

Report No.:

Test Time: 28.10.2020 15:01

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 180 40LED 50W 5000K microprisma

Luminous Length (mm): 1200

Luminous Width (mm): 180

Luminous Height (mm): 35

Voltage: 221.3 V

Current: 0.226 A

Power: 48.86 W

Power Factor: 0.975

Photometric Results

CIE Class: Direct

Measurement Flux: 6075.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 6075.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.2, 160.2, 150.3, 150.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.4, 79.6, 76.7, 76.2

Luminaire Efficacy Rating (LER): 124.40

Central Intensity: 3114.26 cd

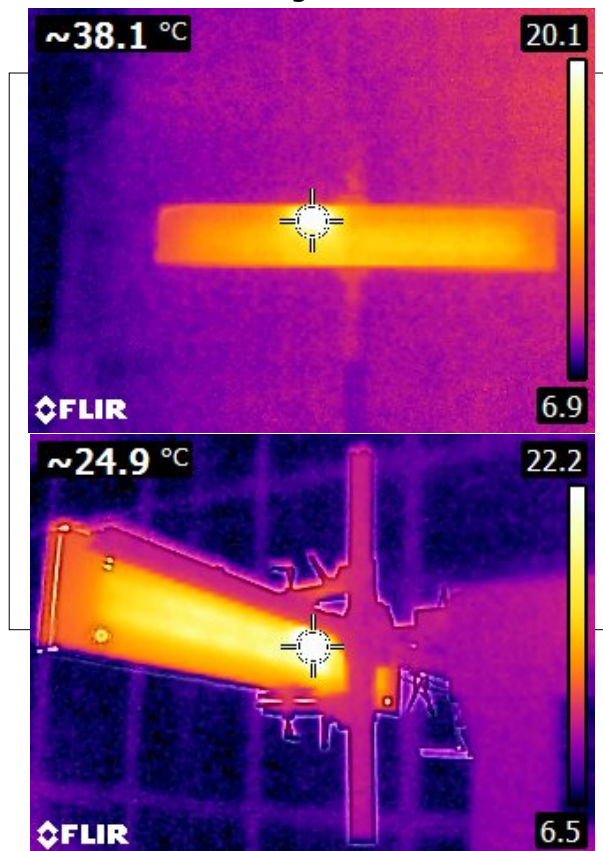
Max. Intensity: 3114.27 cd

Pos of Max. Intensity: H0 V0

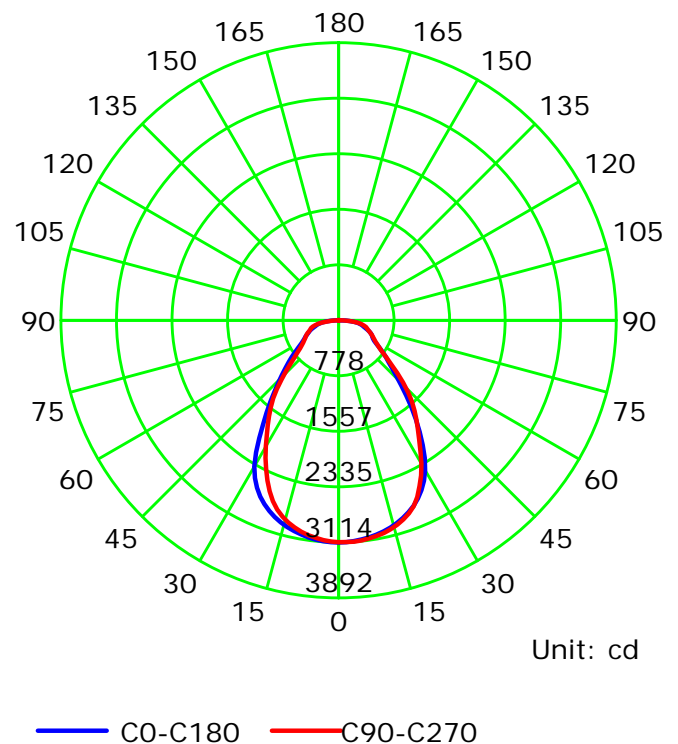
S/MH(C0/C180): 1.15

S/MH(C90/C270): 1.09

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

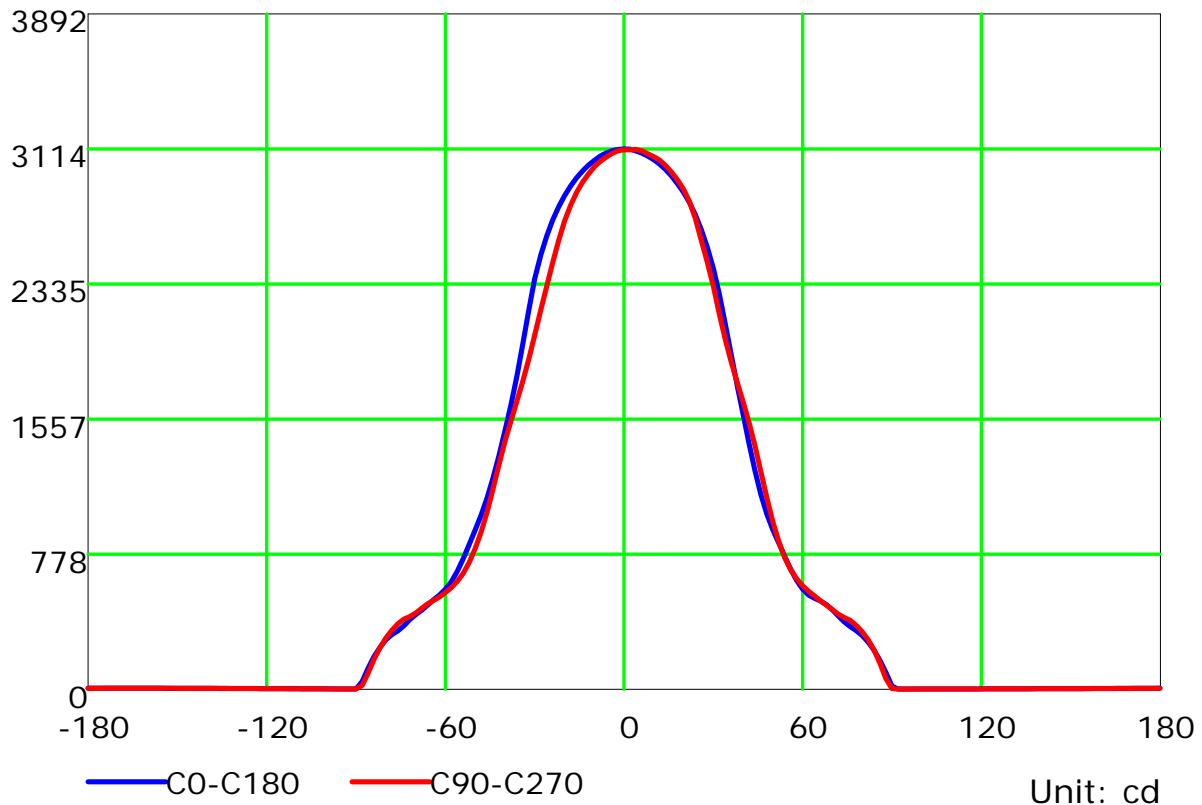
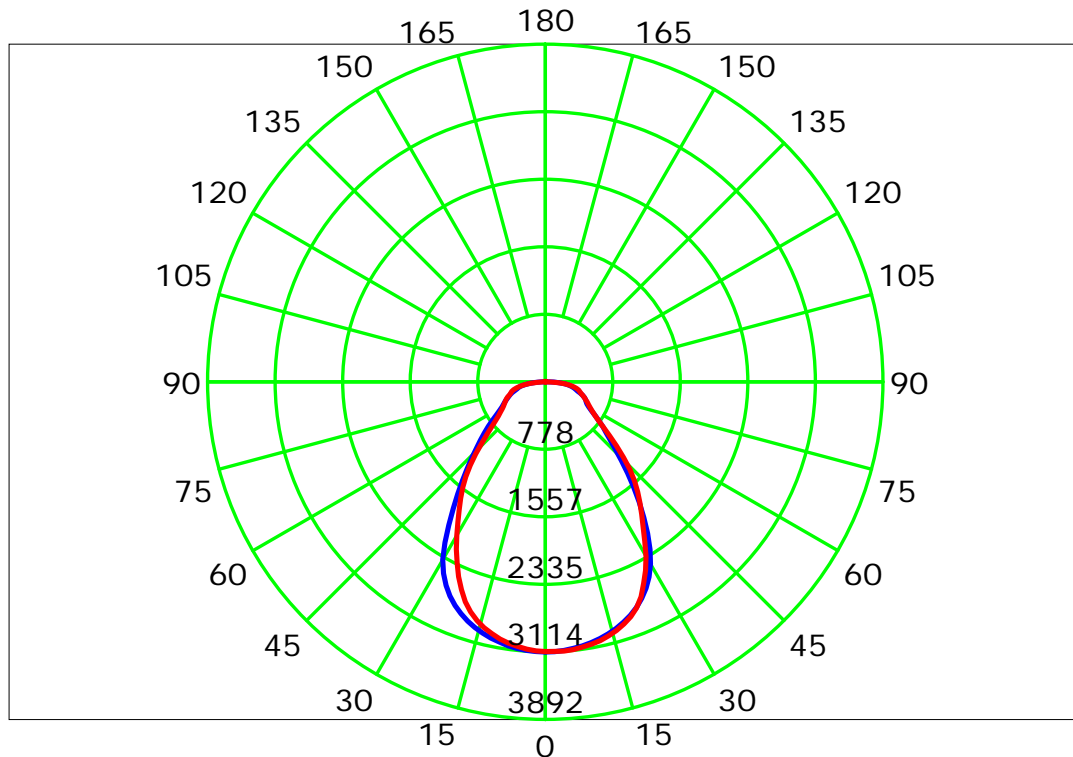
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

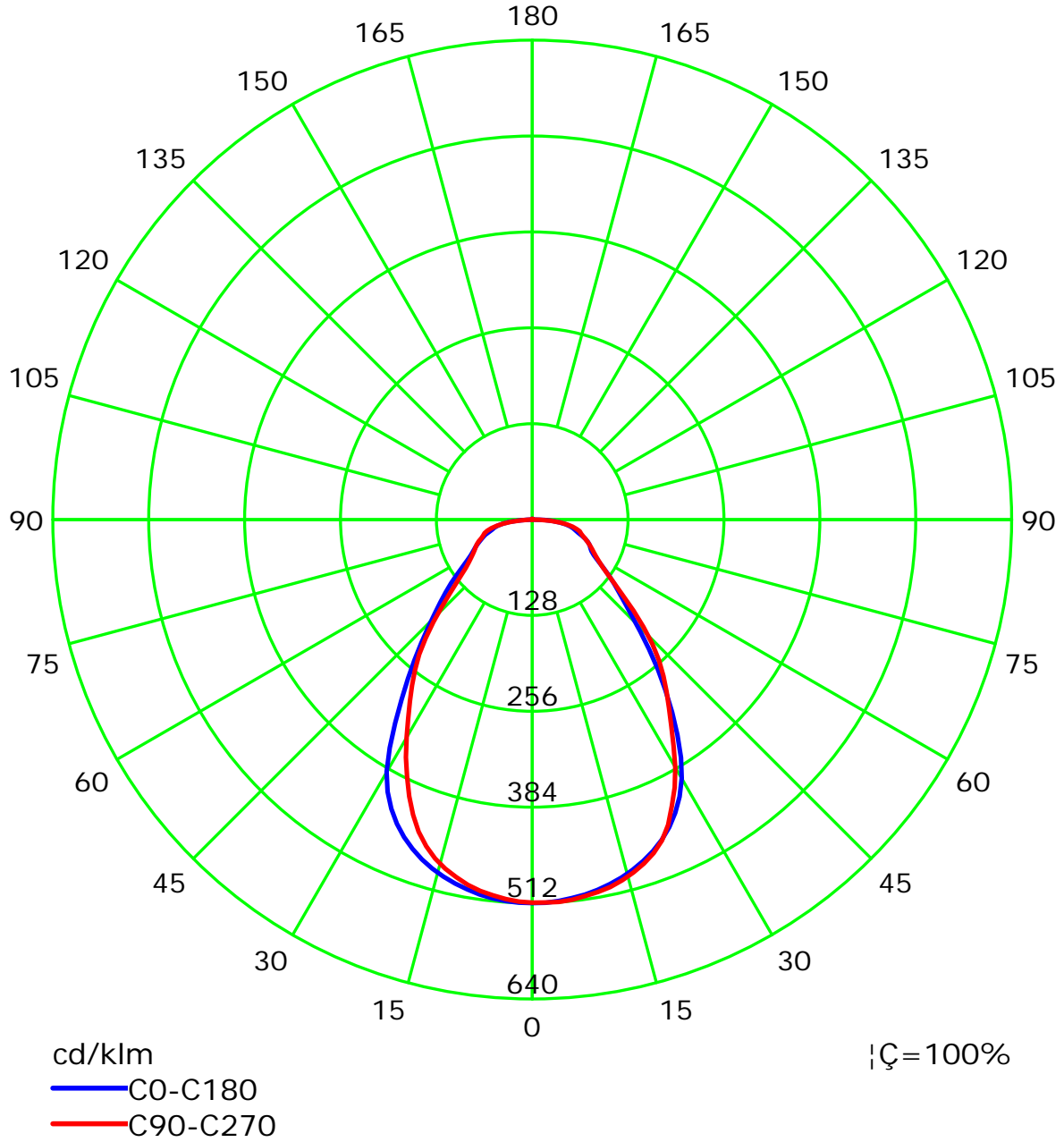
Luminous Intensity Distribution Curve



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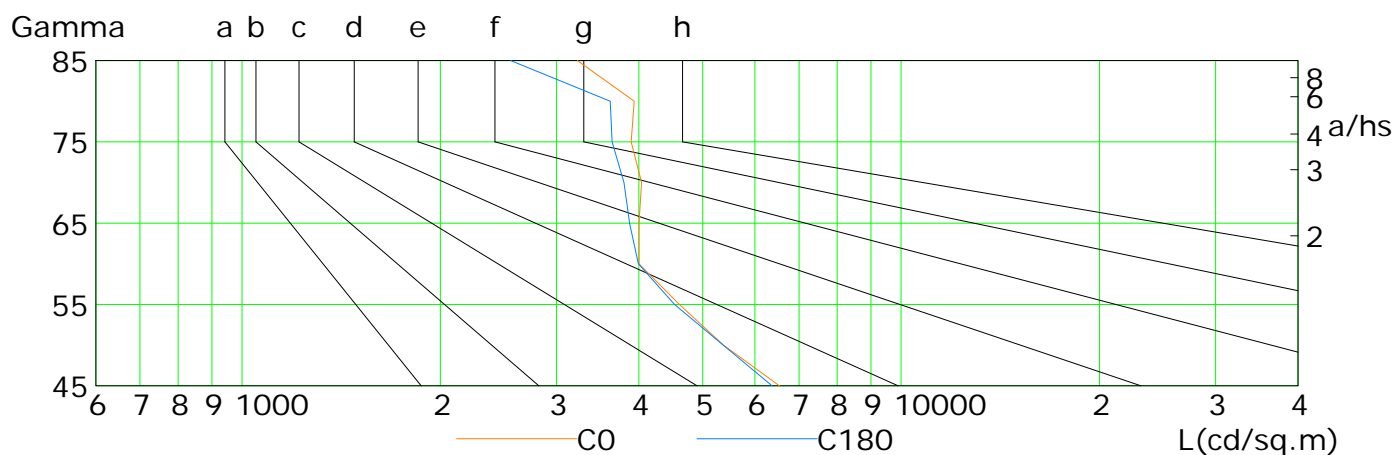
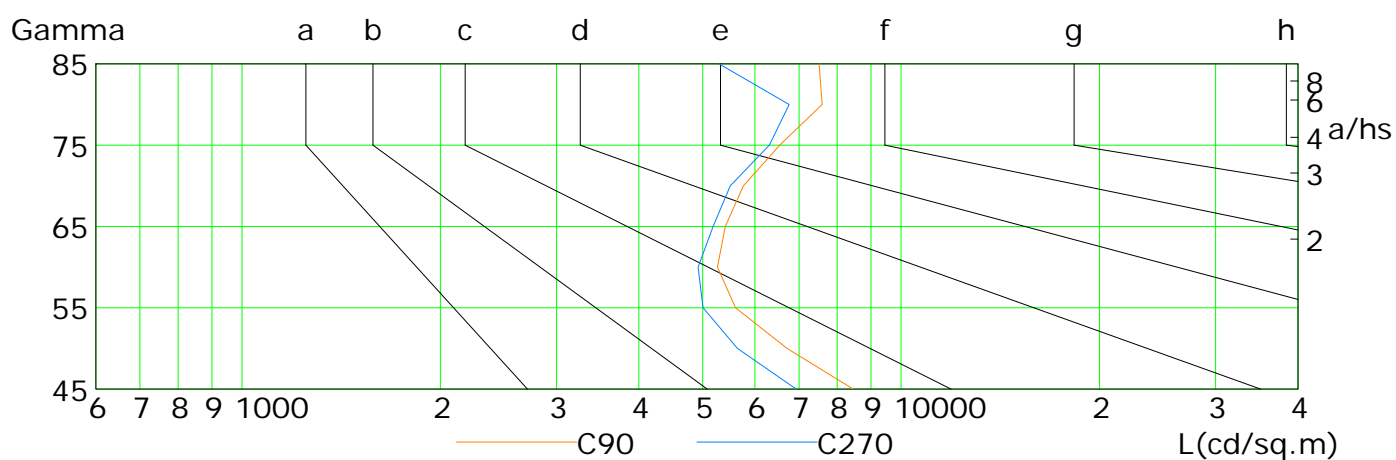
Luminous Intensity Distribution Curve(cd/klm)



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	6537	5378	4609	4001	4003	4037	3894	3935	3227
C90	8456	6712	5609	5265	5410	5764	6543	7587	7507
C180	6368	5371	4532	3994	3872	3796	3643	3618	2556
C270	6933	5645	5006	4918	5186	5506	6308	6762	5292

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

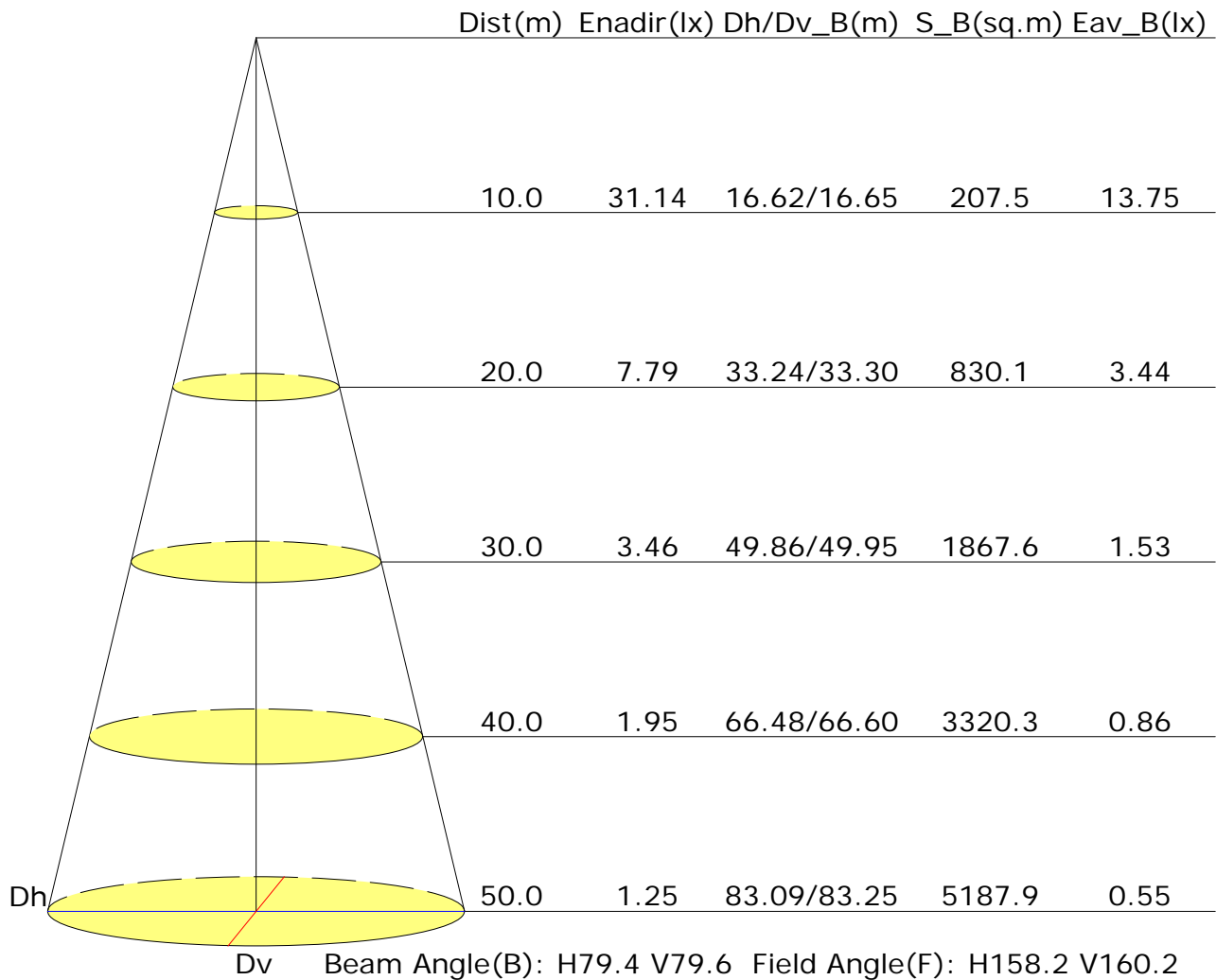
Test Device: LSG-1800B

Distance: 12.682 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	17.2	18.4	17.5	18.7	18.9	17.5	18.7	17.8	19.0	19.2
3H	18.6	19.7	18.9	20.0	20.3	19.0	20.2	19.4	20.5	20.7
4H	19.3	20.4	19.6	20.6	20.9	20.0	21.1	20.3	21.4	21.7
6H	20.0	21.0	20.4	21.3	21.6	21.0	22.0	21.3	22.3	22.6
8H	20.3	21.3	20.7	21.6	21.9	21.4	22.4	21.8	22.7	23.0
12H	20.5	21.5	20.9	21.8	22.2	21.7	22.6	22.1	23.0	23.3
X=4H Y=2H	17.6	18.7	18.0	19.0	19.3	17.9	19.0	18.2	19.2	19.5
3H	19.3	20.2	19.7	20.6	20.9	19.7	20.6	20.1	21.0	21.3
4H	20.2	21.0	20.6	21.4	21.7	20.8	21.7	21.2	22.0	22.4
6H	21.0	21.8	21.5	22.2	22.6	22.0	22.7	22.4	23.1	23.5
8H	21.4	22.1	21.9	22.5	22.9	22.5	23.2	22.9	23.6	24.0
12H	21.7	22.3	22.2	22.8	23.2	22.9	23.5	23.3	23.9	24.3
X=8H Y=4H	20.5	21.2	20.9	21.6	22.0	21.1	21.8	21.5	22.2	22.6
6H	21.5	22.1	22.0	22.5	23.0	22.4	22.9	22.9	23.4	23.9
8H	22.0	22.5	22.5	23.0	23.4	23.0	23.5	23.5	24.0	24.4
12H	22.4	22.8	22.9	23.3	23.8	23.5	23.9	24.0	24.4	24.9
X=12H Y=4H	20.5	21.2	21.0	21.6	22.0	21.1	21.7	21.6	22.1	22.6
6H	21.6	22.1	22.1	22.6	23.0	22.5	22.9	22.9	23.4	23.9
8H	22.1	22.6	22.6	23.0	23.6	23.1	23.5	23.6	24.0	24.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.4/-0.7					+0.3/-0.6				
S=2.0H	+0.7/-1.0					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 6076lm ($8\log(F/F_0) = 6.3$).

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00									
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	0.63	0.72	0.79	0.83	0.90	0.94	0.98	1.02	1.04	
	0.30		0.56	0.65	0.72	0.77	0.84	0.89	0.93	0.98	1.01	
	0.20		0.51	0.60	0.67	0.72	0.79	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.61	0.70	0.76	0.81	0.87	0.91	0.94	0.98	1.00	
	0.30		0.55	0.64	0.70	0.75	0.82	0.87	0.90	0.94	0.97	
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.86	0.92	0.95	
0.30	0.50	0.20	0.60	0.68	0.74	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.54	0.63	0.69	0.73	0.80	0.84	0.87	0.91	0.94	
	0.20		0.50	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.48	0.56	0.62	0.67	0.73	0.77	0.80	0.84	0.87	
<p>Rating: 49W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.00									
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	0.90	0.75	0.64	0.56	0.45	0.37	0.32	0.25	0.21	
	0.30		0.76	0.64	0.56	0.50	0.41	0.34	0.30	0.24	0.20	
	0.20		0.65	0.56	0.49	0.44	0.37	0.32	0.28	0.22	0.19	
0.50	0.50	0.20	0.87	0.72	0.61	0.53	0.43	0.39	0.31	0.24	0.20	
	0.30		0.74	0.62	0.54	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.64	0.55	0.48	0.43	0.36	0.31	0.27	0.21	0.18	
0.30	0.50	0.20	0.84	0.69	0.59	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.72	0.61	0.52	0.46	0.38	0.32	0.27	0.22	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.17	
0.00	0.00	0.00	0.52	0.44	0.38	0.33	0.27	0.23	0.20	0.16	0.13	
<p>Rating: 49W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.00									
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	0.21	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		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<p>Rating: 49W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												