

Report No.:

Test Time: 26.06.2020 12:56

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60 24W 4000K microprisma ИПС35-300ТД s soedineniem

Luminous Length (mm): 1500

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 221.9 V

Current: 0.115 A

Power: 24.87 W

Power Factor: 0.969

Photometric Results

CIE Class: Direct

Measurement Flux: 3113.5 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3113.5 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.2, 154.3, 145.9, 148.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 77.8, 73.9, 73.8, 73.9

Luminaire Efficacy Rating (LER): 125.24

Central Intensity: 1674.54 cd

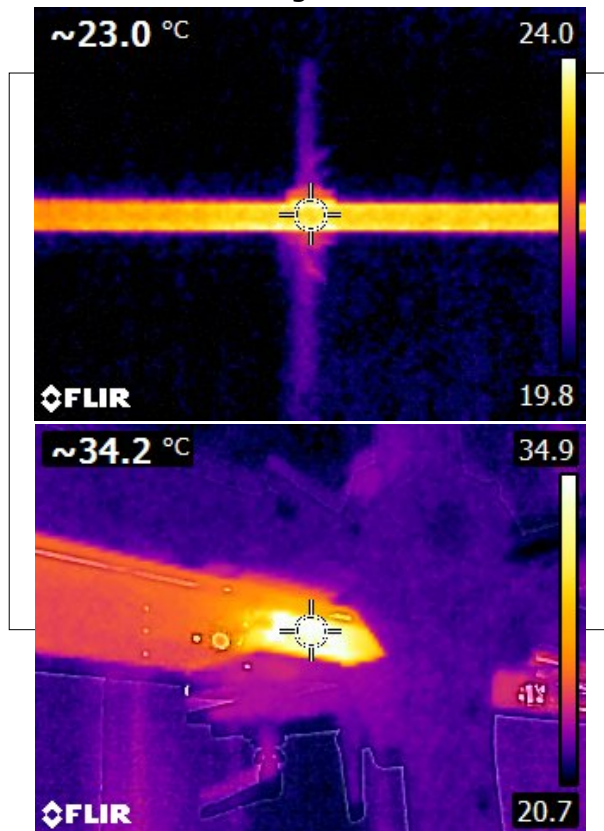
Max. Intensity: 1676.42 cd

Pos of Max. Intensity: H90 V2

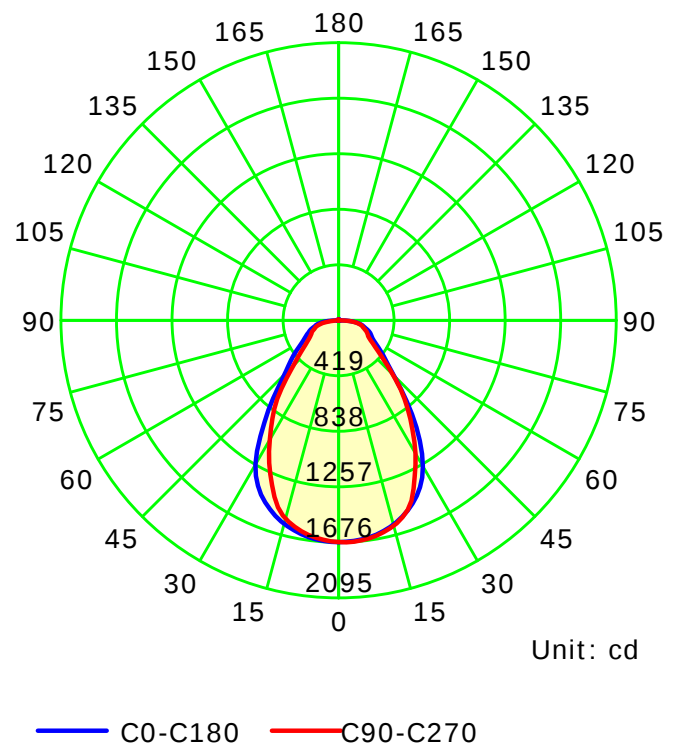
S/MH(C0/C180): 1.14

S/MH(C90/C270): 1.04

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

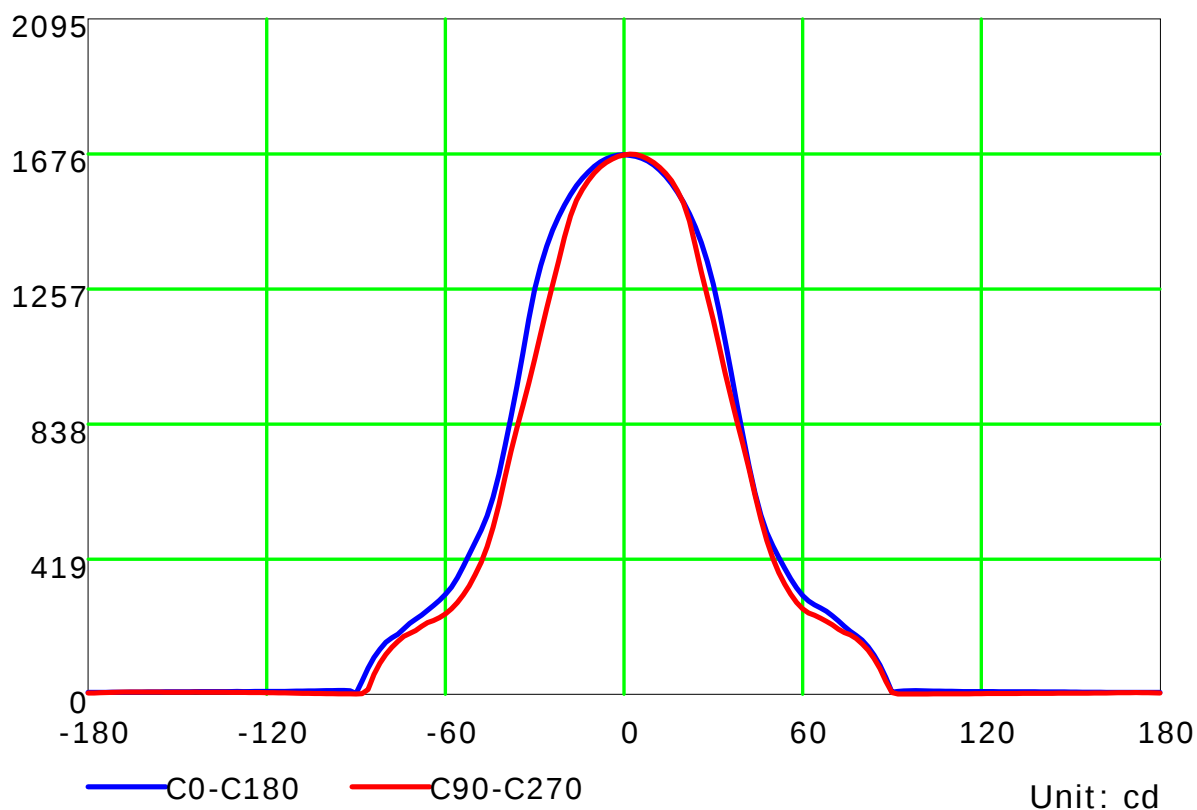
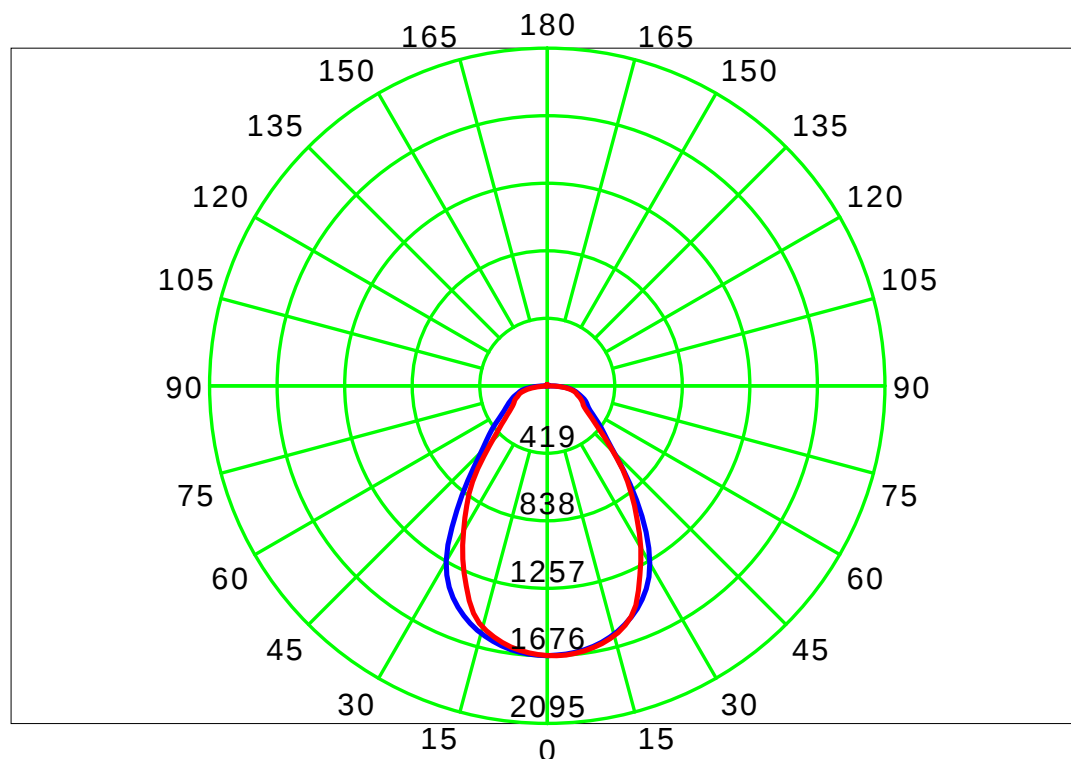
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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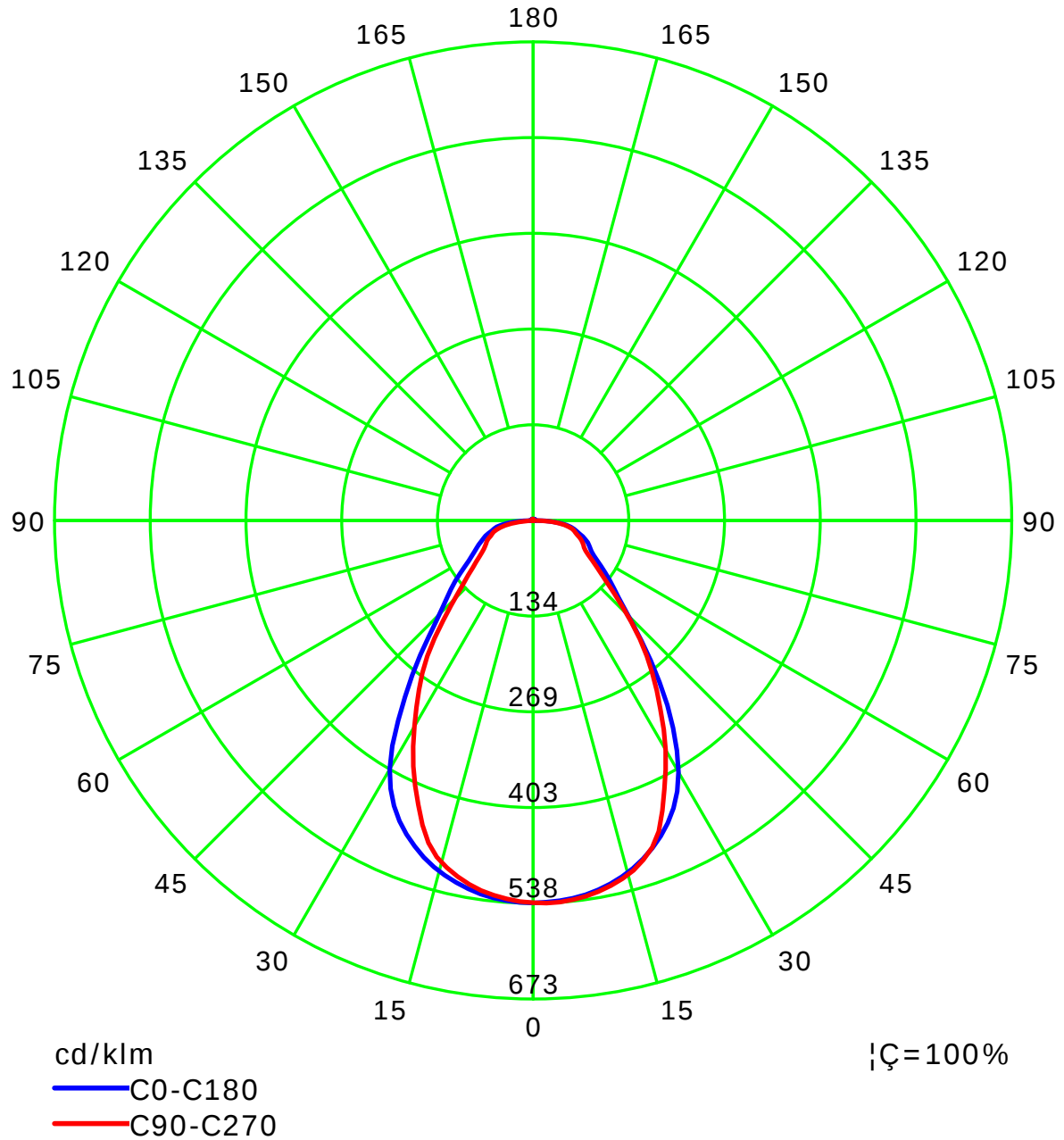
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

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Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

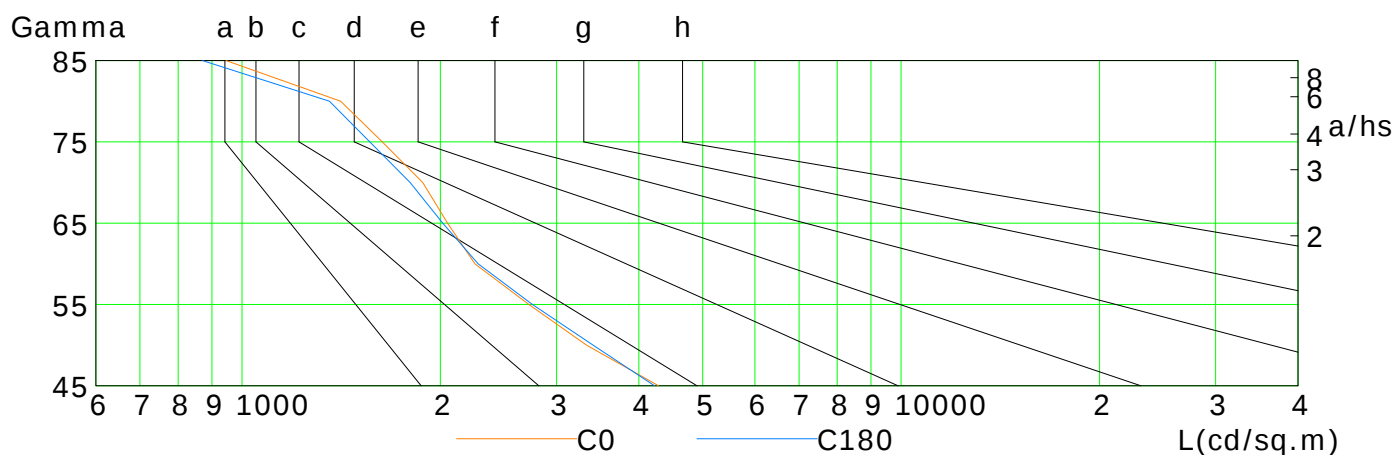
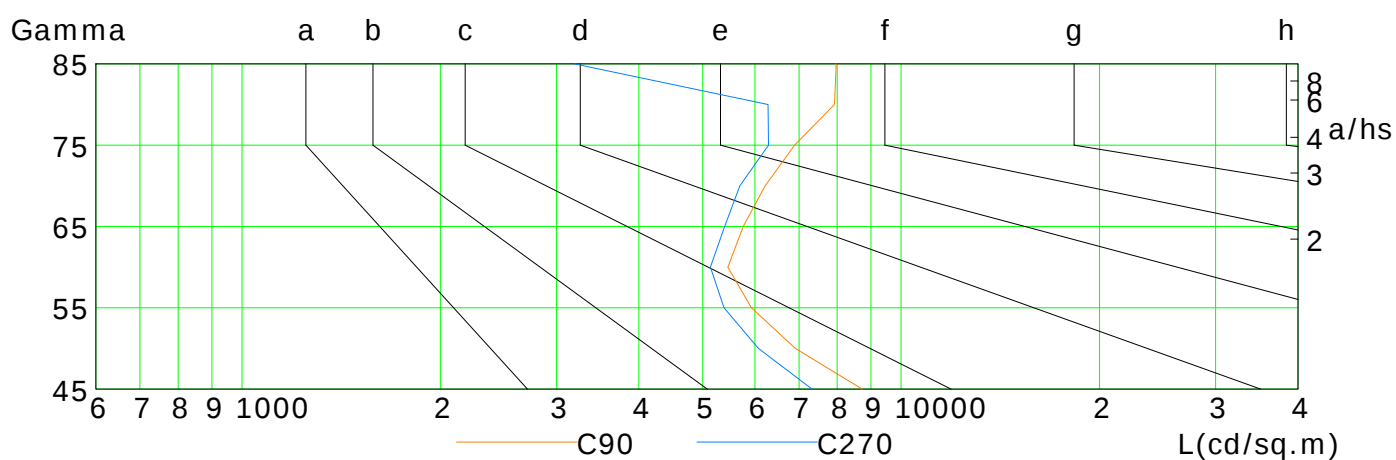
Humidity:

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	4286	3332	2724	2256	2051	1880	1632	1411	946
C90	8728	6910	5928	5460	5759	6217	6891	7922	7971
C180	4226	3409	2757	2282	2016	1799	1563	1357	871
C270	7327	6075	5387	5135	5397	5693	6293	6281	3192

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

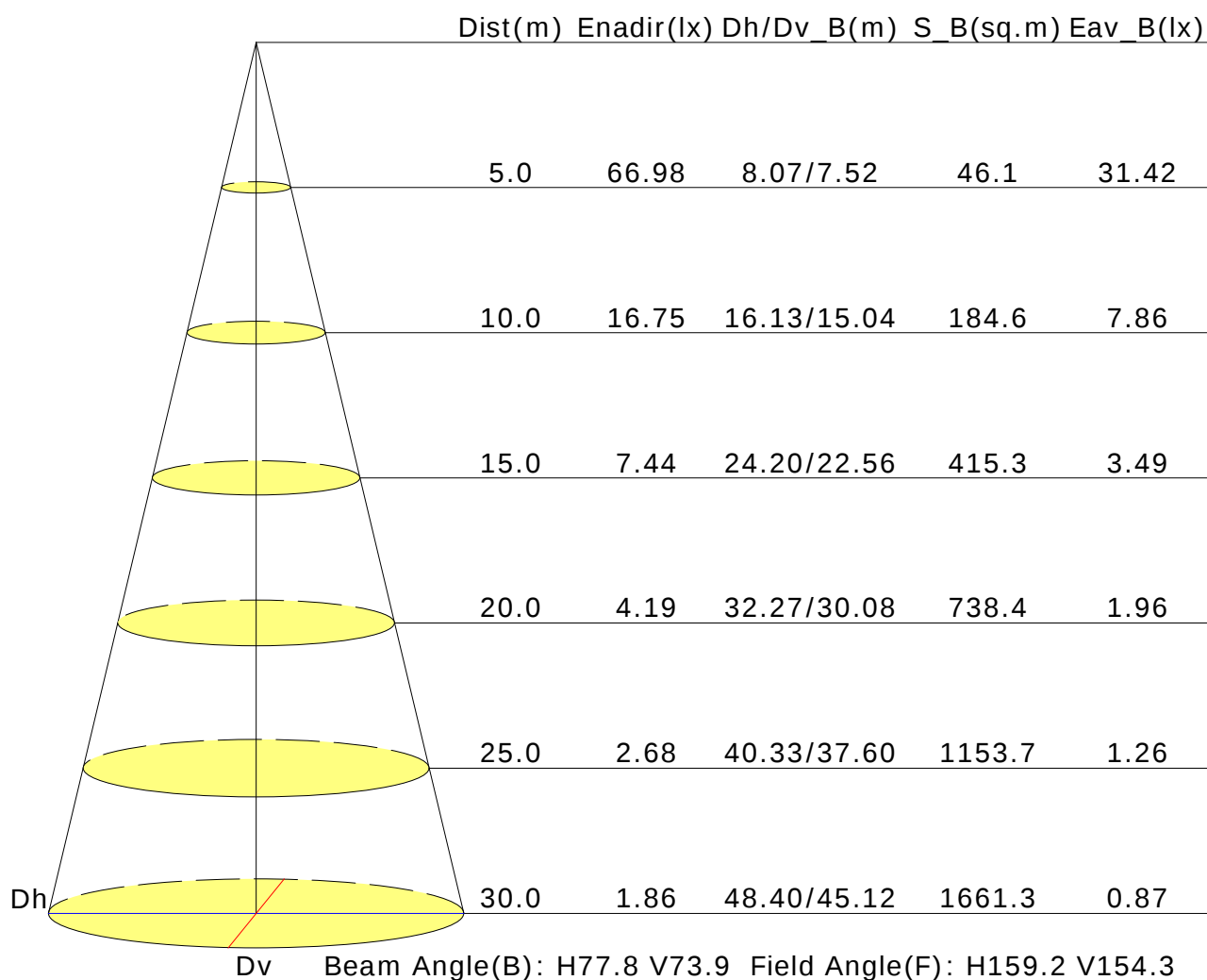
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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	15.6	16.8	15.9	17.0	17.3	16.4	17.7	16.7	17.9	18.2
3H	16.7	17.8	17.0	18.1	18.4	17.9	19.1	18.3	19.4	19.6
4H	17.2	18.3	17.6	18.6	18.9	18.9	19.9	19.2	20.2	20.5
6H	17.7	18.7	18.1	19.0	19.4	19.8	20.8	20.2	21.1	21.4
8H	17.9	18.9	18.3	19.2	19.5	20.2	21.1	20.6	21.5	21.8
12H	18.0	19.0	18.4	19.3	19.7	20.5	21.4	20.8	21.7	22.1
X=4H Y=2H	15.9	17.0	16.3	17.3	17.6	16.7	17.7	17.0	18.0	18.3
3H	17.3	18.2	17.6	18.5	18.9	18.4	19.3	18.8	19.6	20.0
4H	18.0	18.8	18.4	19.1	19.5	19.4	20.2	19.8	20.6	21.0
6H	18.6	19.3	19.0	19.7	20.2	20.5	21.2	20.9	21.6	22.0
8H	18.9	19.5	19.3	19.9	20.4	20.9	21.6	21.4	22.0	22.5
12H	19.0	19.7	19.5	20.1	20.6	21.3	21.9	21.7	22.3	22.8
X=8H Y=4H	18.2	18.9	18.6	19.3	19.7	19.5	20.2	20.0	20.6	21.0
6H	19.0	19.5	19.5	20.0	20.5	20.7	21.2	21.2	21.7	22.2
8H	19.3	19.8	19.8	20.3	20.8	21.2	21.7	21.7	22.2	22.7
12H	19.6	20.0	20.1	20.5	21.0	21.6	22.0	22.1	22.5	23.1
X=12H Y=4H	18.2	18.8	18.7	19.3	19.7	19.5	20.1	20.0	20.6	21.0
6H	19.0	19.5	19.5	20.0	20.5	20.7	21.2	21.2	21.7	22.2
8H	19.4	19.8	19.9	20.3	20.8	21.2	21.7	21.8	22.2	22.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.7/-0.9					+0.6/-0.7				
S=2.0H	+1.4/-1.2					+1.2/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 3113lm ($8\log(F/F_0) = 3.9$).

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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 = 1.00									
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	0.64	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04	
	0.30		0.57	0.66	0.72	0.77	0.85	0.89	0.93	0.98	1.01	
	0.20		0.52	0.61	0.67	0.72	0.80	0.85	0.89	0.94	0.98	
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.97	1.00	
	0.30		0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.94	0.97	
	0.20		0.51	0.60	0.66	0.71	0.78	0.83	0.87	0.91	0.95	
0.30	0.50	0.20	0.61	0.69	0.74	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.55	0.64	0.69	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.51	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92	
0.00	0.00	0.00	0.49	0.57	0.63	0.67	0.73	0.77	0.80	0.84	0.87	
Rating:25W 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 = 1.00									
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	0.89	0.73	0.63	0.55	0.44	0.37	0.32	0.25	0.20	
	0.30		0.74	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.64	0.55	0.49	0.44	0.36	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.85	0.70	0.60	0.52	0.42	0.38	0.30	0.23	0.19	
	0.30		0.72	0.61	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.63	0.54	0.47	0.42	0.35	0.30	0.26	0.21	0.18	
0.30	0.50	0.20	0.82	0.67	0.57	0.50	0.40	0.33	0.28	0.22	0.18	
	0.30		0.70	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.62	0.53	0.46	0.41	0.34	0.29	0.25	0.20	0.17	
0.00	0.00	0.00	0.51	0.42	0.37	0.32	0.26	0.22	0.19	0.15	0.13	
Rating:25W 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 = 1.00									
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	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.10	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.20	
	0.20		0.06	0.08	0.09	0.11	0.13	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	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.30	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	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.13	0.15	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:25W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												