

Report No.:

Test Time: 08.06.2020 21:11

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FD 112 200W 5000K 90гр. диод 3Т матовое стекло DALI

Luminous Length (mm): 364

Luminous Width (mm): 364

Luminous Height (mm): 138

Voltage: 220.7 V

Current: 0.901 A

Power: 197.72 W

Power Factor: 0.993

## Photometric Results

CIE Class: Direct

Measurement Flux: 26050.4 lm

Total Rated Lamp Lumens: 26050.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 145.5, 144.4, 145.5, 145.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 90.5, 90.8, 91.1, 90.1

Luminaire Efficacy Rating (LER): 131.80

Central Intensity: 11896.2 cd

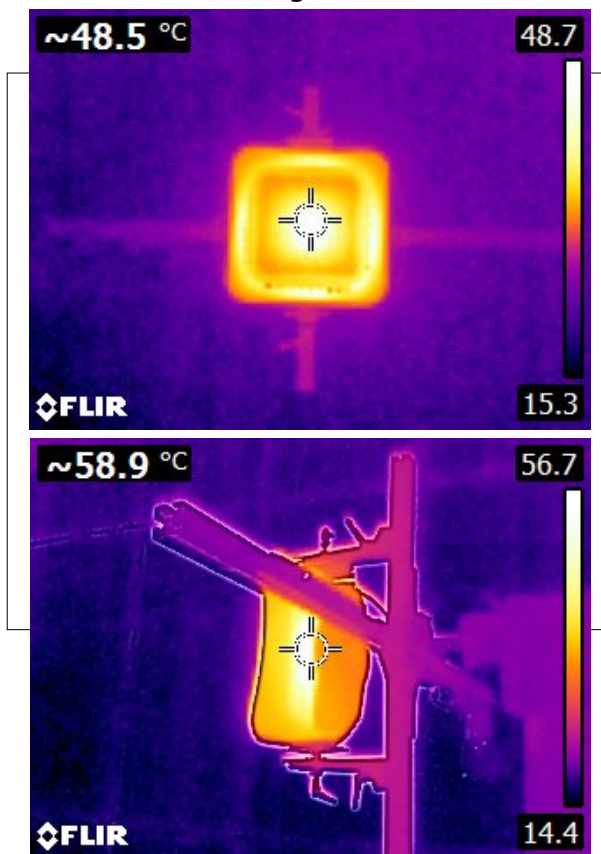
Max. Intensity: 12062.75 cd

Pos of Max. Intensity: H135 V10

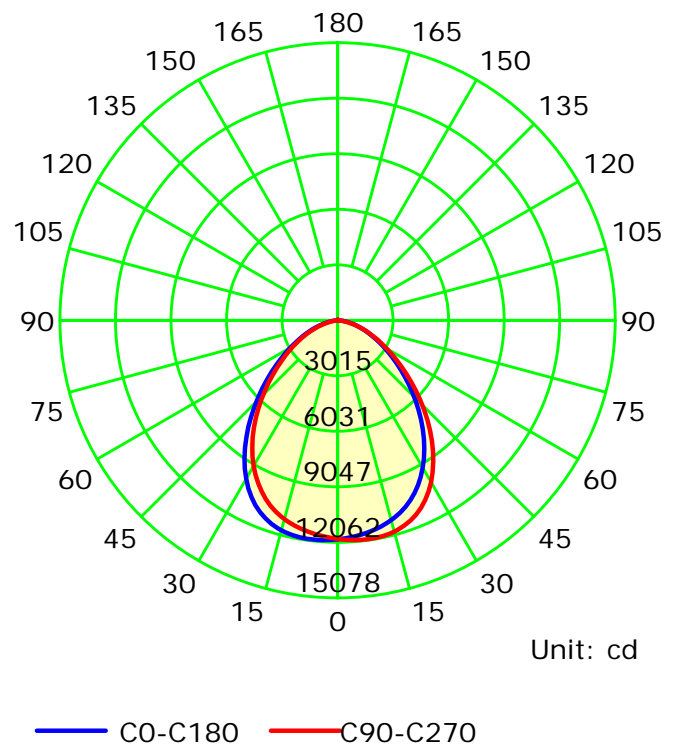
S/MH(C0/C180): 1.20

S/MH(C90/C270): 1.20

Termogramma



Luminous Intensity Distribution Curve



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

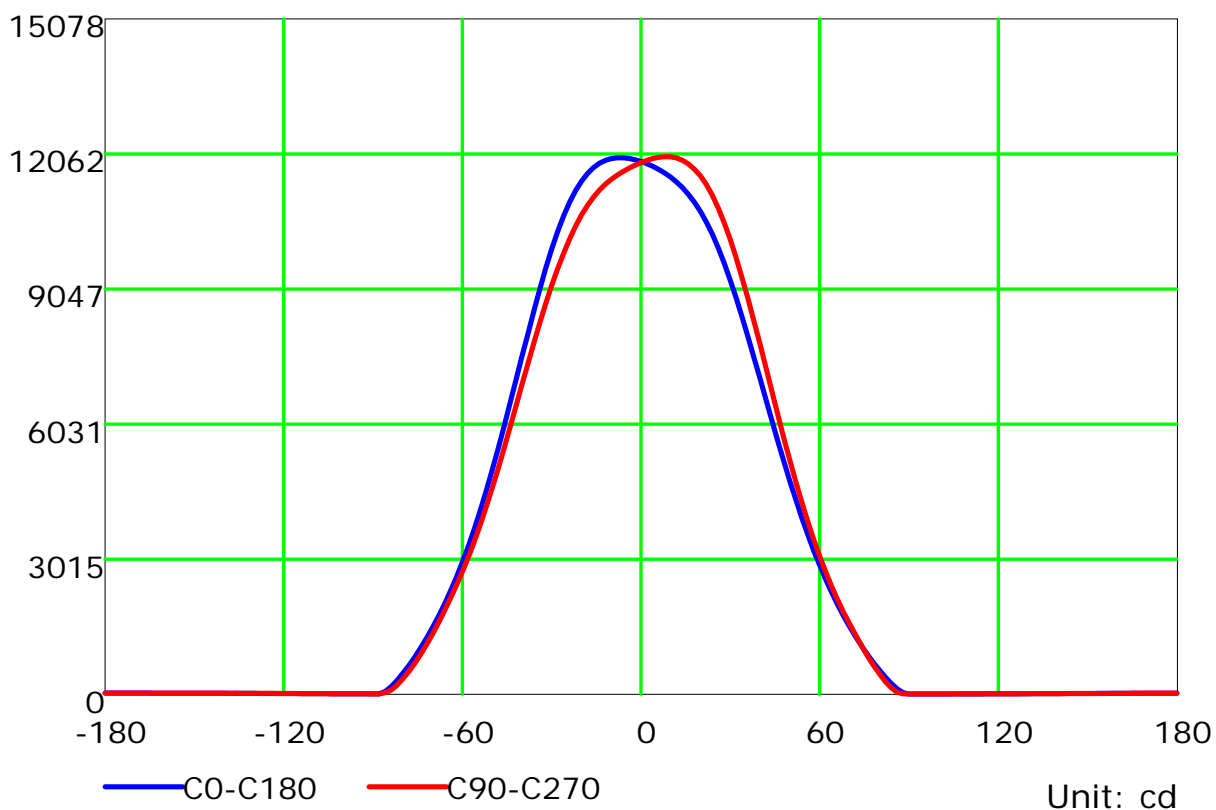
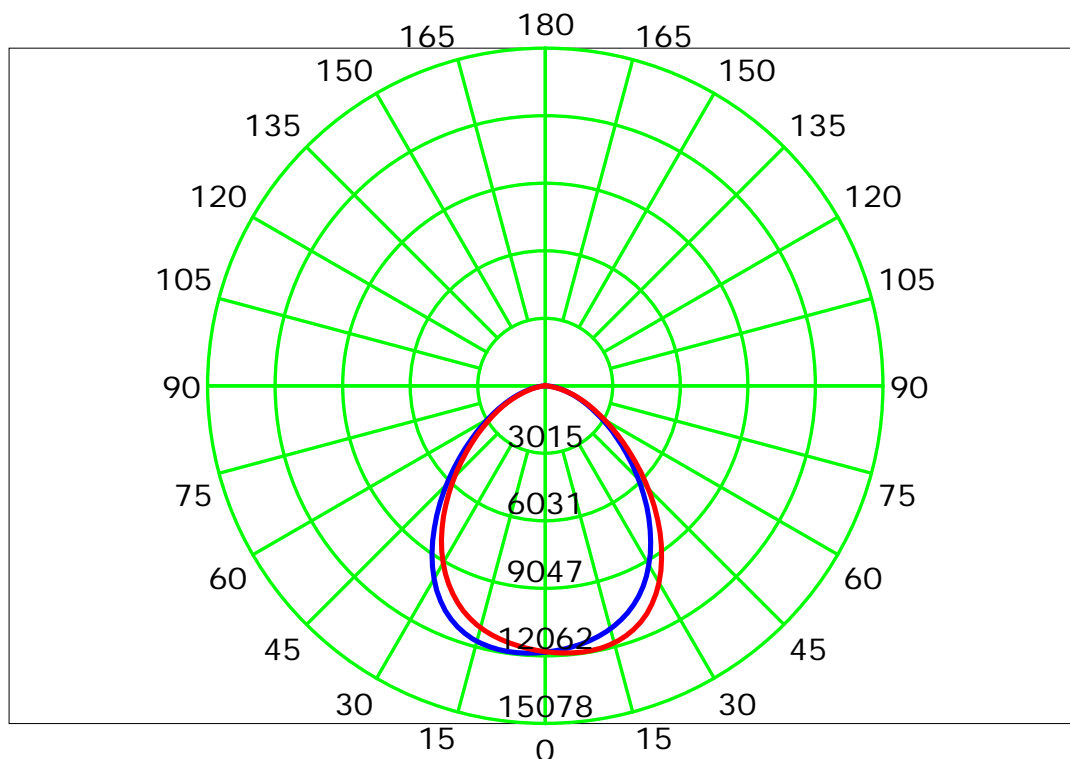
Temperature:

Humidity:

Operator:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 2.0

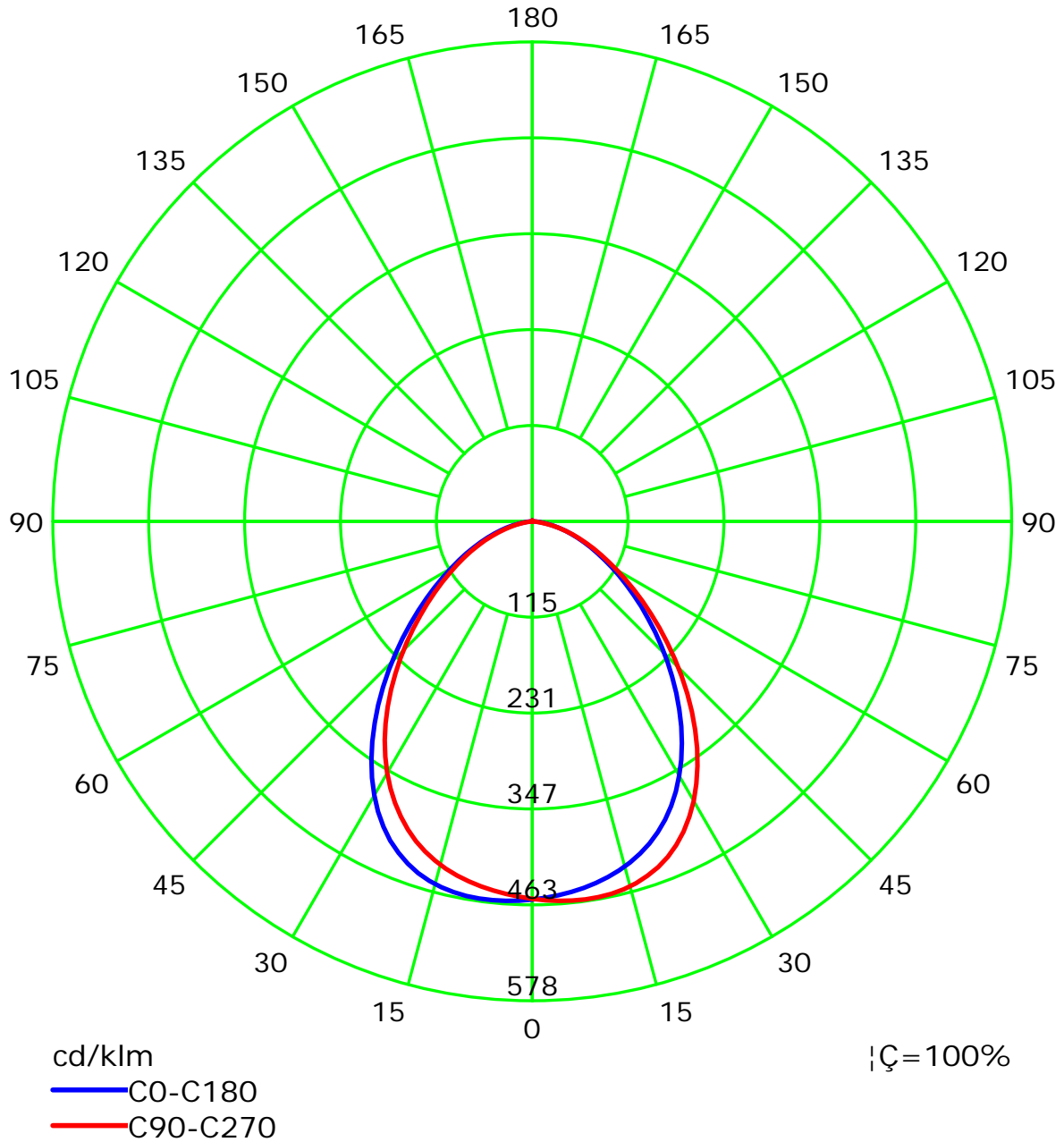
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



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

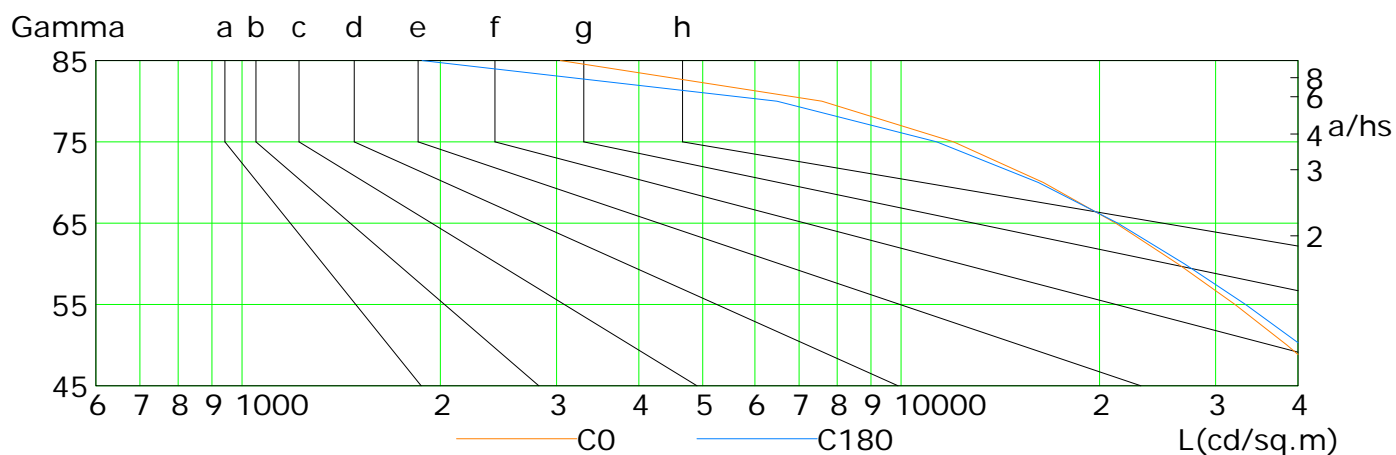
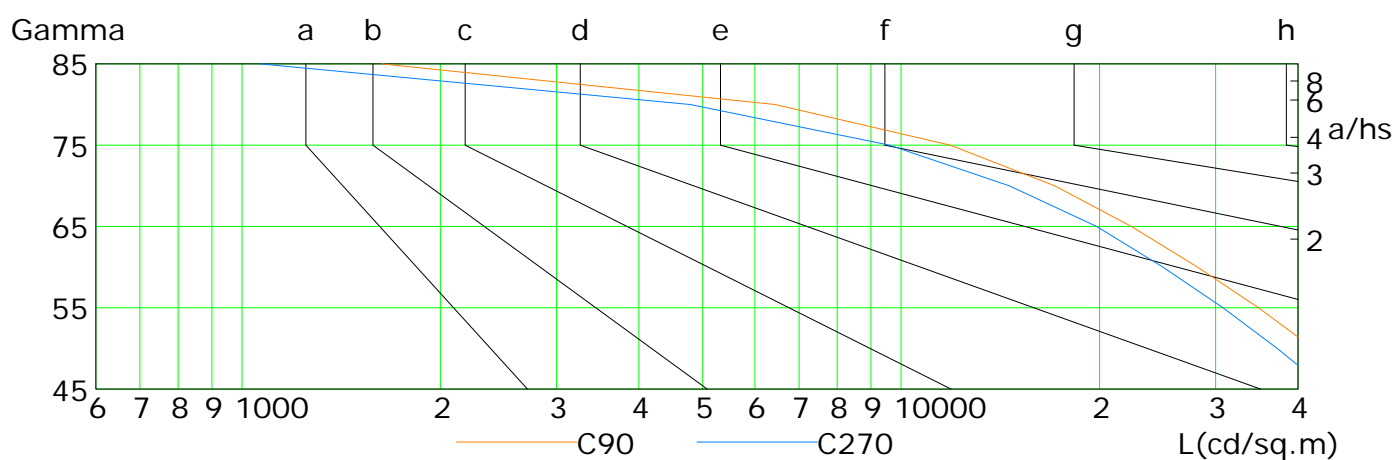
Humidity:

Inspector:

## 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	45508	38490	32107	26289	21157	16437	12010	7585	3042
C90	50297	42247	34840	28156	22355	17103	11873	6438	1627
C180	48335	40476	33311	26907	21311	16157	11328	6483	1876
C270	44356	37205	30773	24962	19795	14589	9604	4787	1065

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

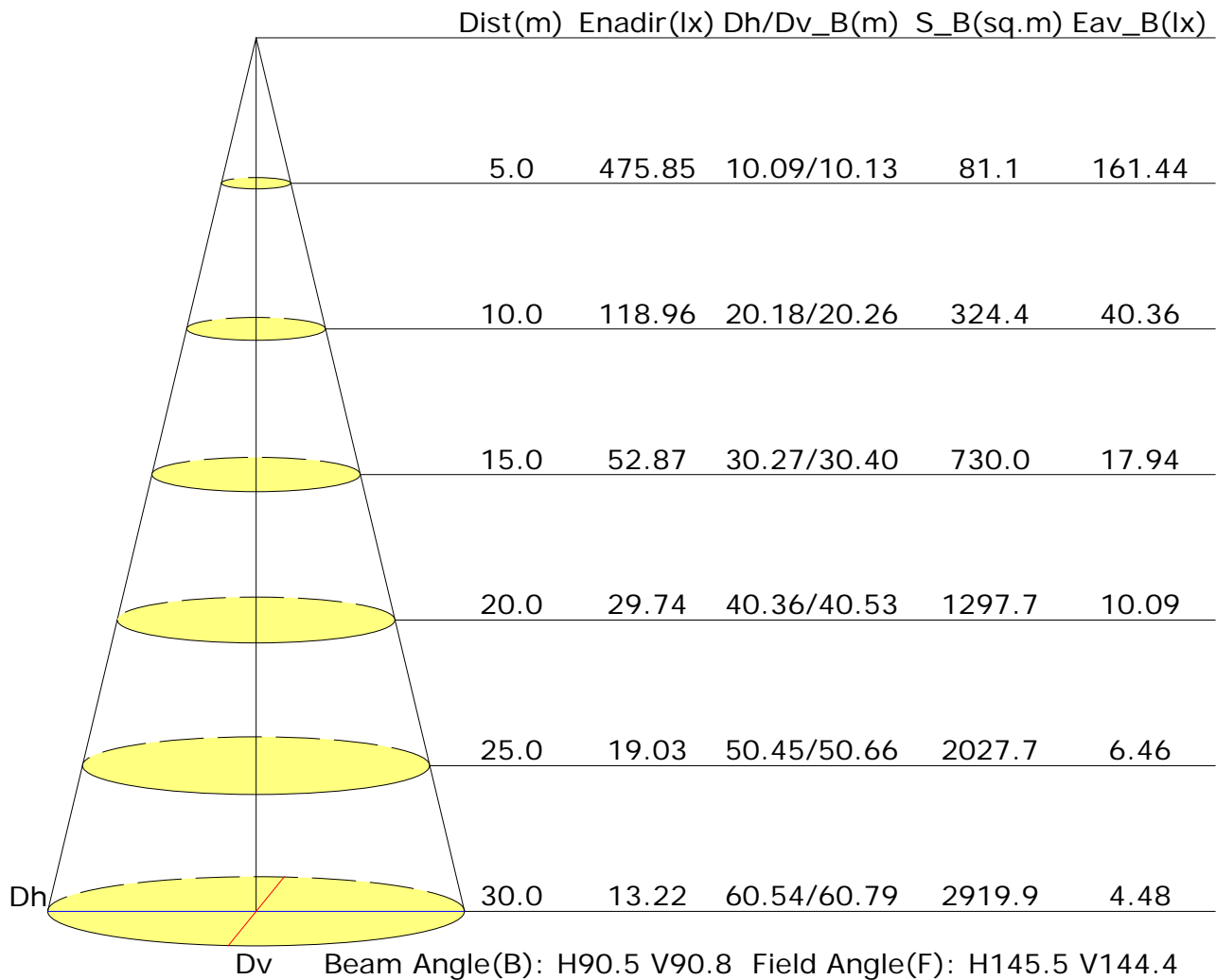
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

## Illuminance at a Distance



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:

## 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	23.9	25.1	24.2	25.4	25.6	24.0	25.3	24.3	25.5	25.8
3H	24.6	25.7	24.9	26.0	26.3	24.7	25.9	25.0	26.1	26.4
4H	24.8	25.9	25.2	26.2	26.5	24.9	26.0	25.2	26.3	26.6
6H	24.9	25.9	25.3	26.2	26.6	25.0	25.9	25.3	26.3	26.6
8H	24.9	25.9	25.3	26.2	26.5	24.9	25.9	25.3	26.2	26.5
12H	24.9	25.8	25.3	26.2	26.5	24.9	25.8	25.3	26.1	26.5
X=4H Y=2H	24.2	25.2	24.5	25.5	25.8	24.3	25.4	24.7	25.7	26.0
3H	25.0	26.0	25.4	26.3	26.6	25.2	26.1	25.5	26.4	26.7
4H	25.4	26.2	25.8	26.5	26.9	25.4	26.2	25.8	26.6	27.0
6H	25.5	26.2	26.0	26.6	27.0	25.5	26.2	25.9	26.6	27.0
8H	25.6	26.2	26.0	26.6	27.0	25.5	26.2	25.9	26.6	27.0
12H	25.6	26.1	26.0	26.6	27.0	25.5	26.1	25.9	26.5	26.9
X=8H Y=4H	25.4	26.1	25.9	26.5	26.9	25.5	26.1	25.9	26.5	27.0
6H	25.6	26.2	26.1	26.6	27.1	25.6	26.1	26.1	26.6	27.1
8H	25.7	26.2	26.2	26.6	27.1	25.6	26.1	26.1	26.5	27.0
12H	25.7	26.1	26.2	26.6	27.1	25.6	26.0	26.1	26.5	27.0
X=12H Y=4H	25.4	26.0	25.9	26.4	26.9	25.4	26.0	25.9	26.5	26.9
6H	25.6	26.1	26.1	26.6	27.0	25.6	26.1	26.1	26.5	27.0
8H	25.7	26.1	26.2	26.6	27.1	25.6	26.0	26.1	26.5	27.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.4/-0.5				
S=1.5H	+0.6/-1.1					+0.6/-1.3				
S=2.0H	+1.5/-2.0					+1.5/-2.0				

Calculate in accordance with CIE Pub.117. The table is revised with 26050lm ( $8\log(F/F_0) = 11.3$ ).

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	0.64	0.74	0.81	0.86	0.92	0.97	1.00	1.03	1.06	
	0.30		0.58	0.68	0.75	0.80	0.87	0.92	0.95	1.00	1.03	
	0.20		0.53	0.63	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
0.50	0.50	0.20	0.63	0.72	0.79	0.83	0.89	0.93	0.96	0.99	1.02	
	0.30		0.57	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99	
	0.20		0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.62	0.70	0.76	0.81	0.86	0.90	0.92	0.96	0.98	
	0.30		0.56	0.65	0.72	0.76	0.83	0.87	0.90	0.93	0.96	
	0.20		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
0.00	0.00	0.00	0.50	0.59	0.65	0.70	0.76	0.80	0.83	0.87	0.89	
Rating: 198W 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	0.88	0.71	0.60	0.52	0.41	0.34	0.29	0.22	0.18	
	0.30		0.73	0.61	0.52	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.63	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.16	
0.50	0.50	0.20	0.84	0.68	0.57	0.49	0.39	0.35	0.27	0.21	0.17	
	0.30		0.71	0.59	0.51	0.44	0.35	0.30	0.25	0.20	0.16	
	0.20		0.62	0.52	0.45	0.40	0.33	0.27	0.24	0.19	0.15	
0.30	0.50	0.20	0.82	0.65	0.55	0.47	0.37	0.30	0.26	0.20	0.16	
	0.30		0.70	0.58	0.49	0.43	0.34	0.28	0.24	0.19	0.15	
	0.20		0.61	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.50	0.41	0.34	0.30	0.24	0.20	0.17	0.13	0.10	
Rating: 198W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	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	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rating: 198W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											