

Report No.:

Test Time: 30.10.2020 14:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 30LED 0.6A 75Wx2 5000K prozrachniy

Luminous Length (mm): 1576

Luminous Width (mm): 120

Luminous Height (mm): 190

Voltage: 221.5 V

Current: 0.731 A

Power: 159.11 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 17080.1 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 17080.1 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.8, 117.2, 133.3, 133.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.4, 109.1, 113.6, 114.2

Luminaire Efficacy Rating (LER): 107.40

Central Intensity: 6601.36 cd

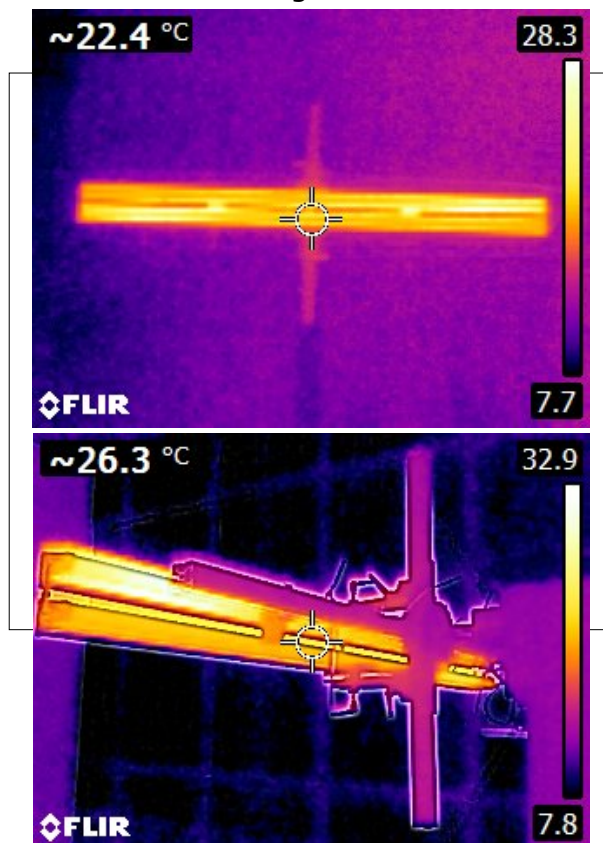
Max. Intensity: 6611.11 cd

Pos of Max. Intensity: H112.5 V2

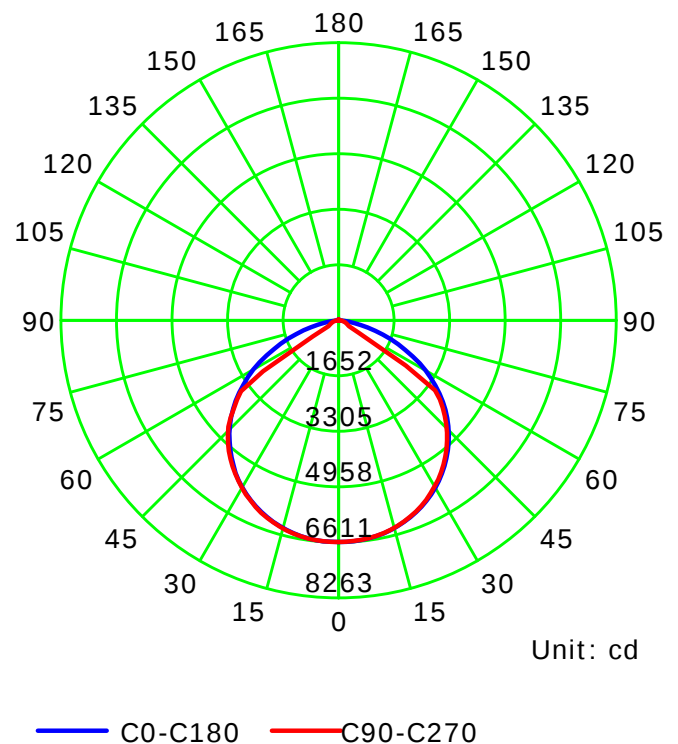
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.29

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

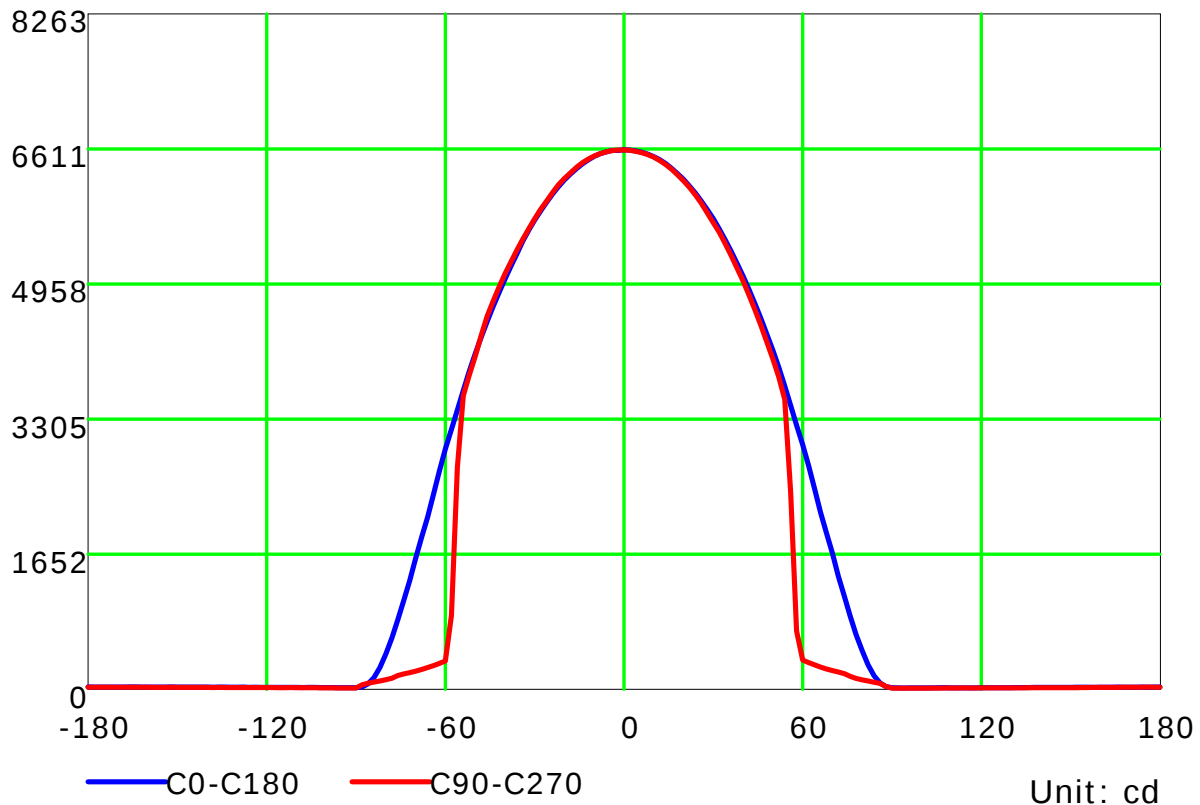
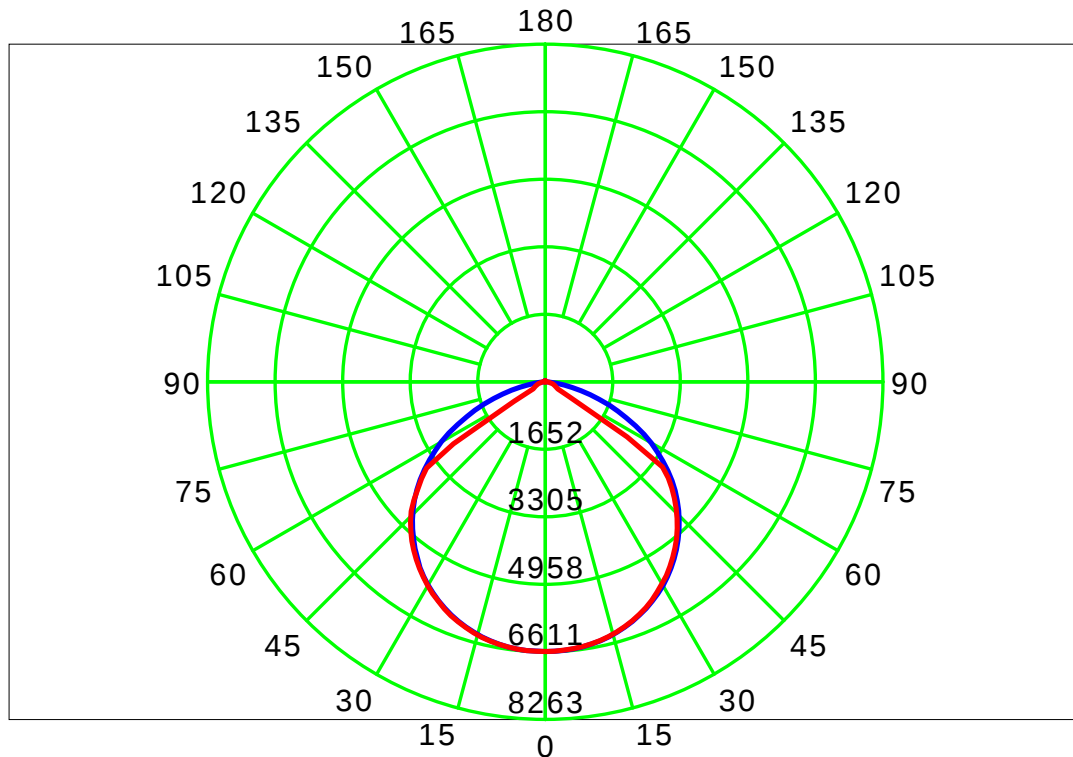
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

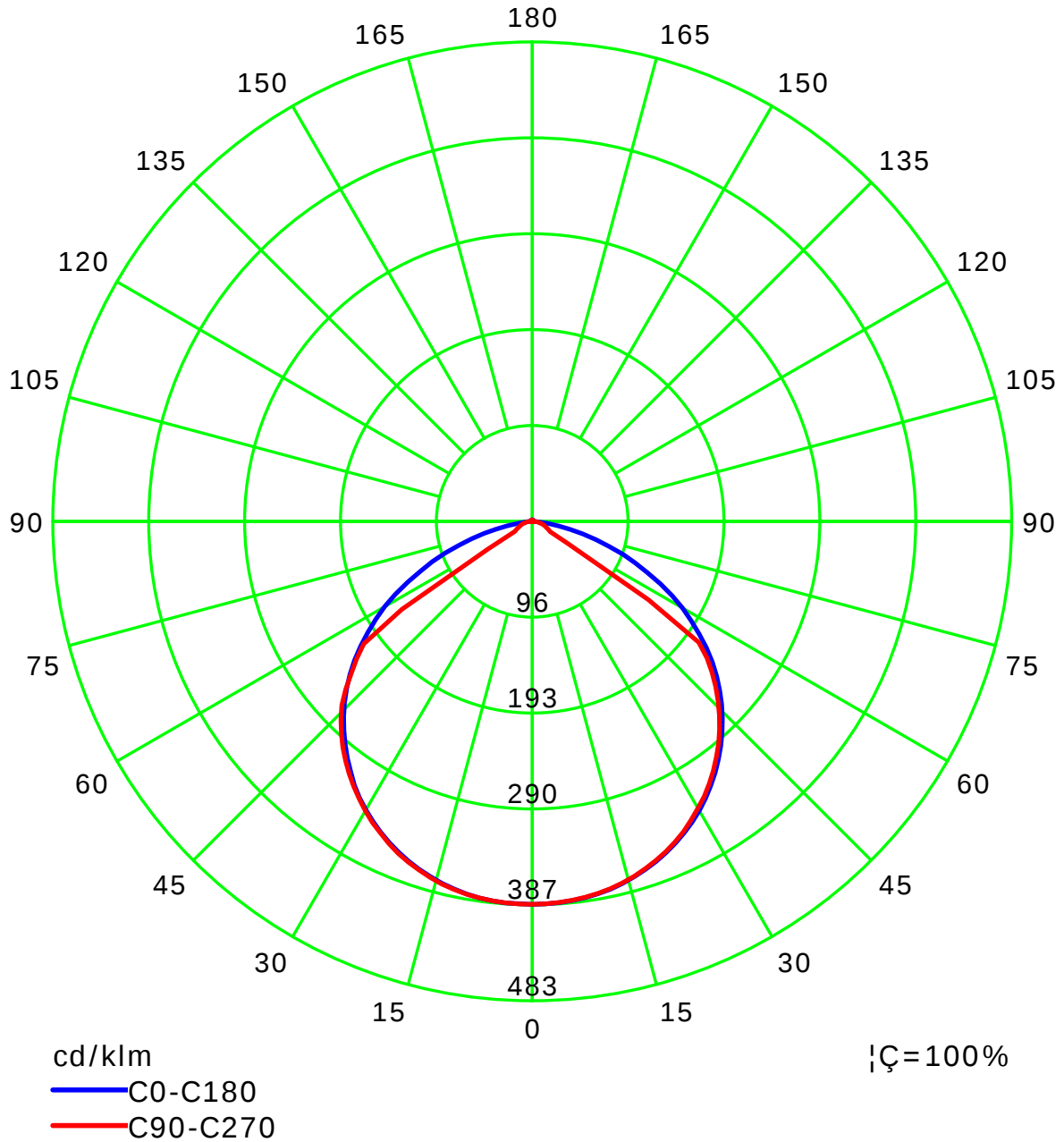
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
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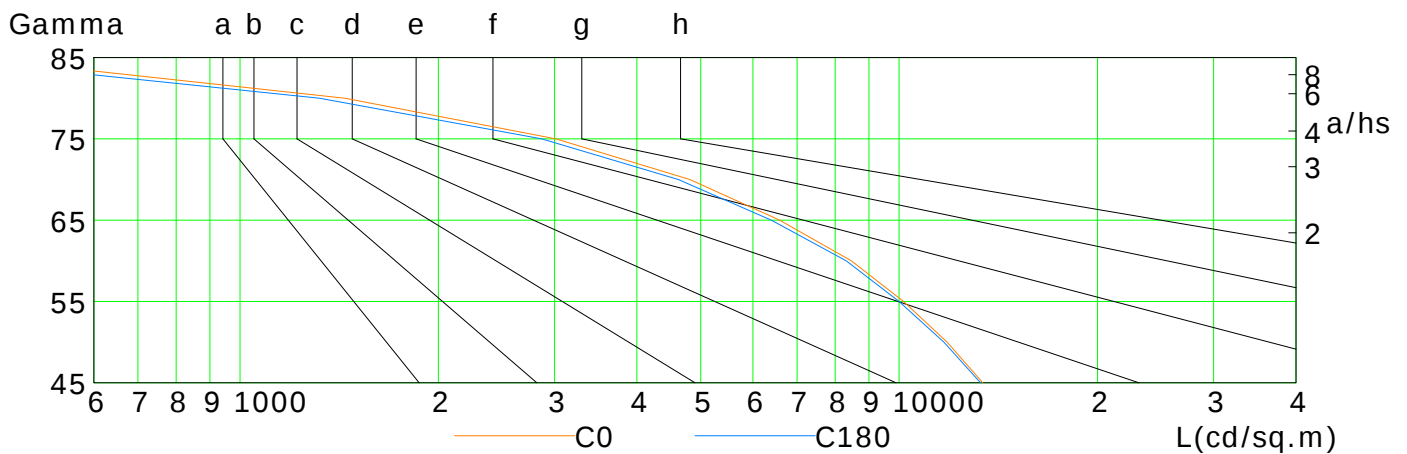
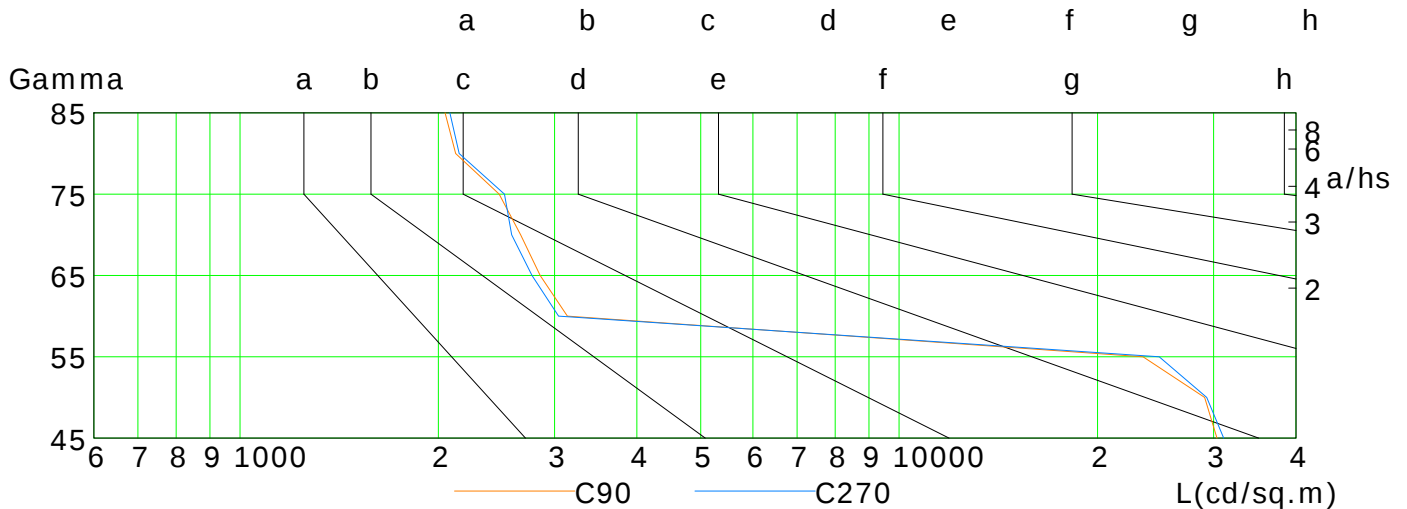
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Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13396	11822	10154	8464	6588	4814	3013	1442	390
C90	30351	29072	23447	3138	2854	2665	2473	2123	2047
C180	13292	11693	9998	8315	6397	4624	2869	1320	335
C270	31078	29286	24803	3043	2773	2583	2519	2150	2081

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Temperature:

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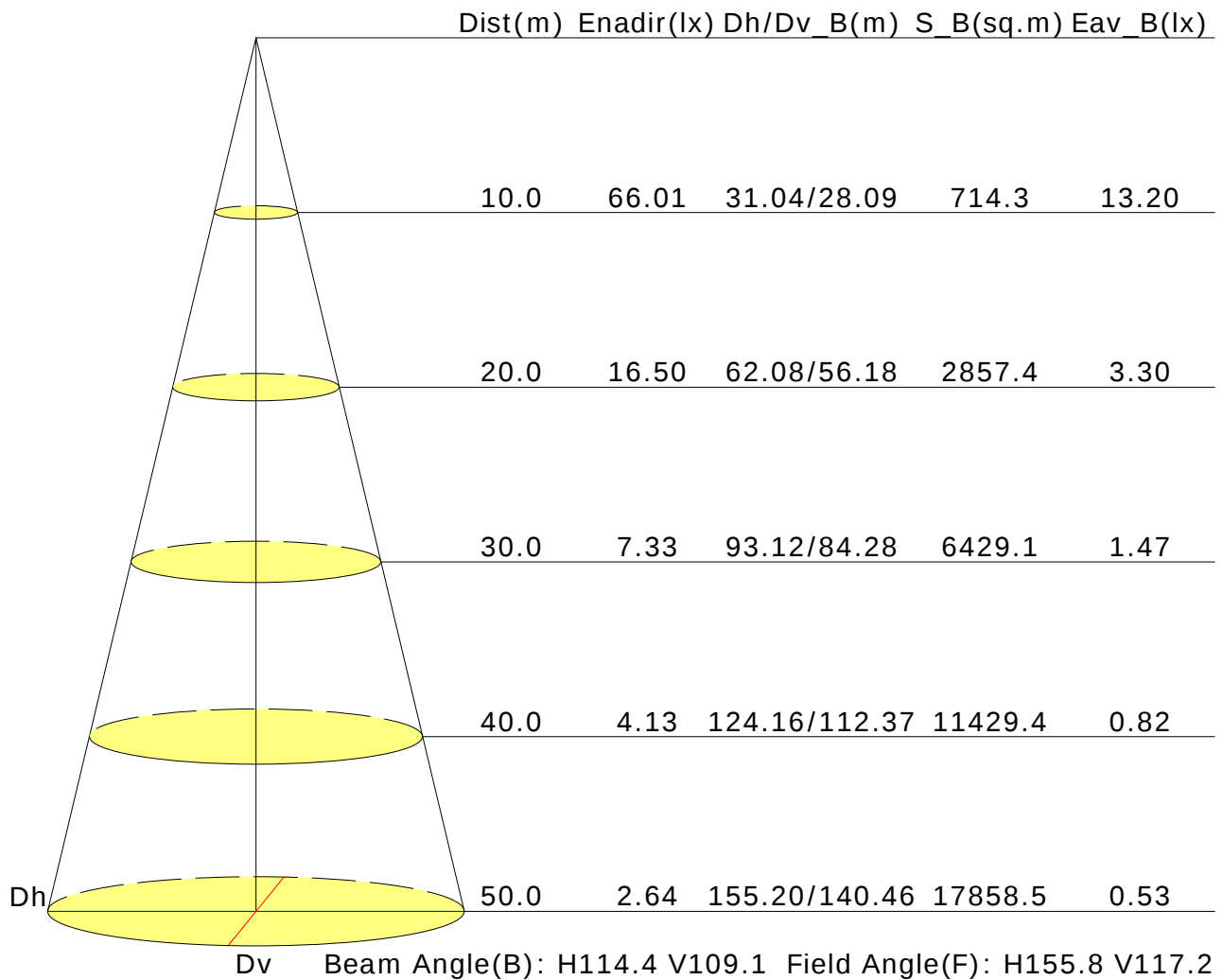
Test Device: LSG-1800B

Distance: 12.682 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	21.2	22.5	21.5	22.7	23.0	21.4	22.6	21.7	22.9	23.1
3H	22.0	23.2	22.4	23.5	23.8	21.2	22.4	21.6	22.7	23.0
4H	22.2	23.3	22.6	23.6	23.9	21.2	22.3	21.5	22.6	22.9
6H	22.2	23.2	22.6	23.6	23.9	21.1	22.1	21.5	22.5	22.8
8H	22.2	23.2	22.6	23.5	23.9	21.1	22.1	21.5	22.4	22.7
12H	22.2	23.1	22.6	23.4	23.8	21.1	22.0	21.5	22.3	22.7
X=4H Y=2H	21.5	22.6	21.8	22.9	23.2	21.6	22.6	21.9	22.9	23.3
3H	22.4	23.3	22.8	23.6	24.0	21.5	22.4	21.8	22.7	23.1
4H	22.6	23.4	23.0	23.8	24.2	21.4	22.2	21.8	22.6	23.0
6H	22.7	23.4	23.1	23.8	24.2	21.4	22.1	21.8	22.5	22.9
8H	22.6	23.3	23.1	23.7	24.1	21.4	22.0	21.8	22.4	22.9
12H	22.6	23.2	23.1	23.6	24.1	21.4	21.9	21.8	22.4	22.8
X=8H Y=4H	22.5	23.2	23.0	23.6	24.0	21.4	22.0	21.8	22.4	22.9
6H	22.6	23.1	23.0	23.5	24.0	21.3	21.9	21.8	22.3	22.8
8H	22.6	23.0	23.0	23.5	24.0	21.3	21.8	21.8	22.3	22.8
12H	22.5	22.9	23.0	23.4	23.9	21.3	21.7	21.8	22.2	22.7
X=12H Y=4H	22.5	23.1	23.0	23.5	24.0	21.3	21.9	21.8	22.4	22.8
6H	22.5	23.0	23.0	23.5	24.0	21.3	21.8	21.8	22.2	22.7
8H	22.5	22.9	23.0	23.4	23.9	21.3	21.7	21.8	22.2	22.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.8/-1.5				
S=1.5H	+0.7/-1.5					+2.7/-8.9				
S=2.0H	+1.2/-2.2					+4.2/-10.6				

Calculate in accordance with CIE Pub.117. The table is revised with 17080lm ($8\log(F/F_0) = 9.9$).

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Temperature:

Operator:

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Test Device: LSG-1800B

Distance: 12.682 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	0.72	0.80	0.85	0.92	0.97	1.00	1.04	1.06	
	0.30		0.53	0.65	0.73	0.79	0.87	0.92	0.95	1.00	1.03	
	0.20		0.48	0.60	0.68	0.74	0.82	0.88	0.92	0.97	1.01	
0.50	0.50	0.20	0.59	0.70	0.77	0.82	0.89	0.93	0.96	1.00	1.02	
	0.30		0.52	0.64	0.71	0.77	0.84	0.89	0.92	0.97	1.00	
	0.20		0.48	0.59	0.67	0.72	0.80	0.86	0.89	0.94	0.97	
0.30	0.50	0.20	0.58	0.68	0.75	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.52	0.63	0.70	0.75	0.82	0.86	0.90	0.94	0.96	
	0.20		0.47	0.58	0.66	0.71	0.79	0.84	0.87	0.92	0.94	
0.00	0.00	0.00	0.45	0.56	0.63	0.68	0.75	0.80	0.83	0.87	0.89	
Rating:159W 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	0.95	0.76	0.64	0.55	0.43	0.35	0.30	0.23	0.19	
	0.30		0.79	0.65	0.56	0.49	0.39	0.32	0.28	0.22	0.18	
	0.20		0.68	0.57	0.49	0.44	0.36	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.92	0.73	0.61	0.52	0.41	0.37	0.28	0.22	0.18	
	0.30		0.77	0.63	0.54	0.47	0.37	0.31	0.27	0.21	0.17	
	0.20		0.67	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.89	0.70	0.58	0.50	0.39	0.32	0.27	0.20	0.17	
	0.30		0.76	0.62	0.52	0.45	0.36	0.30	0.25	0.20	0.16	
	0.20		0.66	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.56	0.45	0.37	0.32	0.25	0.21	0.18	0.14	0.11	
Rating:159W 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	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	
0.30	0.50	0.20	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.10	0.11	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	0.14	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:159W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												