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Report No.: 1 Test Time: 15.10.2019 14:06

Luminaire Property

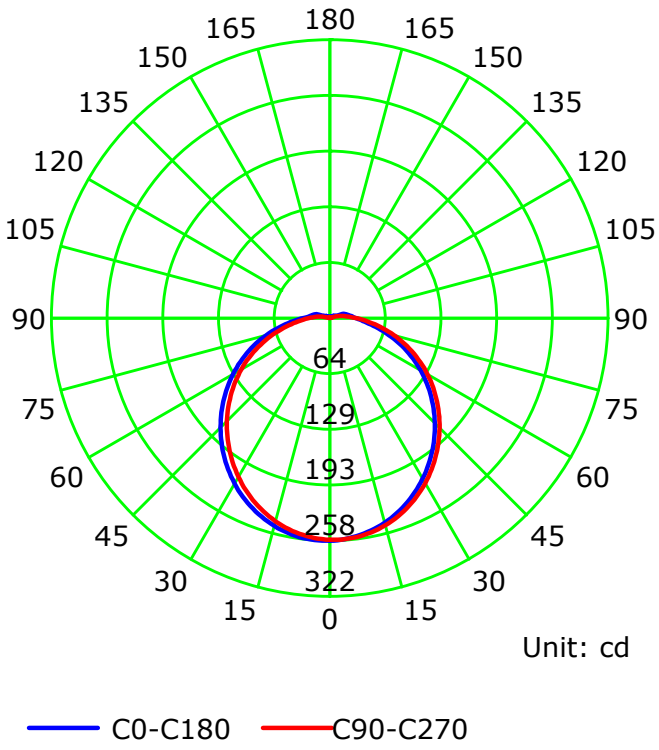
Luminaire Manufacturer:
Luminaire Description: FI 130 12W 6000K mw sensor
Luminous Length (mm): 135 Luminous Width (mm): 135
Luminous Height (mm): 50 Voltage: 221.7 V
Current: 0.090 A Power: 10.35 W
Power Factor: 0.515

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 872.2 lm
Measurement Flux: 872.2 lm Efficiency: 100%
Downward Ratio: 94% Upward Ratio: 6%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 189.1, 182.3, 185.5, 186.3
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.0, 117.8, 117.8, 118.1
Luminaire Efficacy Rating (LER): 84.32 Central Intensity: 258.18 cd
Max. Intensity: 258.24 cd Pos of Max. Intensity: H180 V1
S/MH(C0/C180): 1.26 S/MH(C90/C270): 1.26

Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Test Device: LSG-1800B
Test Type: TYPE C Distance: 12.677 m
Temperature: Humidity:
Operator: Inspector:

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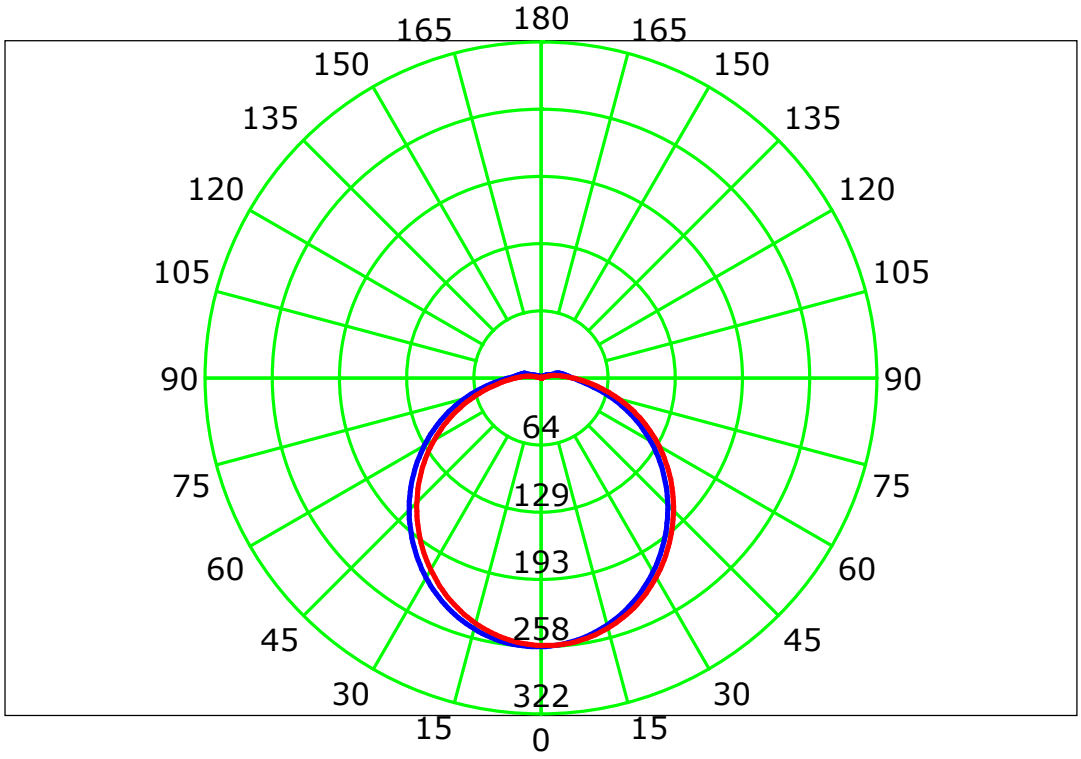
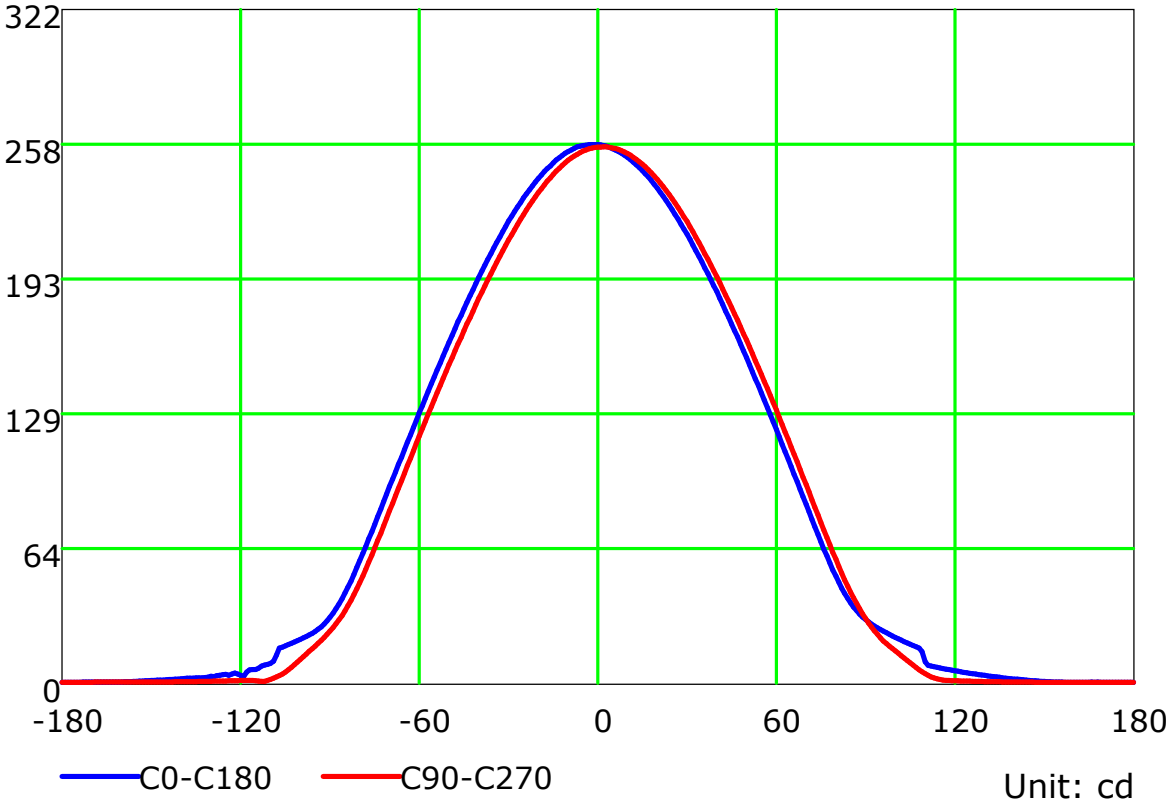
Luminous Intensity Distribution Curve





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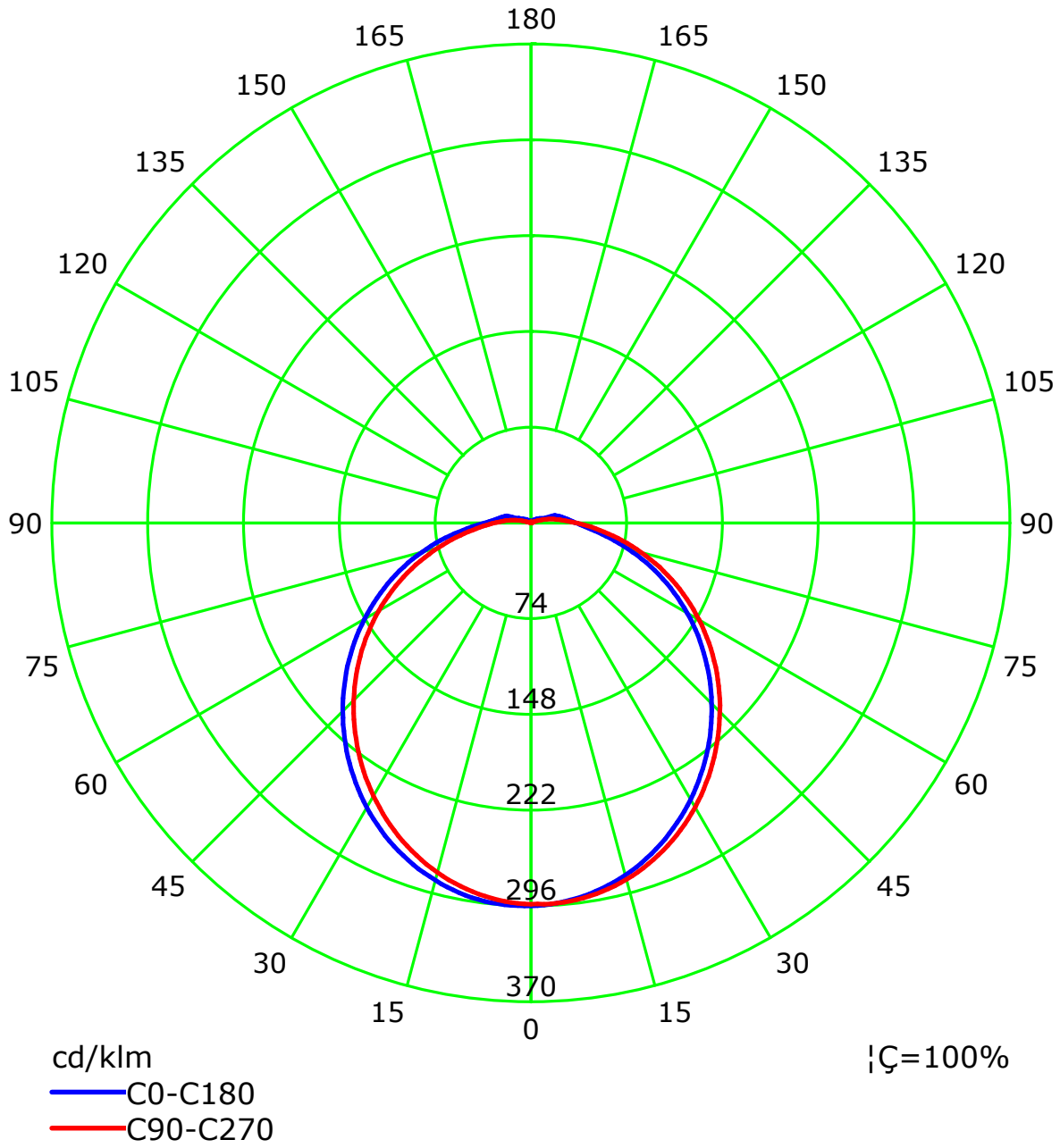
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
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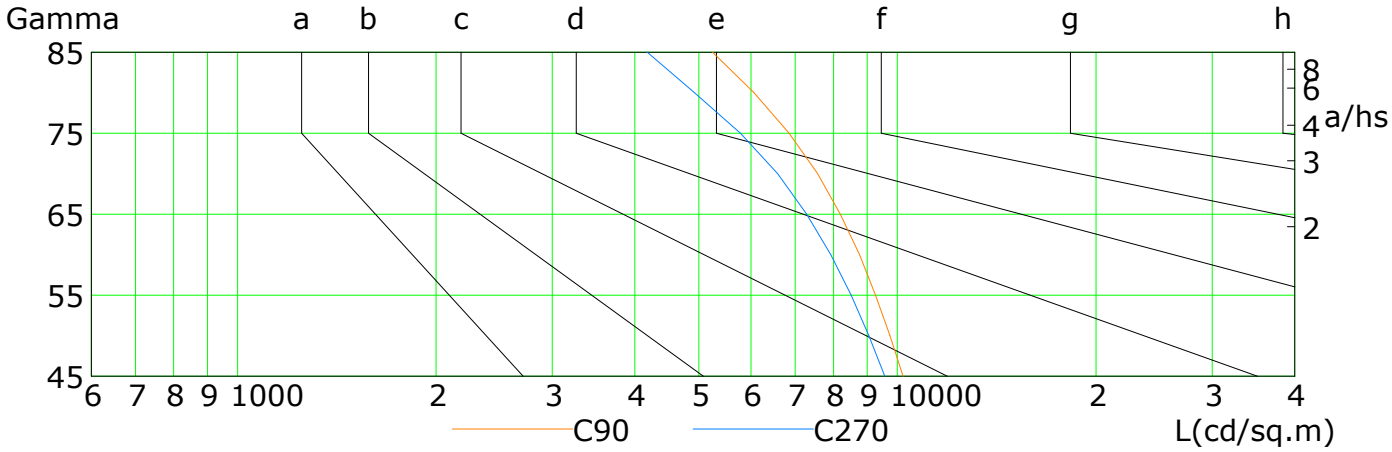
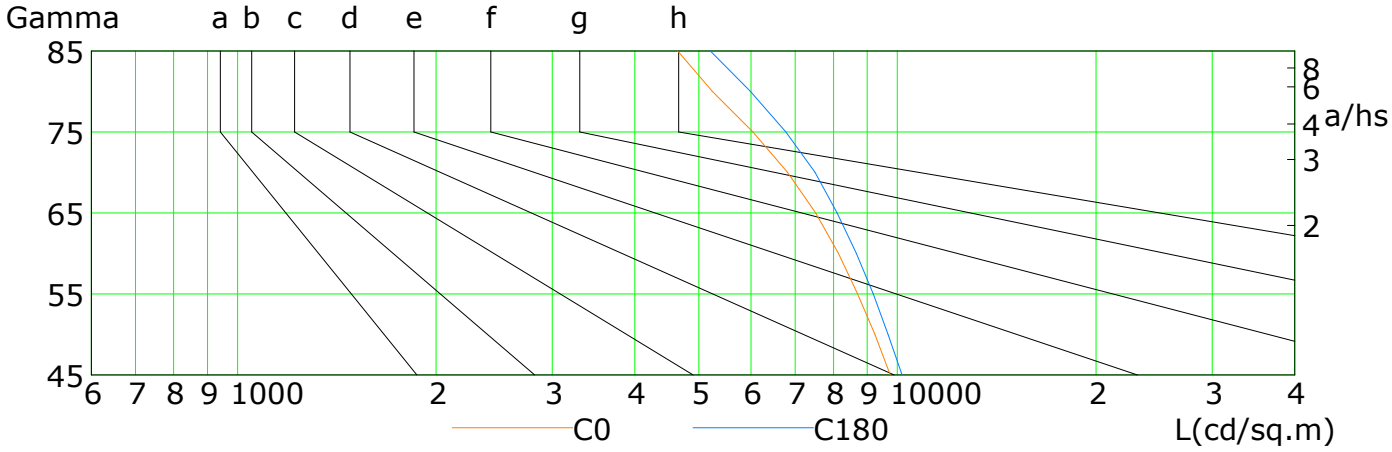
Lum Limit Curve

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	9751	9242	8706	8135	7520	6818	6042	5239	4645
C90	10198	9739	9262	8758	8196	7573	6853	6064	5249
C180	10162	9680	9189	8665	8107	7502	6774	5989	5205
C270	9572	9050	8510	7923	7284	6580	5785	4921	4180

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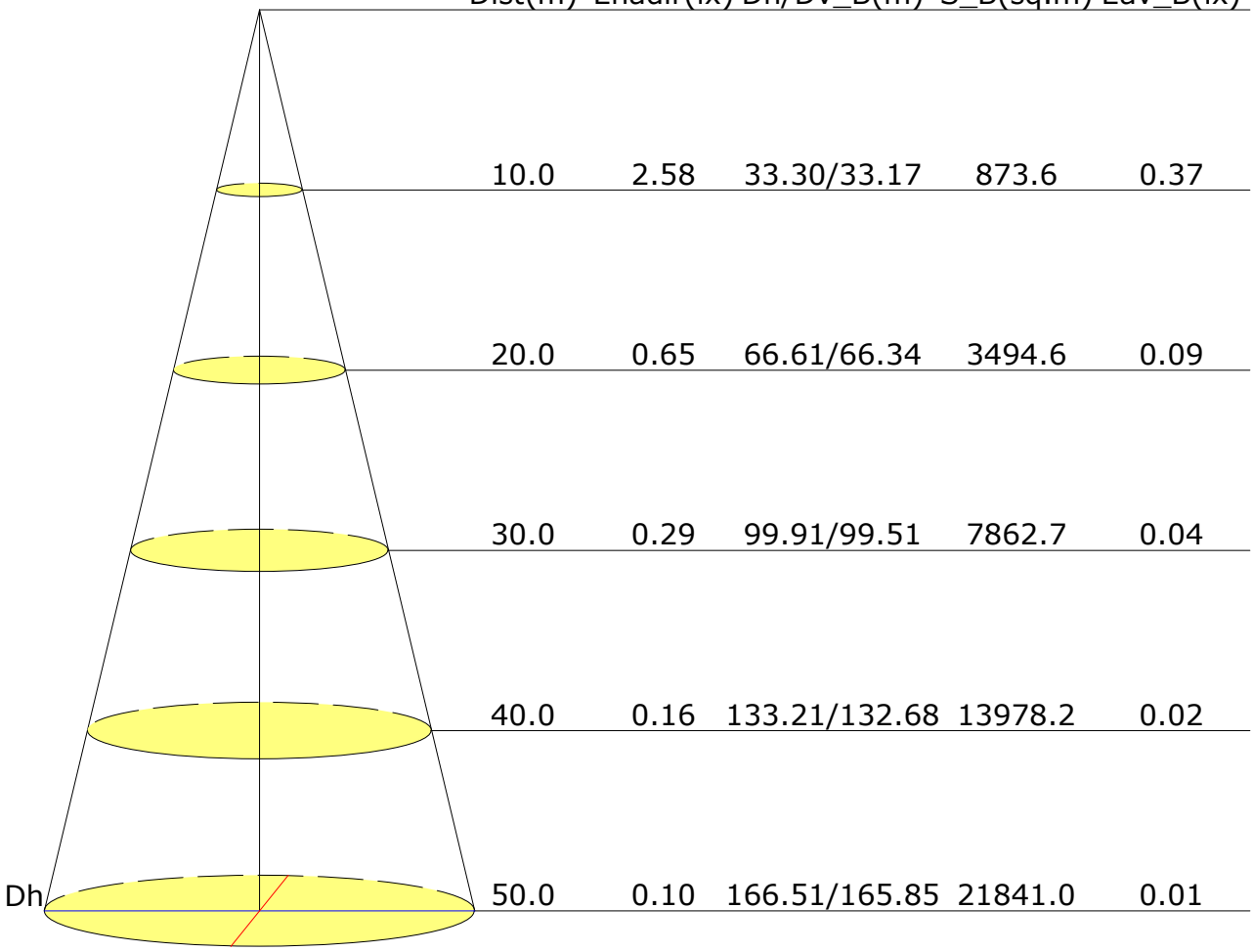
Illuminance at a Distance



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
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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	19.3	20.7	19.7	21.0	21.4	19.4	20.8	19.8	21.2	21.5
3H	20.9	22.1	21.3	22.5	22.9	21.0	22.3	21.5	22.7	23.1
4H	21.5	22.7	22.0	23.1	23.5	21.7	22.9	22.2	23.3	23.8
6H	22.1	23.2	22.5	23.6	24.1	22.3	23.4	22.8	23.8	24.3
8H	22.3	23.4	22.8	23.8	24.3	22.6	23.6	23.0	24.1	24.5
12H	22.5	23.5	23.0	24.0	24.5	22.8	23.8	23.2	24.2	24.7
X=4H Y=2H	19.9	21.1	20.3	21.5	21.9	20.0	21.2	20.4	21.6	22.0
3H	21.6	22.6	22.1	23.1	23.6	21.8	22.8	22.3	23.3	23.7
4H	22.4	23.3	22.9	23.8	24.3	22.6	23.5	23.1	24.0	24.5
6H	23.1	23.9	23.6	24.4	25.0	23.3	24.2	23.9	24.7	25.2
8H	23.4	24.2	24.0	24.7	25.3	23.7	24.4	24.2	24.9	25.5
12H	23.7	24.4	24.3	24.9	25.5	23.9	24.6	24.5	25.2	25.7
X=8H Y=4H	22.7	23.5	23.2	24.0	24.5	22.9	23.6	23.4	24.2	24.7
6H	23.6	24.2	24.1	24.7	25.3	23.8	24.4	24.3	24.9	25.5
8H	24.0	24.5	24.6	25.1	25.7	24.2	24.7	24.8	25.3	25.9
12H	24.4	24.9	25.0	25.4	26.1	24.6	25.1	25.2	25.7	26.3
X=12H Y=4H	22.7	23.4	23.3	24.0	24.5	22.9	23.6	23.5	24.1	24.7
6H	23.6	24.2	24.2	24.8	25.4	23.8	24.4	24.4	25.0	25.6
8H	24.1	24.6	24.7	25.2	25.8	24.3	24.8	24.9	25.4	26.0
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.4/-0.5				
S=2.0H	+0.5/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 872lm (8log(F/F0) = -0.5).

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:

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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	0.52	0.62	0.69	0.74	0.82	0.87	0.90	0.95	0.98
	0.30		0.44	0.54	0.61	0.67	0.75	0.80	0.85	0.90	0.94
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.80	0.86	0.91
0.50	0.50	0.20	0.50	0.59	0.66	0.71	0.77	0.82	0.85	0.90	0.93
	0.30		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90
	0.20		0.37	0.47	0.53	0.59	0.67	0.72	0.77	0.83	0.86
0.30	0.50	0.20	0.48	0.56	0.63	0.67	0.74	0.78	0.81	0.85	0.88
	0.30		0.41	0.50	0.57	0.62	0.69	0.74	0.77	0.82	0.85
	0.20		0.36	0.45	0.52	0.57	0.65	0.70	0.74	0.79	0.83
0.00	0.00	0.00	0.34	0.42	0.48	0.53	0.60	0.65	0.68	0.73	0.77

Rating:10W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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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	1.03	0.87	0.75	0.66	0.54	0.45	0.39	0.31	0.26
	0.30		0.86	0.74	0.65	0.58	0.49	0.41	0.36	0.29	0.24
	0.20		0.74	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.23
0.50	0.50	0.20	0.98	0.82	0.71	0.63	0.51	0.46	0.37	0.29	0.24
	0.30		0.83	0.72	0.63	0.56	0.46	0.40	0.35	0.28	0.23
	0.20		0.72	0.63	0.56	0.51	0.43	0.37	0.33	0.26	0.22
0.30	0.50	0.20	0.94	0.78	0.67	0.59	0.48	0.41	0.35	0.28	0.23
	0.30		0.81	0.69	0.60	0.54	0.44	0.38	0.33	0.27	0.22
	0.20		0.71	0.62	0.55	0.49	0.41	0.36	0.31	0.25	0.21
0.00	0.00	0.00	0.60	0.52	0.45	0.41	0.34	0.29	0.25	0.20	0.17

Rating:10W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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:

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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	0.23	0.24	0.25	0.26	0.27	0.27	0.27	0.28	0.28
	0.30		0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
	0.20		0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.21	0.22
0.50	0.50	0.20	0.22	0.23	0.24	0.25	0.26	0.26	0.26	0.27	0.27
	0.30		0.15	0.17	0.18	0.19	0.21	0.22	0.22	0.23	0.24
	0.20		0.11	0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.22
0.30	0.50	0.20	0.21	0.23	0.23	0.24	0.25	0.25	0.25	0.26	0.26
	0.30		0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23
	0.20		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.21
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

Rating:10W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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: