

Report No.:

Test Time: 16.04.2020 11:04

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FT 185 47W 3000K linza 20-90 gr. N IPS 50-382

Luminous Length (mm): 587

Luminous Width (mm): 177

Luminous Height (mm): 73

Voltage: 228.9 V

Current: 0.224 A

Power: 50.18 W

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 6764.4 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 6764.4 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.6, 141.2, 134.3, 133.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.4, 46.6, 60.3, 59.3

Luminaire Efficacy Rating (LER): 134.85

Central Intensity: 2547.69 cd

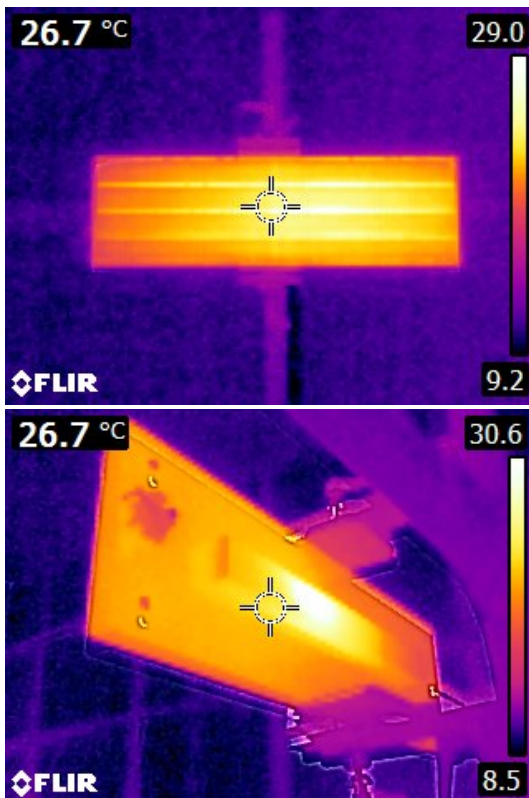
Max. Intensity: 4596 cd

Pos of Max. Intensity: H90 V24

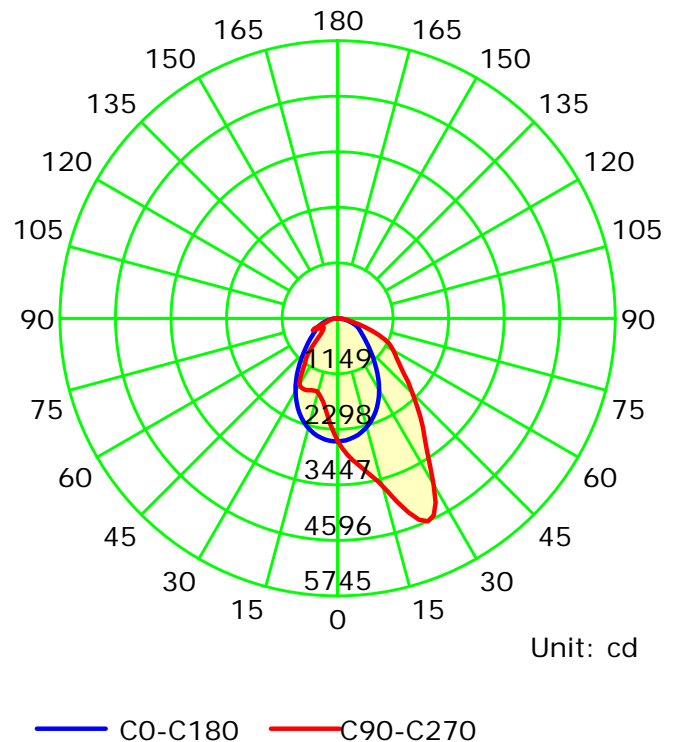
S/MH(C0/C180): 1.06

S/MH(C90/C270): 1.37

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

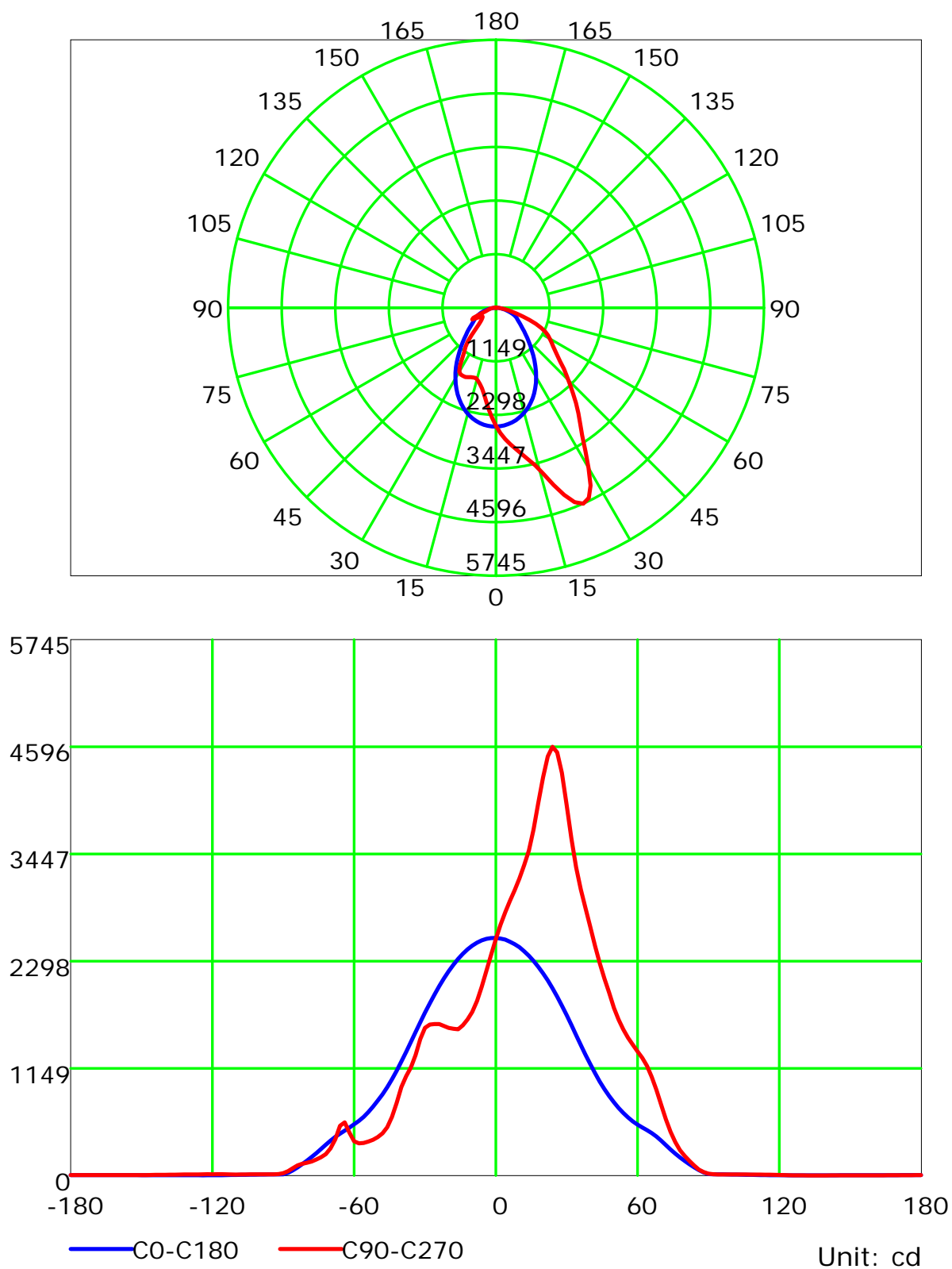
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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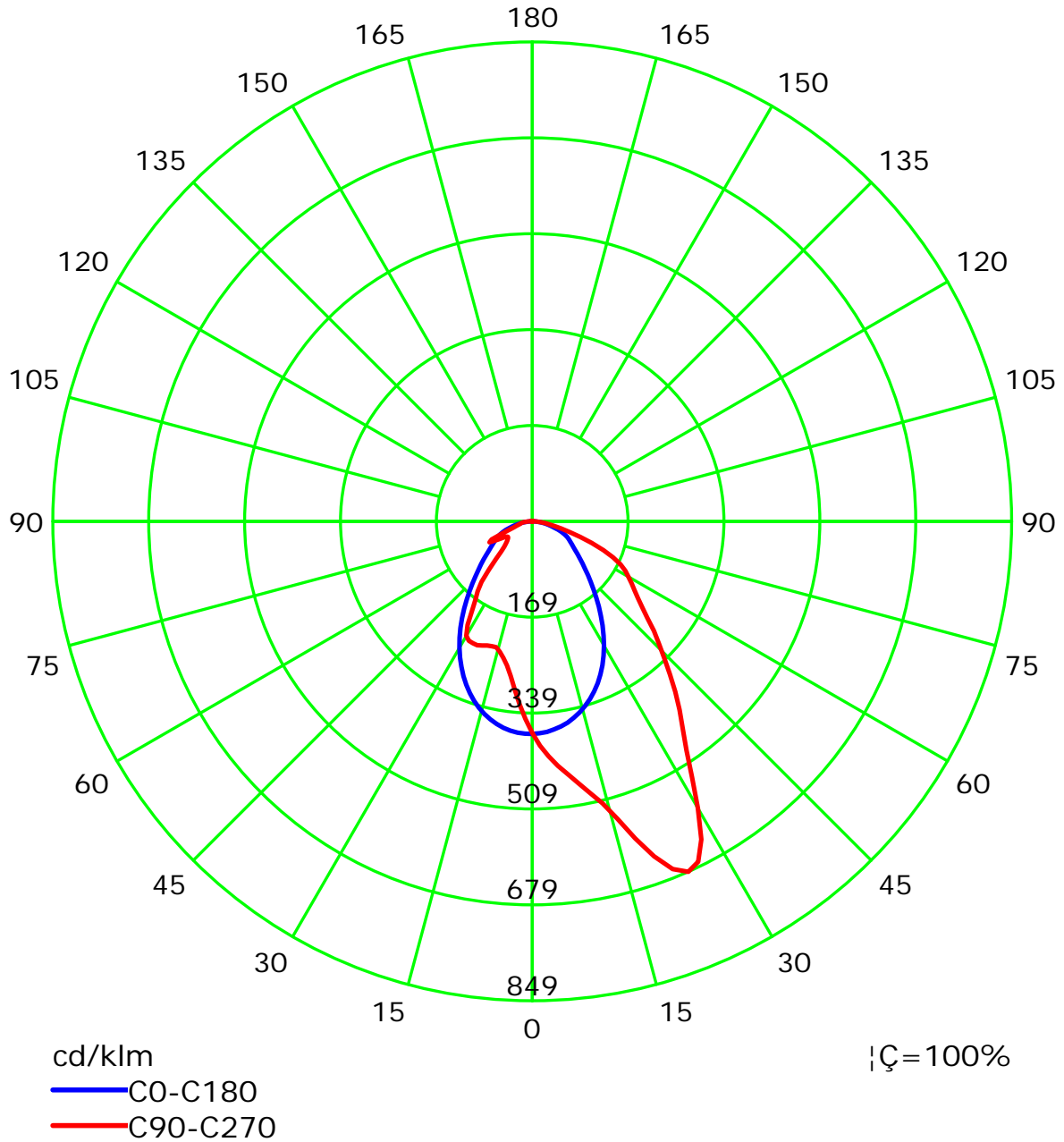
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°): 0.0-360.0: 22.5

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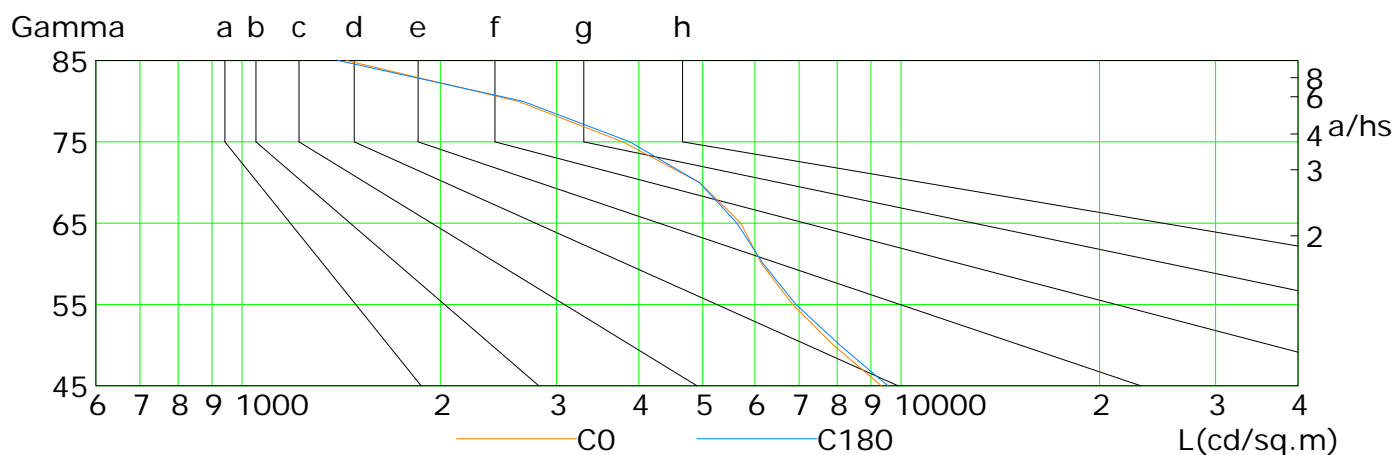
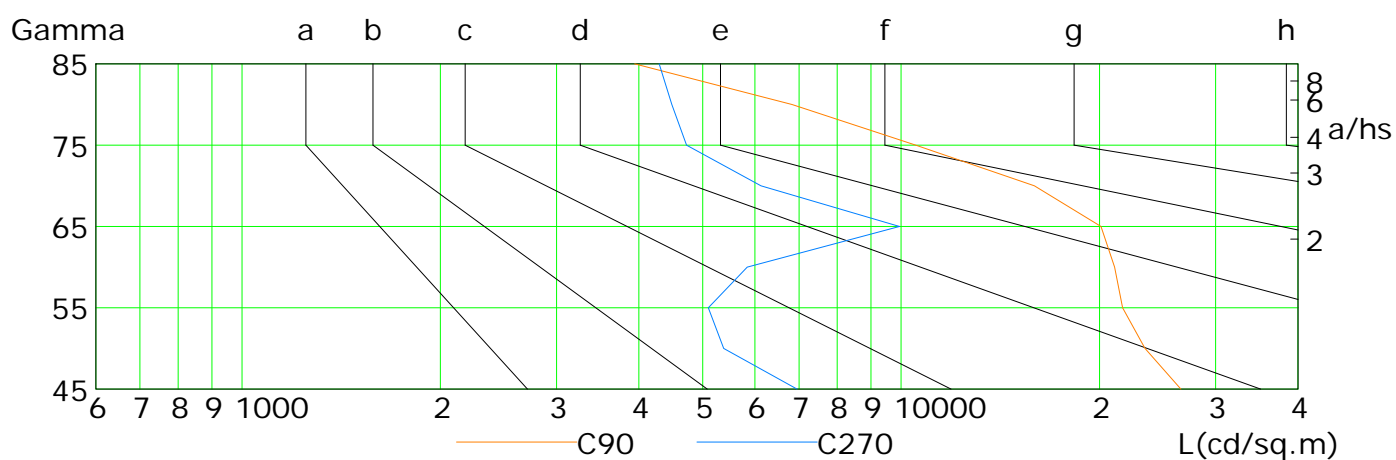
Humidity:

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	9331	7894	6846	6142	5711	4943	3782	2620	1441
C90	26570	23443	21681	21084	20105	15932	10525	6829	3943
C180	9547	8076	6924	6178	5636	4942	3877	2665	1400
C270	6949	5381	5098	5840	9940	6128	4726	4490	4295

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Test Type: TYPE C

Temperature:

Operator:

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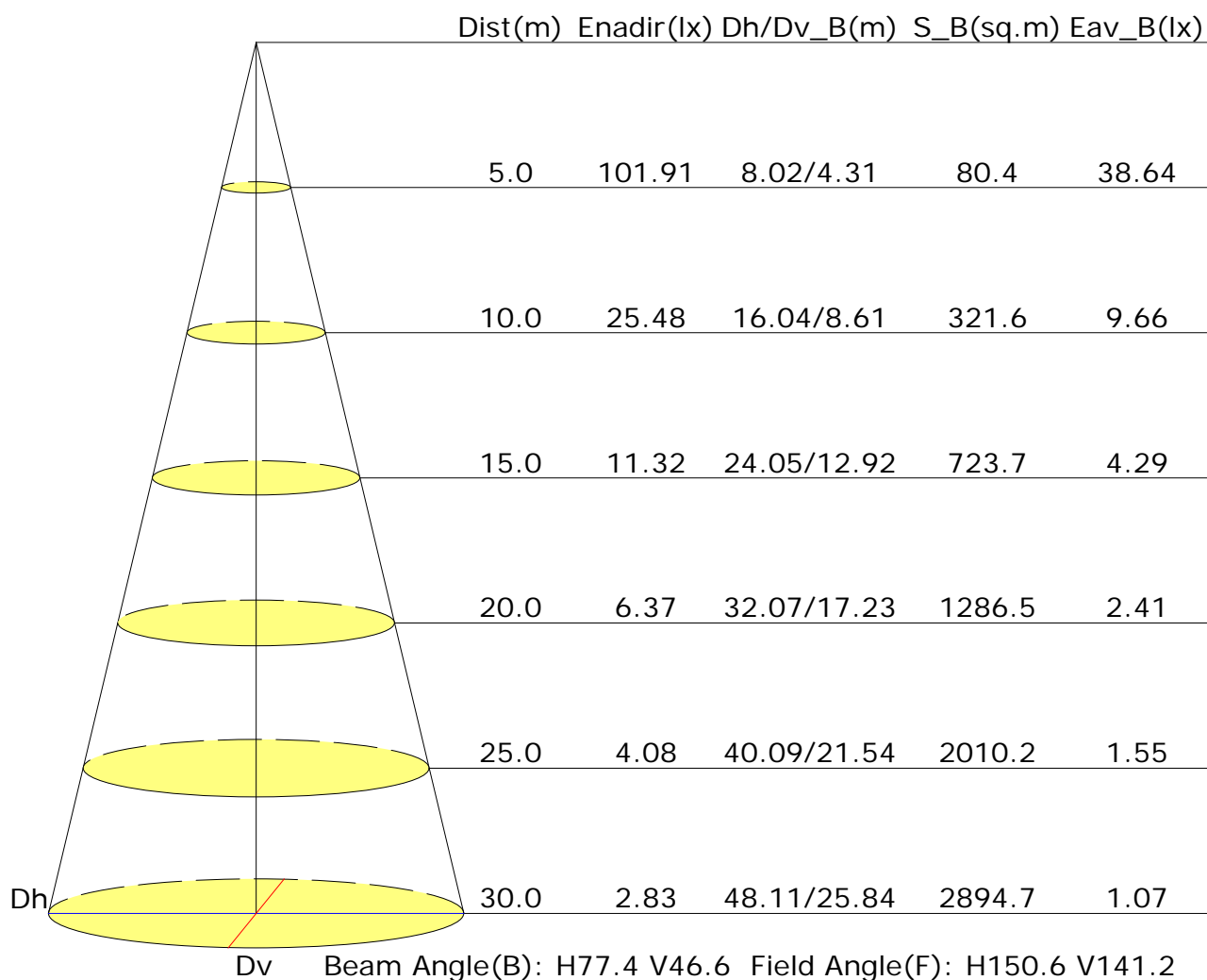
Test Device: LSG-1800B

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	20.8	22.2	21.2	22.4	22.7	22.1	23.4	22.4	23.6	23.9
3H	21.5	22.7	21.9	23.0	23.3	23.4	24.6	23.8	24.9	25.2
4H	21.7	22.9	22.1	23.2	23.5	23.7	24.9	24.1	25.1	25.5
6H	21.9	22.9	22.2	23.2	23.5	23.9	24.9	24.2	25.2	25.6
8H	21.9	22.9	22.3	23.2	23.6	23.9	24.9	24.3	25.2	25.6
12H	21.9	22.8	22.3	23.2	23.5	23.9	24.9	24.3	25.2	25.6
X=4H Y=2H	21.4	22.5	21.8	22.8	23.2	22.5	23.6	22.8	23.9	24.2
3H	22.3	23.3	22.7	23.6	24.0	24.0	24.9	24.3	25.3	25.6
4H	22.7	23.5	23.1	23.9	24.3	24.4	25.2	24.8	25.6	26.0
6H	22.9	23.6	23.3	24.0	24.4	24.6	25.3	25.0	25.7	26.1
8H	22.9	23.6	23.4	24.0	24.5	24.6	25.3	25.1	25.8	26.2
12H	22.9	23.6	23.4	24.0	24.4	24.7	25.3	25.1	25.7	26.2
X=8H Y=4H	22.9	23.6	23.4	24.0	24.5	24.5	25.2	24.9	25.6	26.0
6H	23.2	23.8	23.7	24.2	24.7	24.8	25.3	25.2	25.8	26.3
8H	23.3	23.8	23.8	24.3	24.8	24.9	25.4	25.4	25.8	26.3
12H	23.4	23.8	23.9	24.3	24.8	24.9	25.4	25.5	25.9	26.4
X=12H Y=4H	22.9	23.6	23.4	24.0	24.4	24.4	25.1	24.9	25.5	26.0
6H	23.3	23.8	23.8	24.2	24.7	24.8	25.3	25.3	25.7	26.2
8H	23.4	23.8	23.9	24.3	24.8	24.9	25.3	25.4	25.8	26.3
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.7					+0.6/-0.7				
S=1.5H	+1.1/-1.8					+1.2/-1.4				
S=2.0H	+1.8/-2.7					+1.1/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 6764lm ($8\log(F/F_0) = 6.6$).

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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	0.61	0.71	0.78	0.83	0.90	0.94	0.98	1.02	1.04	
	0.30		0.54	0.64	0.71	0.76	0.84	0.89	0.93	0.98	1.01	
	0.20		0.48	0.58	0.66	0.71	0.79	0.85	0.89	0.95	0.98	
0.50	0.50	0.20	0.59	0.69	0.75	0.80	0.86	0.91	0.94	0.98	1.00	
	0.30		0.53	0.63	0.69	0.75	0.82	0.86	0.90	0.94	0.97	
	0.20		0.48	0.58	0.65	0.70	0.78	0.83	0.87	0.92	0.95	
0.30	0.50	0.20	0.58	0.67	0.73	0.78	0.84	0.87	0.90	0.94	0.96	
	0.30		0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.20		0.48	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.45	0.55	0.61	0.66	0.73	0.77	0.80	0.84	0.87	
Rating: 50W 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	0.93	0.76	0.65	0.56	0.45	0.37	0.32	0.25	0.20	
	0.30		0.78	0.65	0.56	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.67	0.57	0.50	0.45	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.89	0.73	0.62	0.54	0.43	0.39	0.30	0.23	0.19	
	0.30		0.76	0.63	0.55	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.66	0.56	0.49	0.43	0.36	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	0.87	0.70	0.59	0.51	0.40	0.33	0.28	0.22	0.18	
	0.30		0.74	0.62	0.53	0.46	0.37	0.31	0.27	0.21	0.17	
	0.20		0.65	0.55	0.48	0.42	0.35	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.54	0.45	0.38	0.34	0.27	0.22	0.19	0.15	0.12	
Rating: 50W 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	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.30	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.20	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	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: 50W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												