

Report No.:

Test Time: 22.06.2020 19:04

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 60/1000 30W 4000K микропризма

Luminous Length (mm): 950

Luminous Width (mm): 60

Luminous Height (mm): 70

Voltage: 222.3 V

Current: 0.141 A

Power: 30.46 W

Power Factor: 0.966

Photometric Results

CIE Class: Direct

Measurement Flux: 3633 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 3633.0 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.8, 159.4, 146.9, 147.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.6, 74.5, 72.9, 73.4

Luminaire Efficacy Rating (LER): 119.32

Central Intensity: 1977.02 cd

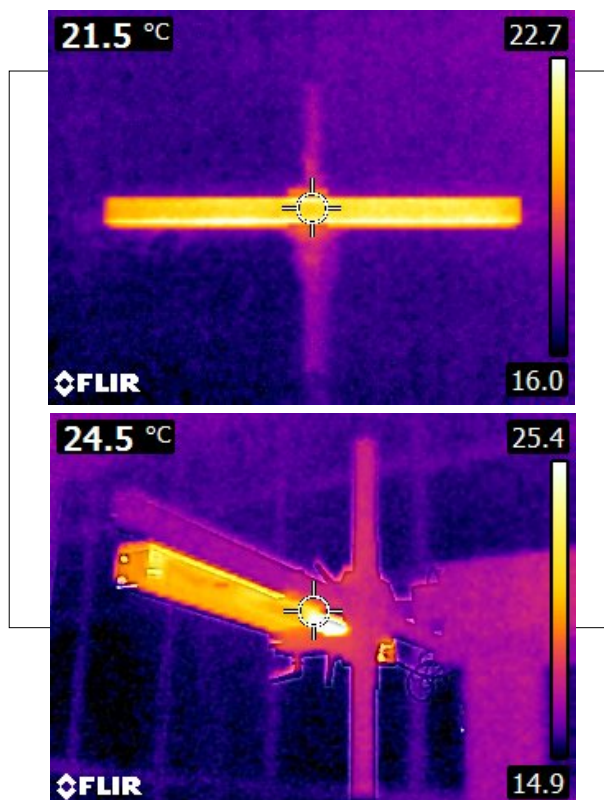
Max. Intensity: 1981.66 cd

Pos of Max. Intensity: H45 V2

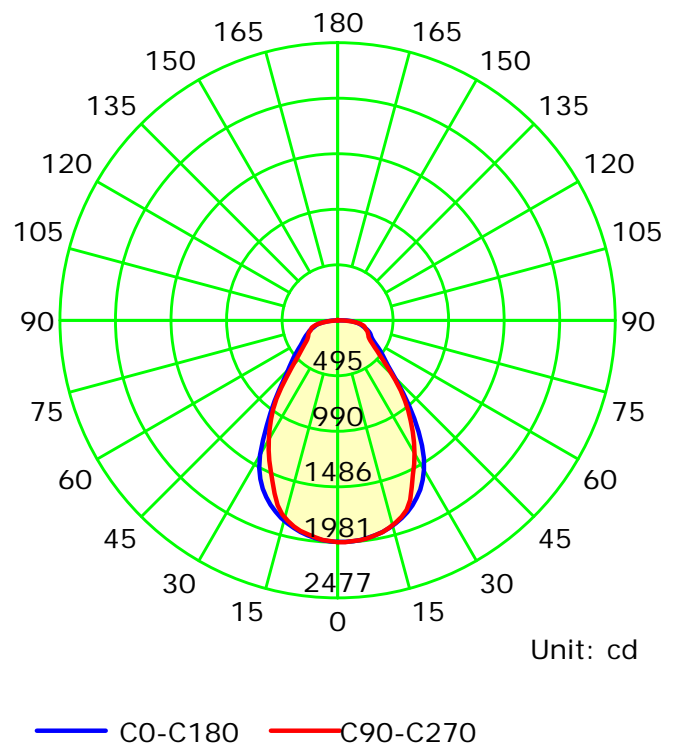
S/MH(C0/C180): 1.12

S/MH(C90/C270): 1.03

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

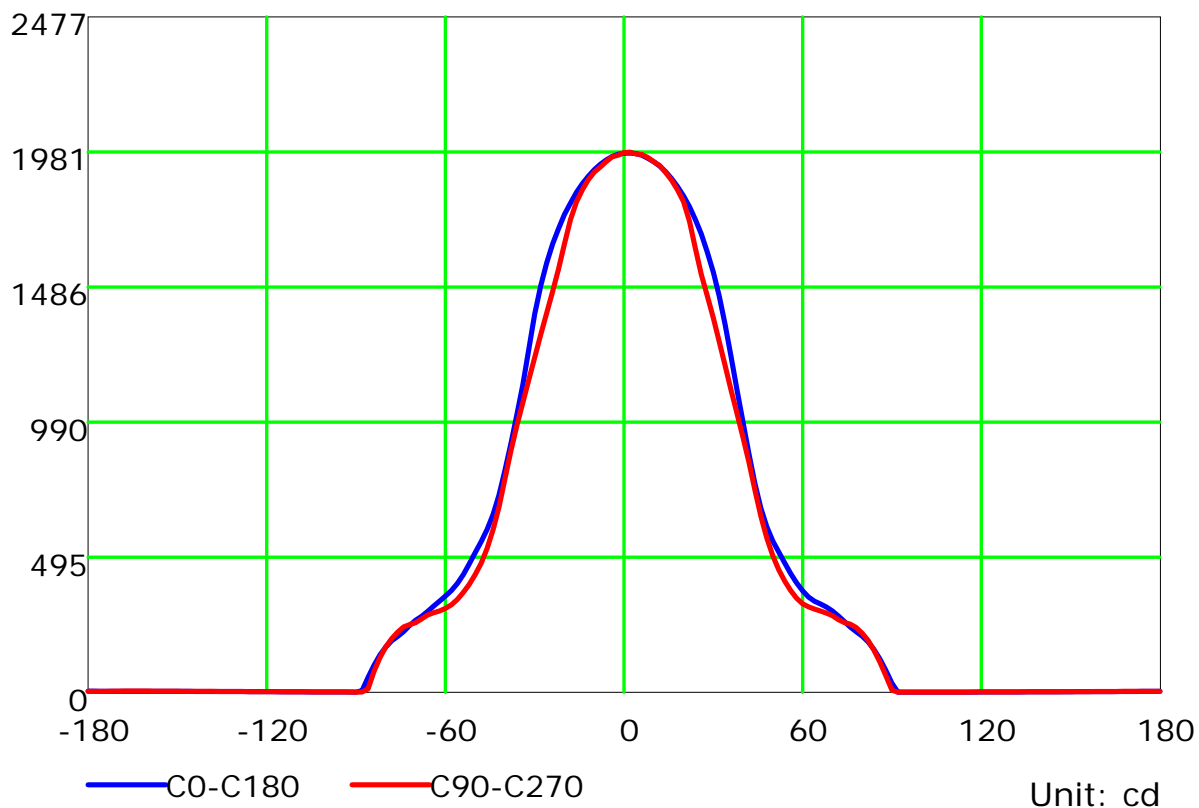
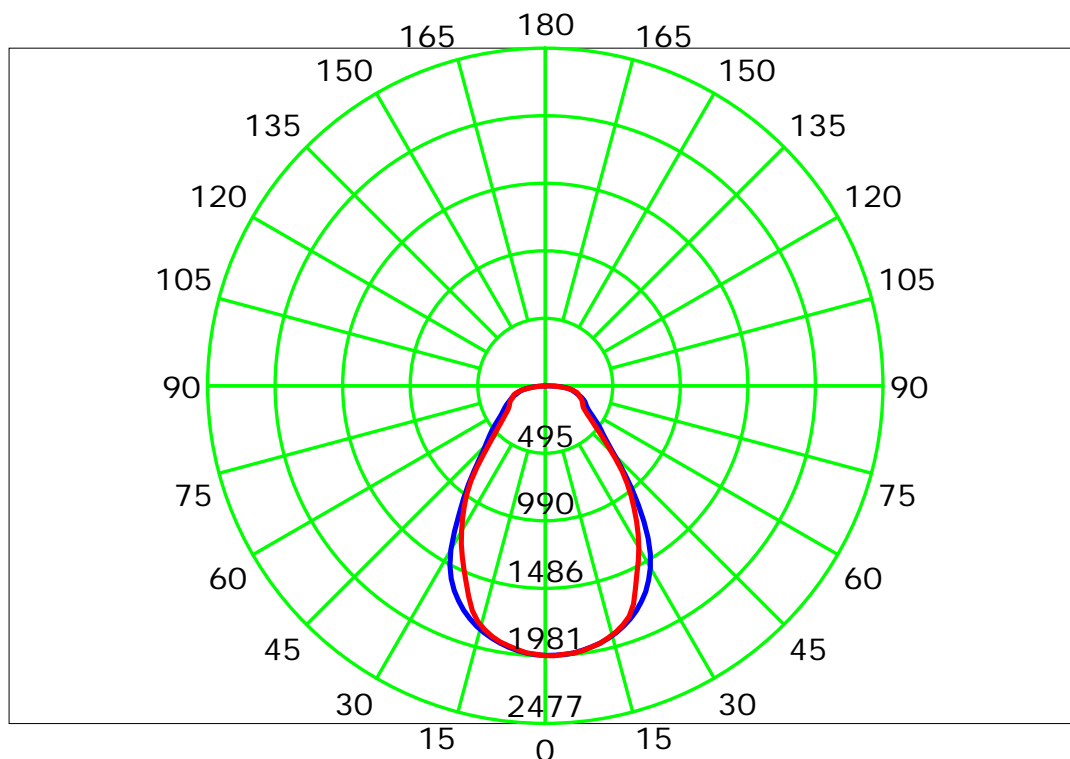
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5

Test Lab:

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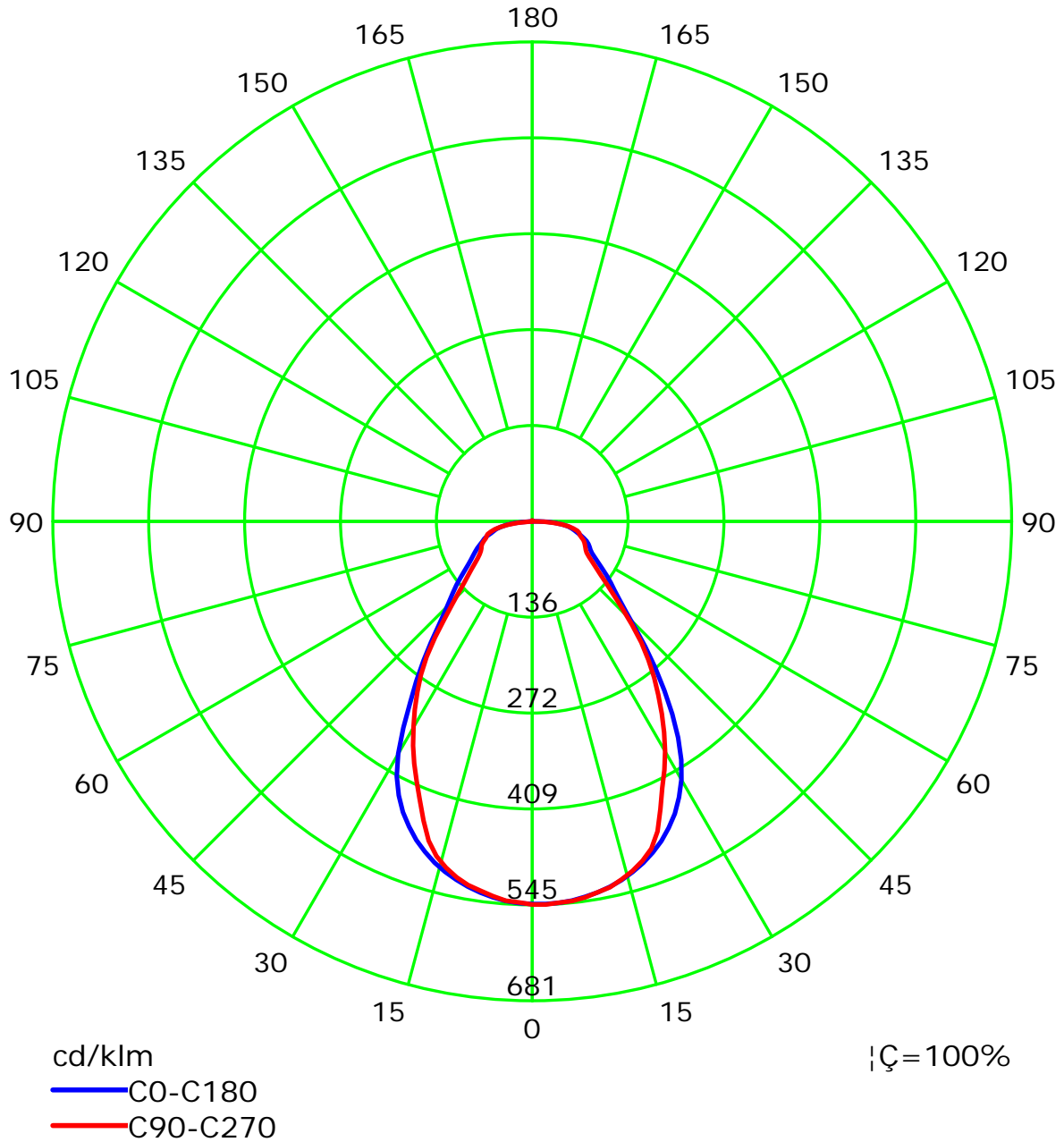
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.677 m

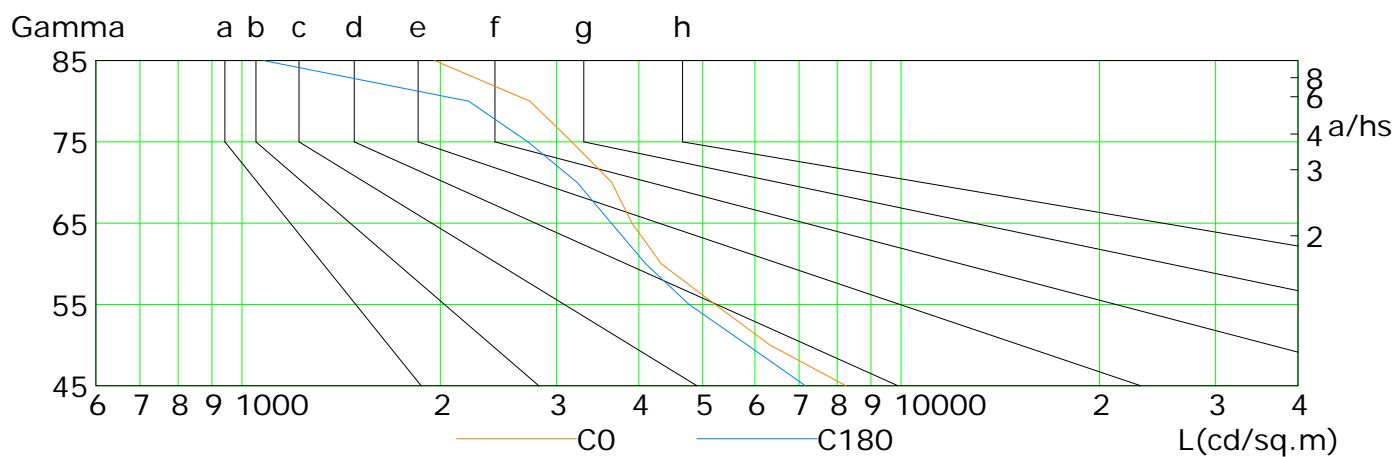
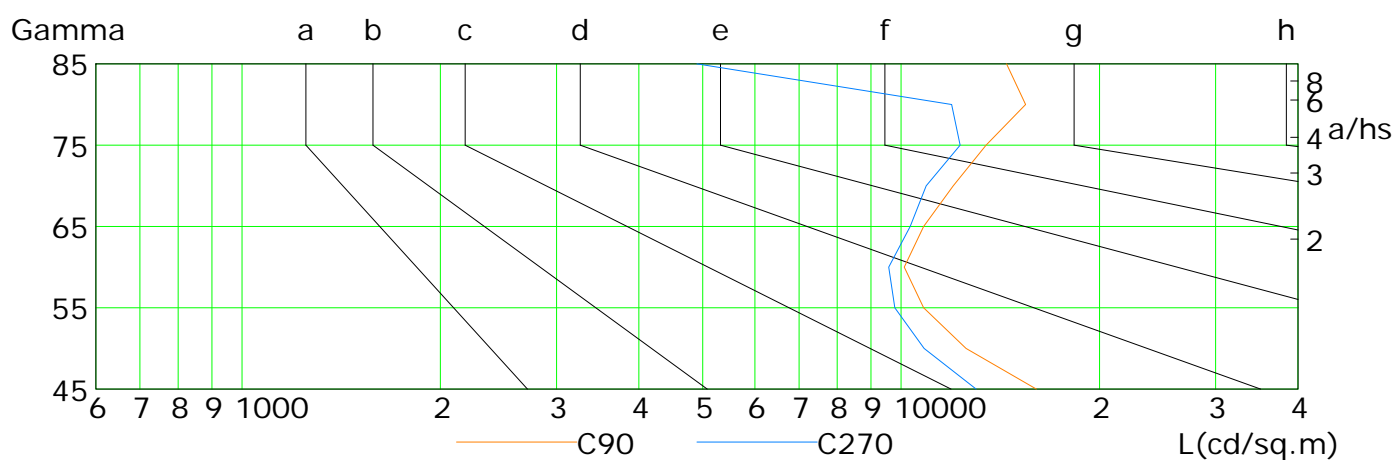
Humidity:

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	8248	6327	5224	4327	3904	3639	3165	2734	1959
C90	16035	12549	10818	10112	10820	11995	13455	15444	14453
C180	7159	5849	4768	4098	3633	3225	2714	2207	1078
C270	12996	10836	9783	9578	10321	10916	12285	11932	4899

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

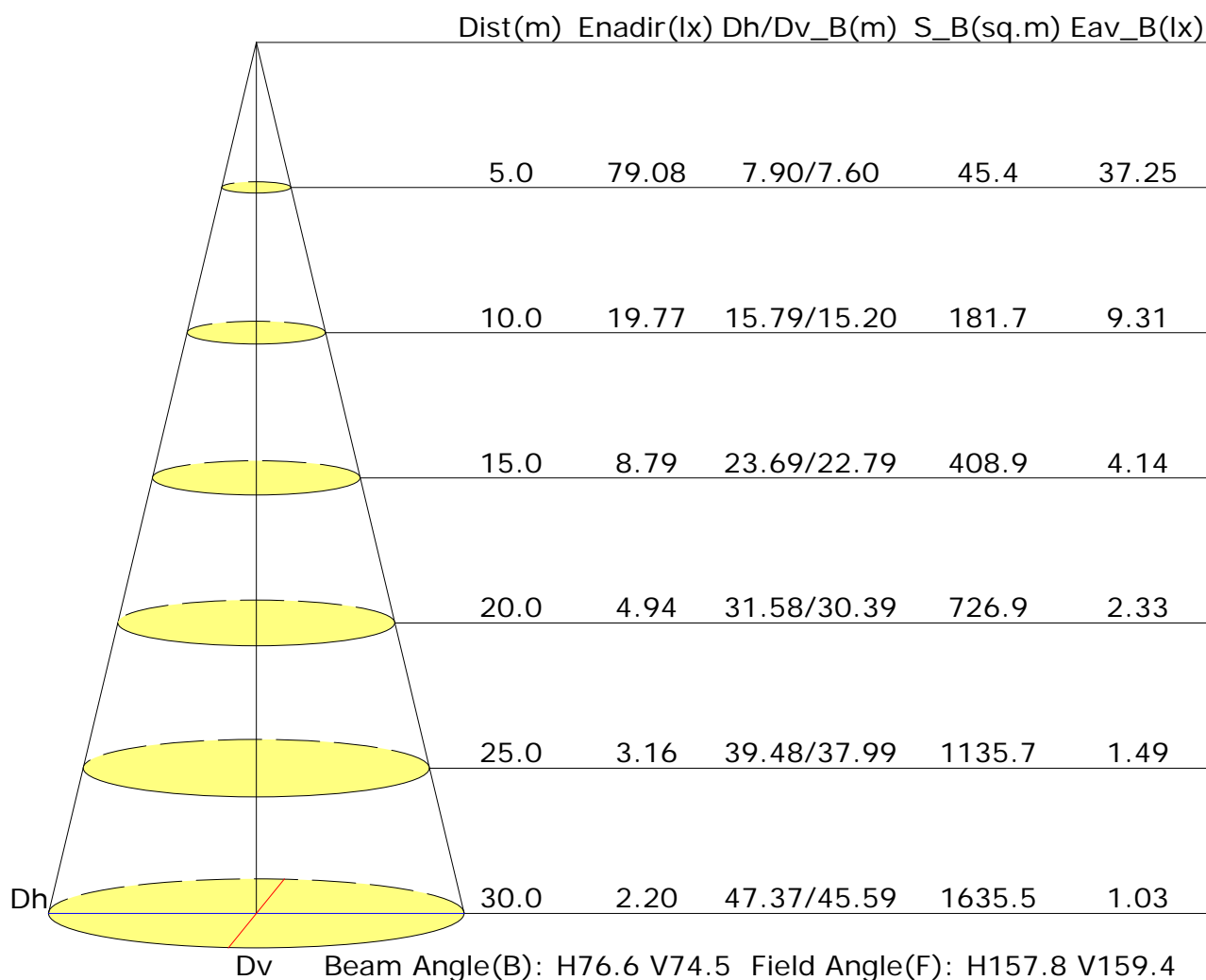
Test Device: LSG-1800B

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	18.0	19.2	18.3	19.5	19.7	18.8	20.0	19.1	20.3	20.5
3H	19.1	20.2	19.4	20.5	20.8	20.4	21.5	20.7	21.8	22.1
4H	19.6	20.7	20.0	21.0	21.3	21.4	22.5	21.8	22.8	23.1
6H	20.2	21.2	20.5	21.5	21.8	22.4	23.4	22.8	23.8	24.1
8H	20.4	21.3	20.7	21.7	22.0	22.9	23.8	23.2	24.1	24.5
12H	20.5	21.5	20.9	21.8	22.1	23.1	24.1	23.5	24.4	24.7
X=4H Y=2H	18.3	19.4	18.7	19.7	20.0	19.0	20.1	19.4	20.4	20.7
3H	19.7	20.6	20.1	20.9	21.3	20.8	21.8	21.2	22.1	22.5
4H	20.4	21.2	20.8	21.6	22.0	22.0	22.8	22.4	23.2	23.5
6H	21.1	21.8	21.5	22.2	22.6	23.1	23.9	23.6	24.3	24.7
8H	21.3	22.0	21.8	22.4	22.9	23.6	24.3	24.1	24.7	25.2
12H	21.6	22.2	22.0	22.6	23.1	24.0	24.6	24.4	25.0	25.5
X=8H Y=4H	20.6	21.3	21.1	21.7	22.2	22.1	22.8	22.5	23.2	23.6
6H	21.5	22.0	21.9	22.4	22.9	23.4	23.9	23.9	24.4	24.9
8H	21.8	22.3	22.3	22.8	23.3	24.0	24.4	24.4	24.9	25.4
12H	22.1	22.6	22.6	23.0	23.6	24.4	24.8	24.9	25.3	25.8
X=12H Y=4H	20.7	21.3	21.1	21.7	22.2	22.1	22.7	22.6	23.1	23.6
6H	21.5	22.0	22.0	22.5	23.0	23.4	23.9	23.9	24.4	24.8
8H	21.9	22.4	22.4	22.8	23.4	24.0	24.4	24.5	24.9	25.4
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/-0.6				
S=2.0H	+1.4/-1.2					+1.0/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 3633lm ($8\log(F/F_0) = 4.5$).

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Temperature:

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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	0.84	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	0.98	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	0.92	0.95	
0.30	0.50	0.20	0.61	0.69	0.75	0.78	0.84	0.88	0.90	0.94	0.96	
	0.30		0.55	0.64	0.70	0.74	0.80	0.84	0.87	0.91	0.94	
	0.20		0.51	0.60	0.66	0.70	0.77	0.81	0.85	0.89	0.92	
0.00	0.00	0.00	0.49	0.57	0.63	0.67	0.73	0.77	0.80	0.85	0.87	
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 = 1.00									
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	0.74	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	0.37	0.31	0.27	0.22	0.19	
0.50	0.50	0.20	0.86	0.71	0.60	0.53	0.42	0.39	0.30	0.24	0.19	
	0.30		0.72	0.61	0.53	0.47	0.39	0.33	0.28	0.22	0.19	
	0.20		0.63	0.54	0.48	0.43	0.36	0.30	0.27	0.21	0.18	
0.30	0.50	0.20	0.83	0.68	0.58	0.50	0.40	0.33	0.29	0.22	0.18	
	0.30		0.71	0.60	0.52	0.46	0.37	0.31	0.27	0.21	0.18	
	0.20		0.62	0.53	0.47	0.42	0.35	0.29	0.26	0.20	0.17	
0.00	0.00	0.00	0.51	0.43	0.37	0.33	0.27	0.22	0.19	0.15	0.13	
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 = 1.00									
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	0.16	0.17	0.18	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	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.21	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	0.08	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: 30W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												