

Report No.:

Test Time: 22.06.2020 19:37

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 30W 4000K матовый (opal)

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.3 V

Current: 0.141 A

Power: 30.20 W

Power Factor: 0.964

Photometric Results

CIE Class: Direct

Measurement Flux: 3373.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 3373.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.1, 162.2, 163.0, 163.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.6, 107.3, 108.4, 108.4

Luminaire Efficacy Rating (LER): 111.76

Central Intensity: 1211.07 cd

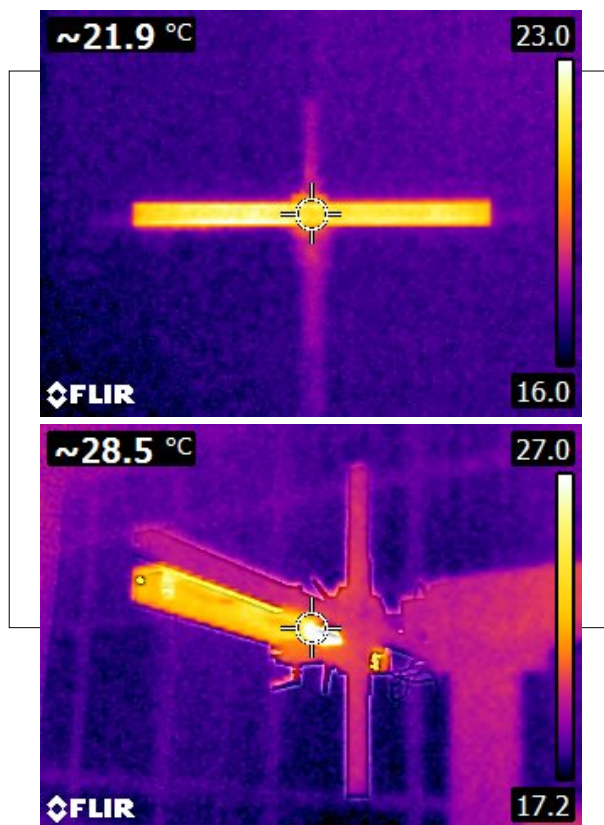
Max. Intensity: 1213.12 cd

Pos of Max. Intensity: H45 V2

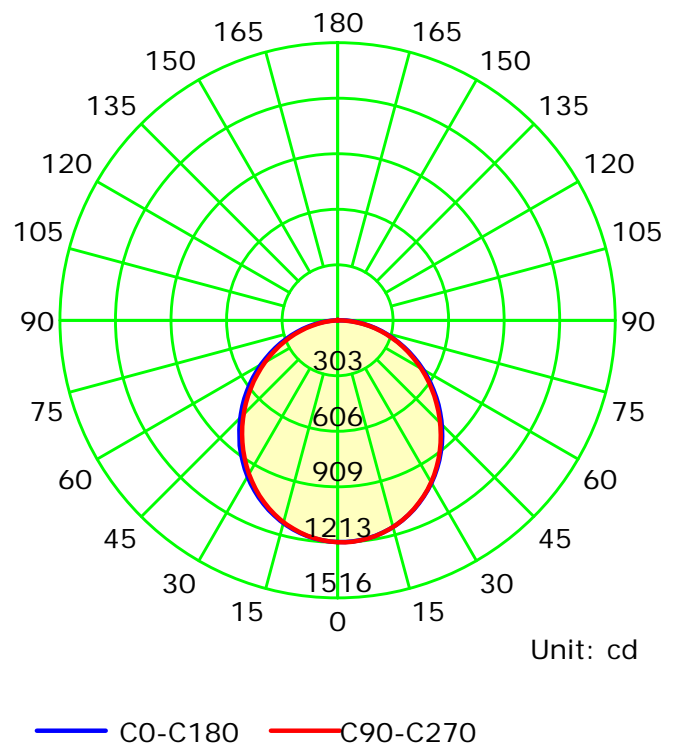
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.22

Termogramma



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

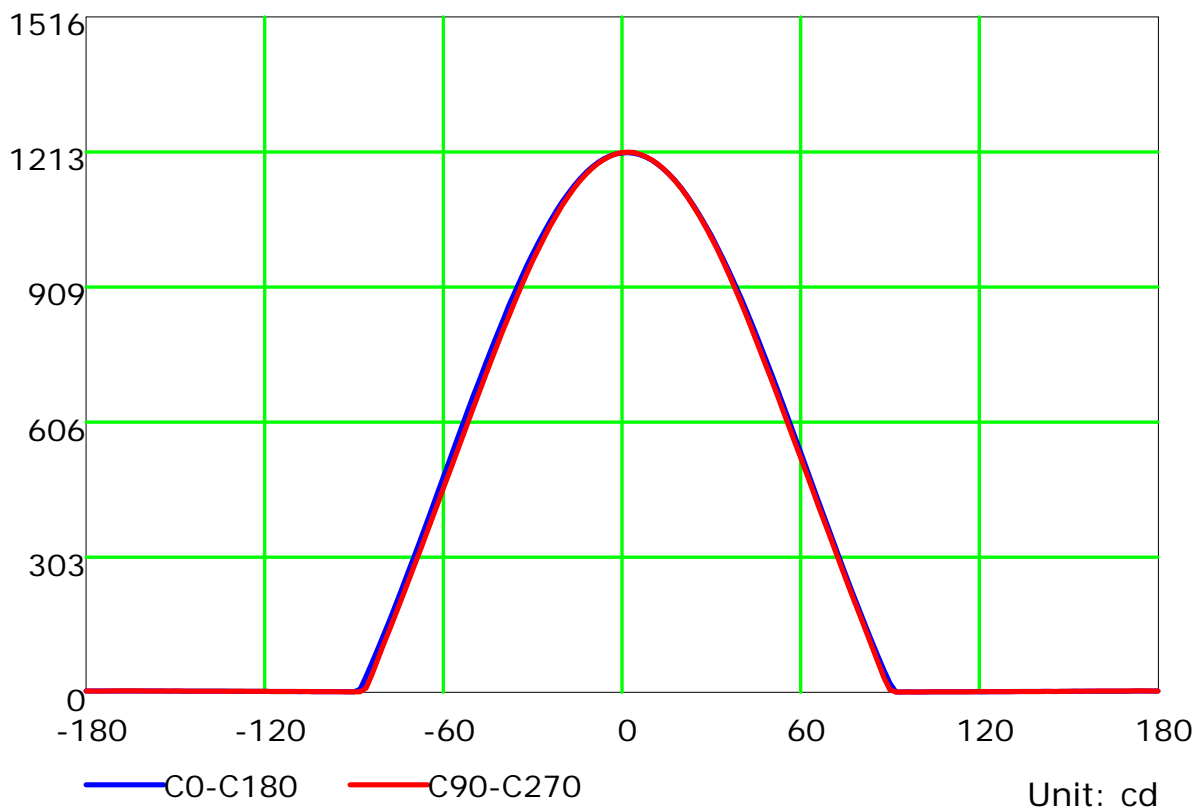
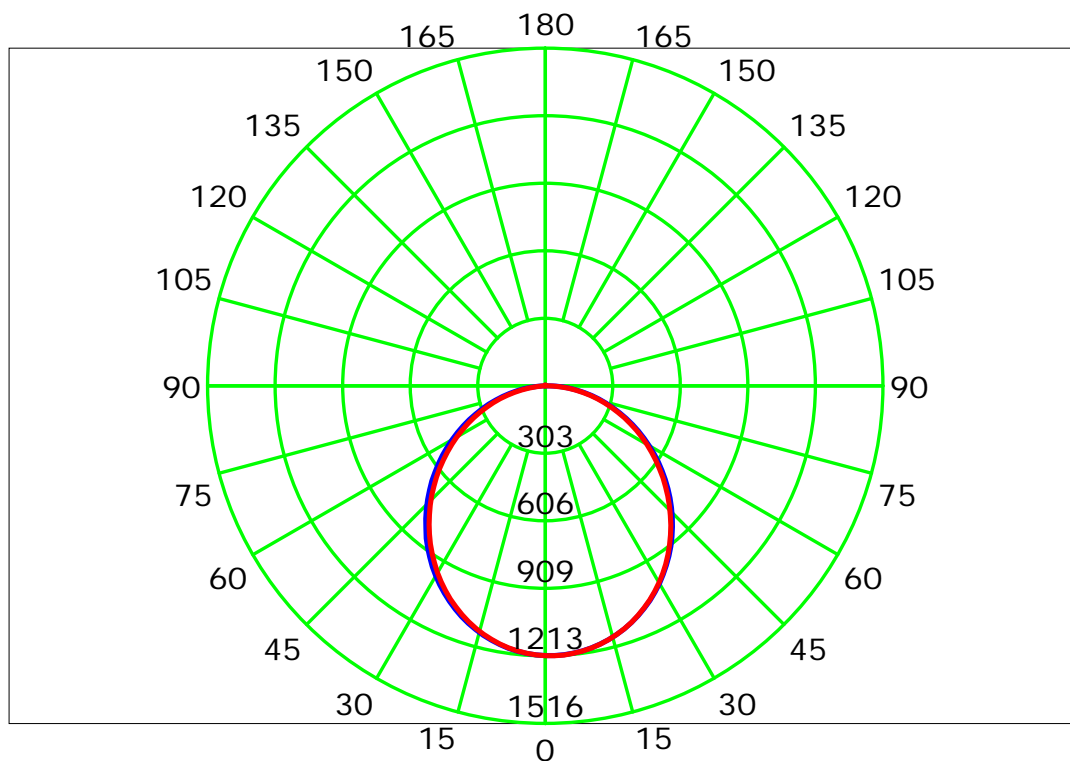
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 2.0

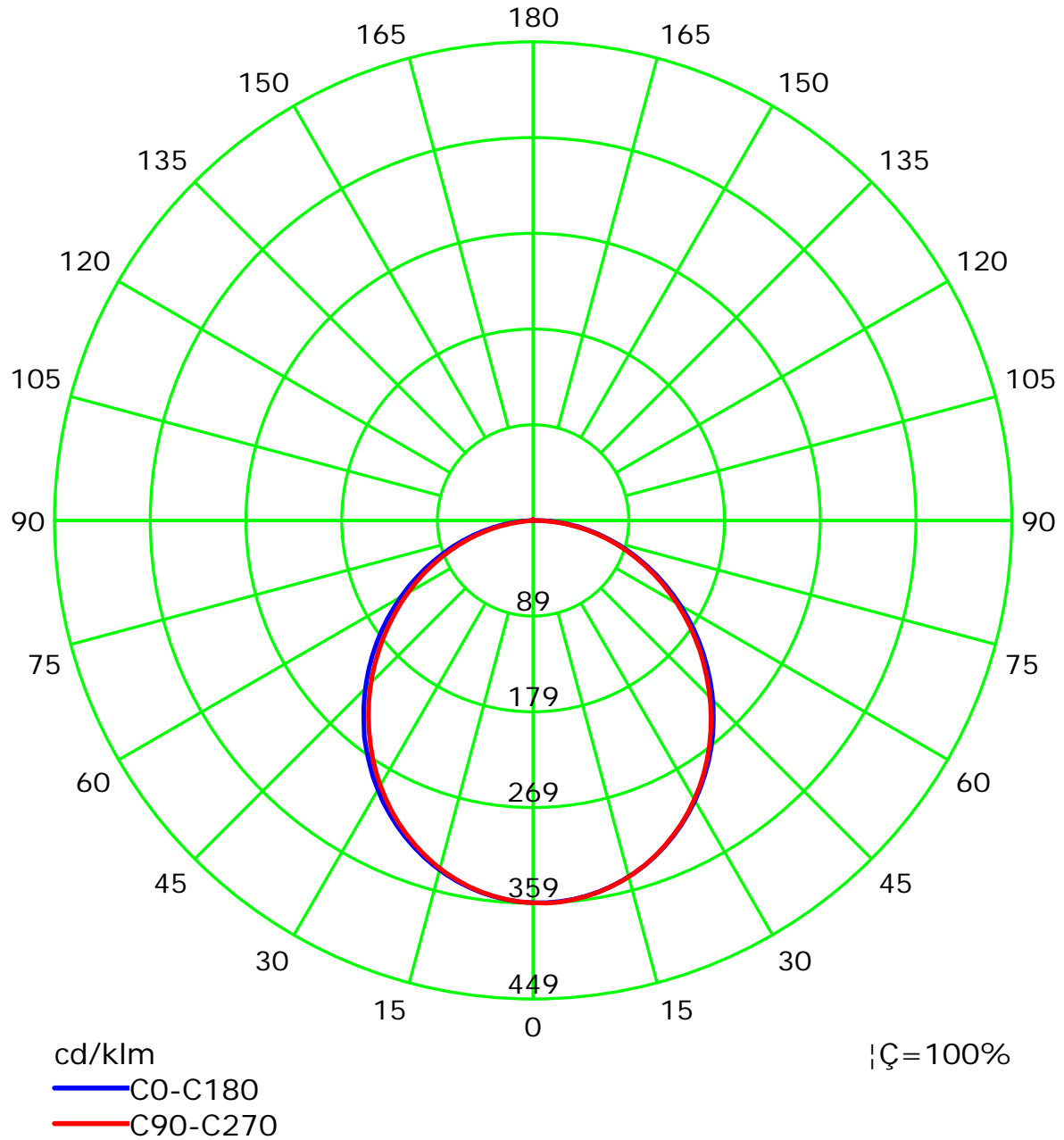
Test Device: LSG-1800B

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

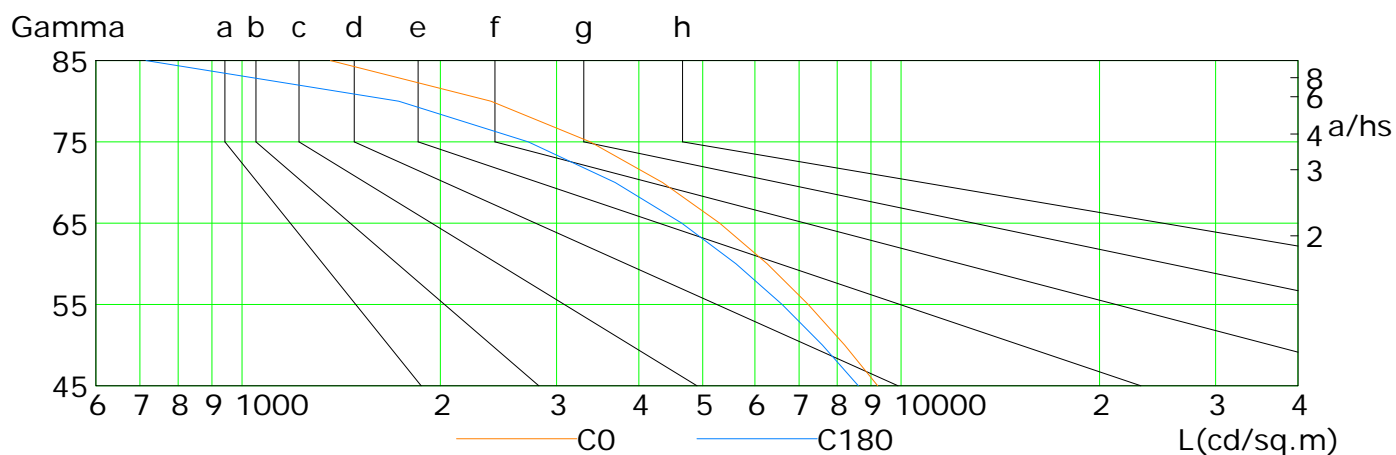
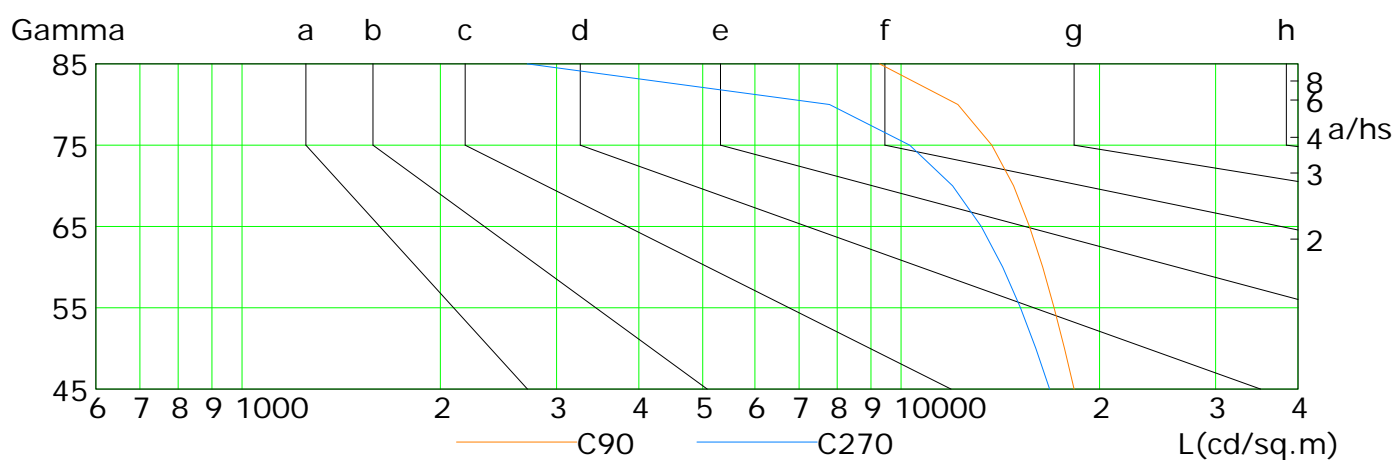
Humidity:

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	9213	8209	7229	6262	5304	4345	3375	2387	1362
C90	18294	17690	17061	16400	15654	14811	13725	12192	9278
C180	8612	7595	6599	5617	4647	3682	2718	1729	715
C270	16800	16008	15171	14259	13227	11970	10304	7788	2708

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

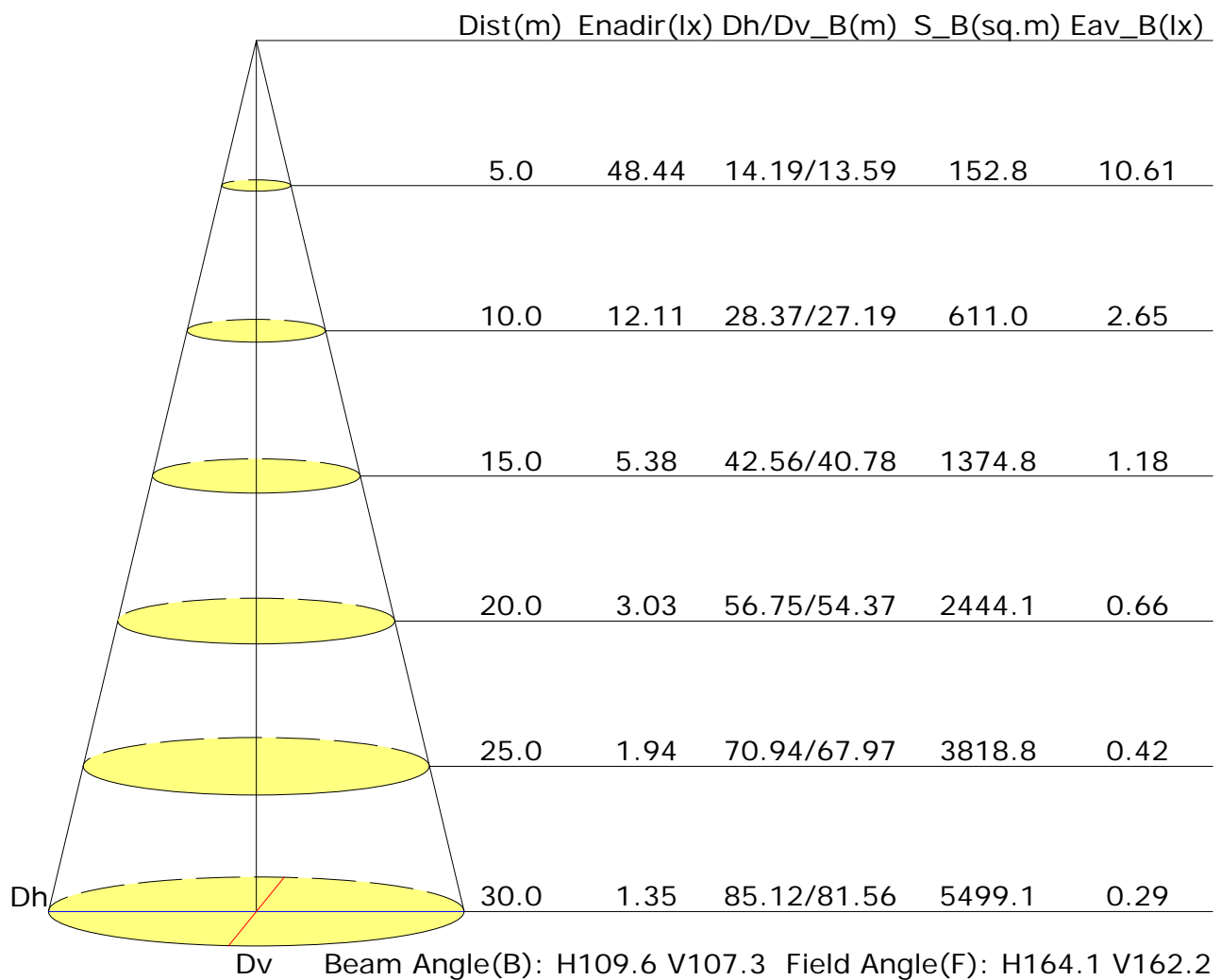
Test Device: LSG-1800B

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	19.7	21.1	20.0	21.3	21.6	21.0	22.4	21.3	22.7	22.9
3H	20.9	22.1	21.2	22.4	22.7	22.5	23.8	22.9	24.1	24.4
4H	21.3	22.5	21.6	22.8	23.1	23.1	24.3	23.5	24.6	24.9
6H	21.6	22.7	22.0	23.0	23.3	23.6	24.7	24.0	25.0	25.4
8H	21.7	22.7	22.0	23.1	23.4	23.7	24.8	24.1	25.1	25.5
12H	21.7	22.7	22.1	23.1	23.4	23.8	24.9	24.2	25.2	25.5
X=4H Y=2H	20.3	21.5	20.6	21.8	22.1	21.4	22.6	21.7	22.9	23.2
3H	21.6	22.7	22.0	23.0	23.4	23.0	24.1	23.4	24.4	24.8
4H	22.2	23.1	22.6	23.5	23.9	23.7	24.7	24.2	25.0	25.4
6H	22.6	23.4	23.0	23.8	24.2	24.3	25.1	24.7	25.5	25.9
8H	22.7	23.5	23.1	23.9	24.3	24.5	25.2	24.9	25.6	26.1
12H	22.8	23.5	23.2	23.9	24.3	24.6	25.3	25.1	25.7	26.2
X=8H Y=4H	22.4	23.2	22.9	23.6	24.0	23.9	24.6	24.3	25.0	25.5
6H	22.9	23.6	23.4	24.0	24.5	24.5	25.1	25.0	25.6	26.0
8H	23.1	23.7	23.6	24.1	24.6	24.8	25.3	25.2	25.8	26.2
12H	23.3	23.7	23.8	24.2	24.7	24.9	25.4	25.4	25.9	26.4
X=12H Y=4H	22.5	23.1	22.9	23.6	24.0	23.9	24.5	24.3	25.0	25.4
6H	23.0	23.5	23.5	24.0	24.5	24.5	25.1	25.0	25.5	26.0
8H	23.2	23.7	23.7	24.2	24.7	24.8	25.3	25.3	25.7	26.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.6					+0.3/-0.4				
S=2.0H	+0.6/-1.2					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3374Im ($8\log(F/F_0) = 4.2$).

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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	0.57	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.30		0.49	0.59	0.67	0.72	0.81	0.86	0.90	0.96	0.99
	0.20		0.43	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.30		0.48	0.58	0.65	0.71	0.78	0.84	0.87	0.92	0.96
	0.20		0.43	0.53	0.60	0.66	0.74	0.79	0.84	0.89	0.93
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.89	0.92
	0.20		0.42	0.52	0.59	0.65	0.72	0.78	0.81	0.87	0.90
0.00	0.00	0.00	0.40	0.50	0.56	0.62	0.69	0.74	0.77	0.82	0.85
Rating: 30W 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	0.70	0.62	0.49	0.41	0.35	0.27	0.22	
	0.30		0.83	0.71	0.61	0.54	0.45	0.38	0.32	0.26	0.21	
	0.20		0.71	0.62	0.54	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.42	0.33	0.26	0.21	
	0.30		0.81	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.93	0.76	0.65	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.18	0.15	
Rating: 30W 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	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.20	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.17	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
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: 30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												