

Report No.:

Test Time: 26.05.2020 16:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 2x96LED 0,35A 34W 4000K frozen

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.7 V

Current: 0.158 A

Power: 34.70 W

Power Factor: 0.986

Photometric Results

CIE Class: Direct

Measurement Flux: 4454.7 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 4454.7 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.3, 150.2, 152.6, 152.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.1, 90.0, 94.3, 94.9

Luminaire Efficacy Rating (LER): 128.43

Central Intensity: 1906.14 cd

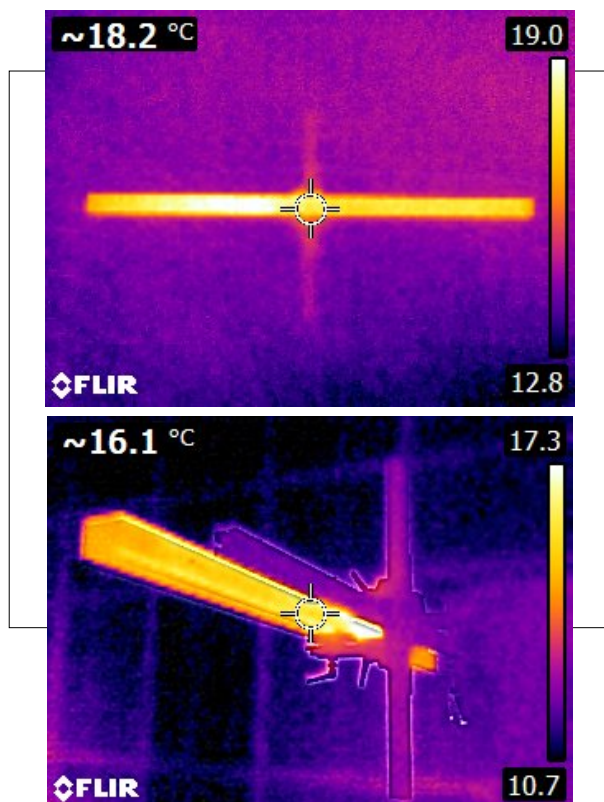
Max. Intensity: 1909.31 cd

Pos of Max. Intensity: H90 V2

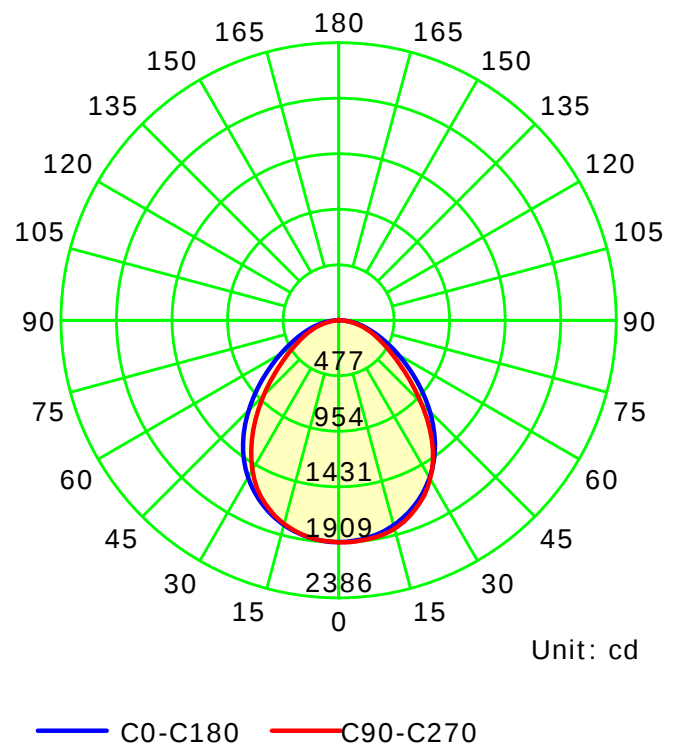
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.19

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

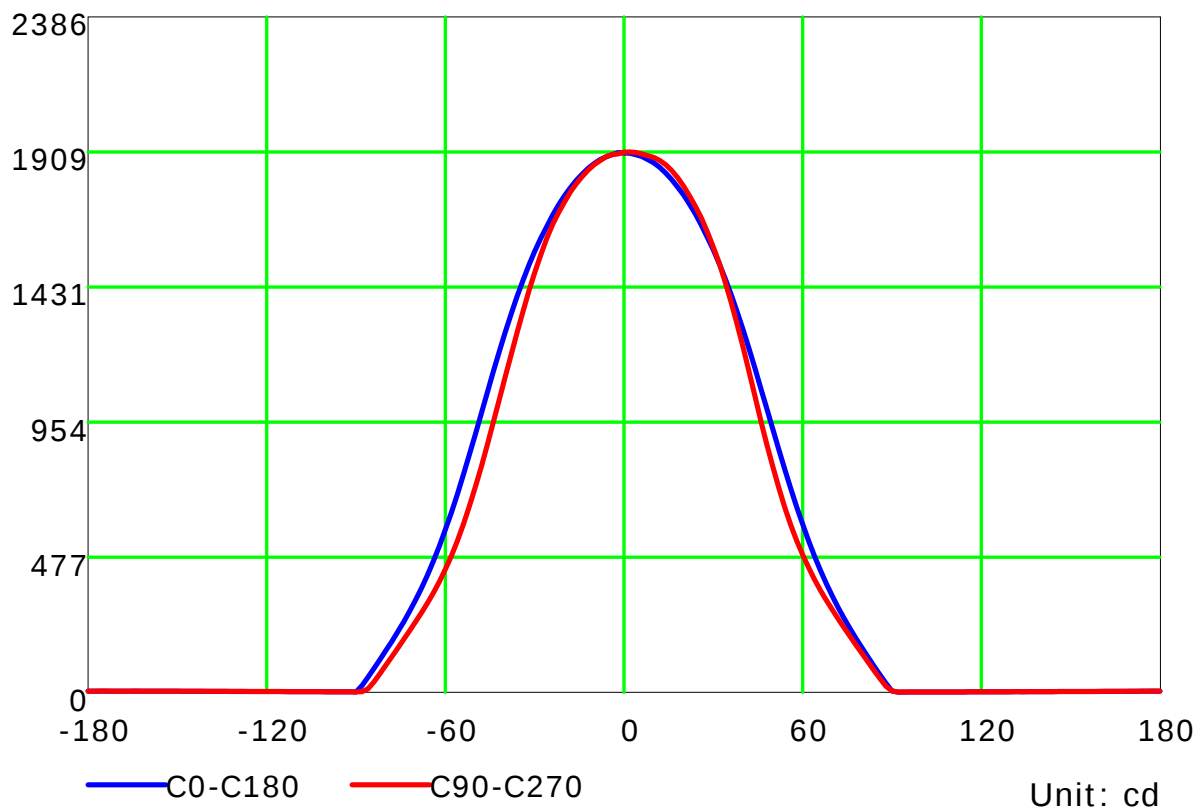
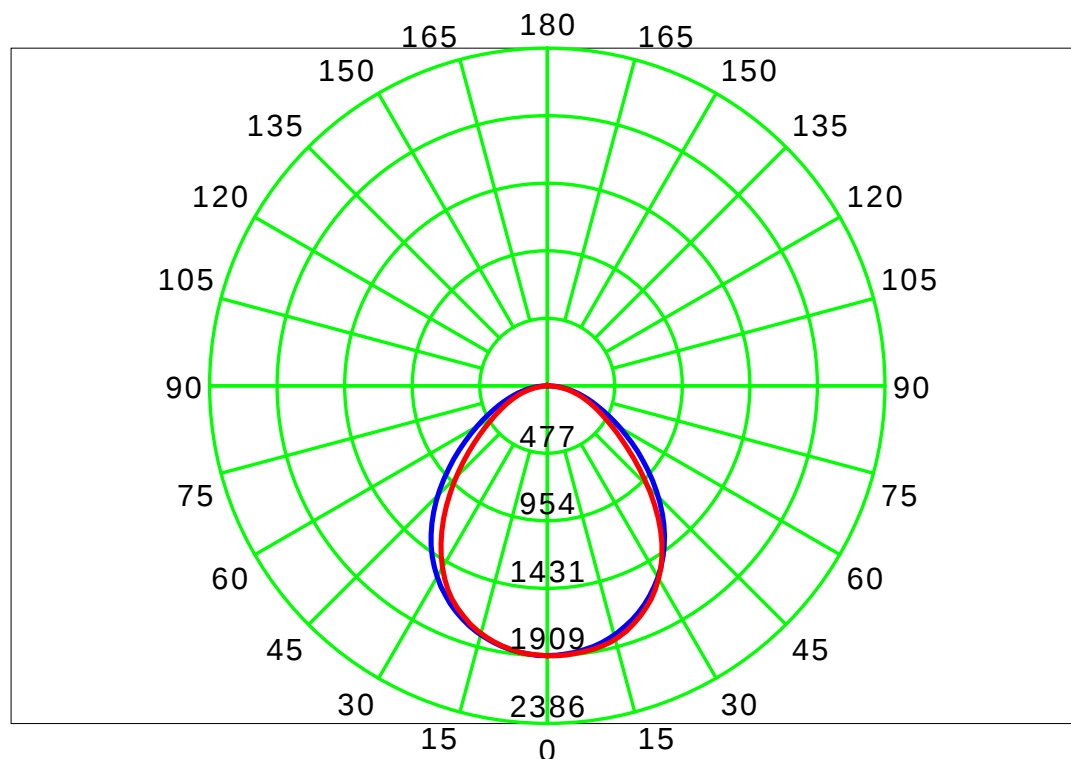
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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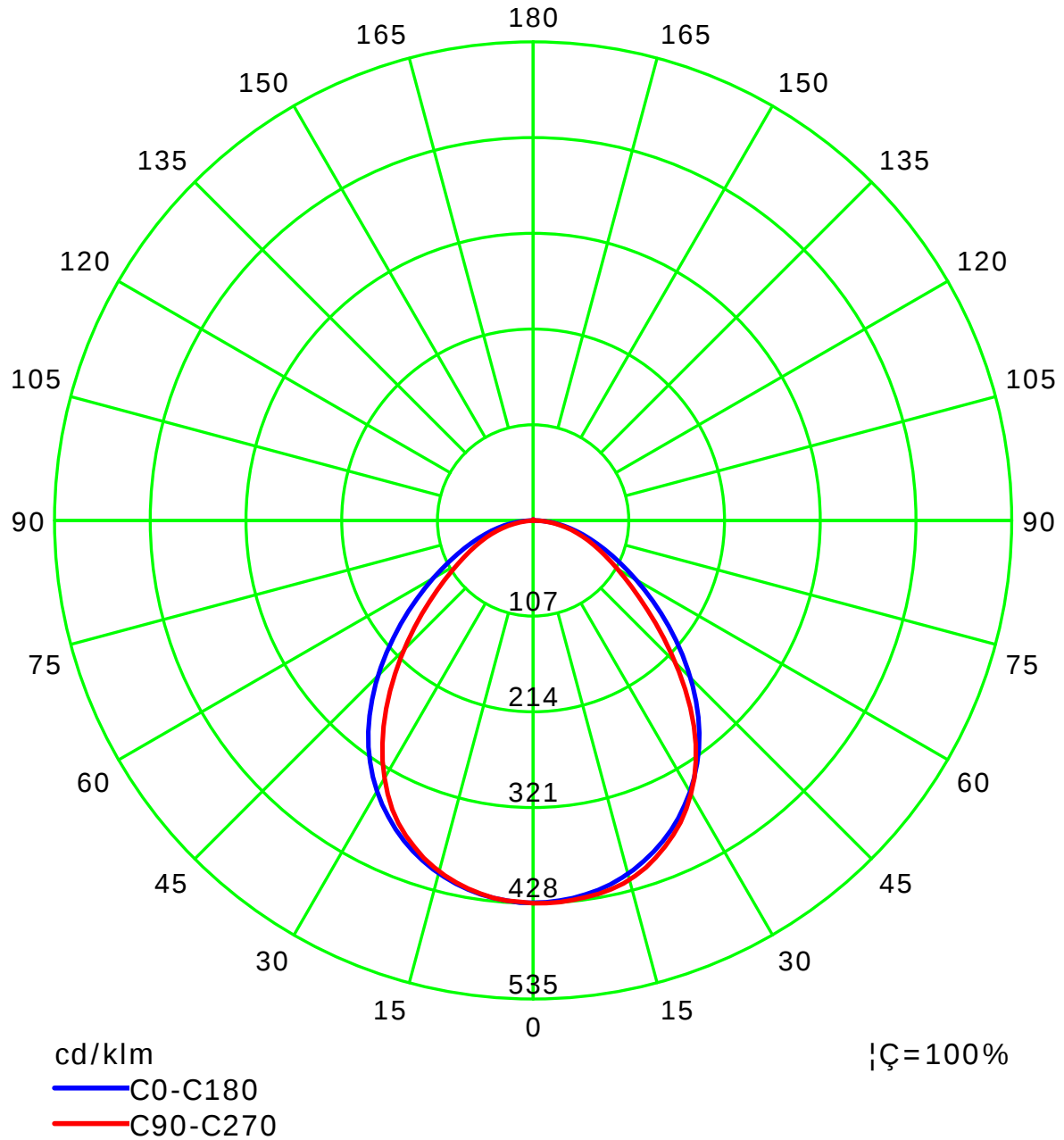
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°): 0.0-360.0: 22.5

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Test Device: LSG-1800B

Distance: 12.677 m

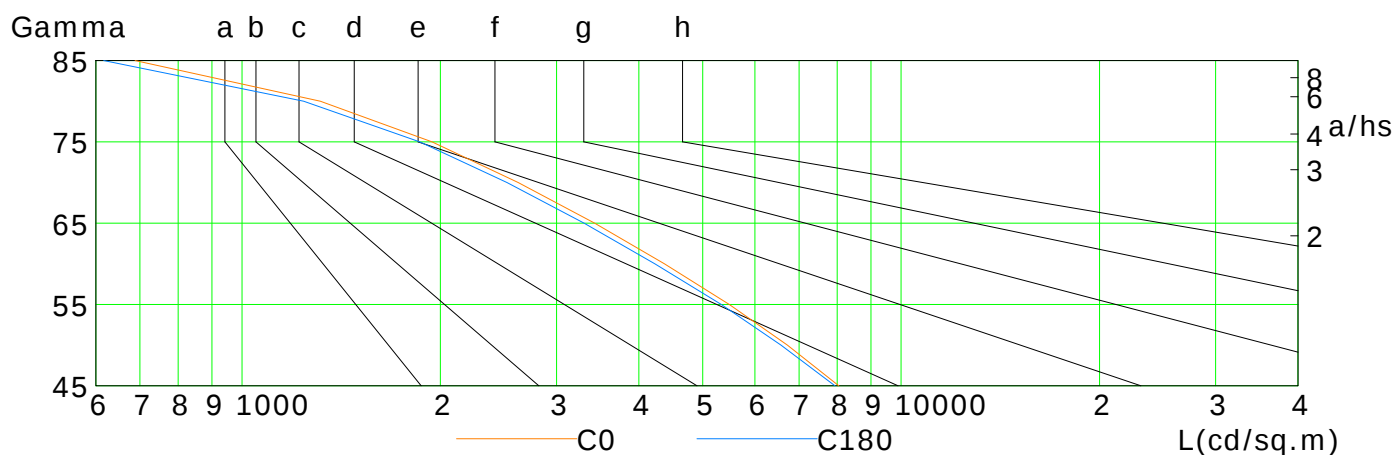
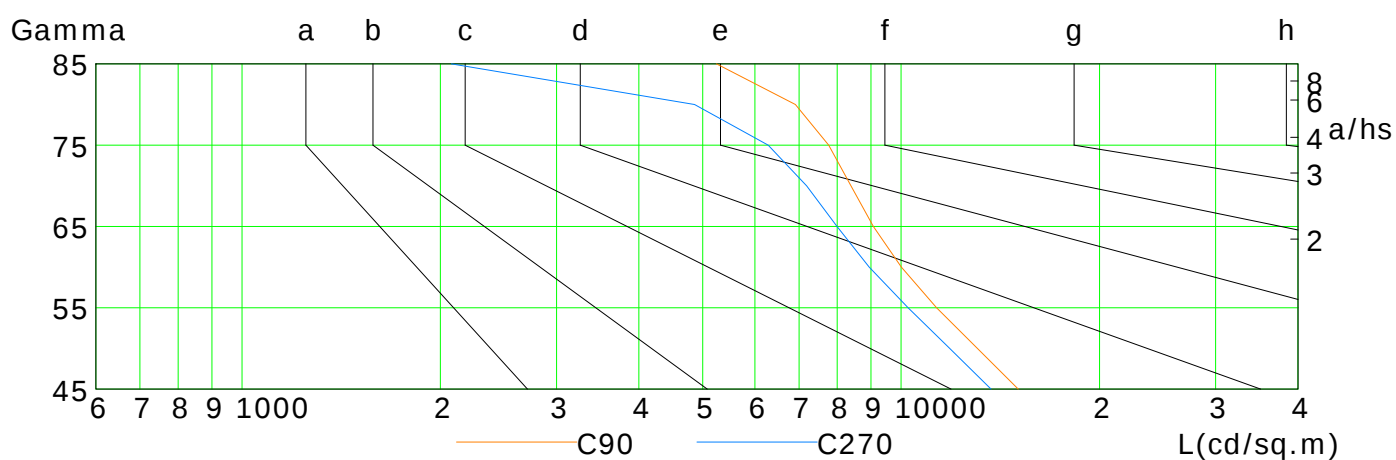
Humidity:

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	8045	6722	5486	4375	3428	2624	1942	1314	688
C90	15058	13057	11320	10006	9076	8390	7765	6912	5246
C180	7934	6573	5334	4231	3304	2523	1860	1241	617
C270	13691	11848	10243	8946	7992	7188	6285	4860	2078

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Test Type: TYPE C

Temperature:

Operator:

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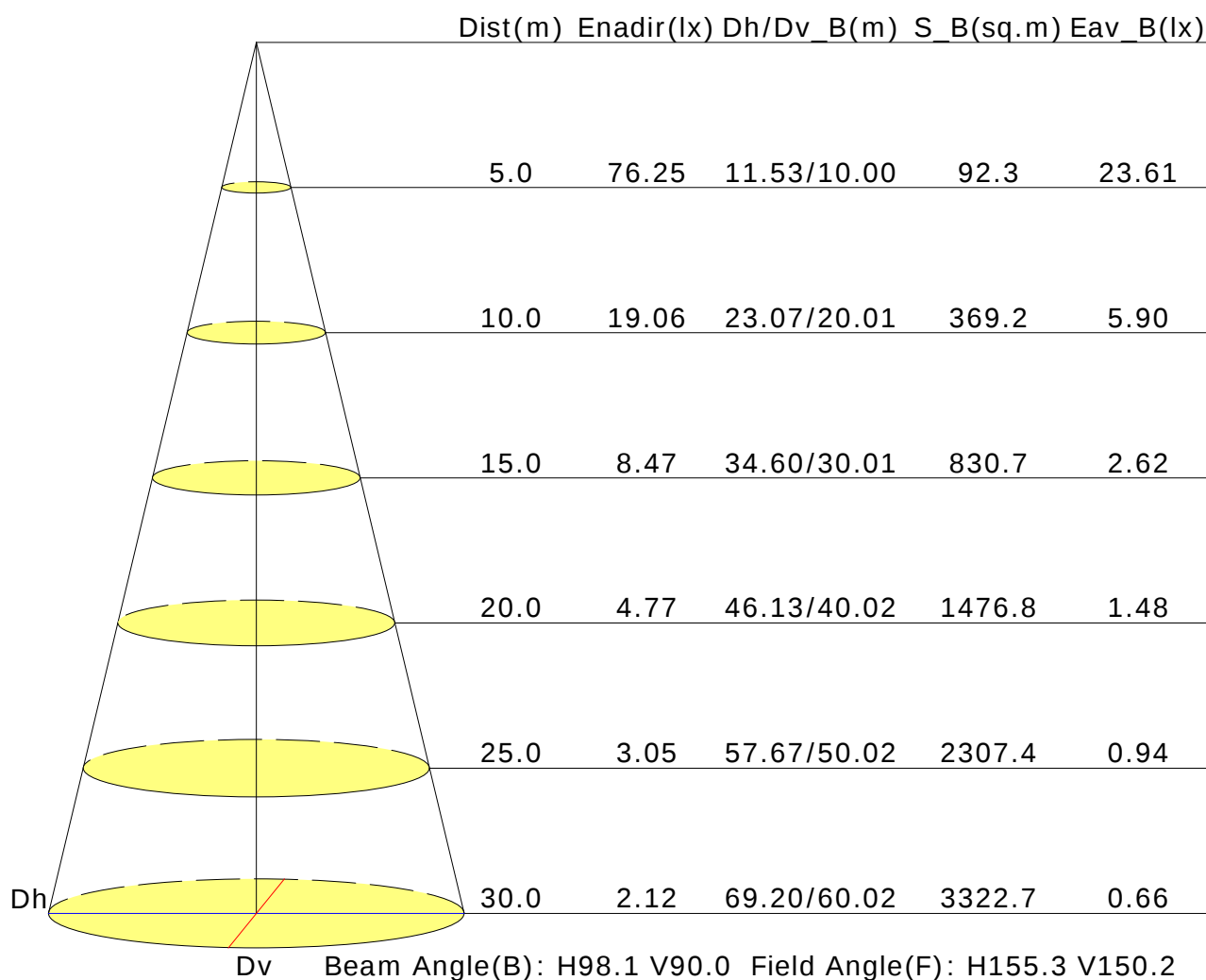
Test Device: LSG-1800B

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	18.5	19.8	18.8	20.0	20.3	19.2	20.5	19.5	20.7	20.9
3H	19.2	20.4	19.6	20.7	21.0	20.2	21.4	20.5	21.6	21.9
4H	19.5	20.6	19.8	20.9	21.2	20.6	21.7	21.0	22.0	22.3
6H	19.7	20.7	20.0	21.0	21.3	20.9	22.0	21.3	22.3	22.6
8H	19.7	20.7	20.1	21.0	21.3	21.0	22.0	21.4	22.3	22.7
12H	19.7	20.7	20.1	21.0	21.3	21.1	22.0	21.5	22.4	22.7
X=4H Y=2H	18.8	19.9	19.2	20.2	20.5	19.4	20.5	19.8	20.8	21.1
3H	19.8	20.7	20.1	21.0	21.4	20.6	21.5	21.0	21.8	22.2
4H	20.1	21.0	20.5	21.3	21.7	21.1	21.9	21.5	22.3	22.7
6H	20.4	21.1	20.8	21.5	21.9	21.5	22.2	21.9	22.6	23.0
8H	20.4	21.1	20.9	21.5	22.0	21.6	22.3	22.1	22.7	23.2
12H	20.5	21.1	20.9	21.5	22.0	21.7	22.3	22.2	22.7	23.2
X=8H Y=4H	20.3	20.9	20.7	21.3	21.8	21.2	21.9	21.6	22.3	22.7
6H	20.6	21.1	21.1	21.6	22.1	21.6	22.2	22.1	22.6	23.1
8H	20.7	21.2	21.2	21.7	22.1	21.8	22.3	22.3	22.8	23.3
12H	20.8	21.2	21.3	21.7	22.2	21.9	22.3	22.4	22.8	23.3
X=12H Y=4H	20.3	20.9	20.7	21.3	21.7	21.1	21.8	21.6	22.2	22.6
6H	20.6	21.1	21.1	21.6	22.0	21.6	22.1	22.1	22.6	23.1
8H	20.7	21.2	21.2	21.6	22.1	21.8	22.3	22.3	22.7	23.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.4				
S=1.5H	+0.6/-1.1					+0.7/-0.9				
S=2.0H	+1.2/-1.8					+1.5/-1.6				

Calculate in accordance with CIE Pub.117. The table is revised with 4455lm ($8\log(F/F_0) = 5.2$).

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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	0.62	0.72	0.79	0.84	0.90	0.95	0.98	1.02	1.05	
	0.30		0.55	0.65	0.72	0.77	0.85	0.90	0.94	0.98	1.02	
	0.20		0.50	0.60	0.67	0.72	0.80	0.86	0.90	0.95	0.99	
0.50	0.50	0.20	0.61	0.70	0.76	0.81	0.87	0.92	0.94	0.98	1.01	
	0.30		0.54	0.64	0.71	0.76	0.83	0.87	0.91	0.95	0.98	
	0.20		0.49	0.59	0.66	0.71	0.79	0.84	0.87	0.92	0.96	
0.30	0.50	0.20	0.59	0.68	0.74	0.79	0.84	0.88	0.91	0.94	0.97	
	0.30		0.53	0.63	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.20		0.49	0.59	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.47	0.56	0.63	0.67	0.74	0.78	0.81	0.85	0.88	
Rating:35W 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	0.92	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.20	
	0.30		0.76	0.64	0.55	0.49	0.40	0.33	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.36	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.88	0.72	0.61	0.53	0.42	0.38	0.29	0.23	0.19	
	0.30		0.75	0.62	0.54	0.47	0.38	0.32	0.27	0.21	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.85	0.69	0.58	0.50	0.40	0.33	0.28	0.21	0.18	
	0.30		0.73	0.61	0.52	0.45	0.37	0.31	0.26	0.21	0.17	
	0.20		0.64	0.54	0.47	0.42	0.34	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.53	0.44	0.37	0.33	0.26	0.22	0.19	0.15	0.12	
Rating:35W 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	0.22	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	0.08	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	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	0.07	0.08	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	0.17	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	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:35W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												