

Report No.: 1

Test Time: 25.03.2020 21:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 60LED 32W 3000K 96x55 gr.

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.2 V

Current: 0.145 A

Power: 31.96 W

Power Factor: 0.956

Photometric Results

CIE Class: Direct

Measurement Flux: 4204.7 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 4204.7 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 133.6, 113.3, 112.2, 112.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 94.6, 52.2, 61.2, 61.3

Luminaire Efficacy Rating (LER): 131.61

Central Intensity: 2992.52 cd

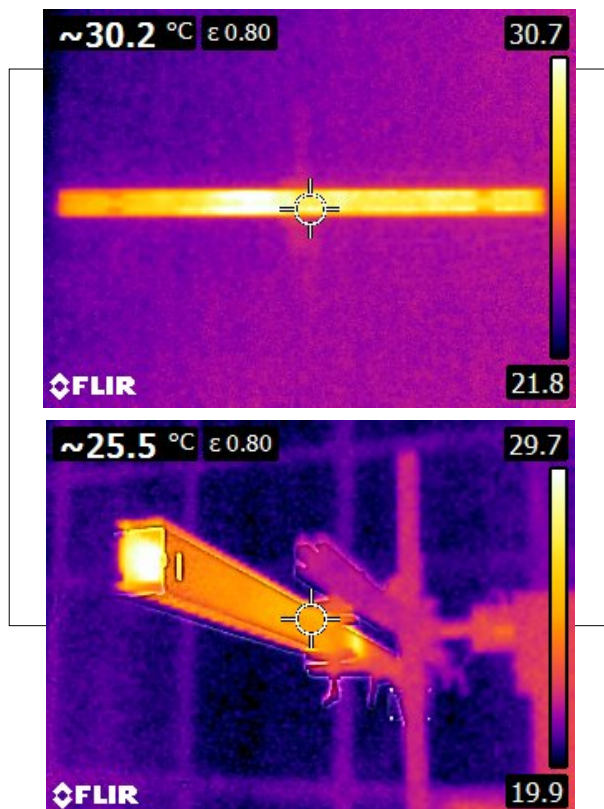
Max. Intensity: 3000.84 cd

Pos of Max. Intensity: H45 V2

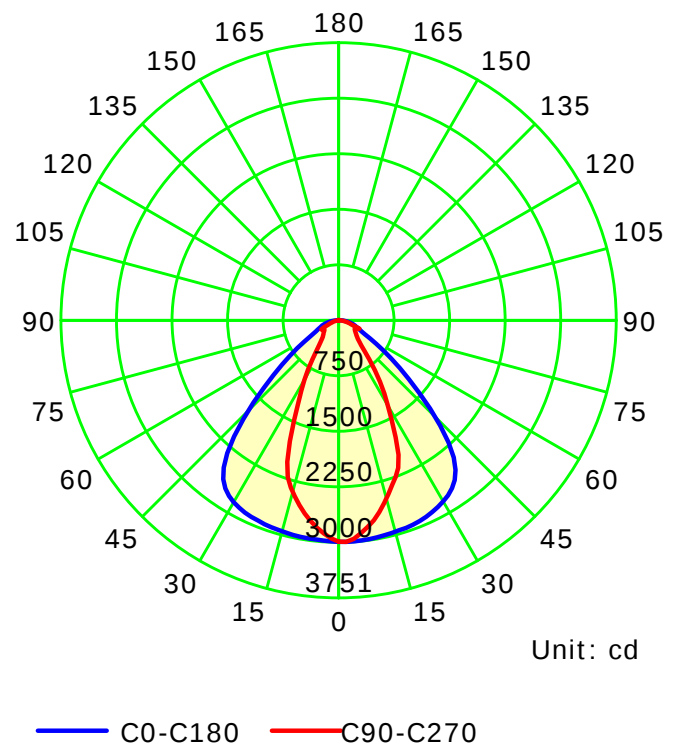
S/MH(C0/C180): 1.39

S/MH(C90/C270): 0.83

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

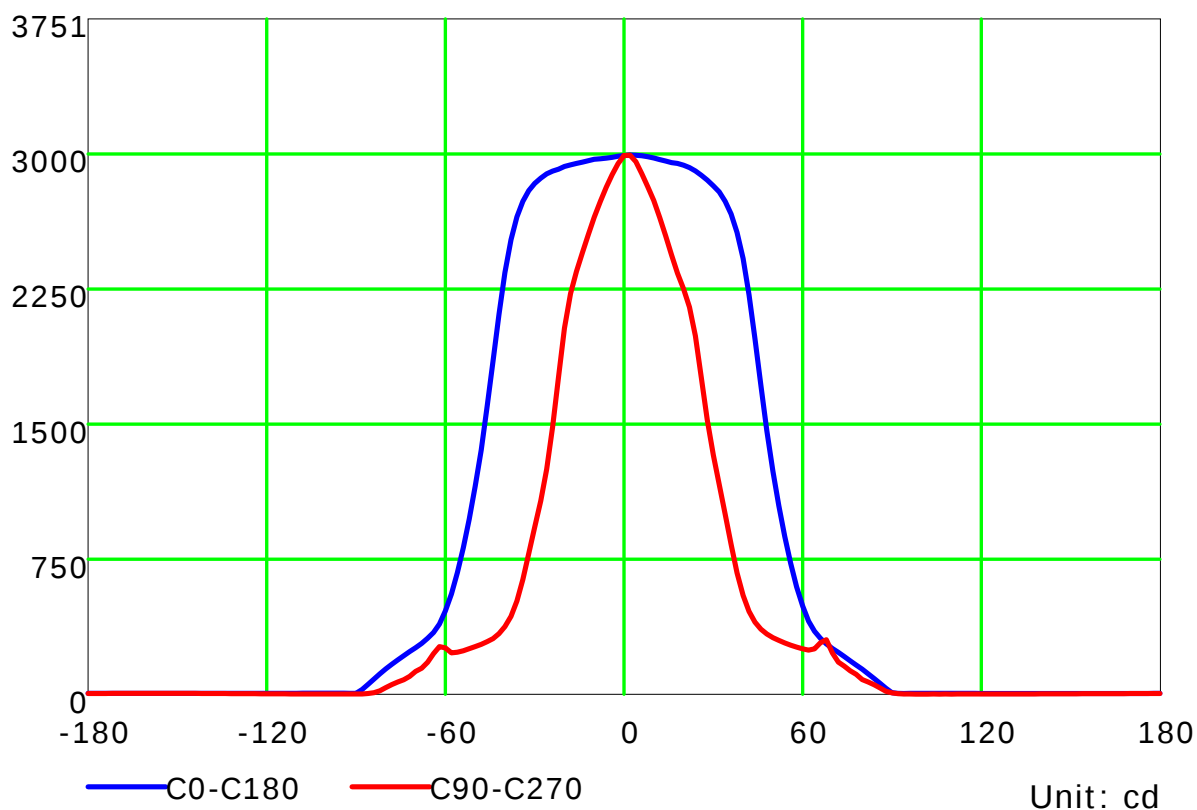
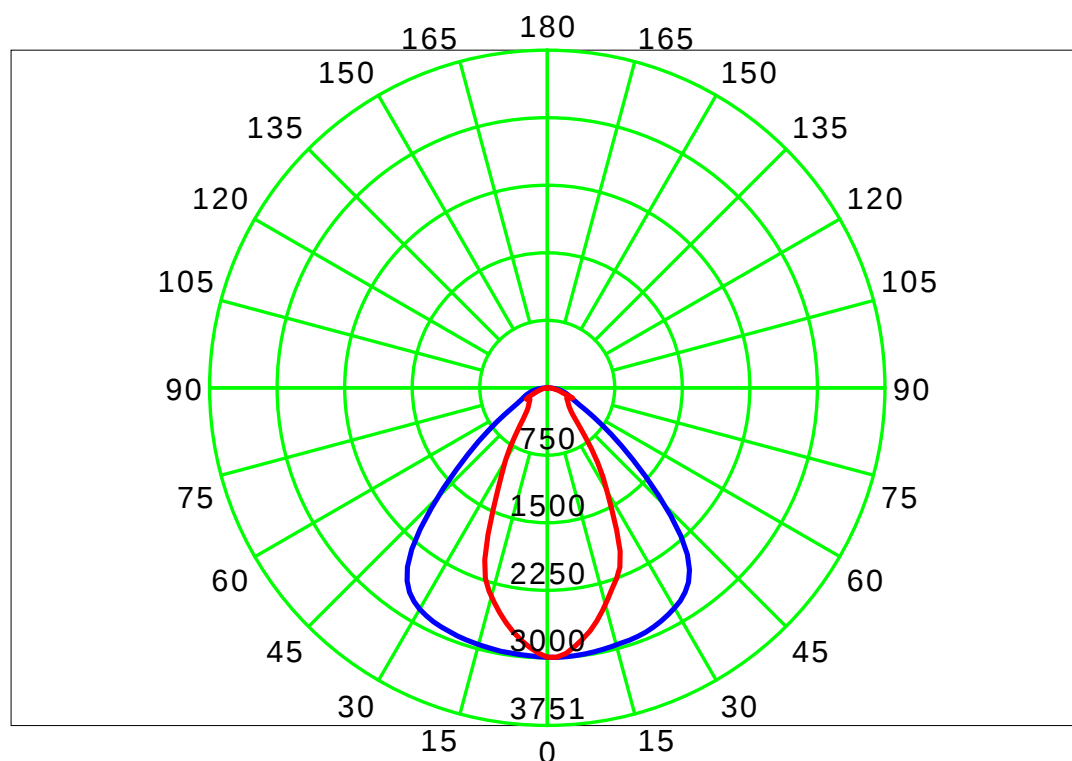
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

Test Type: TYPE C

Temperature:

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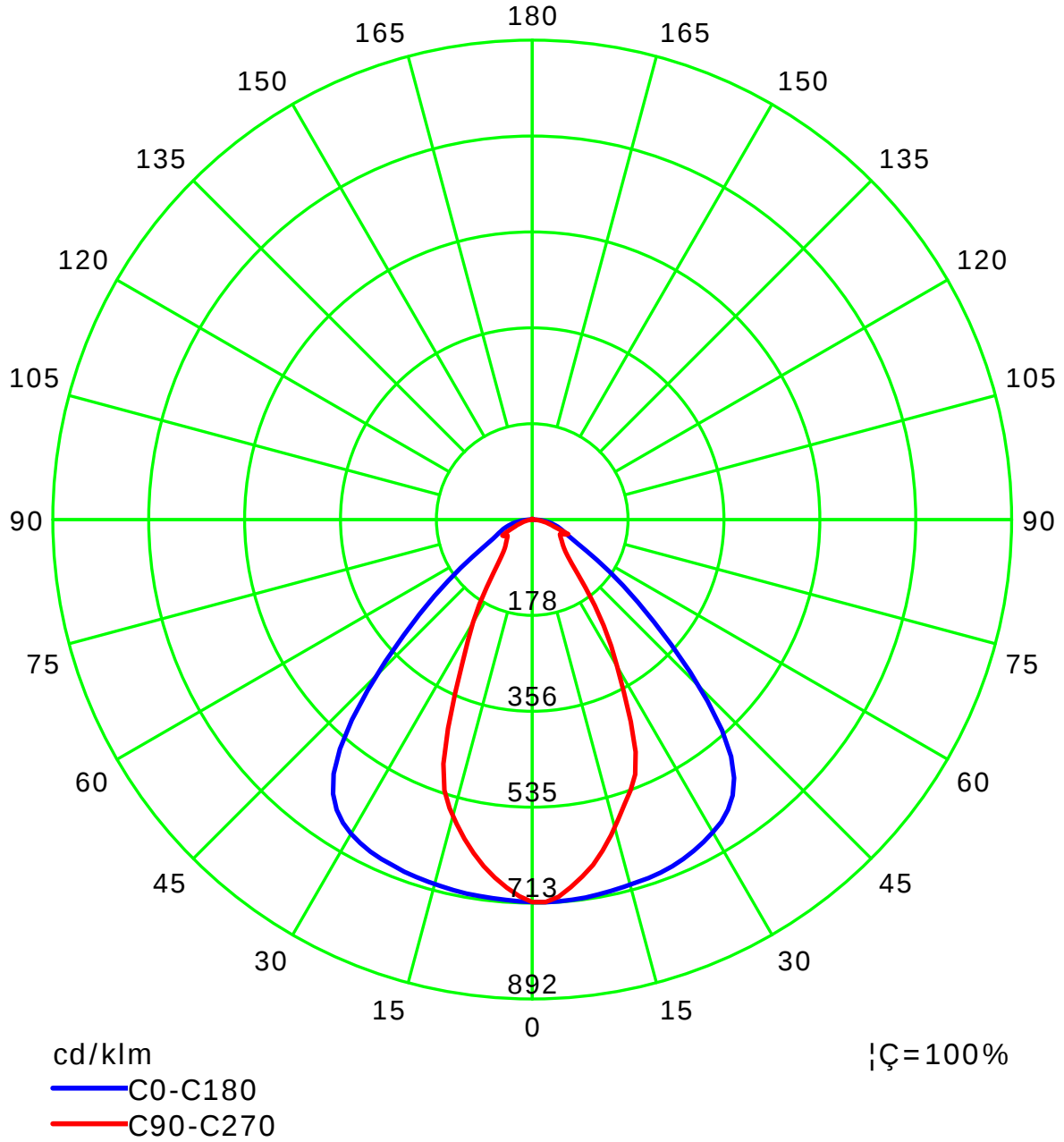
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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Test Device: LSG-1800B

Distance: 12.677 m

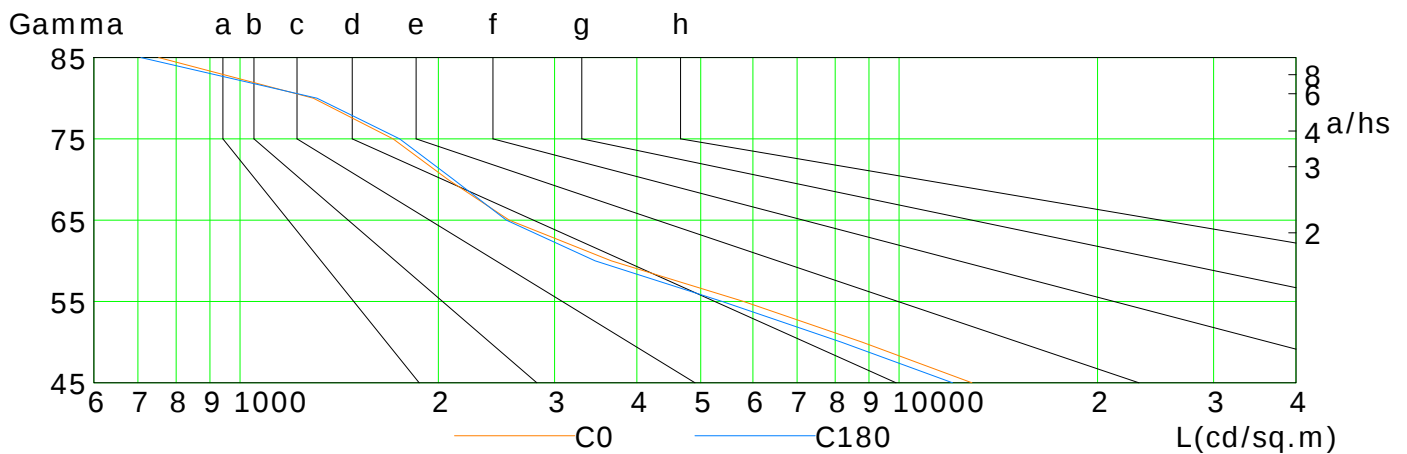
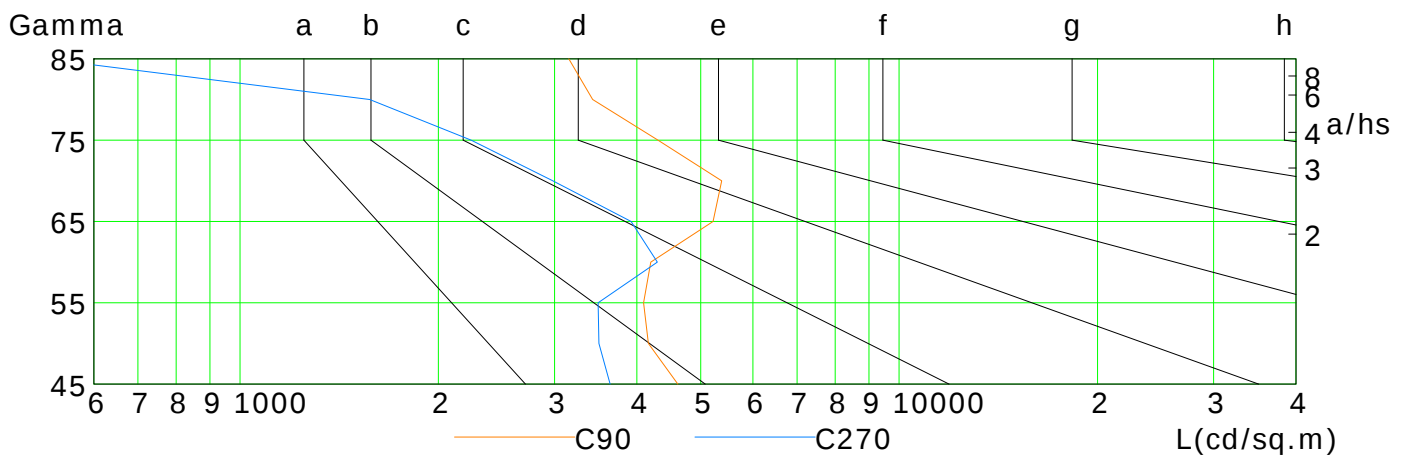
Humidity:

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	12895	8783	5810	3658	2561	2067	1707	1292	753
C90	4616	4164	4096	4200	5219	5381	4306	3429	3154
C180	12053	8171	5388	3456	2536	2109	1747	1308	707
C270	3643	3503	3493	4297	3921	2982	2242	1573	508

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Test Type: TYPE C

Temperature:

Operator:

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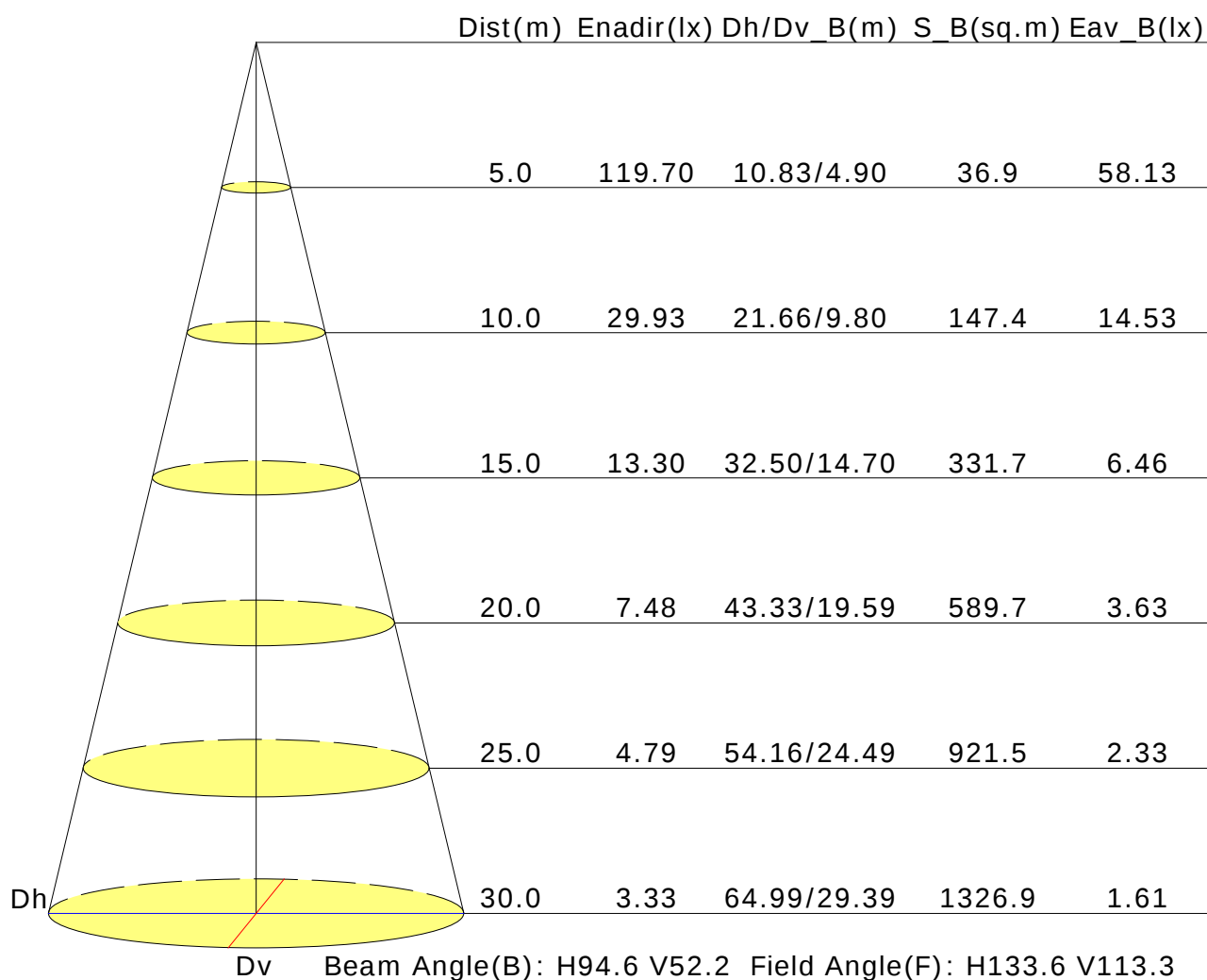
Test Device: LSG-1800B

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	17.6	18.8	17.9	19.0	19.2	14.0	15.1	14.3	15.4	15.6
3H	18.1	19.2	18.5	19.4	19.7	15.9	17.0	16.3	17.2	17.5
4H	18.4	19.4	18.7	19.6	19.9	16.5	17.4	16.8	17.7	18.0
6H	18.6	19.5	18.9	19.8	20.1	16.8	17.7	17.2	18.1	18.4
8H	18.6	19.5	19.0	19.8	20.2	16.9	17.8	17.3	18.1	18.5
12H	18.7	19.5	19.1	19.8	20.2	17.0	17.8	17.4	18.2	18.5
X=4H Y=2H	17.7	18.6	18.0	18.9	19.2	14.5	15.5	14.9	15.8	16.1
3H	18.3	19.2	18.7	19.5	19.8	16.6	17.4	17.0	17.7	18.1
4H	18.7	19.4	19.1	19.8	20.2	17.2	17.9	17.6	18.3	18.7
6H	19.0	19.7	19.5	20.1	20.5	17.6	18.3	18.1	18.7	19.1
8H	19.1	19.7	19.6	20.1	20.6	17.8	18.4	18.2	18.8	19.2
12H	19.2	19.7	19.7	20.2	20.6	17.9	18.4	18.3	18.8	19.3
X=8H Y=4H	18.8	19.4	19.2	19.8	20.2	17.4	18.0	17.8	18.4	18.8
6H	19.2	19.7	19.7	20.1	20.6	17.9	18.4	18.4	18.8	19.3
8H	19.4	19.8	19.9	20.3	20.8	18.1	18.5	18.6	19.0	19.4
12H	19.5	19.9	20.0	20.3	20.8	18.2	18.6	18.7	19.1	19.6
X=12H Y=4H	18.8	19.3	19.2	19.7	20.2	17.4	17.9	17.8	18.3	18.8
6H	19.2	19.6	19.7	20.1	20.6	17.9	18.3	18.4	18.8	19.3
8H	19.4	19.8	19.9	20.2	20.8	18.1	18.5	18.6	19.0	19.5
Variations with the observer position at spacings:										
S=1.0H	+1.2/-1.1					+0.4/-0.4				
S=1.5H	+2.8/-1.9					+0.6/-0.7				
S=2.0H	+4.4/-2.5					+0.8/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4205lm ($8\log(F/F_0) = 5.0$).

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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	0.70	0.79	0.84	0.89	0.94	0.98	1.01	1.04	1.07	
	0.30		0.64	0.73	0.79	0.83	0.89	0.94	0.97	1.01	1.04	
	0.20		0.59	0.68	0.74	0.79	0.85	0.90	0.93	0.98	1.01	
0.50	0.50	0.20	0.69	0.77	0.82	0.86	0.91	0.95	0.97	1.00	1.02	
	0.30		0.63	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00	
	0.20		0.59	0.67	0.73	0.77	0.84	0.88	0.91	0.95	0.98	
0.30	0.50	0.20	0.67	0.75	0.80	0.83	0.88	0.92	0.94	0.97	0.98	
	0.30		0.62	0.70	0.76	0.80	0.85	0.89	0.91	0.94	0.97	
	0.20		0.58	0.67	0.72	0.76	0.82	0.86	0.89	0.93	0.95	
0.00	0.00	0.00	0.57	0.64	0.70	0.73	0.79	0.82	0.85	0.88	0.90	
Rating:32W 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	0.80	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17	
	0.30		0.66	0.56	0.48	0.42	0.34	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.38	0.31	0.27	0.23	0.19	0.16	
0.50	0.50	0.20	0.76	0.62	0.52	0.46	0.36	0.33	0.25	0.20	0.16	
	0.30		0.65	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.15	
	0.20		0.56	0.48	0.42	0.37	0.30	0.26	0.22	0.18	0.15	
0.30	0.50	0.20	0.74	0.59	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.52	0.45	0.39	0.31	0.26	0.23	0.18	0.15	
	0.20		0.55	0.47	0.40	0.36	0.29	0.25	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.35	0.30	0.26	0.21	0.18	0.15	0.12	0.10	
Rating:32W 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	0.15	0.17	0.18	0.18	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	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	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	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	0.17	0.18	0.18	
	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:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												