

Report No.:

Test Time: 30.01.2020 10:34

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FP 150 80W 5000K 150x55gr. NN

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 221.0 V

Power: 80.14 W

Luminous Length (mm): 404

Luminous Height (mm): 80

Current: 0.366 A

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Measurement Flux: 11200.1 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.8, 150.8, 131.8, 135.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.4, 143.8, 70.7, 70.3

Luminaire Efficacy Rating (LER): 139.81

Max. Intensity: 9187.06 cd

S/MH(C0/C180): 1.81

Total Rated Lamp Lumens: 11200.1 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1836.18 cd

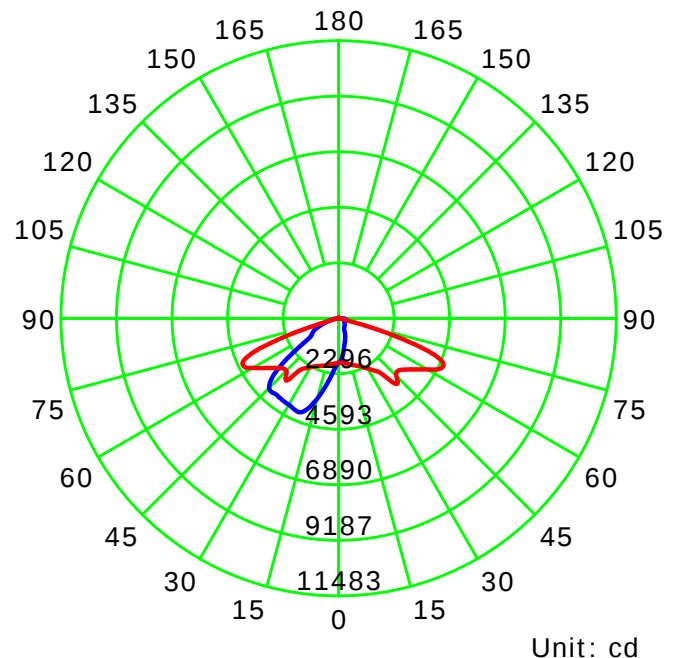
Pos of Max. Intensity: H247.5 V64

S/MH(C90/C270): 2.28

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

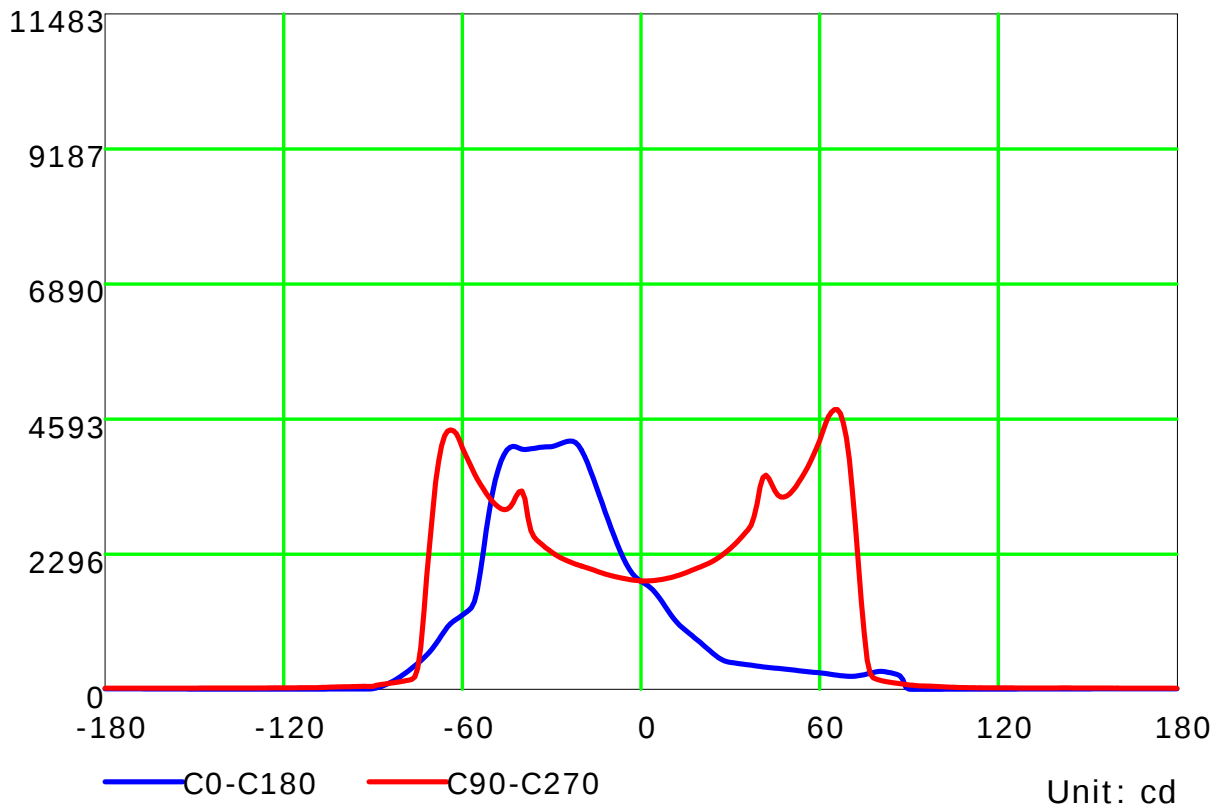
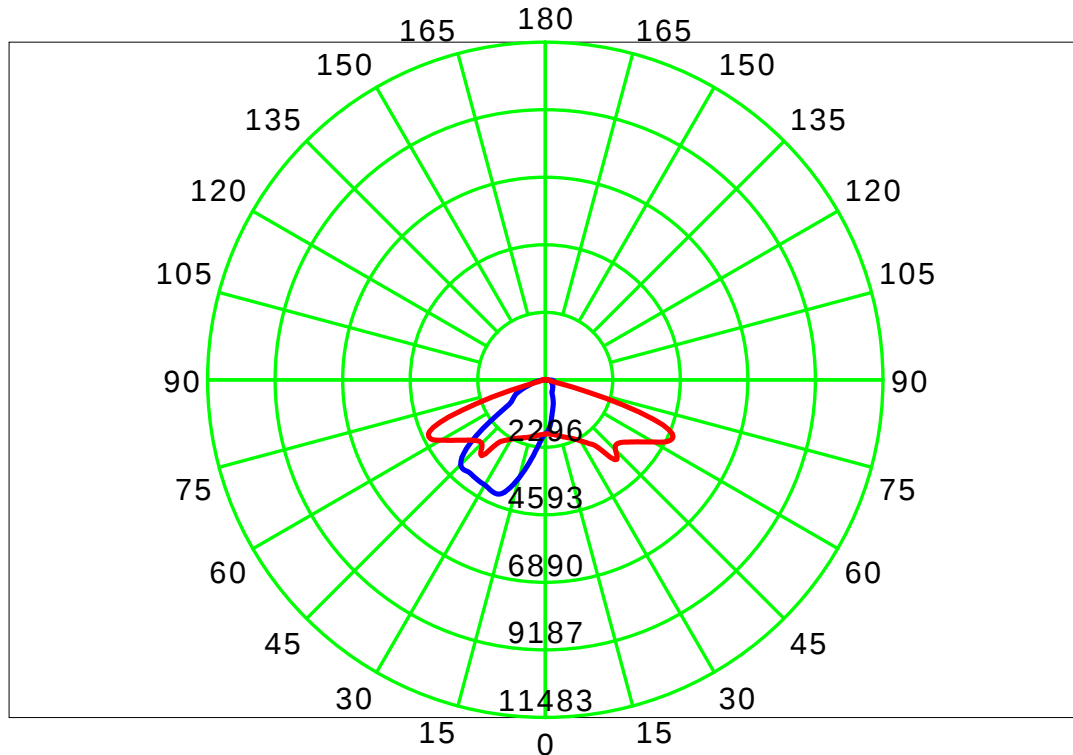
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

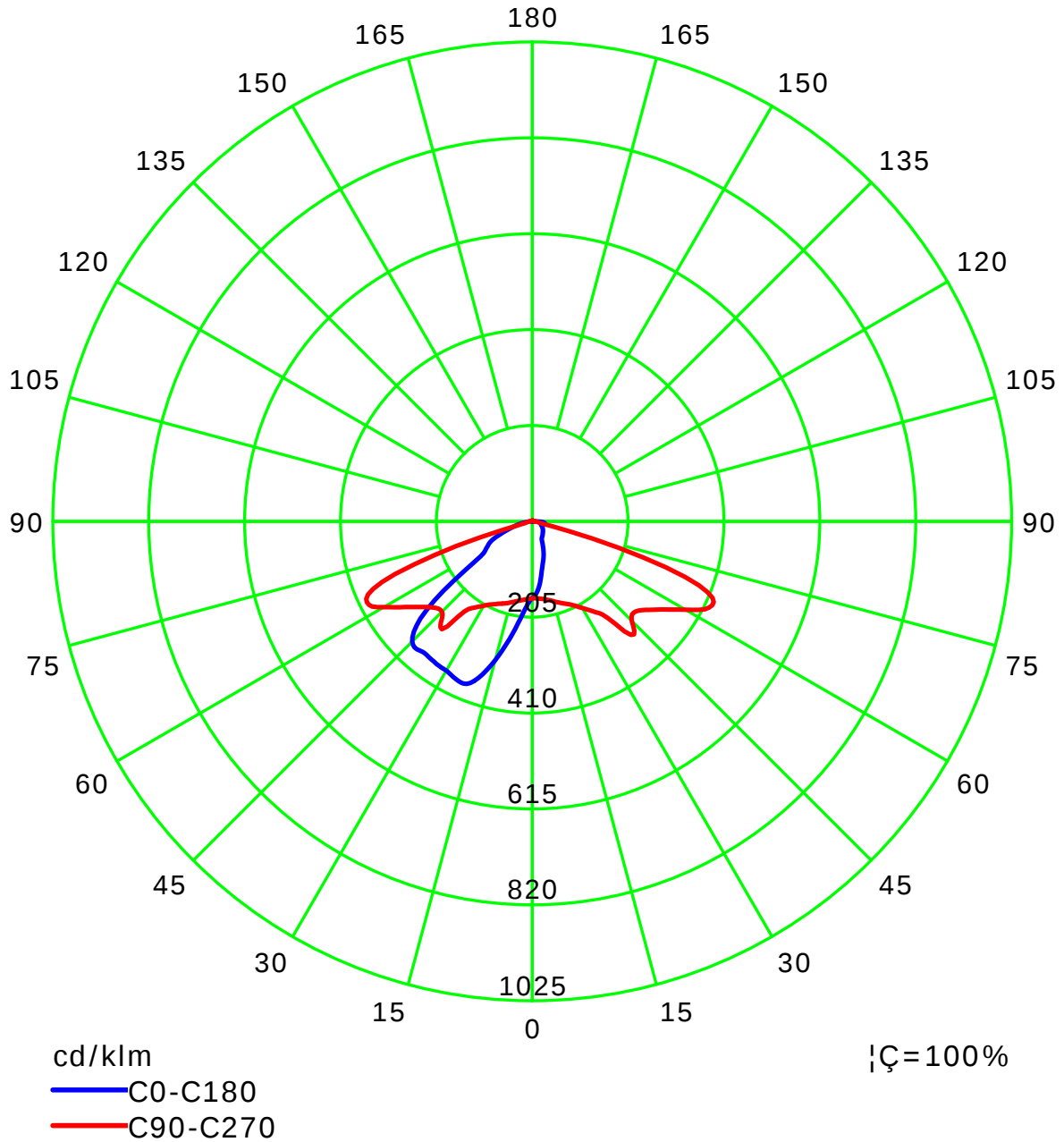
Luminous Intensity Distribution Curve



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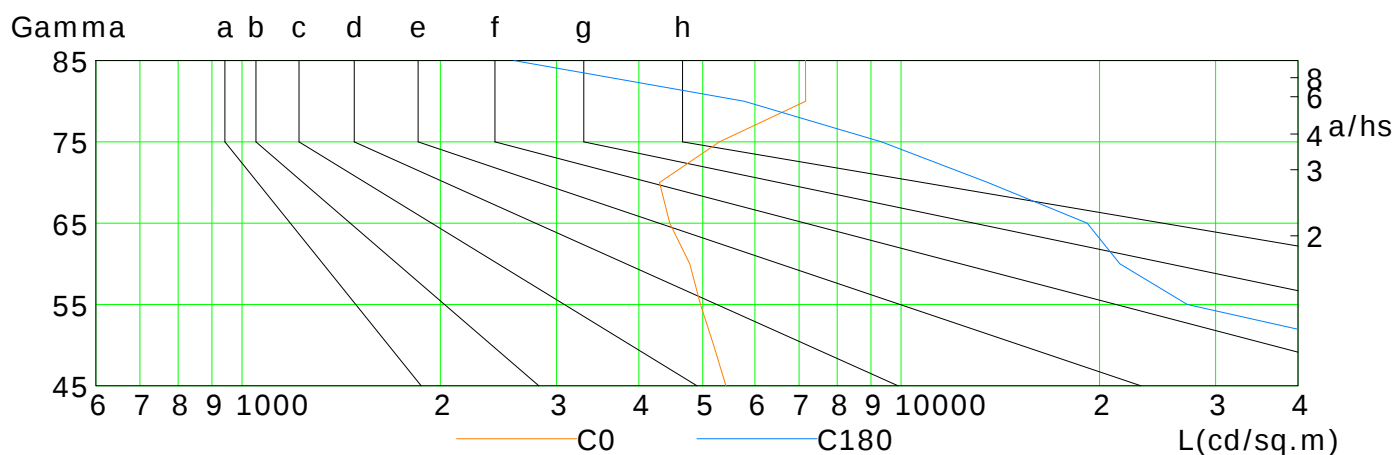
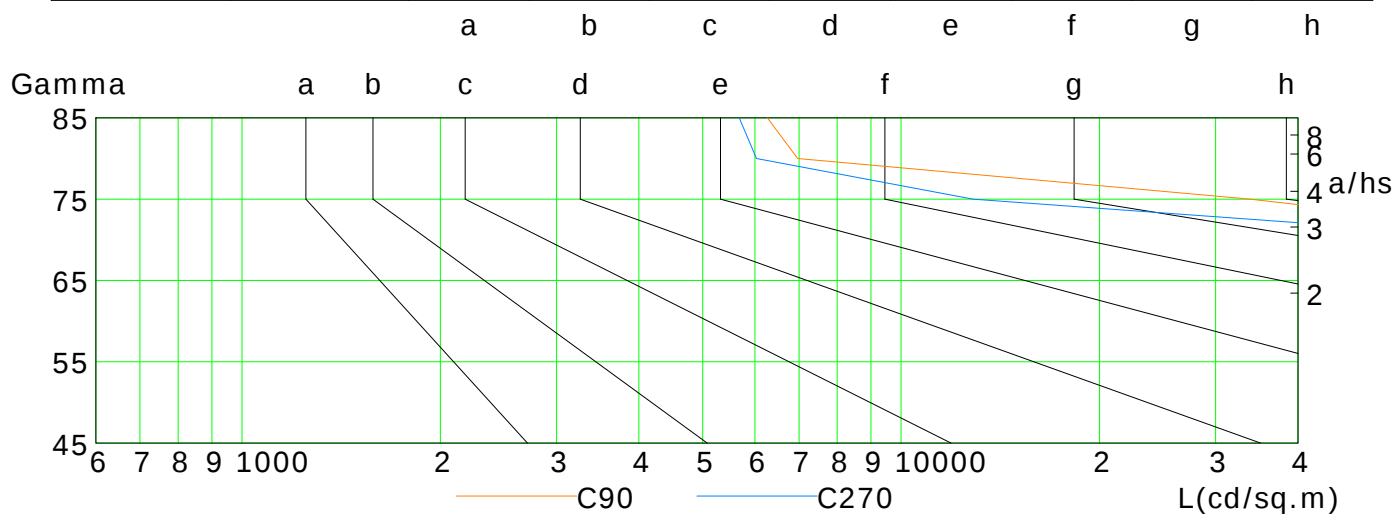
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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	5421	5193	4962	4779	4457	4298	5300	7164	7158
C90	64425	67733	81078	101937	127831	119502	33853	6967	6266
C180	61178	51289	27174	21477	19155	13539	9340	5775	2587
C270	58492	65219	78667	98979	117968	91704	12855	6034	5681

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

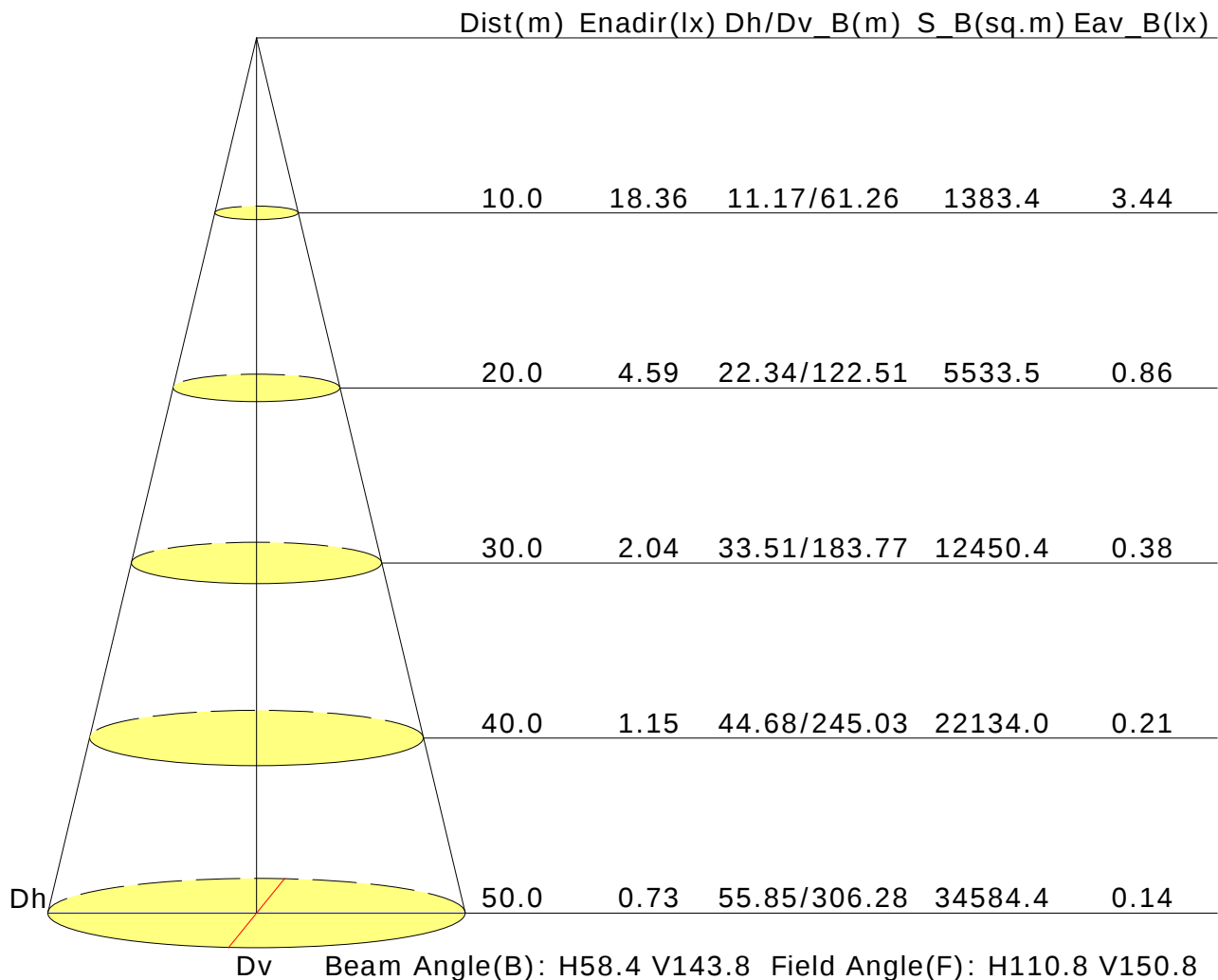
Test Device: LSG-1800B

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	12.2	13.7	12.5	14.0	14.2	25.9	27.4	26.3	27.7	28.0
3H	13.9	15.2	14.2	15.5	15.8	30.1	31.5	30.5	31.8	32.1
4H	14.9	16.2	15.3	16.5	16.9	30.5	31.8	30.9	32.1	32.5
6H	16.5	17.7	16.8	18.0	18.3	30.4	31.7	30.8	32.0	32.3
8H	17.3	18.5	17.7	18.8	19.2	30.4	31.6	30.8	31.9	32.3
12H	18.1	19.2	18.5	19.5	19.9	30.4	31.5	30.8	31.9	32.2
X=4H Y=2H	14.1	15.4	14.4	15.7	16.0	25.7	27.0	26.1	27.3	27.7
3H	15.5	16.7	15.9	17.0	17.4	30.0	31.2	30.5	31.5	31.9
4H	16.5	17.5	16.9	17.9	18.3	30.5	31.5	30.9	31.9	32.3
6H	17.9	18.8	18.4	19.2	19.6	30.5	31.3	30.9	31.8	32.2
8H	18.8	19.6	19.2	20.0	20.4	30.4	31.3	30.9	31.7	32.1
12H	19.6	20.3	20.1	20.8	21.2	30.4	31.2	30.9	31.6	32.1
X=8H Y=4H	18.2	19.0	18.6	19.4	19.9	30.4	31.2	30.9	31.7	32.1
6H	19.3	20.0	19.8	20.4	20.9	30.4	31.1	30.9	31.5	32.0
8H	20.1	20.7	20.6	21.1	21.6	30.4	31.0	30.9	31.4	32.0
12H	20.9	21.4	21.4	21.9	22.4	30.4	30.9	30.9	31.4	31.9
X=12H Y=4H	18.2	19.0	18.7	19.4	19.9	30.4	31.1	30.9	31.6	32.0
6H	19.5	20.0	20.0	20.5	21.0	30.4	31.0	30.9	31.4	31.9
8H	20.2	20.7	20.7	21.2	21.7	30.4	30.9	30.9	31.4	31.9
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.2					+0.4/-0.5				
S=1.5H	+0.7/-0.8					+1.9/-2.6				
S=2.0H	+1.0/-1.8					+3.5/-5.4				

Calculate in accordance with CIE Pub.117. The table is revised with 11200lm ($8\log(F/F_0) = 8.4$).

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 = 2.00									
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	NA	0.65	0.71	0.77	0.85	0.90	0.94	0.98	1.01	
	0.30		NA	0.57	0.64	0.70	0.79	0.85	0.89	0.94	0.98	
	0.20		NA	0.51	0.58	0.64	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	NA	0.63	0.69	0.74	0.82	0.87	0.90	0.94	0.97	
	0.30		NA	0.56	0.62	0.68	0.77	0.82	0.86	0.91	0.94	
	0.20		NA	0.51	0.57	0.63	0.72	0.78	0.82	0.88	0.91	
0.30	0.50	0.20	NA	0.61	0.66	0.71	0.79	0.83	0.86	0.90	0.93	
	0.30		NA	0.55	0.61	0.66	0.75	0.80	0.83	0.88	0.91	
	0.20		NA	0.50	0.56	0.62	0.71	0.76	0.80	0.85	0.88	
0.00	0.00	0.00	NA	0.47	0.53	0.59	0.67	0.72	0.76	0.81	0.84	
Rating:80W 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 = 2.00									
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	NA	0.82	0.71	0.62	0.48	0.40	0.34	0.26	0.21	
	0.30		NA	0.70	0.62	0.54	0.43	0.36	0.31	0.25	0.20	
	0.20		NA	0.61	0.55	0.49	0.40	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	NA	0.79	0.68	0.59	0.46	0.41	0.32	0.25	0.20	
	0.30		NA	0.68	0.60	0.53	0.42	0.35	0.30	0.24	0.19	
	0.20		NA	0.60	0.54	0.48	0.39	0.32	0.28	0.22	0.19	
0.30	0.50	0.20	NA	0.76	0.66	0.56	0.44	0.36	0.31	0.24	0.19	
	0.30		NA	0.67	0.59	0.51	0.40	0.34	0.29	0.23	0.19	
	0.20		NA	0.59	0.53	0.47	0.37	0.31	0.27	0.22	0.18	
0.00	0.00	0.00	0.97	0.50	0.44	0.38	0.30	0.25	0.21	0.17	0.14	
Rating:80W 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 = 2.00									
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	NA	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		NA	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.50	0.50	0.20	NA	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		NA	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		NA	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	NA	0.17	0.18	0.19	0.19	0.20	0.20	0.20	0.21	
	0.30		NA	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.08	0.10	0.11	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:80W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												