

Report No.:

Test Time: 17.11.2020 15:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 80LED 0,764A 2x100W 4000K opal

Luminous Length (mm): 1550

Luminous Width (mm): 60

Luminous Height (mm): 83

Voltage: 221.3 V

Current: 0.883 A

Power: 192.44 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 14971.2 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 14971.2 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.9, 163.2, 162.5, 162.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.8, 115.4, 115.1, 115.0

Luminaire Efficacy Rating (LER): 77.85

Central Intensity: 5063.78 cd

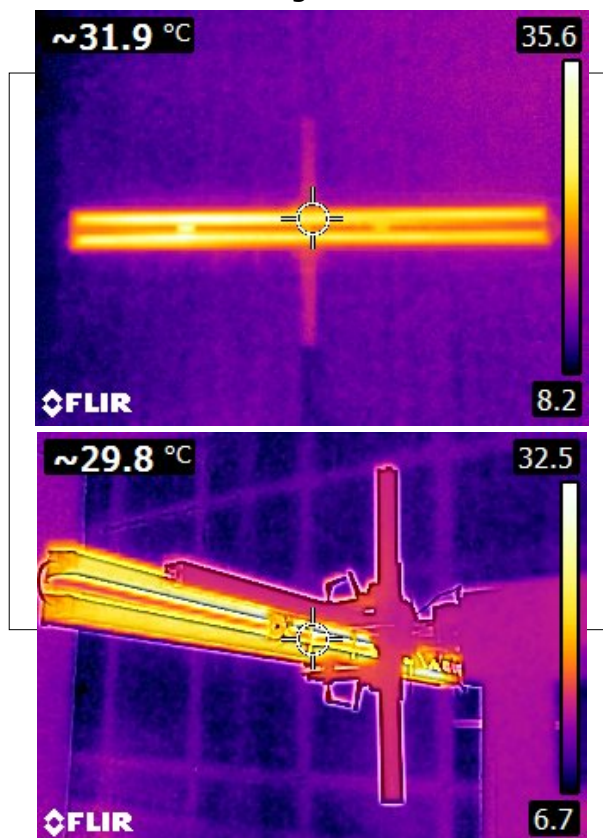
Max. Intensity: 5078.9 cd

Pos of Max. Intensity: H135 V0

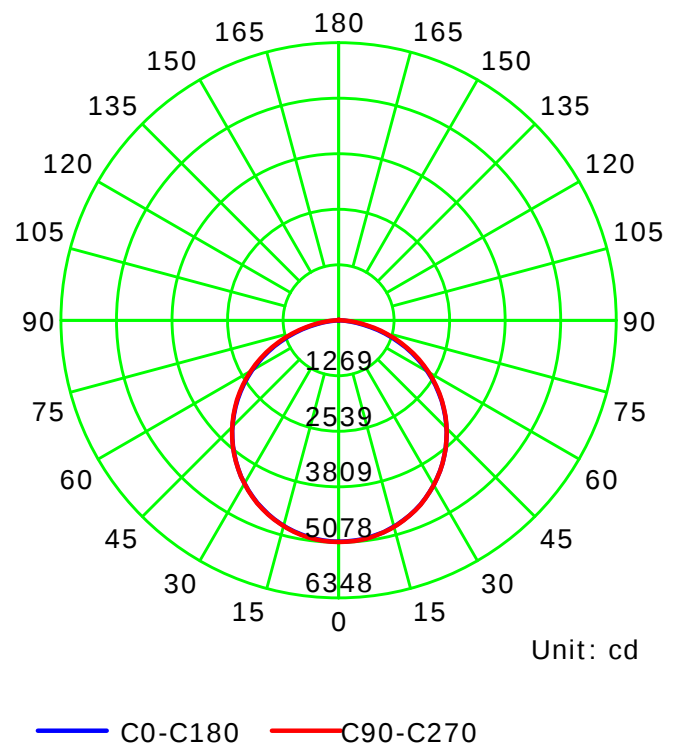
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.27

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

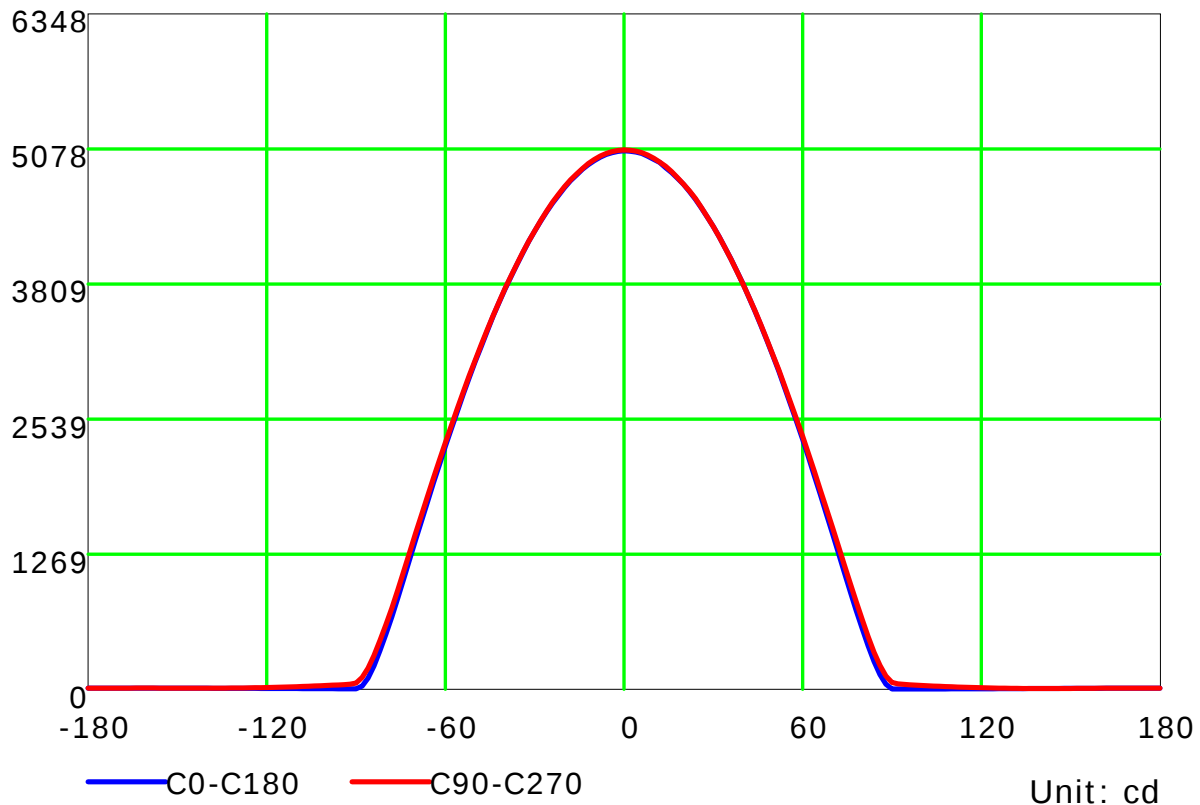
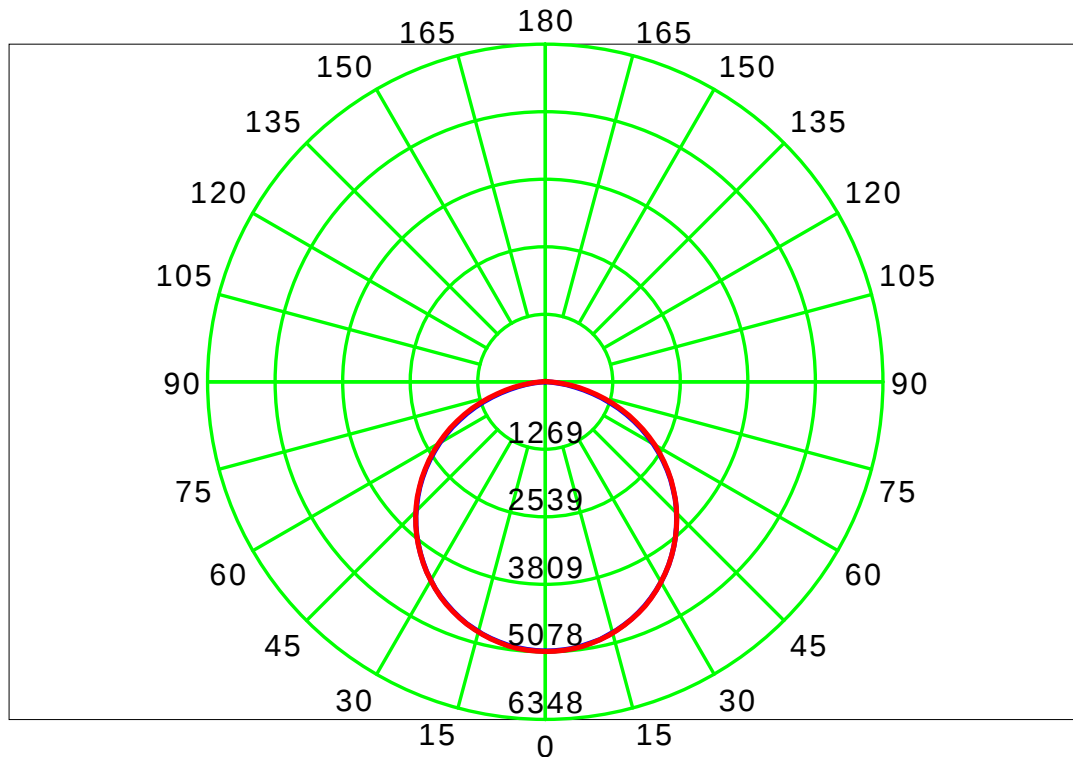
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

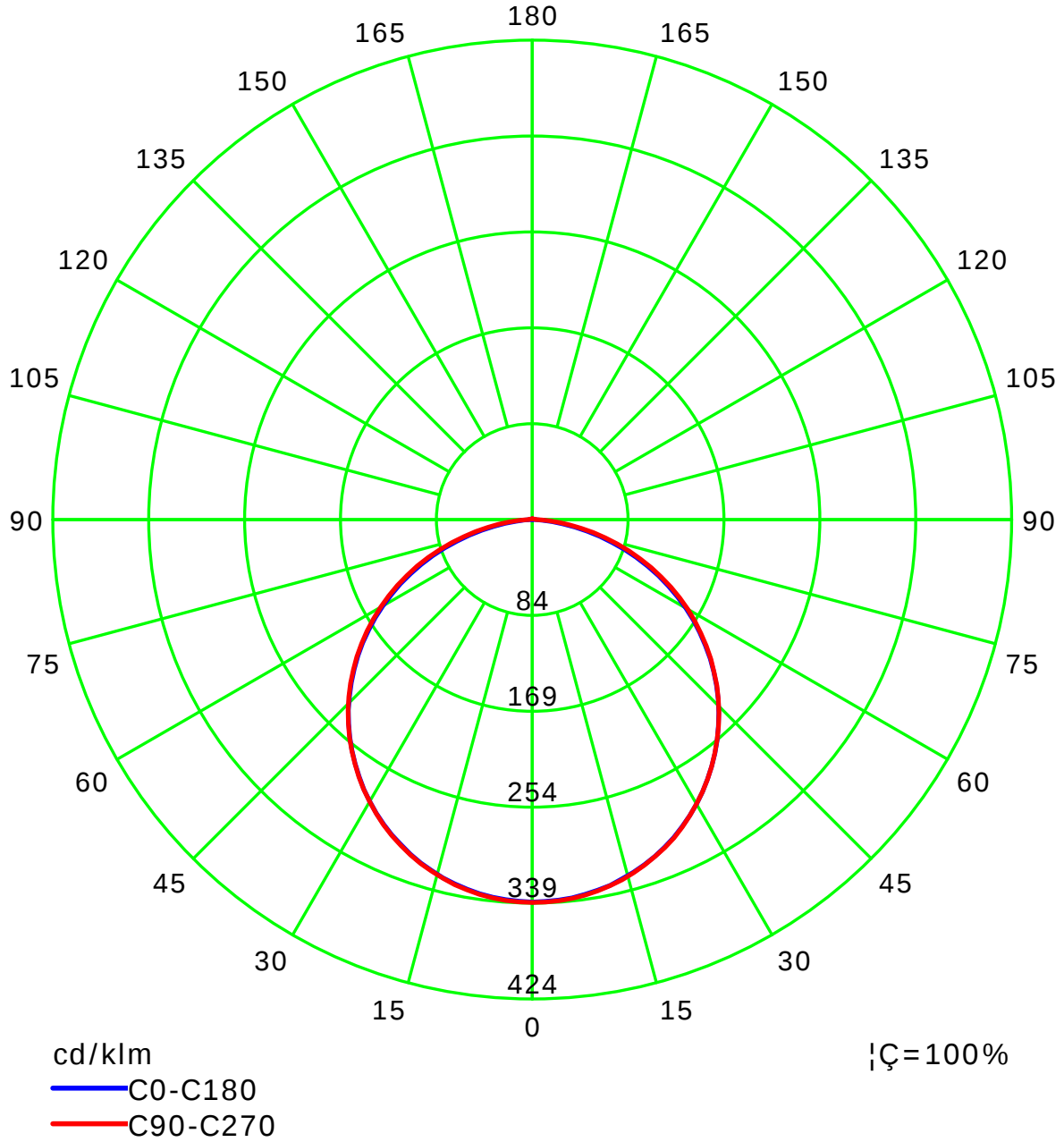
Luminous Intensity Distribution Curve



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Test Lab:
Test Type: TYPE C
Temperature:
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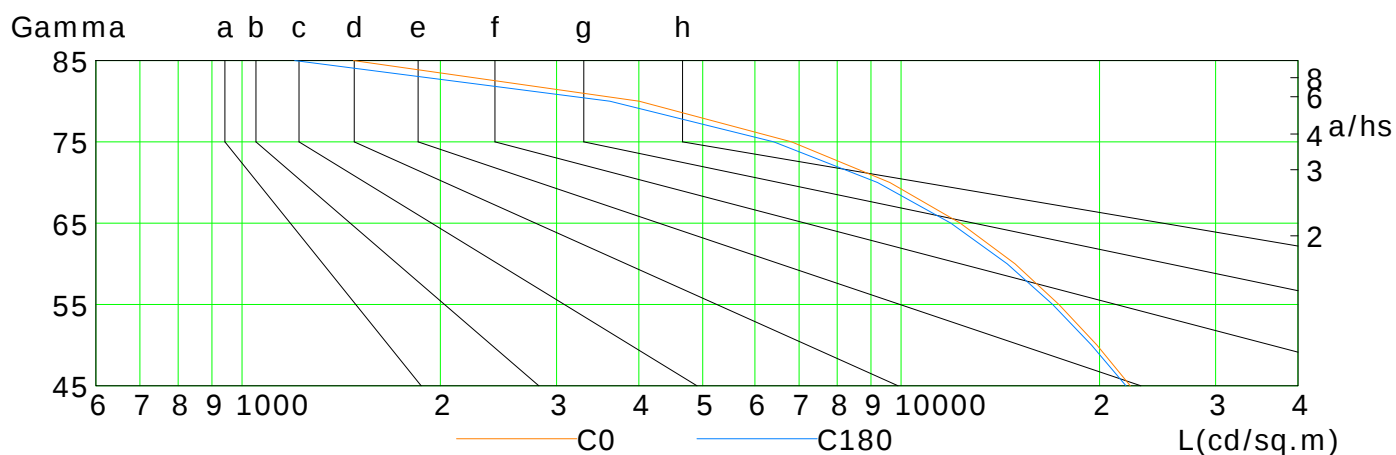
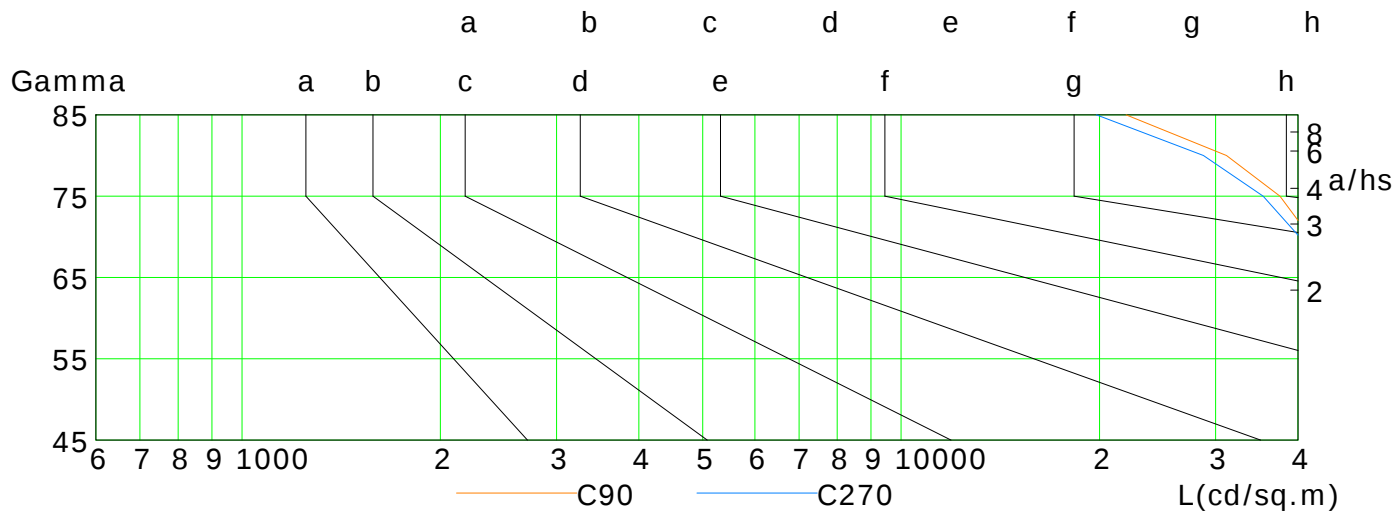
Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

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	22261	19820	17355	14889	12297	9611	6821	4005	1476
C90	50425	49431	48283	46838	44679	41775	37559	31161	21944
C180	21929	19451	16981	14481	11898	9206	6407	3614	1202
C270	49716	48635	47345	45629	43429	40211	35415	28757	19788

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

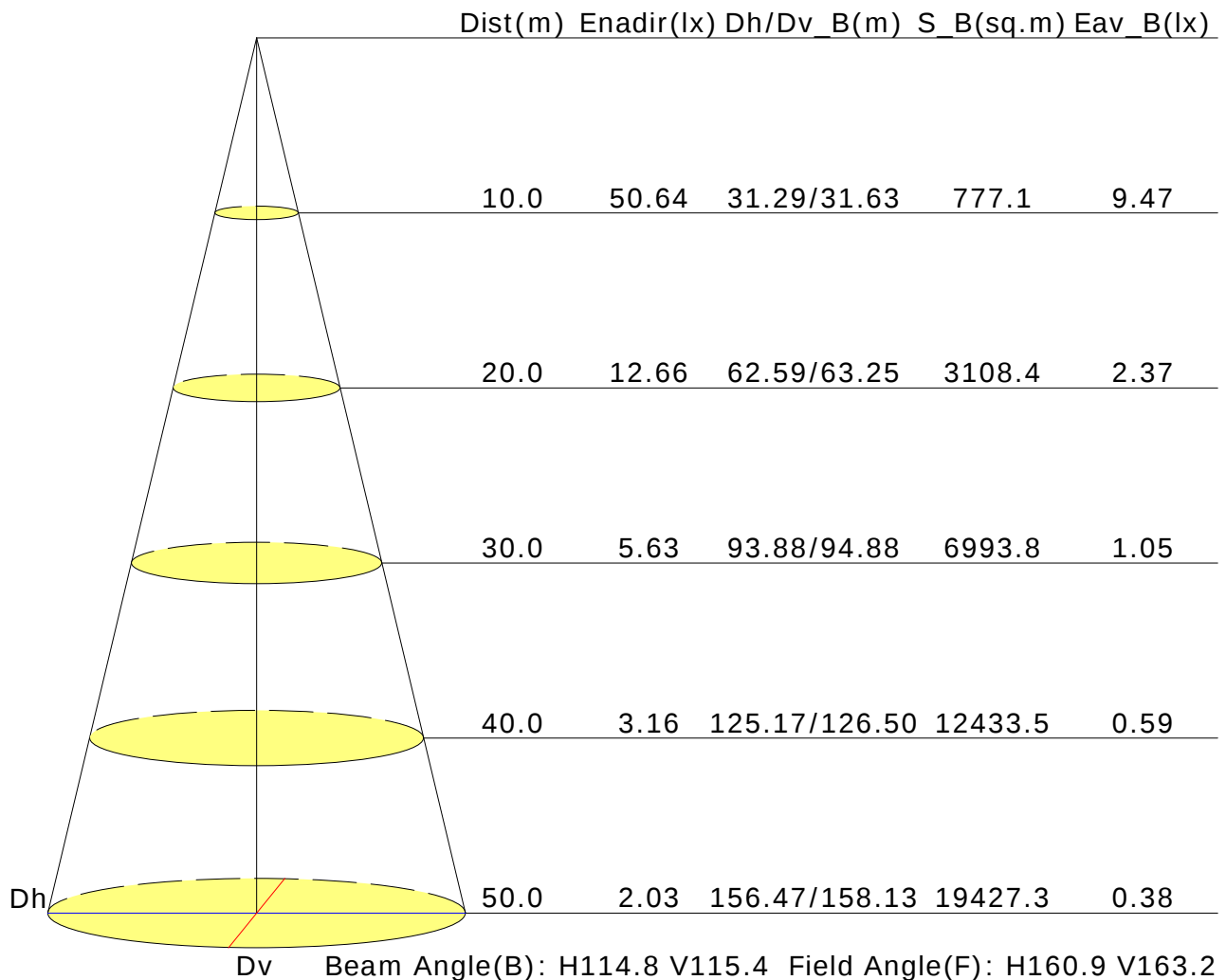
Test Device: LSG-1800B

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	22.7	24.1	23.0	24.4	24.6	24.7	26.1	25.0	26.3	26.6
3H	23.8	25.1	24.1	25.3	25.6	26.2	27.5	26.6	27.8	28.1
4H	24.1	25.3	24.5	25.6	25.9	26.8	28.0	27.2	28.3	28.6
6H	24.3	25.4	24.7	25.7	26.1	27.3	28.4	27.6	28.7	29.0
8H	24.3	25.4	24.7	25.7	26.0	27.4	28.5	27.8	28.8	29.1
12H	24.3	25.3	24.7	25.7	26.0	27.4	28.5	27.8	28.8	29.2
X=4H Y=2H	23.4	24.6	23.7	24.9	25.2	25.0	26.2	25.3	26.5	26.8
3H	24.6	25.6	25.0	26.0	26.3	26.6	27.7	27.0	28.0	28.4
4H	25.0	25.9	25.4	26.3	26.7	27.3	28.3	27.7	28.6	29.0
6H	25.2	26.1	25.7	26.5	26.9	27.8	28.7	28.3	29.1	29.5
8H	25.3	26.0	25.7	26.5	26.9	28.0	28.8	28.4	29.2	29.6
12H	25.3	26.0	25.8	26.4	26.9	28.1	28.8	28.6	29.2	29.7
X=8H Y=4H	25.2	26.0	25.7	26.4	26.9	27.4	28.2	27.8	28.6	29.0
6H	25.6	26.2	26.0	26.6	27.1	28.0	28.6	28.5	29.0	29.5
8H	25.6	26.2	26.1	26.6	27.1	28.2	28.7	28.7	29.2	29.7
12H	25.7	26.1	26.2	26.6	27.1	28.3	28.8	28.8	29.3	29.8
X=12H Y=4H	25.3	25.9	25.7	26.4	26.8	27.4	28.1	27.8	28.5	28.9
6H	25.6	26.1	26.1	26.6	27.1	28.0	28.5	28.5	29.0	29.5
8H	25.7	26.2	26.2	26.6	27.2	28.2	28.7	28.7	29.1	29.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.1/-0.2				
S=1.5H	+0.4/-0.7					+0.5/-0.6				
S=2.0H	+0.7/-1.3					+1.1/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 14971lm ($8\log(F/F_0) = 9.4$).

C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

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	0.56	0.66	0.74	0.79	0.86	0.92	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.96	
	0.20		0.41	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.52	0.62	0.69	0.73	0.80	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.64	0.72	0.77	0.81	0.86	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85	
Rating:192W 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	1.01	0.84	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	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	0.97	0.80	0.68	0.59	0.47	0.43	0.34	0.26	0.21	
	0.30		0.83	0.70	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.29	0.23	0.19	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.45	0.37	0.32	0.25	0.20	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.19	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15	
Rating:192W 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	0.21	0.21	0.22	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	0.10	0.12	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.18	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	0.20	0.20	0.20	0.21	
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:192W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												