

Report No.:

Test Time: 04.08.2020 15:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FI 135 40LED 0.39A 49W 5000K prozrachniy 1-10

Number of Lamps: 1

Luminous Length (mm): 1262

Luminous Width (mm): 124

Luminous Height (mm): 85

Voltage: 221.3 V

Current: 0.166 A

Power: 49.31 W

Power Factor: 0.990

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 6559.9 lm

Measurement Flux: 6559.9 lm

Efficiency: 100%

Downward Ratio: 98%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 154.1, 165.2, 165.3, 165.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.6, 91.5, 100.8, 101.6

Luminaire Efficacy Rating (LER): 133.08

Central Intensity: 2531.21 cd

Max. Intensity: 2767.62 cd

Pos of Max. Intensity: H112.5 V18

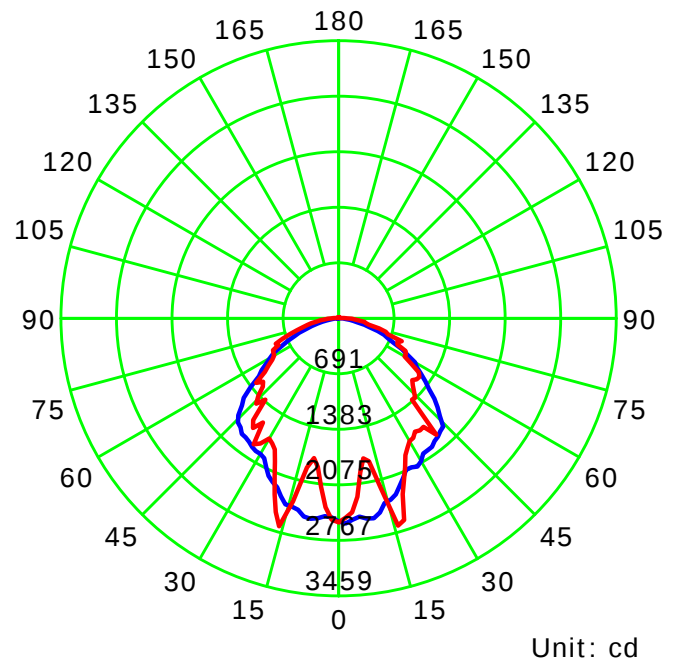
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.04

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:2.0

Test Lab:

Test Device: LSG-1800B

Test Type: TYPE C

Distance: 12.677 m

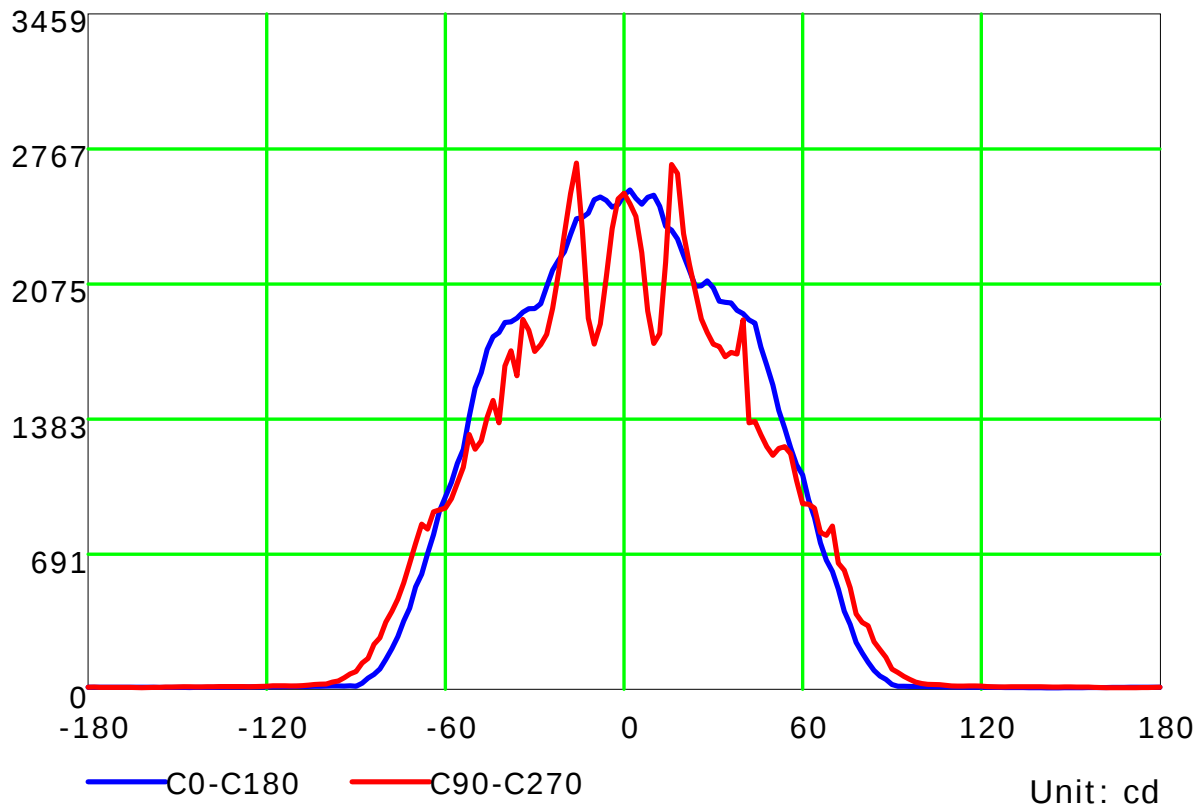
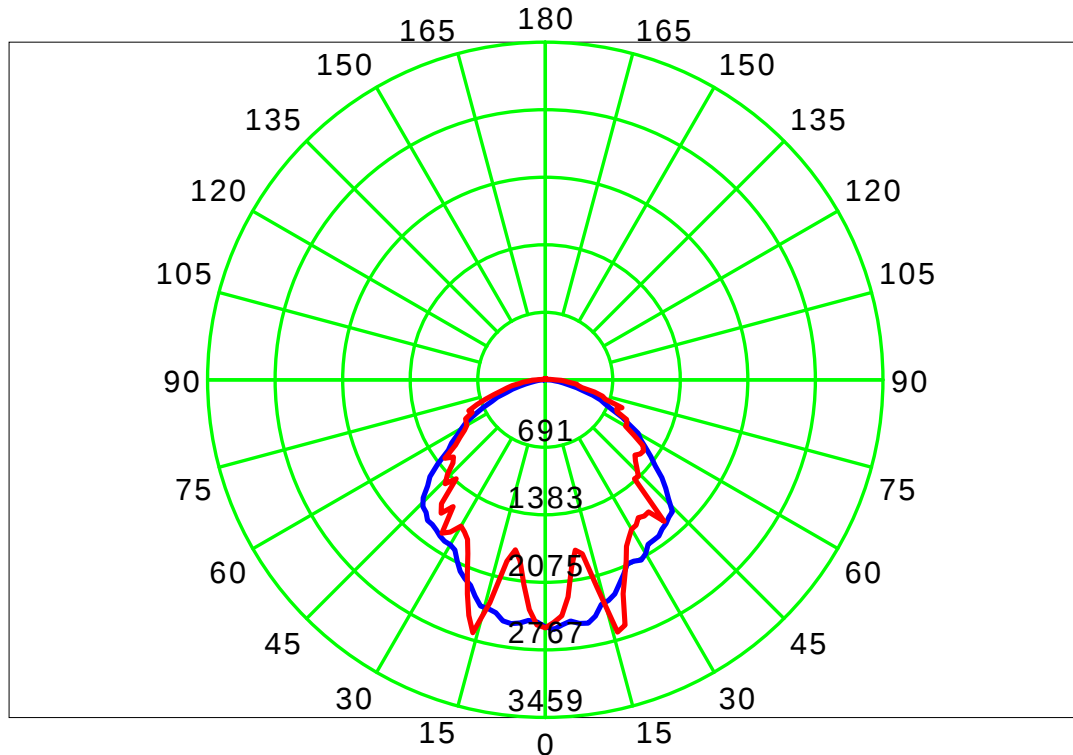
Temperature:

Humidity:

Operator:

Inspector:

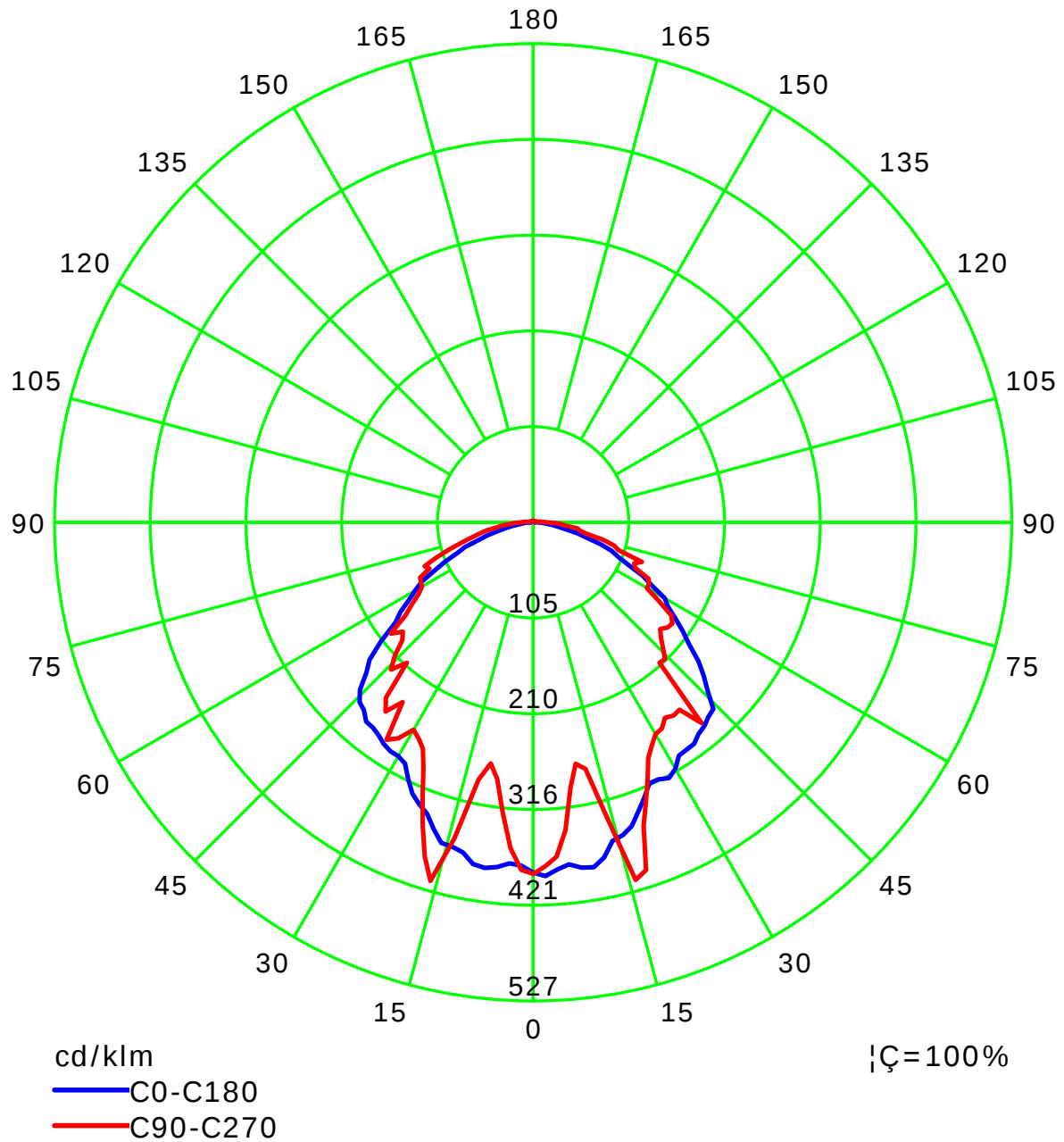
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

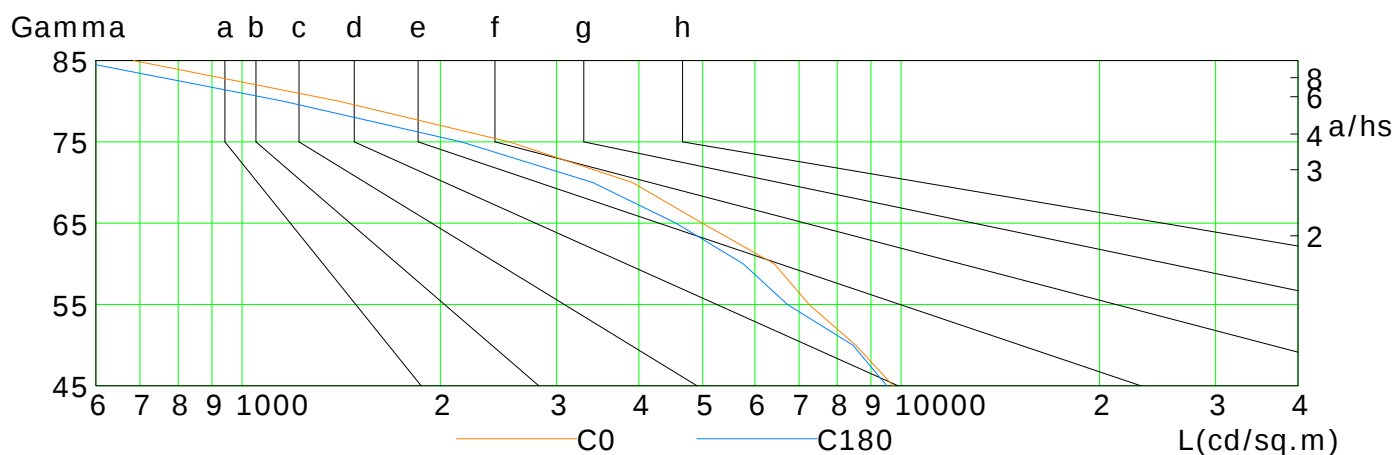
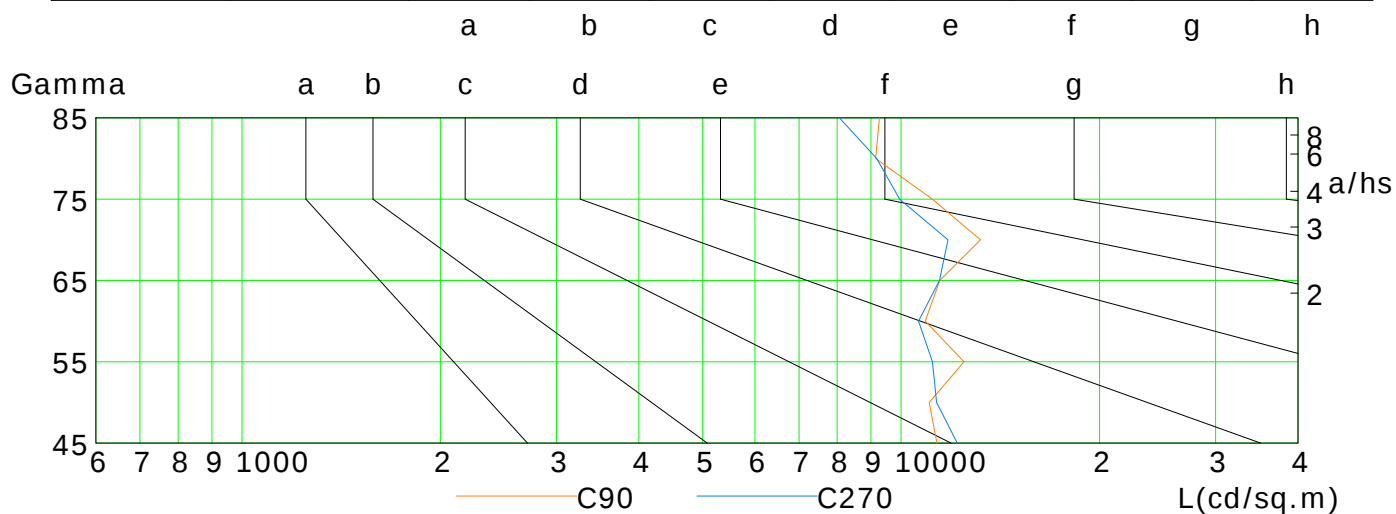
Distance: 12.677 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9729	8530	7248	6418	4992	3911	2543	1403	684
C90	11333	11034	12452	10876	11444	13192	11154	9144	9269
C180	9510	8450	6720	5761	4555	3404	2152	1155	557
C270	12164	11320	11154	10627	11433	11775	9948	9181	8062

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

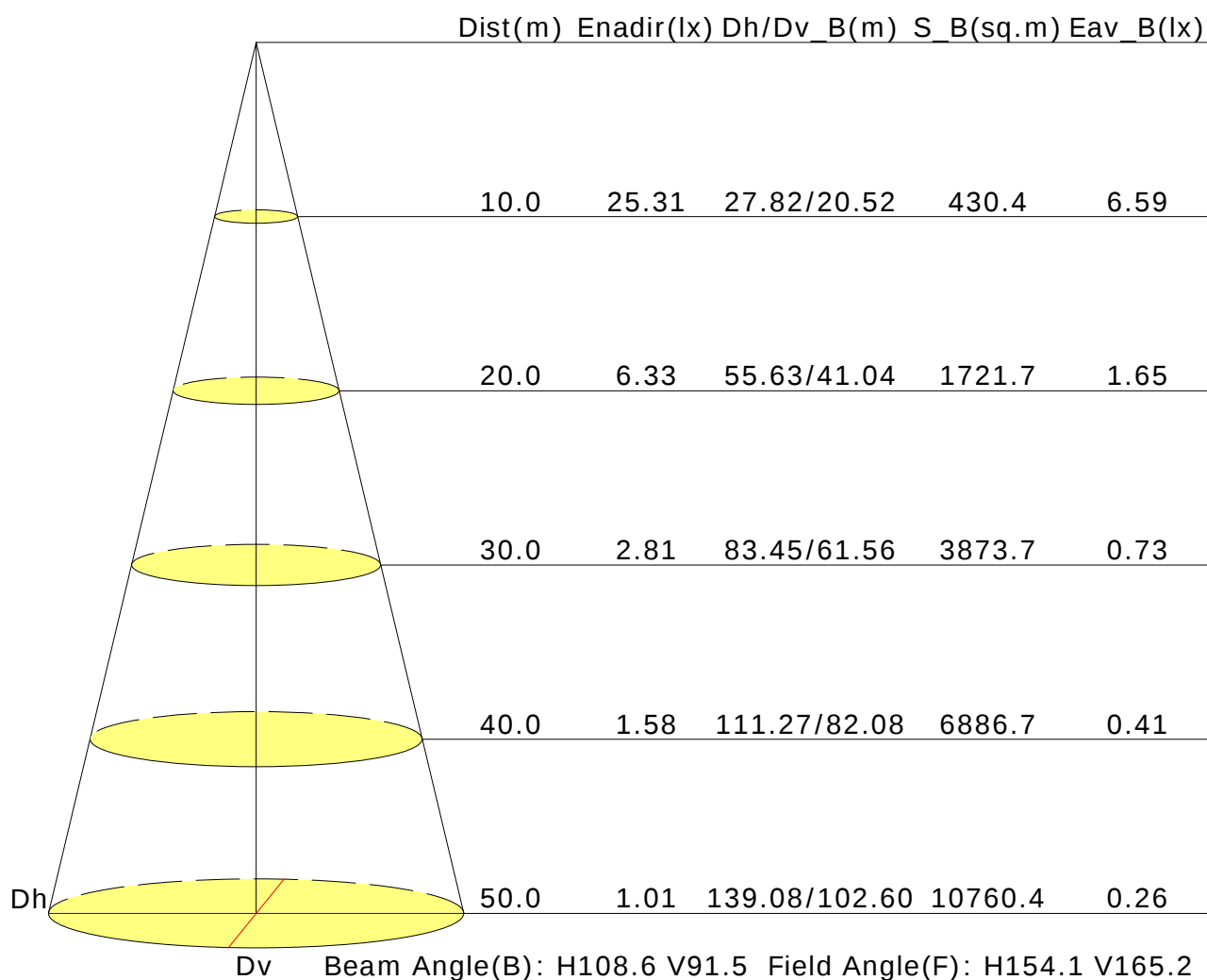
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	19.2	20.5	19.5	20.8	21.1	19.9	21.3	20.2	21.5	21.8
3H	20.1	21.4	20.5	21.7	22.0	21.9	23.2	22.3	23.5	23.8
4H	20.4	21.6	20.8	21.9	22.2	22.7	23.9	23.1	24.2	24.6
6H	20.5	21.6	20.9	22.0	22.3	23.3	24.4	23.7	24.7	25.1
8H	20.5	21.6	20.9	21.9	22.3	23.5	24.6	23.9	24.9	25.3
12H	20.5	21.5	20.9	21.9	22.3	23.7	24.7	24.1	25.1	25.5
X=4H Y=2H	19.7	20.8	20.0	21.2	21.5	20.3	21.4	20.6	21.8	22.1
3H	20.8	21.8	21.2	22.2	22.5	22.5	23.5	22.9	23.9	24.2
4H	21.2	22.1	21.6	22.5	22.9	23.4	24.3	23.8	24.7	25.1
6H	21.4	22.2	21.8	22.6	23.0	24.1	24.9	24.5	25.3	25.8
8H	21.4	22.2	21.9	22.6	23.1	24.4	25.1	24.8	25.6	26.0
12H	21.4	22.1	21.9	22.6	23.0	24.6	25.3	25.1	25.8	26.2
X=8H Y=4H	21.5	22.3	22.0	22.7	23.2	23.5	24.3	24.0	24.7	25.2
6H	21.9	22.5	22.4	22.9	23.4	24.3	24.9	24.8	25.4	25.9
8H	22.0	22.5	22.5	23.0	23.5	24.7	25.2	25.2	25.7	26.3
12H	22.0	22.5	22.5	23.0	23.5	25.0	25.5	25.6	26.0	26.6
X=12H Y=4H	21.6	22.3	22.1	22.7	23.2	23.5	24.2	24.0	24.6	25.1
6H	22.0	22.5	22.5	23.0	23.5	24.3	24.9	24.9	25.4	25.9
8H	22.1	22.6	22.6	23.1	23.6	24.7	25.2	25.3	25.7	26.3
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.4					+0.1/-0.2				
S=1.5H	+0.8/-0.6					+0.4/-0.5				
S=2.0H	+1.5/-1.5					+0.6/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 6560lm ($8\log(F/F_0) = 6.5$).

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:

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	0.56	0.66	0.73	0.79	0.86	0.91	0.94	0.99	1.02	
	0.30		0.48	0.58	0.66	0.71	0.79	0.85	0.89	0.95	0.98	
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.82	0.87	0.90	0.95	0.97	
	0.30		0.47	0.57	0.64	0.69	0.77	0.82	0.86	0.91	0.94	
	0.20		0.42	0.52	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.62	0.68	0.73	0.79	0.83	0.87	0.91	0.93	
	0.30		0.46	0.56	0.62	0.68	0.75	0.79	0.83	0.88	0.91	
	0.20		0.41	0.51	0.58	0.63	0.71	0.76	0.80	0.85	0.88	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.72	0.75	0.80	0.83	
Rating:49W 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	1.00	0.83	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.43	0.34	0.26	0.22	
	0.30		0.81	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.93	0.76	0.65	0.57	0.45	0.38	0.32	0.25	0.21	
	0.30		0.79	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.69	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.31	0.26	0.23	0.18	0.15	
Rating:49W 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	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.07	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.19
0.50	0.50	0.20	0.18	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.18	0.20	0.20
	0.20		0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Rating:49W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											