

Report No.:

Test Time: 11.09.2020 16:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 150 24LED 32W 4000K opal

Luminous Length (mm): 1200

Luminous Width (mm): 150

Luminous Height (mm): 80

Voltage: 221.5 V

Current: 0.148 A

Power: 31.92 W

Power Factor: 0.968

Photometric Results

CIE Class: Direct

Measurement Flux: 2725.2 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 2725.2 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.7, 162.4, 162.7, 162.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.1, 108.1, 108.9, 109.1

Luminaire Efficacy Rating (LER): 85.43

Central Intensity: 976.87 cd

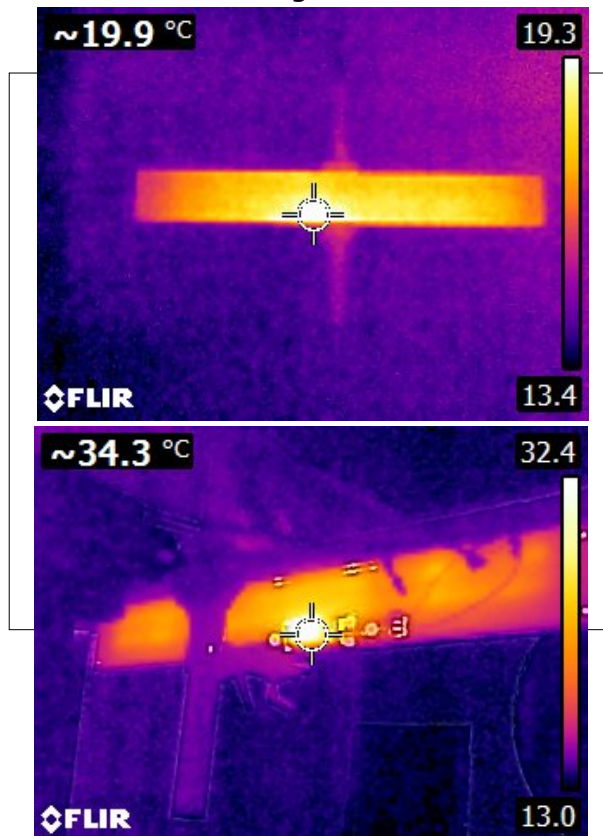
Max. Intensity: 977.11 cd

Pos of Max. Intensity: H45 V0

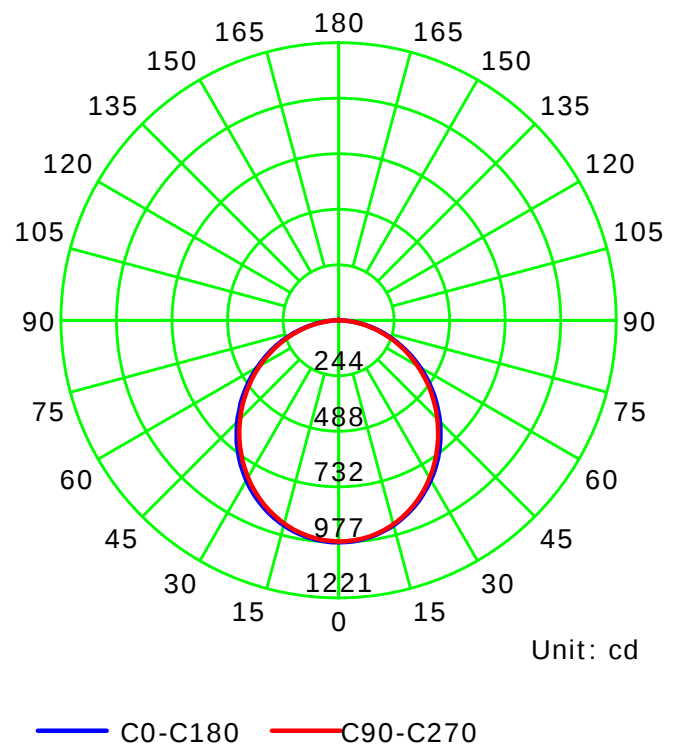
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.22

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

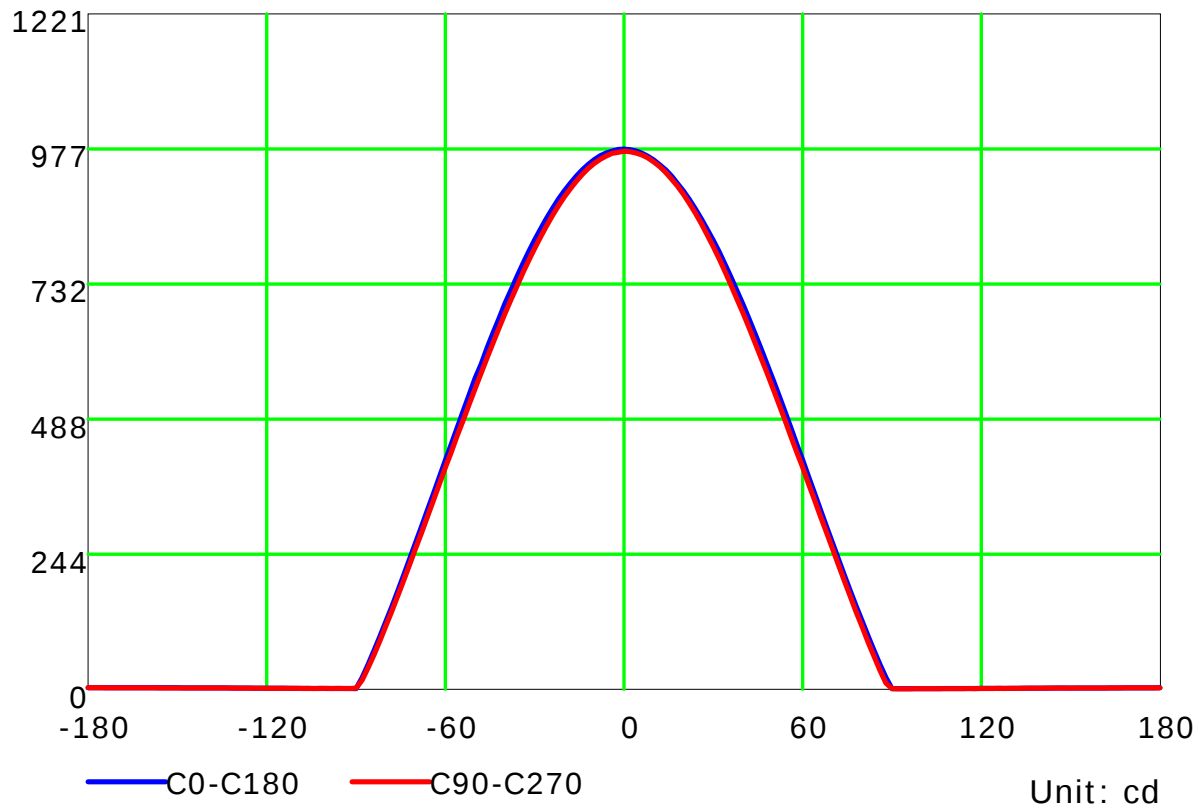
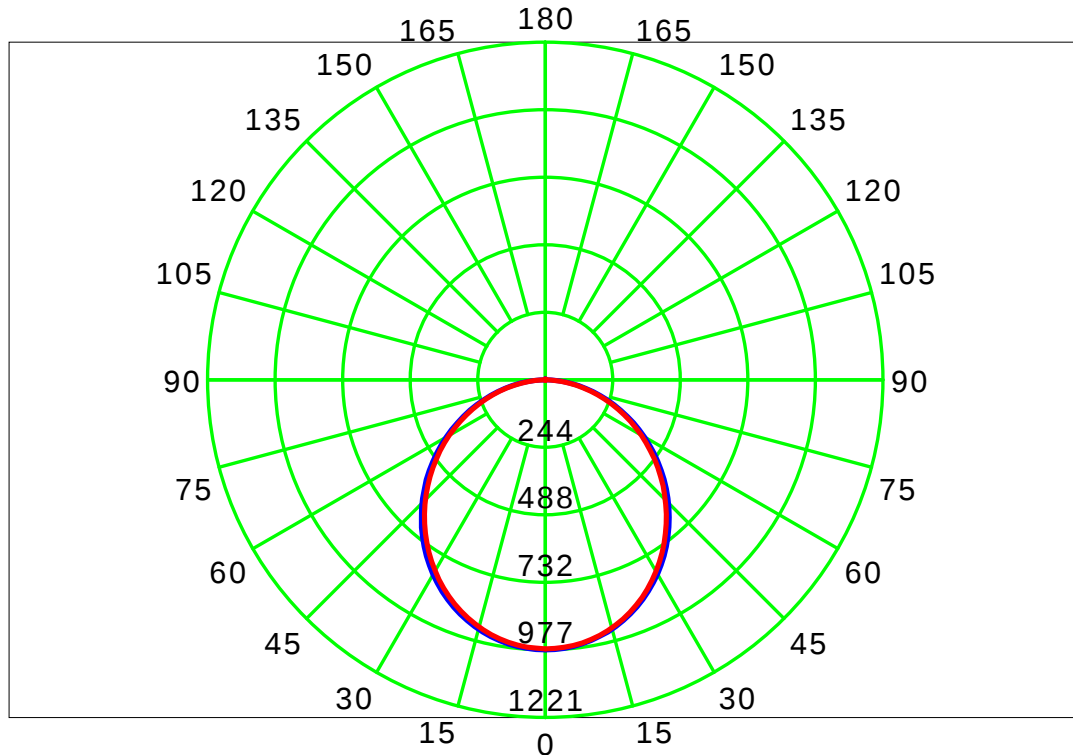
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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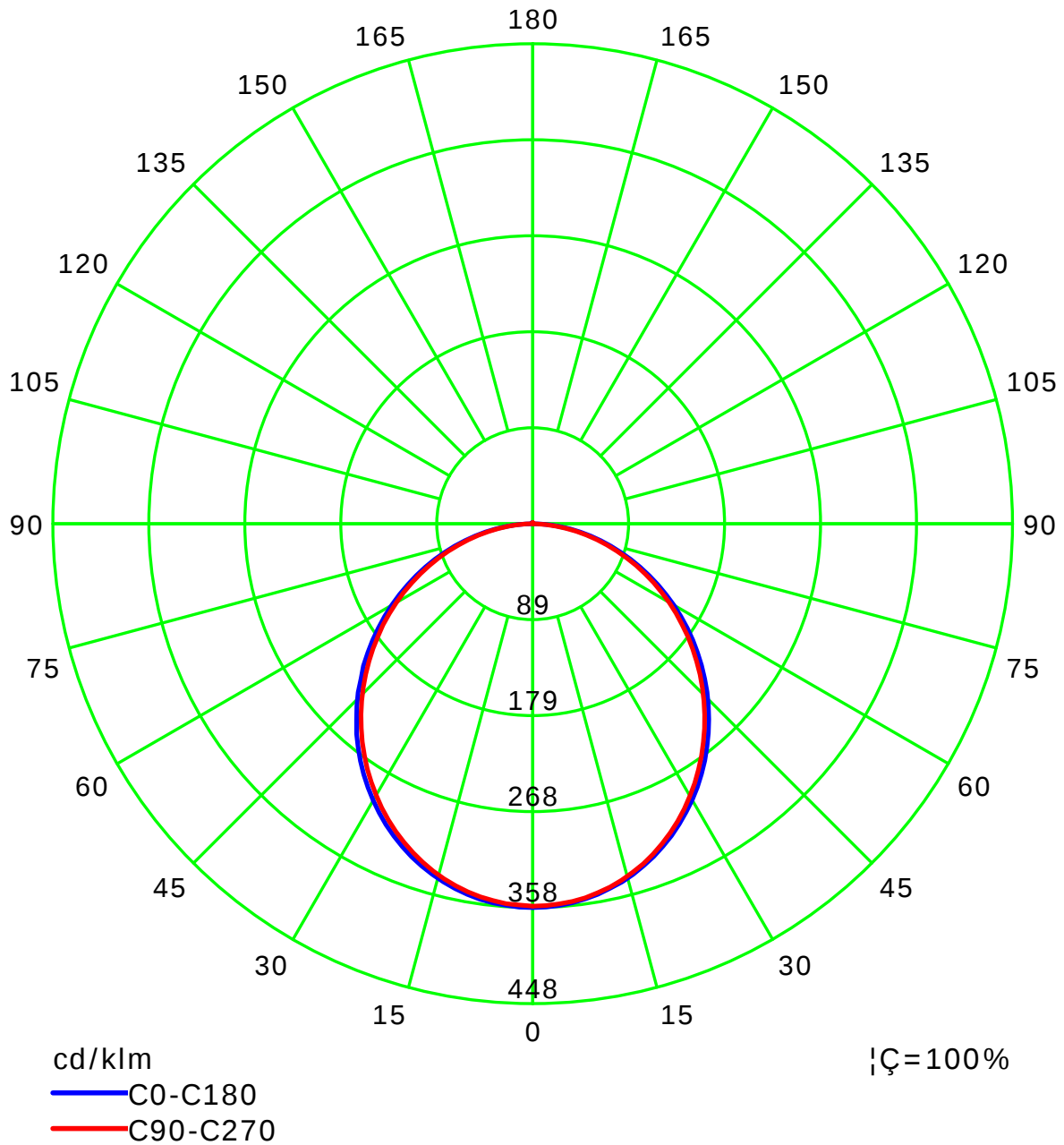
Test Device: LSG-1800B

Distance: 12.682 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

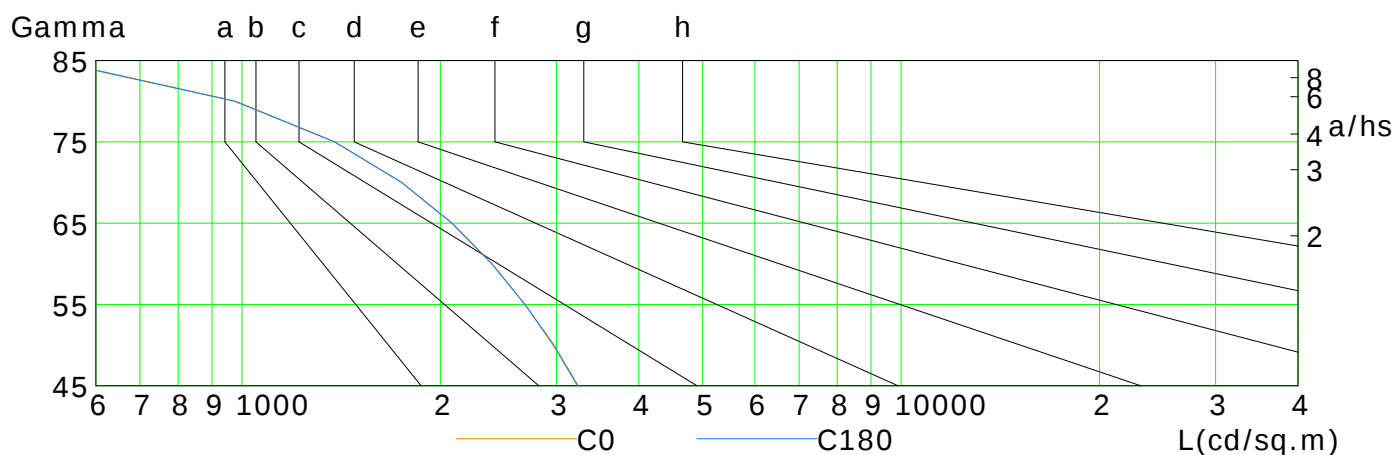
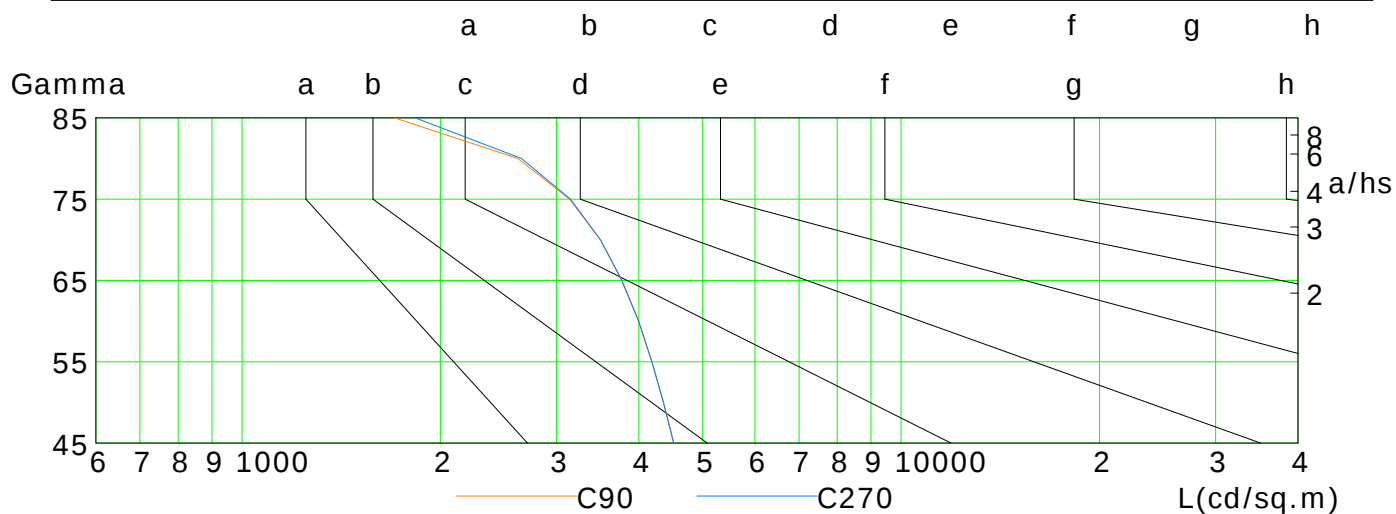
Distance: 12.682 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3229	2963	2688	2396	2084	1748	1383	979	518
C90	4521	4362	4187	4000	3772	3499	3140	2622	1703
C180	3235	2973	2688	2393	2082	1748	1381	974	514
C270	4517	4356	4186	3996	3767	3497	3151	2655	1831

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

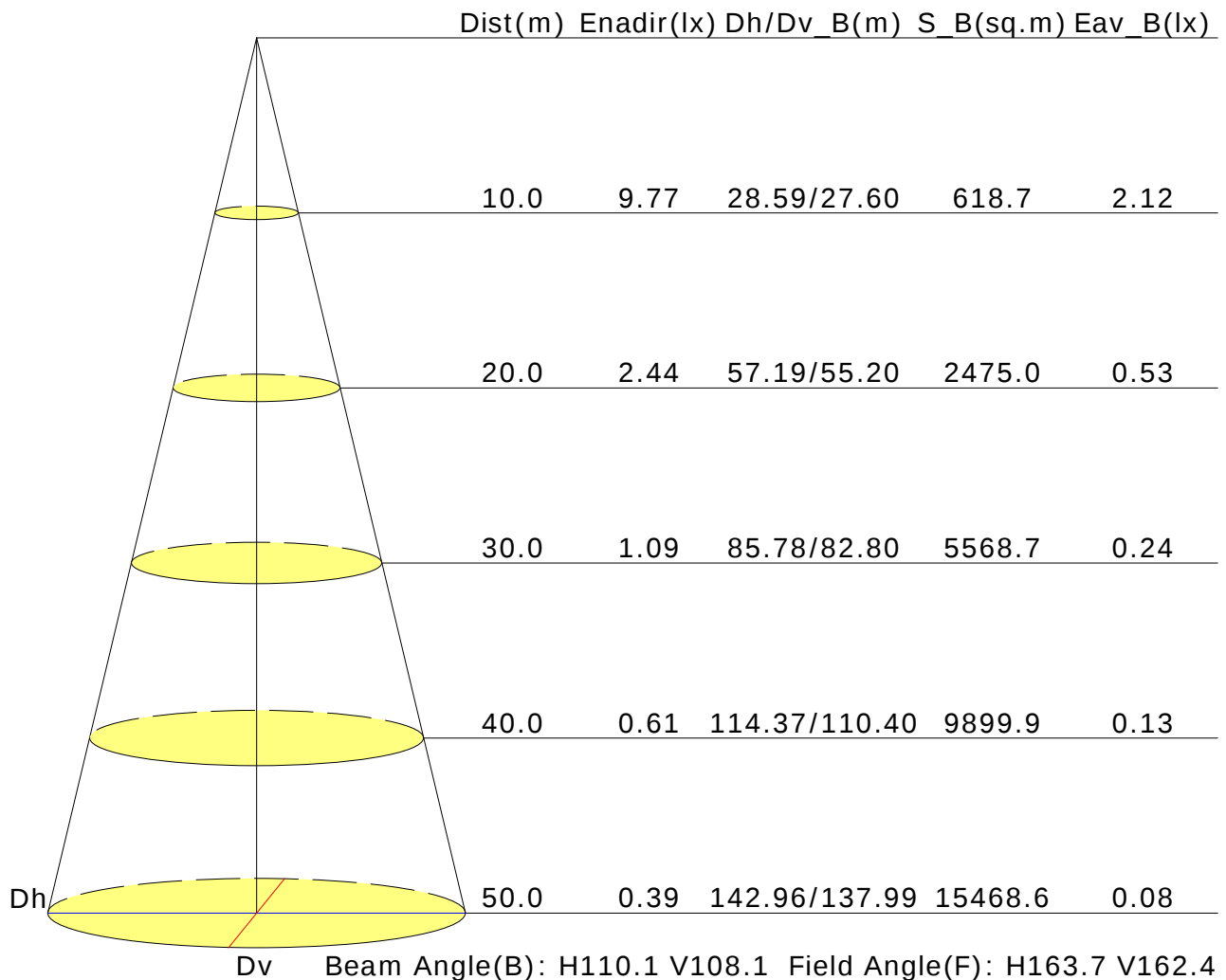
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

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	16.0	17.4	16.3	17.6	17.9	16.8	18.2	17.1	18.5	18.7
3H	17.2	18.5	17.6	18.8	19.1	18.3	19.6	18.7	19.9	20.2
4H	17.7	18.9	18.1	19.2	19.5	18.9	20.1	19.3	20.4	20.7
6H	18.0	19.1	18.4	19.4	19.8	19.4	20.5	19.7	20.8	21.1
8H	18.1	19.1	18.4	19.5	19.8	19.5	20.6	19.9	20.9	21.2
12H	18.1	19.1	18.5	19.5	19.8	19.6	20.6	20.0	20.9	21.3
X=4H Y=2H	16.6	17.8	17.0	18.1	18.4	17.3	18.5	17.6	18.8	19.1
3H	18.0	19.1	18.4	19.4	19.8	18.9	20.0	19.3	20.3	20.7
4H	18.6	19.5	19.0	19.9	20.3	19.6	20.6	20.1	20.9	21.3
6H	19.0	19.8	19.4	20.2	20.6	20.2	21.0	20.6	21.4	21.8
8H	19.1	19.8	19.5	20.3	20.7	20.4	21.1	20.8	21.5	22.0
12H	19.2	19.8	19.6	20.3	20.7	20.5	21.1	20.9	21.6	22.0
X=8H Y=4H	18.8	19.6	19.3	20.0	20.4	19.8	20.6	20.2	21.0	21.4
6H	19.3	19.9	19.8	20.4	20.9	20.4	21.0	20.9	21.5	22.0
8H	19.5	20.0	20.0	20.5	21.0	20.7	21.2	21.2	21.7	22.2
12H	19.6	20.1	20.1	20.5	21.1	20.8	21.3	21.3	21.8	22.3
X=12H Y=4H	18.9	19.5	19.3	20.0	20.4	19.8	20.5	20.3	20.9	21.4
6H	19.4	19.9	19.9	20.4	20.9	20.5	21.0	20.9	21.5	21.9
8H	19.6	20.0	20.1	20.5	21.0	20.7	21.2	21.2	21.6	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.3/-0.6					+0.3/-0.4				
S=2.0H	+0.6/-1.1					+0.7/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2725lm ($8\log(F/F_0) = 3.5$).

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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	0.57	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.49	0.59	0.67	0.72	0.81	0.86	0.90	0.96	0.99	
	0.20		0.43	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99	
	0.30		0.48	0.58	0.65	0.71	0.78	0.84	0.87	0.92	0.96	
	0.20		0.43	0.53	0.60	0.66	0.74	0.79	0.84	0.89	0.93	
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.89	0.92	
	0.20		0.42	0.52	0.59	0.65	0.72	0.78	0.81	0.87	0.90	
0.00	0.00	0.00	0.40	0.49	0.56	0.61	0.69	0.74	0.77	0.82	0.85	
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 = 1.25									
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	1.00	0.83	0.71	0.62	0.49	0.41	0.35	0.27	0.22	
	0.30		0.83	0.71	0.62	0.55	0.45	0.38	0.32	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.42	0.33	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.20	
0.30	0.50	0.20	0.94	0.76	0.65	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.28	0.23	0.19	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.18	0.15	
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 = 1.25								
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	0.20	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		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
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	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.12	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:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											