

Report No.:

Test Time: 29.01.2020 22:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FP 150 138W 5000K 90x90gr. NN

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 221.1 V

Power: 138.19 W

Luminous Length (mm): 404

Luminous Height (mm): 80

Current: 0.629 A

Power Factor: 0.994

Photometric Results

CIE Class: Direct

Measurement Flux: 19252 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.2, 111.1, 120.5, 120.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 81.4, 81.3, 89.6, 89.6

Luminaire Efficacy Rating (LER): 139.37

Max. Intensity: 11878.6 cd

S/MH(C0/C180): 1.48

Total Rated Lamp Lumens: 19252.0 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 7787.18 cd

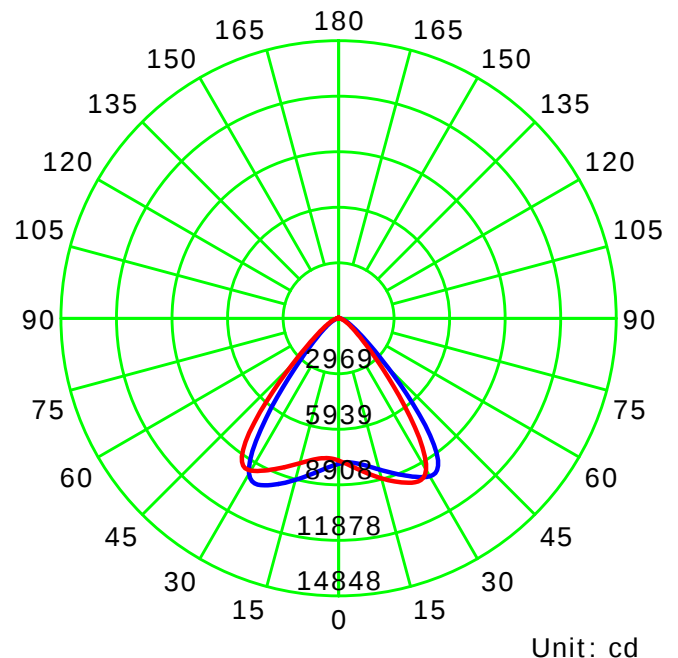
Pos of Max. Intensity: H135 V31

S/MH(C90/C270): 1.48

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

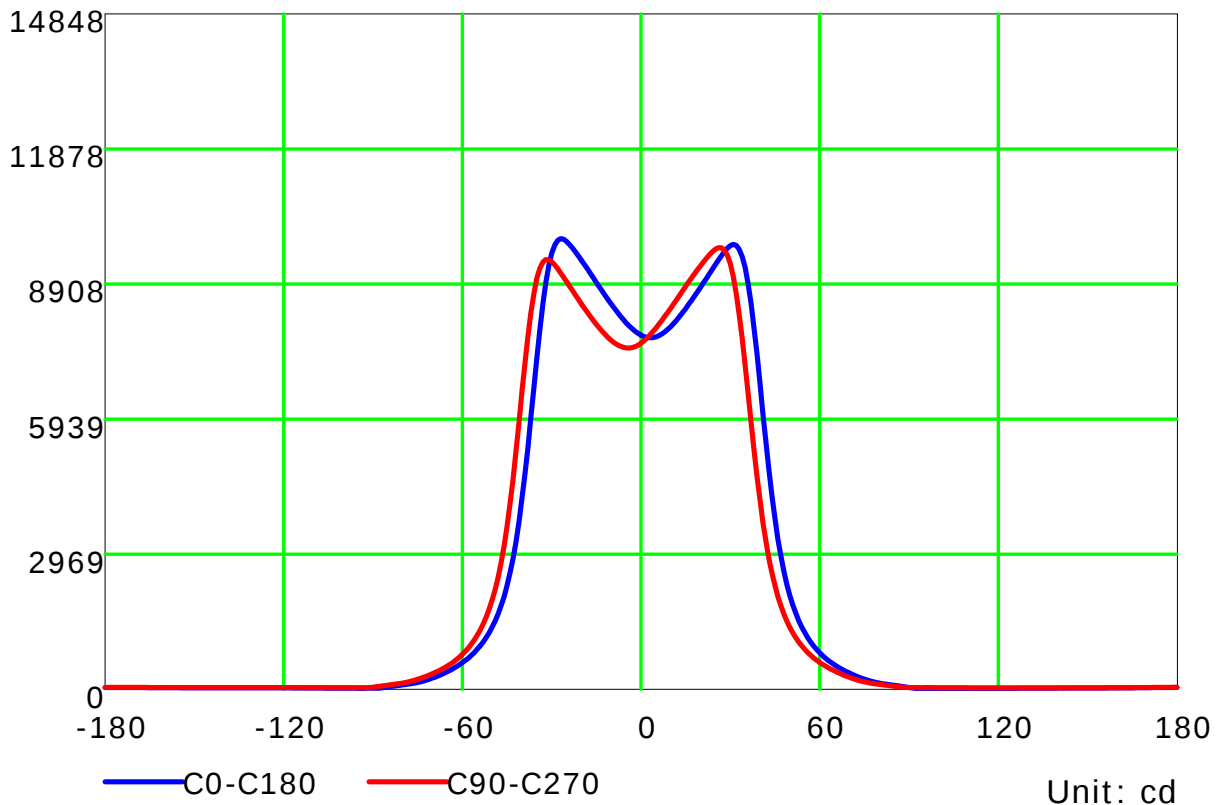
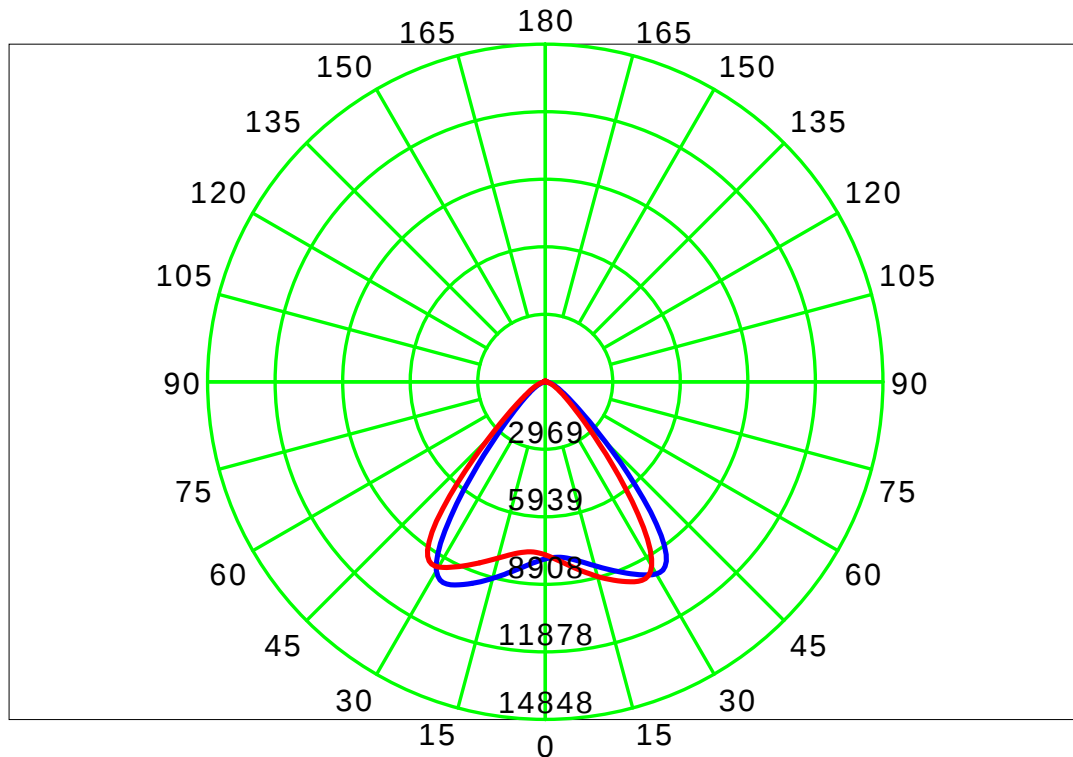
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

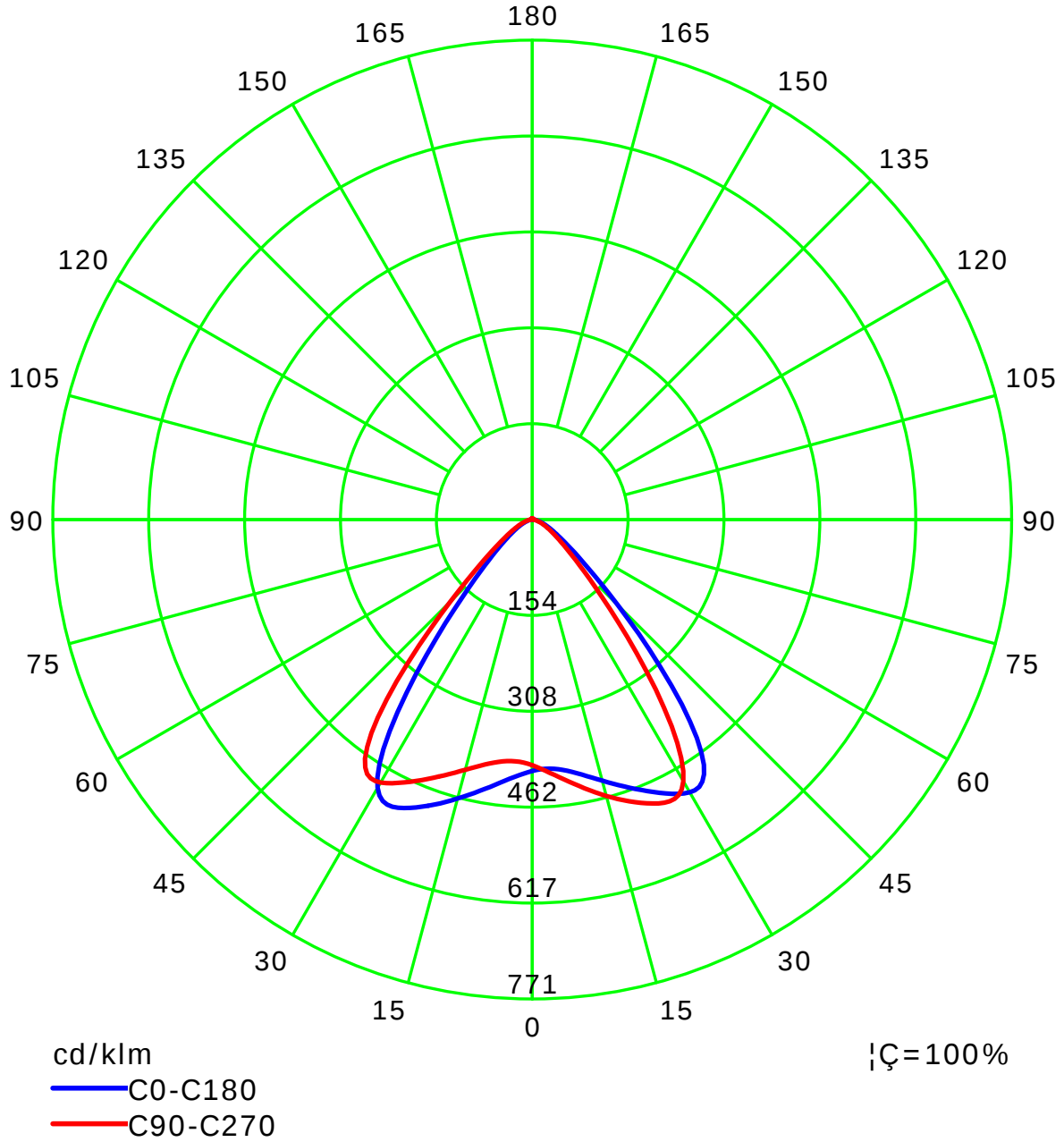
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

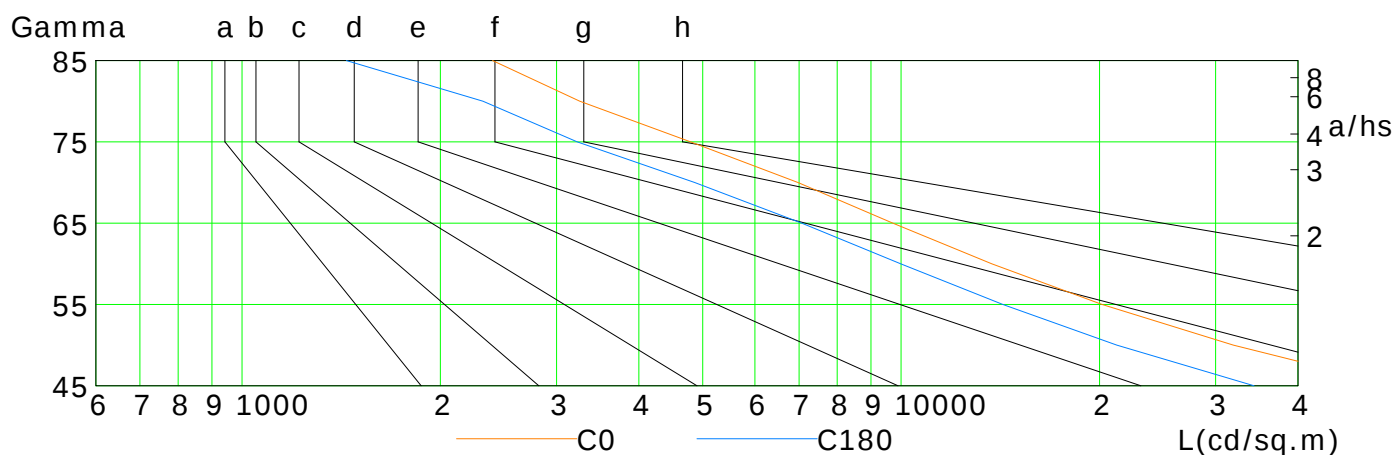
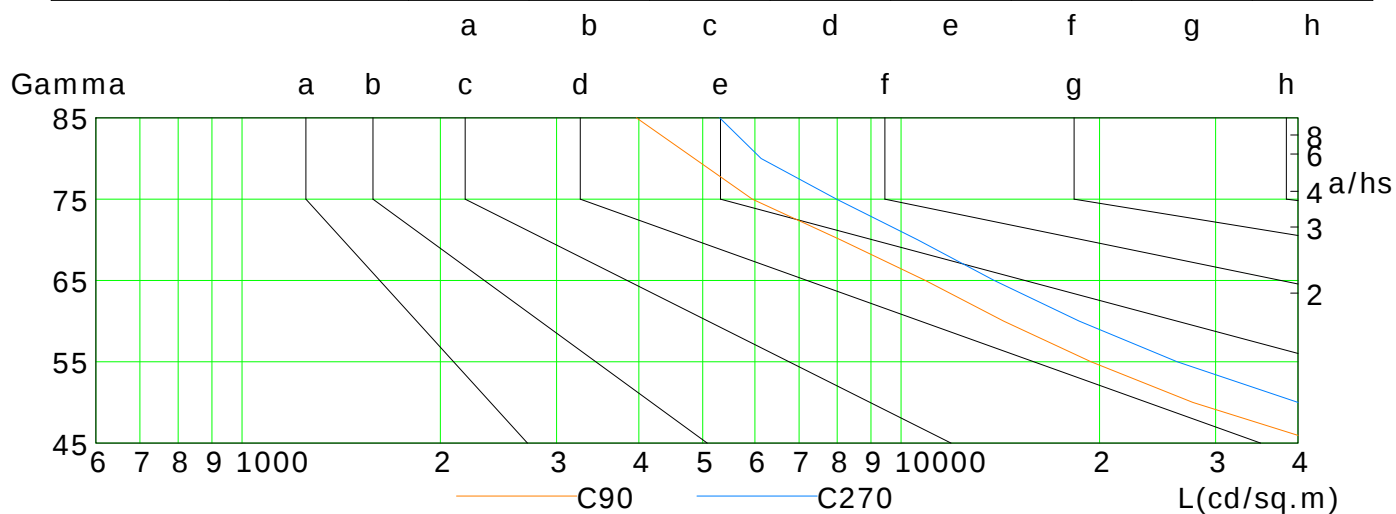
Gamma Plane (°): 0.0-180.0: 1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	56420	31927	20179	13727	9717	6975	4792	3254	2400
C90	43655	27707	19416	14306	10886	8093	5946	4857	3966
C180	34301	21245	14269	9983	7068	4861	3225	2320	1440
C270	68361	40060	26226	18630	13844	10594	7979	6132	5305

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

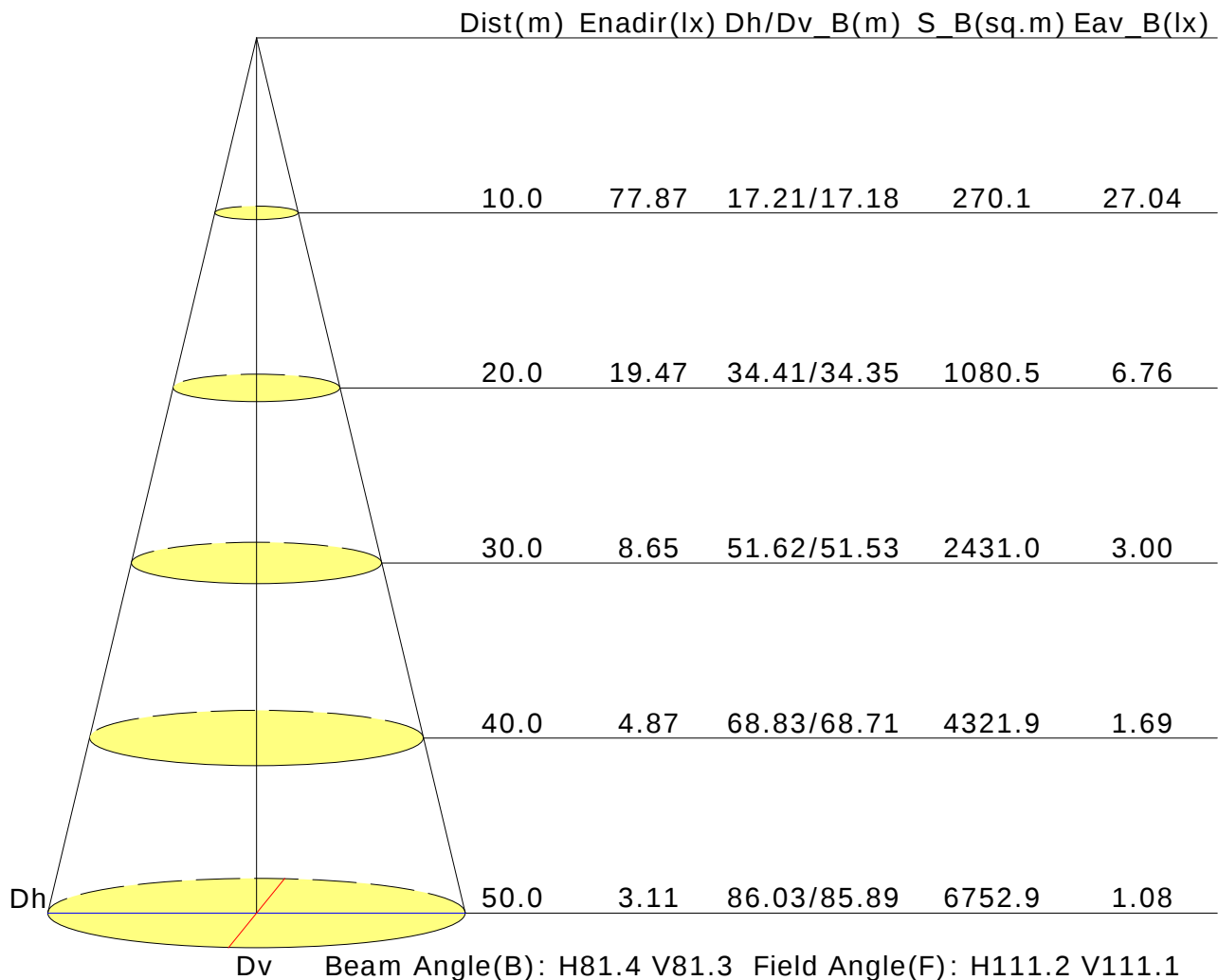
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	24.8	26.0	25.1	26.2	26.4	24.6	25.7	24.9	26.0	26.2
3H	24.8	25.8	25.1	26.1	26.4	24.6	25.6	24.9	25.9	26.2
4H	24.8	25.7	25.1	26.0	26.3	24.6	25.5	24.9	25.8	26.1
6H	24.7	25.6	25.1	25.9	26.2	24.5	25.4	24.9	25.7	26.0
8H	24.7	25.5	25.1	25.9	26.2	24.5	25.3	24.9	25.7	26.0
12H	24.7	25.5	25.1	25.8	26.2	24.5	25.3	24.9	25.6	26.0
X=4H Y=2H	24.8	25.8	25.2	26.1	26.4	24.6	25.5	24.9	25.8	26.1
3H	24.9	25.7	25.3	26.0	26.4	24.7	25.5	25.1	25.8	26.2
4H	24.9	25.6	25.3	25.9	26.3	24.7	25.4	25.1	25.7	26.1
6H	24.8	25.5	25.3	25.8	26.3	24.7	25.3	25.1	25.7	26.1
8H	24.8	25.4	25.3	25.8	26.2	24.7	25.2	25.1	25.6	26.1
12H	24.8	25.3	25.3	25.7	26.2	24.6	25.2	25.1	25.6	26.0
X=8H Y=4H	24.8	25.4	25.3	25.8	26.2	24.6	25.2	25.1	25.6	26.1
6H	24.8	25.3	25.3	25.7	26.2	24.7	25.1	25.1	25.6	26.0
8H	24.8	25.2	25.3	25.7	26.2	24.7	25.1	25.2	25.5	26.0
12H	24.8	25.1	25.3	25.6	26.1	24.7	25.0	25.2	25.5	26.0
X=12H Y=4H	24.8	25.3	25.2	25.7	26.2	24.6	25.1	25.1	25.5	26.0
6H	24.8	25.2	25.3	25.7	26.2	24.6	25.0	25.1	25.5	26.0
8H	24.8	25.1	25.3	25.6	26.1	24.6	25.0	25.2	25.5	26.0
Variations with the observer position at spacings:										
S=1.0H	+2.7/-3.9					+2.3/-3.4				
S=1.5H	+3.5/-5.4					+3.1/-5.2				
S=2.0H	+5.4/-6.4					+4.8/-6.5				

Calculate in accordance with CIE Pub.117. The table is revised with 19252Im ($8\log(F/F_0) = 10.3$).

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:

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	0.73	0.82	0.87	0.92	0.97	1.00	1.03	1.06	1.08	
	0.30		0.67	0.76	0.82	0.87	0.93	0.97	0.99	1.03	1.05	
	0.20		0.62	0.72	0.78	0.83	0.89	0.93	0.96	1.00	1.03	
0.50	0.50	0.20	0.71	0.80	0.85	0.89	0.94	0.97	0.99	1.02	1.03	
	0.30		0.66	0.75	0.81	0.85	0.90	0.94	0.96	0.99	1.01	
	0.20		0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
0.30	0.50	0.20	0.70	0.78	0.83	0.86	0.91	0.94	0.96	0.98	1.00	
	0.30		0.65	0.74	0.79	0.83	0.88	0.91	0.93	0.96	0.98	
	0.20		0.62	0.70	0.76	0.80	0.85	0.89	0.91	0.95	0.97	
0.00	0.00	0.00	0.60	0.68	0.73	0.77	0.82	0.85	0.87	0.90	0.92	
Rating:138W 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	0.75	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.51	0.43	0.38	0.30	0.25	0.22	0.17	0.14	
	0.20		0.54	0.45	0.39	0.34	0.28	0.23	0.20	0.16	0.13	
0.50	0.50	0.20	0.72	0.57	0.47	0.40	0.32	0.30	0.22	0.17	0.14	
	0.30		0.61	0.49	0.42	0.36	0.29	0.24	0.20	0.16	0.13	
	0.20		0.53	0.44	0.37	0.33	0.27	0.22	0.19	0.15	0.13	
0.30	0.50	0.20	0.69	0.54	0.45	0.38	0.30	0.24	0.20	0.16	0.13	
	0.30		0.59	0.48	0.40	0.35	0.27	0.23	0.19	0.15	0.12	
	0.20		0.52	0.42	0.36	0.32	0.25	0.21	0.18	0.14	0.12	
0.00	0.00	0.00	0.39	0.31	0.26	0.22	0.17	0.14	0.12	0.09	0.07	
Rating:138W 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	0.15	0.17	0.18	0.18	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
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		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	
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:138W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												