

Report No.:

Test Time: 12.10.2020 10:24

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Description: FI 171 4x24LED 32W 5000K opal

Luminous Length (mm): 605

Luminous Width (mm): 172

Luminous Height (mm): 203

Voltage: 221.1 V

Current: 0.149 A

Power: 31.98 W

Power Factor: 0.967

Photometric Results

CIE Class: Direct

Measurement Flux: 3146.8 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 3146.8 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.8, 163.5, 164.0, 164.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.4, 112.0, 112.2, 112.2

Luminaire Efficacy Rating (LER): 98.45

Central Intensity: 1084.51 cd

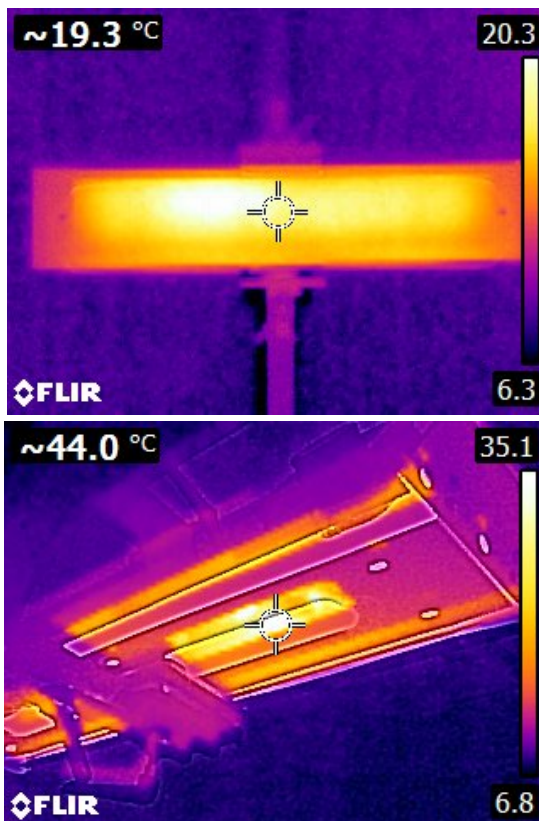
Max. Intensity: 1090.29 cd

Pos of Max. Intensity: H157.5 V0

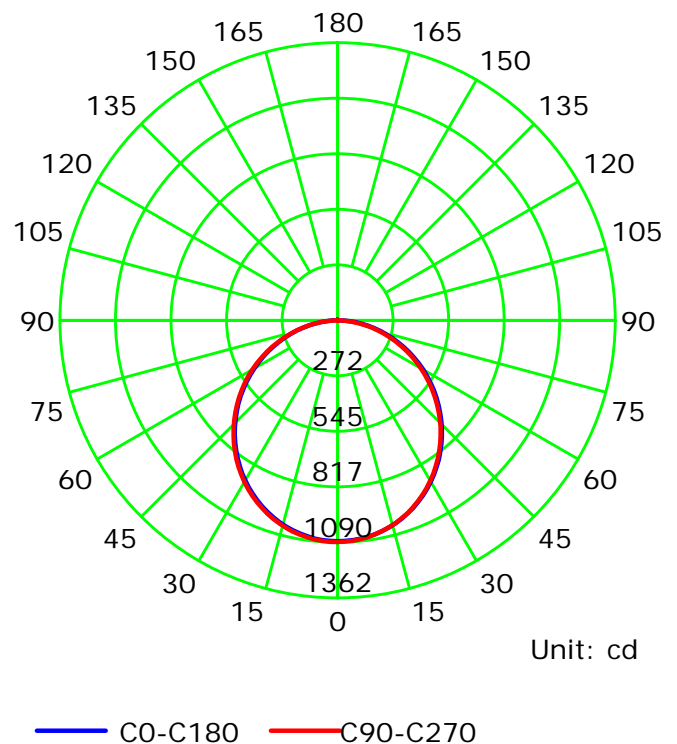
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.25

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

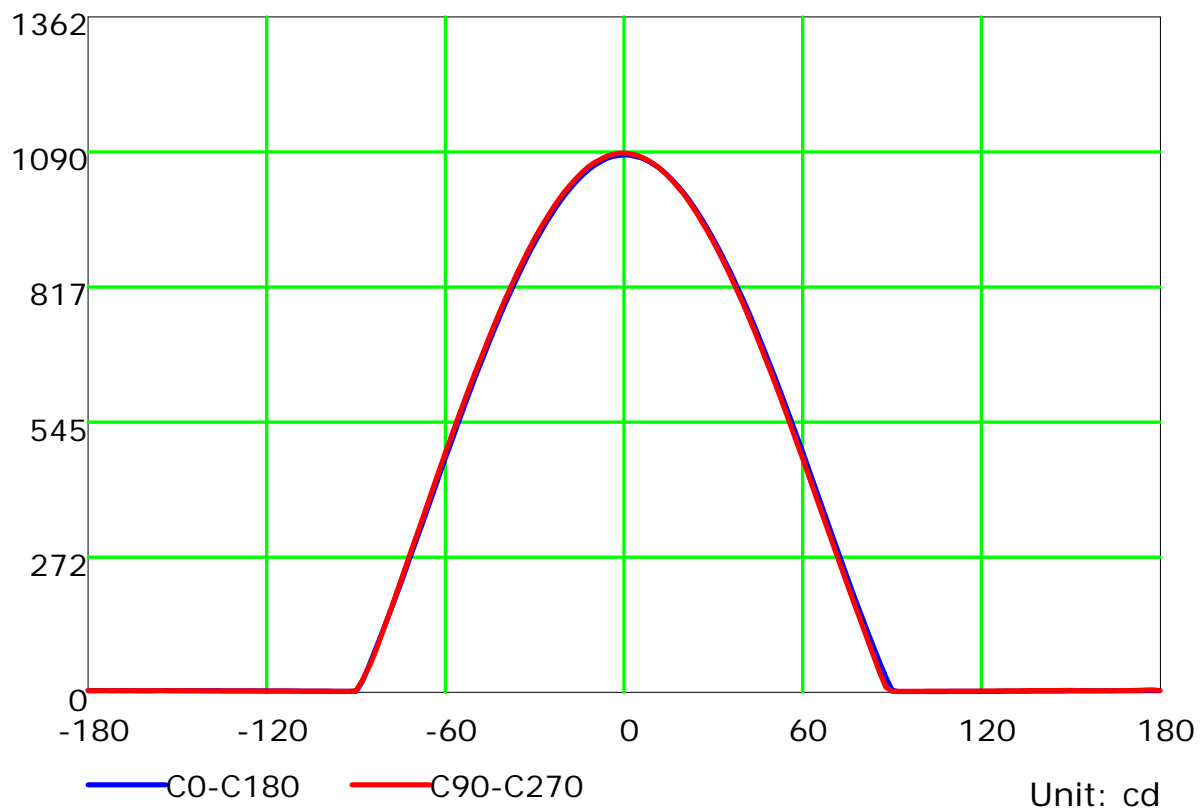
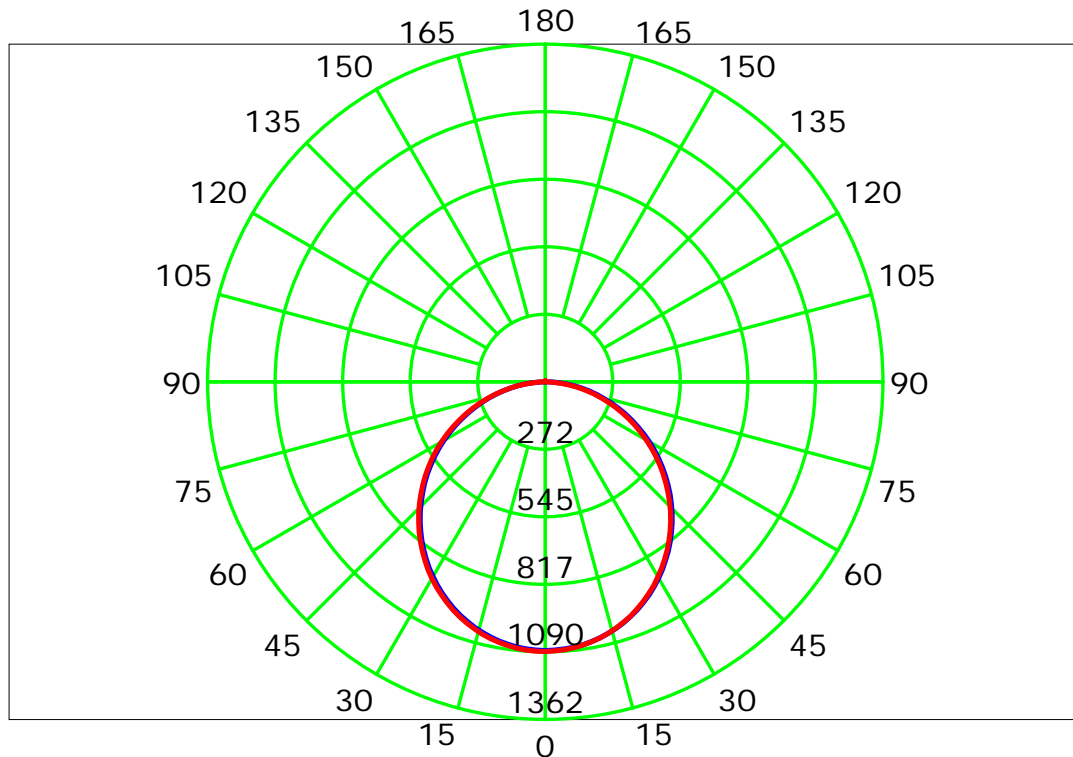
Test Device: LSG-1800B

Distance: 12.682 m

Humidity:

Inspector:

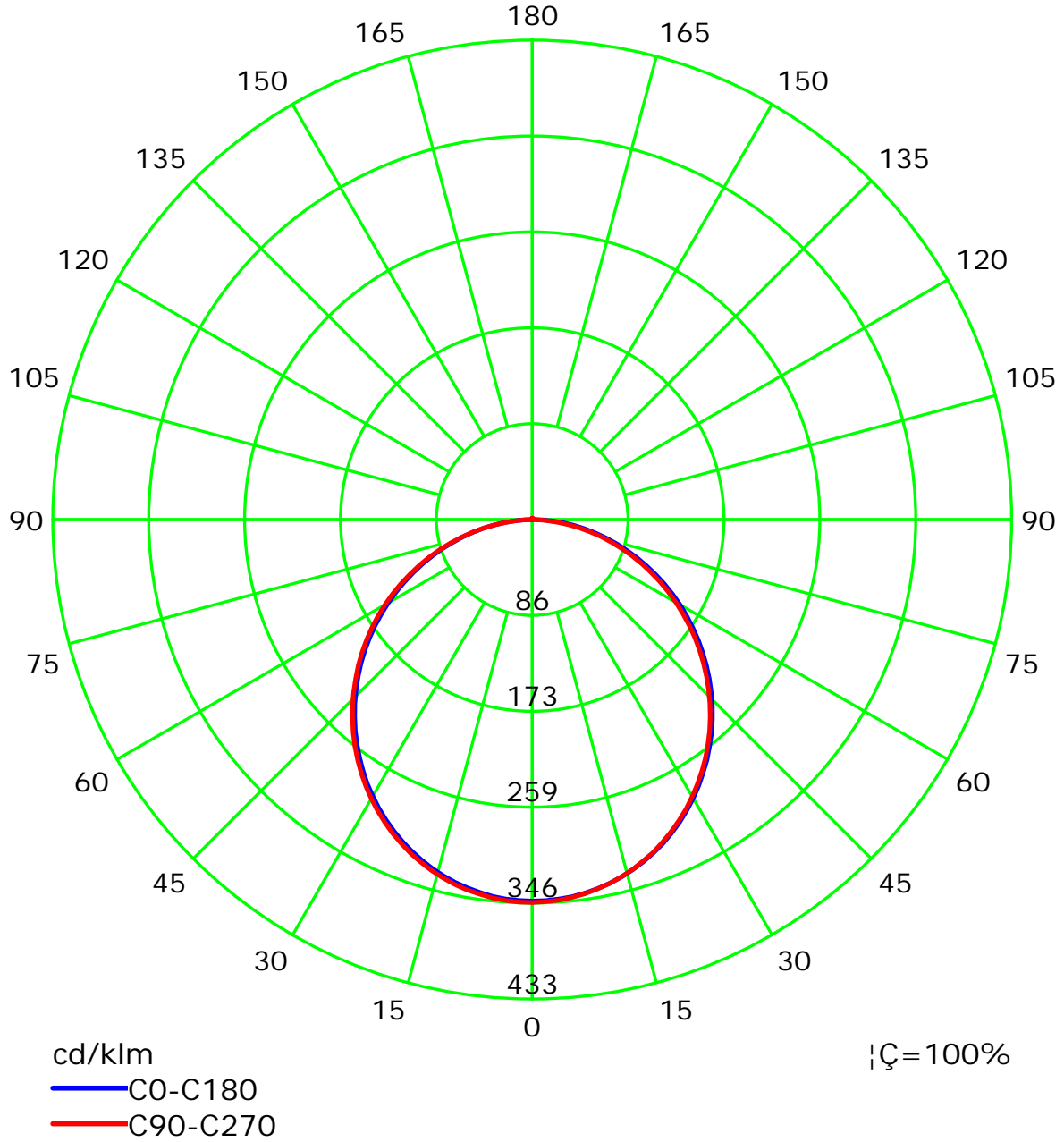
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

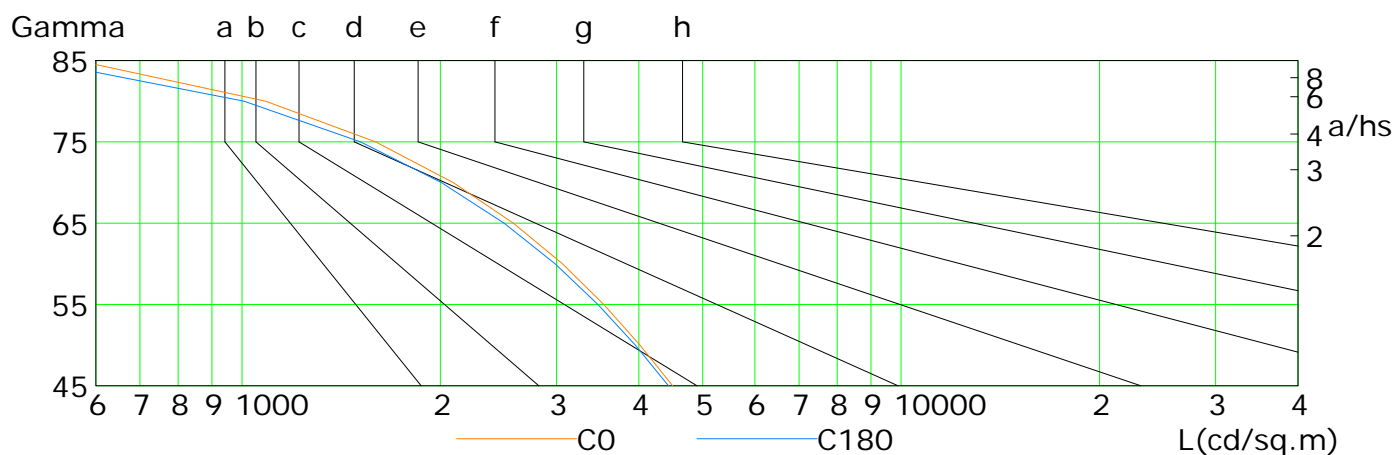
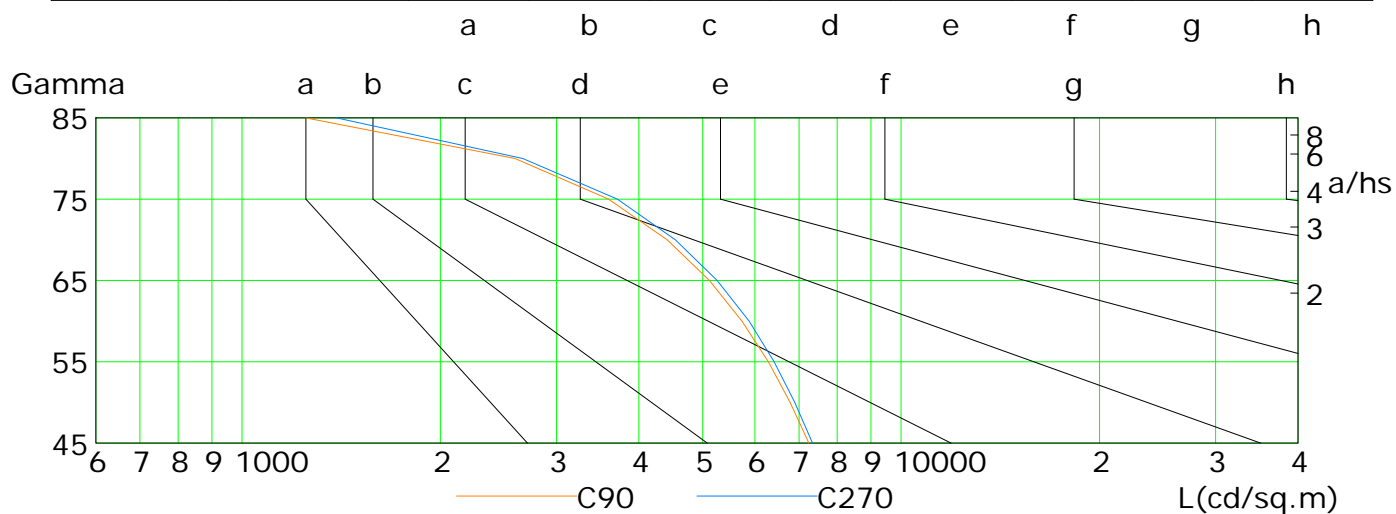
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Test Device: LSG-1800B
Distance: 12.682 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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	4501	4016	3539	3064	2580	2091	1594	1086	563
C90	7245	6785	6287	5736	5118	4417	3600	2597	1249
C180	4435	3951	3467	2986	2497	2006	1512	1007	487
C270	7336	6897	6416	5880	5259	4545	3711	2667	1391

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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

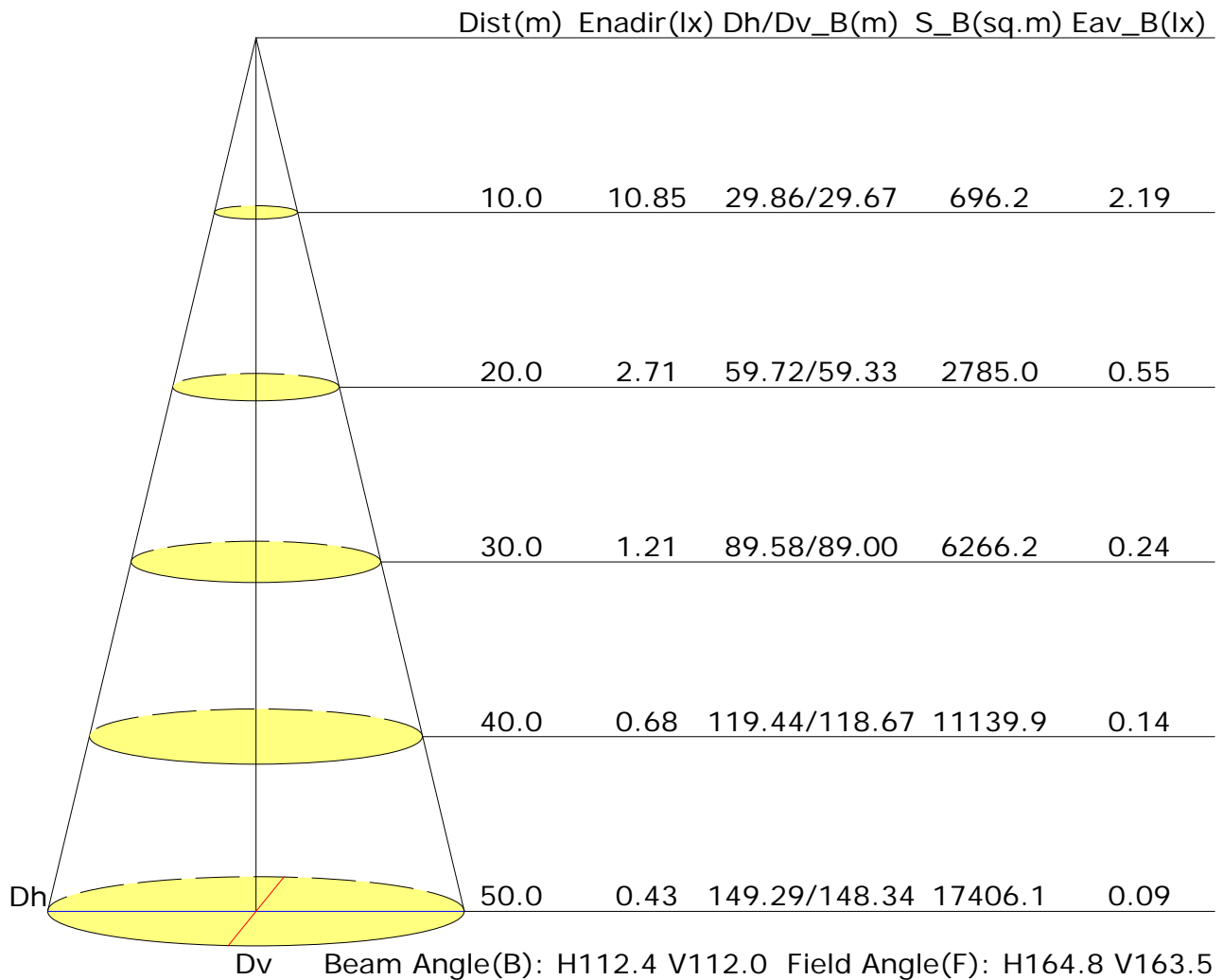
Test Device: LSG-1800B

Distance: 12.682 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	17.0	18.4	17.3	18.6	18.9	18.1	19.4	18.4	19.7	20.0
3H	18.1	19.4	18.5	19.7	20.0	19.4	20.7	19.8	21.0	21.3
4H	18.5	19.7	18.9	20.0	20.4	20.0	21.2	20.3	21.5	21.8
6H	18.8	19.9	19.2	20.2	20.6	20.3	21.4	20.7	21.8	22.1
8H	18.9	20.0	19.2	20.3	20.6	20.4	21.5	20.8	21.8	22.2
12H	18.9	19.9	19.3	20.3	20.6	20.4	21.5	20.8	21.8	22.2
X=4H Y=2H	17.5	18.7	17.9	19.0	19.4	18.4	19.6	18.8	19.9	20.2
3H	18.9	19.9	19.3	20.3	20.6	20.0	21.0	20.4	21.3	21.7
4H	19.4	20.3	19.8	20.7	21.1	20.6	21.5	21.0	21.9	22.3
6H	19.7	20.6	20.2	21.0	21.4	21.0	21.9	21.5	22.3	22.7
8H	19.9	20.6	20.3	21.0	21.5	21.2	21.9	21.6	22.3	22.8
12H	19.9	20.6	20.4	21.0	21.5	21.2	21.9	21.7	22.4	22.8
X=8H Y=4H	19.6	20.4	20.1	20.8	21.2	20.7	21.5	21.2	21.9	22.3
6H	20.1	20.7	20.6	21.1	21.6	21.3	21.9	21.7	22.3	22.8
8H	20.2	20.8	20.7	21.2	21.7	21.4	22.0	21.9	22.4	22.9
12H	20.3	20.8	20.8	21.3	21.8	21.5	22.0	22.0	22.5	23.0
X=12H Y=4H	19.6	20.3	20.1	20.7	21.2	20.7	21.4	21.2	21.8	22.3
6H	20.1	20.7	20.6	21.1	21.6	21.3	21.8	21.8	22.3	22.8
8H	20.3	20.8	20.8	21.2	21.8	21.5	21.9	22.0	22.4	22.9
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.1				
S=1.5H	+0.4/-0.6					+0.4/-0.5				
S=2.0H	+0.7/-1.1					+0.9/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 3147lm ($8\log(F/F_0) = 4.0$).

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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: 12.682 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	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.75	0.81	0.85	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	0.98	
	0.30		0.47	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.73	0.80	0.84	0.88	0.92	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	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	
<p>Rating: 32W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.42	0.36	0.28	0.23	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.63	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.82	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
<p>Rating: 32W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.09	0.11	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	0.12	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
<p>Rating: 32W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											