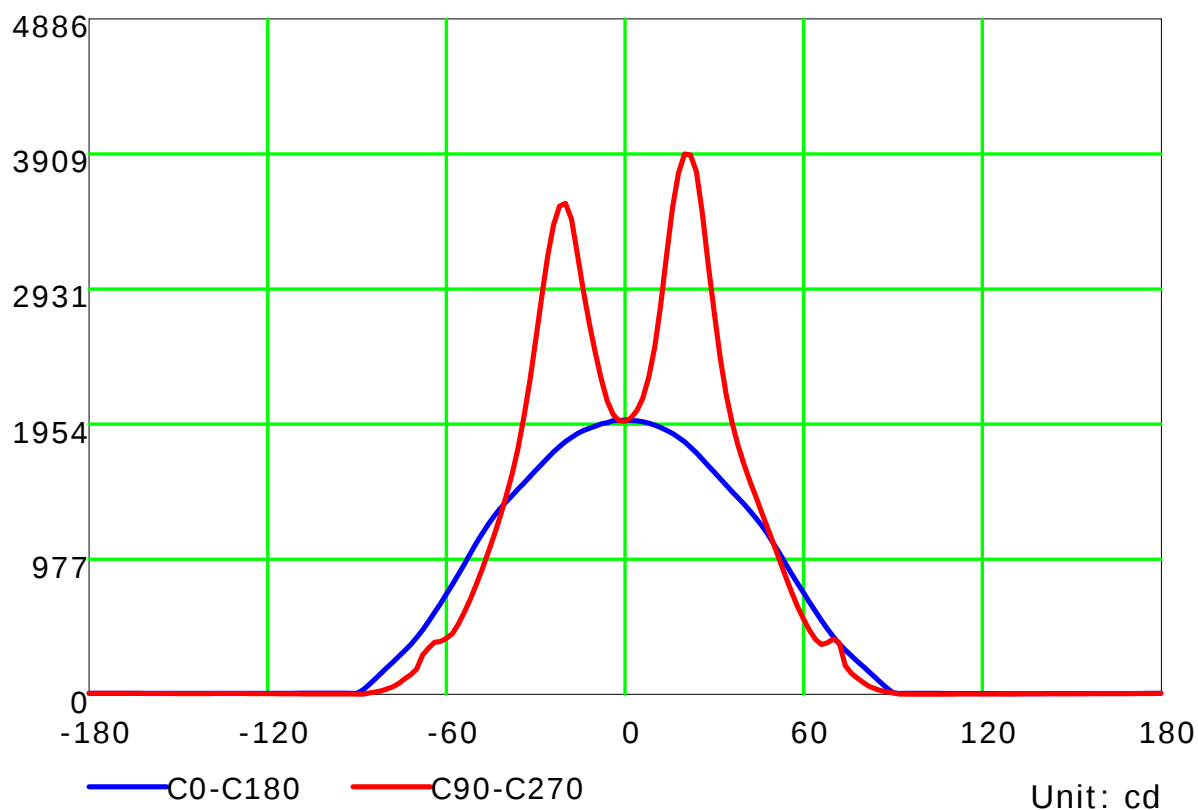
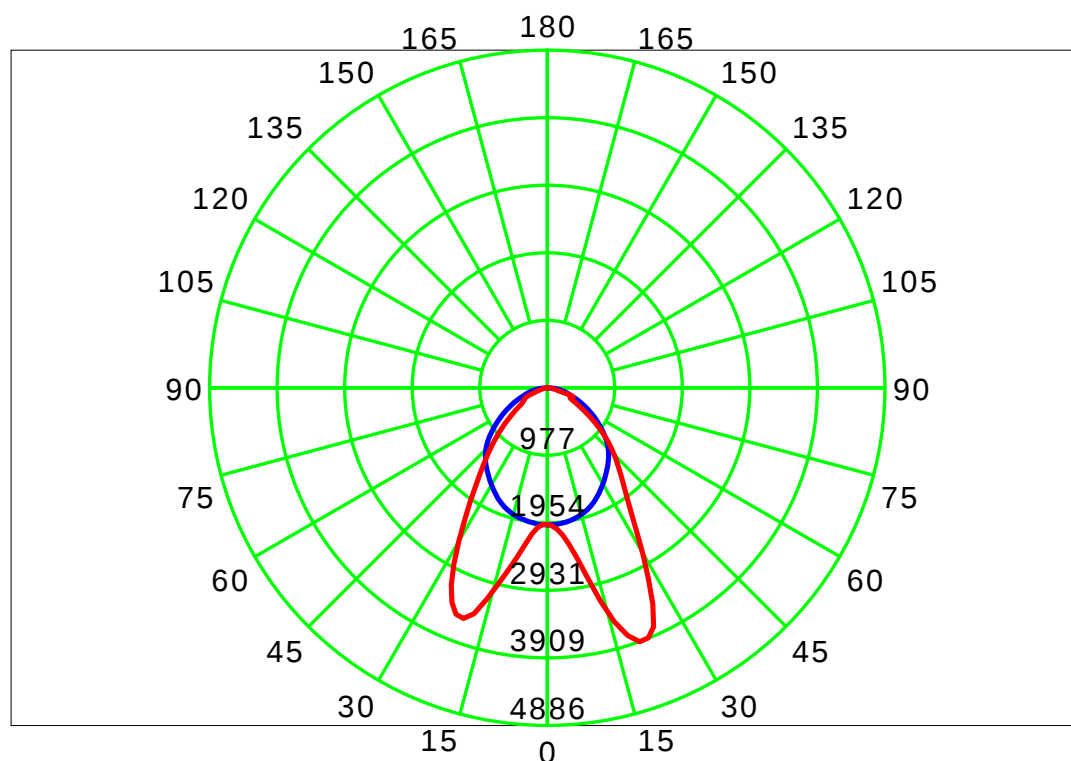
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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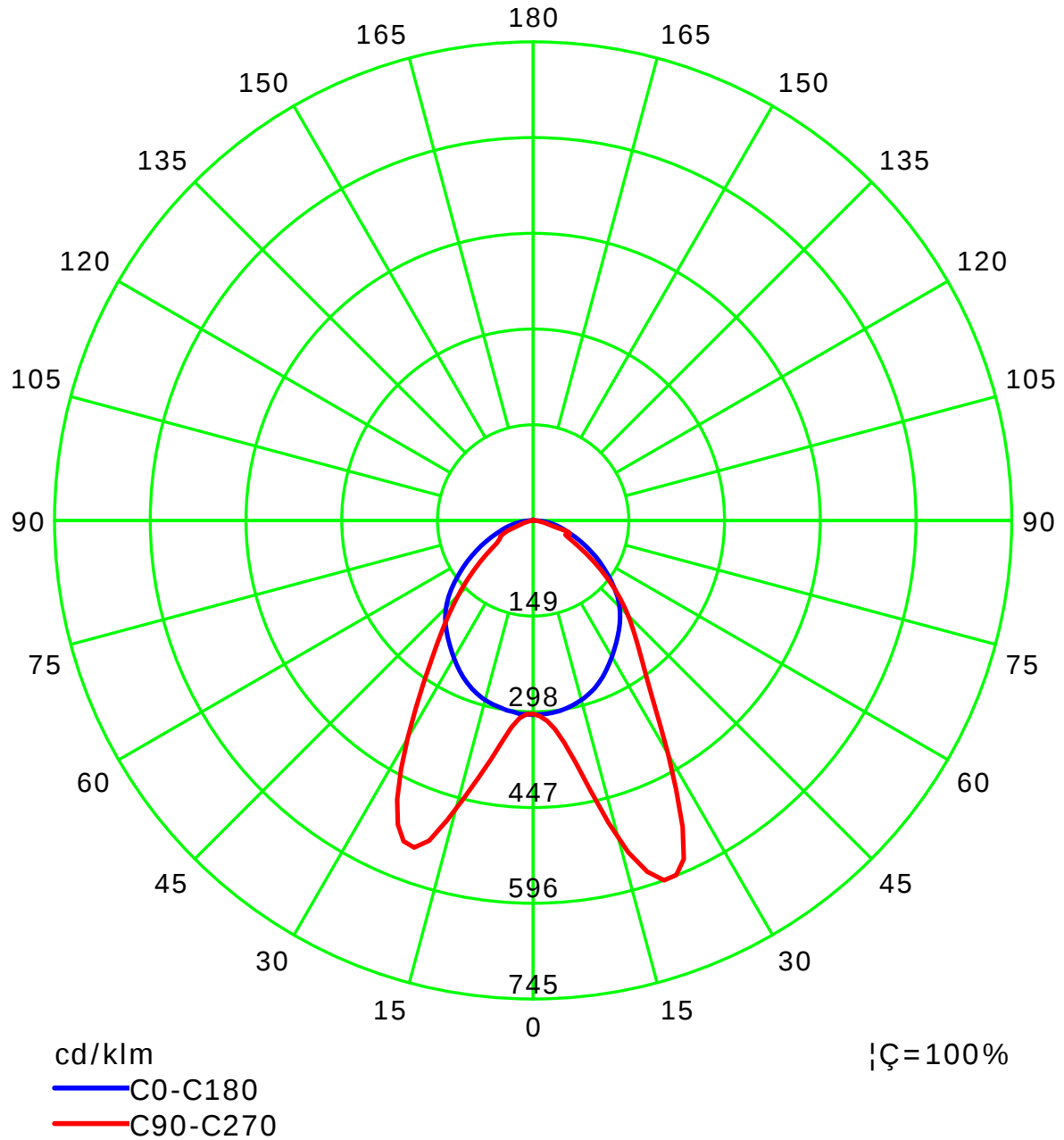
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Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Test Device: LSG-1800B

Distance: 12.677 m

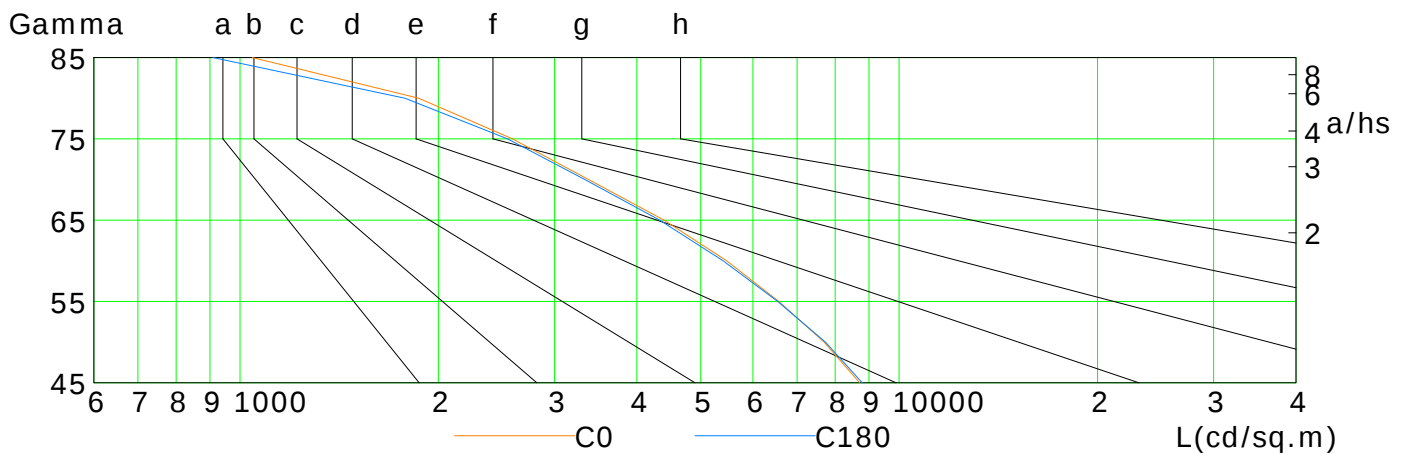
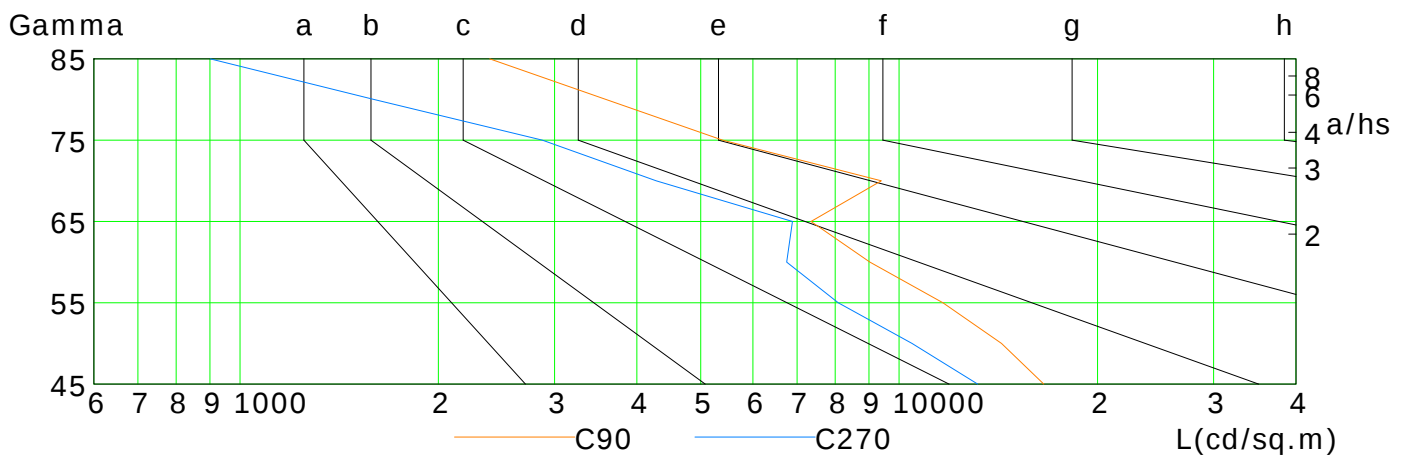
Humidity:

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	8714	7696	6568	5473	4400	3379	2590	1866	1044
C90	16573	14302	11651	9031	7348	9394	5399	3592	2393
C180	8791	7732	6541	5407	4334	3335	2546	1779	910
C270	13155	10461	8083	6750	6888	4280	2877	1598	901

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Operator:

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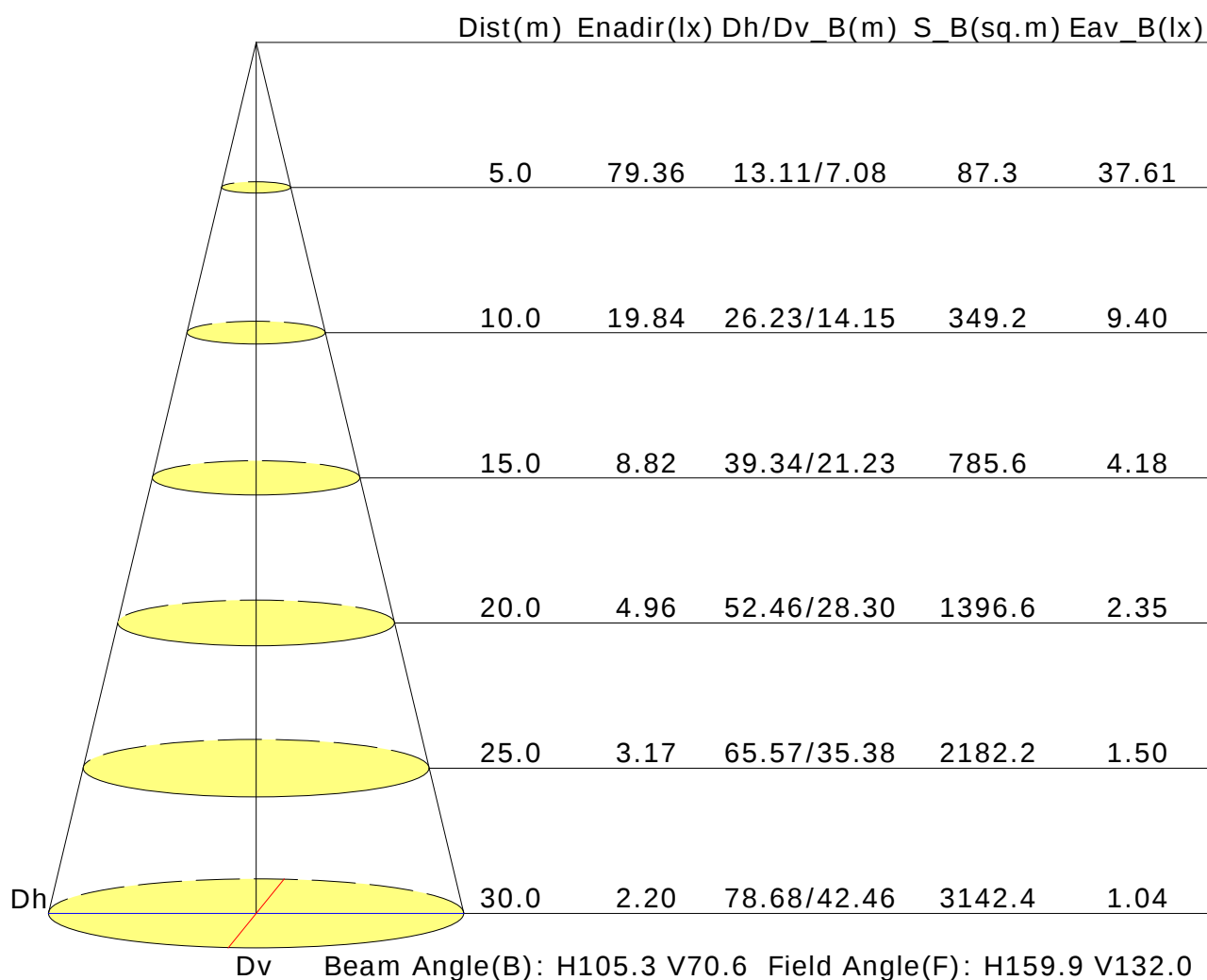
Test Device: LSG-1800B

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	19.9	21.2	20.2	21.4	21.7	18.9	20.1	19.2	20.4	20.6
3H	20.5	21.6	20.8	21.9	22.2	19.7	20.8	20.0	21.1	21.3
4H	20.7	21.7	21.0	22.0	22.3	19.9	21.0	20.3	21.3	21.6
6H	20.8	21.8	21.2	22.1	22.4	20.0	21.0	20.3	21.3	21.6
8H	20.8	21.8	21.2	22.1	22.4	20.0	20.9	20.3	21.2	21.6
12H	20.8	21.7	21.2	22.1	22.4	19.9	20.8	20.3	21.2	21.5
X=4H Y=2H	20.0	21.1	20.4	21.4	21.7	19.1	20.2	19.5	20.5	20.8
3H	20.7	21.7	21.1	22.0	22.3	20.0	21.0	20.4	21.3	21.6
4H	21.0	21.8	21.4	22.2	22.6	20.4	21.2	20.8	21.5	21.9
6H	21.3	22.0	21.7	22.4	22.8	20.5	21.2	20.9	21.6	22.0
8H	21.3	22.0	21.8	22.4	22.8	20.5	21.1	20.9	21.5	22.0
12H	21.4	22.0	21.8	22.4	22.8	20.5	21.0	20.9	21.5	21.9
X=8H Y=4H	21.1	21.7	21.5	22.1	22.6	20.4	21.1	20.9	21.5	21.9
6H	21.4	21.9	21.9	22.4	22.8	20.6	21.1	21.1	21.6	22.0
8H	21.5	22.0	22.0	22.4	22.9	20.6	21.1	21.1	21.5	22.0
12H	21.6	22.0	22.1	22.5	23.0	20.6	21.0	21.1	21.5	22.0
X=12H Y=4H	21.1	21.6	21.5	22.1	22.5	20.4	21.0	20.9	21.4	21.9
6H	21.4	21.8	21.9	22.3	22.8	20.6	21.0	21.1	21.5	22.0
8H	21.5	21.9	22.0	22.4	22.9	20.6	21.0	21.1	21.5	22.0
Variations with the observer position at spacings:										
S=1.0H	+1.1/-1.0					+0.7/-1.0				
S=1.5H	+1.9/-1.8					+1.3/-1.8				
S=2.0H	+3.2/-2.5					+2.4/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6551lm ($8\log(F/F_0) = 6.5$).

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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	0.70	0.78	0.84	0.88	0.94	0.98	1.01	1.04	1.06	
	0.30		0.64	0.71	0.78	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.67	0.73	0.78	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	0.68	0.76	0.82	0.86	0.91	0.95	0.97	1.00	1.02	
	0.30		0.63	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.59	0.66	0.73	0.77	0.83	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.74	0.79	0.83	0.88	0.91	0.94	0.96	0.98	
	0.30		0.62	0.69	0.75	0.79	0.85	0.88	0.91	0.94	0.97	
	0.20		0.58	0.65	0.72	0.76	0.82	0.86	0.89	0.92	0.95	
0.00	0.00	0.00	0.56	0.63	0.69	0.73	0.79	0.82	0.85	0.88	0.90	
Rating:46W 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	0.79	0.66	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.66	0.57	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.18	0.15	
0.50	0.50	0.20	0.76	0.63	0.53	0.46	0.36	0.33	0.25	0.20	0.16	
	0.30		0.64	0.55	0.47	0.41	0.33	0.27	0.24	0.18	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	0.74	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.53	0.45	0.39	0.31	0.26	0.22	0.18	0.14	
	0.20		0.55	0.47	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.37	0.31	0.26	0.21	0.17	0.15	0.12	0.09	
Rating:46W 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	0.15	0.17	0.18	0.18	0.19	0.20	0.21	0.21	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	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	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		0.06	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:46W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												