



IDEA

/BALIZA LUMA I 13W 24V 520X372X200MM (18.AB39.1010.02)



Light Output Ratio:	100.0%	
Luminaire Power:	14.3 W	
SHR Nominal:	1.50	Calculated using the TM5
SHR Maximum:	1.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:23.6DEG
Test Date:2025-11-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:60.0%
Test Distance:10.220m [K=1.0000]
Remarks:



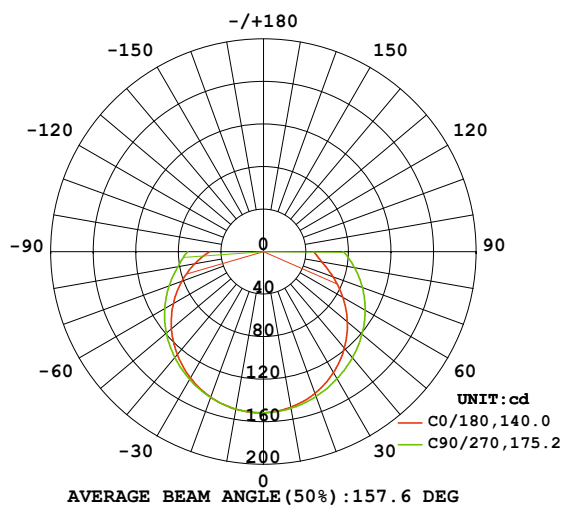
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LUMINAIRE PHOTOMETRIC TEST REPORT

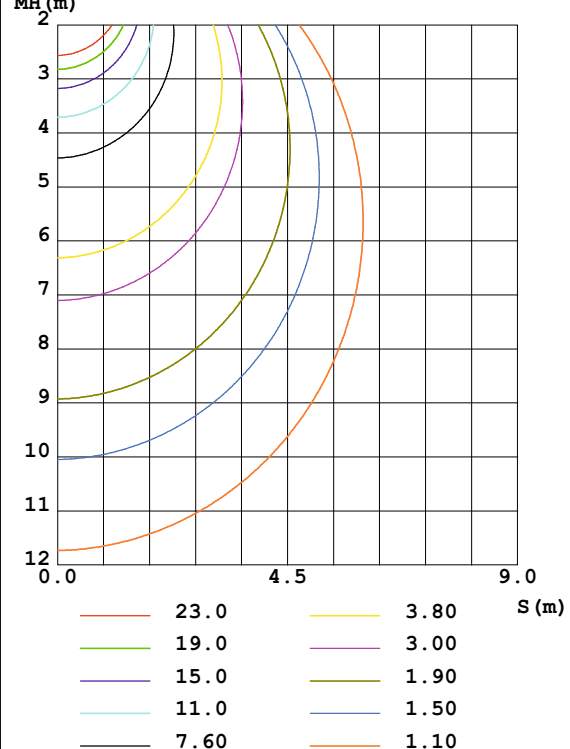
Test:U:23.999V I:0.6124A P:14.696W PF:1.0000 Freq:49.99Hz Lamp Flux:641.812x1 lm		
NAME: BALIZA LUMA I 13W 24V 520X372X200MM	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2500867
MFR.: IDEA ILUMINACIÓN S.A.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 44.89 lm/W
MODEL	18.AB39.1010.02	Imax (cd)	151.5	S/MH (C0/180)	1.35	
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	1.37	
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	641.81	η UP,DN (C0-180)	0.0,49.2	
NOMINAL FLUX (lm)	641.812	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	24	η down (%)	100.0	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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ZONAL FLUX DIAGRAM

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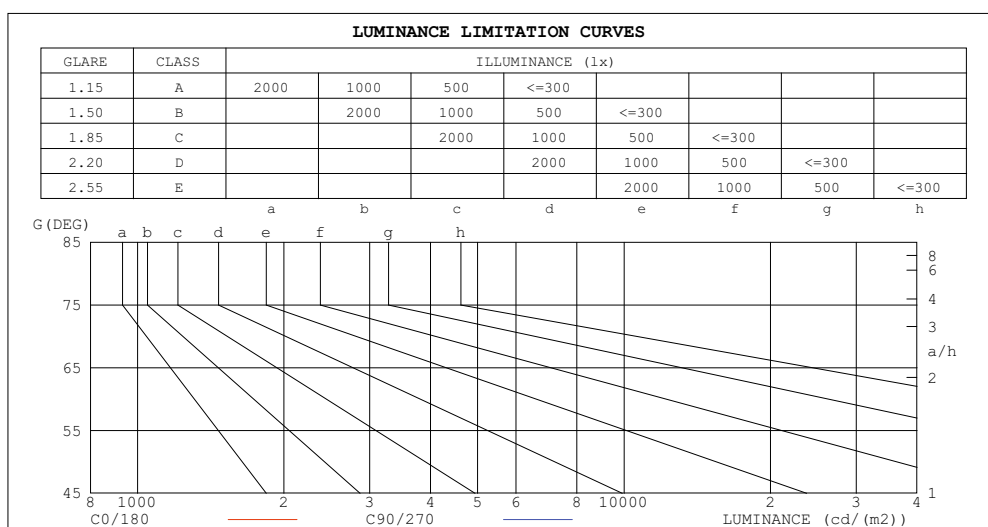
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	148.5	149.5	150.5	150.3					0- 10	14.37	14.37	2.24, 2.24
20	141.8	144.9	145.6	145.8					10- 20	41.70	56.07	8.74, 8.74
30	131.5	138.1	137.3	138.8					20- 30	65.00	121.1	18.9, 18.9
40	118.3	130.1	126.3	129.9					30- 40	82.43	203.5	31.7, 31.7
50	103.0	120.9	113.1	119.3					40- 50	92.98	296.5	46.2, 46.2
60	86.19	110.4	97.93	107.3					50- 60	96.19	392.7	61.2, 61.2
70	69.65	99.01	81.89	94.47					60- 70	92.60	485.3	75.6, 75.6
80	55.76	86.97	65.64	81.81					70- 80	83.82	569.1	88.7, 88.7
90	47.20	75.11	50.71	71.52					80- 90	72.72	641.8	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	584230	929755
80	321087	500844
75	240300	359371
70	203637	289487
65	184023	248100
60	172373	220818
55	164997	202002
50	160166	188074
45	156747	177728

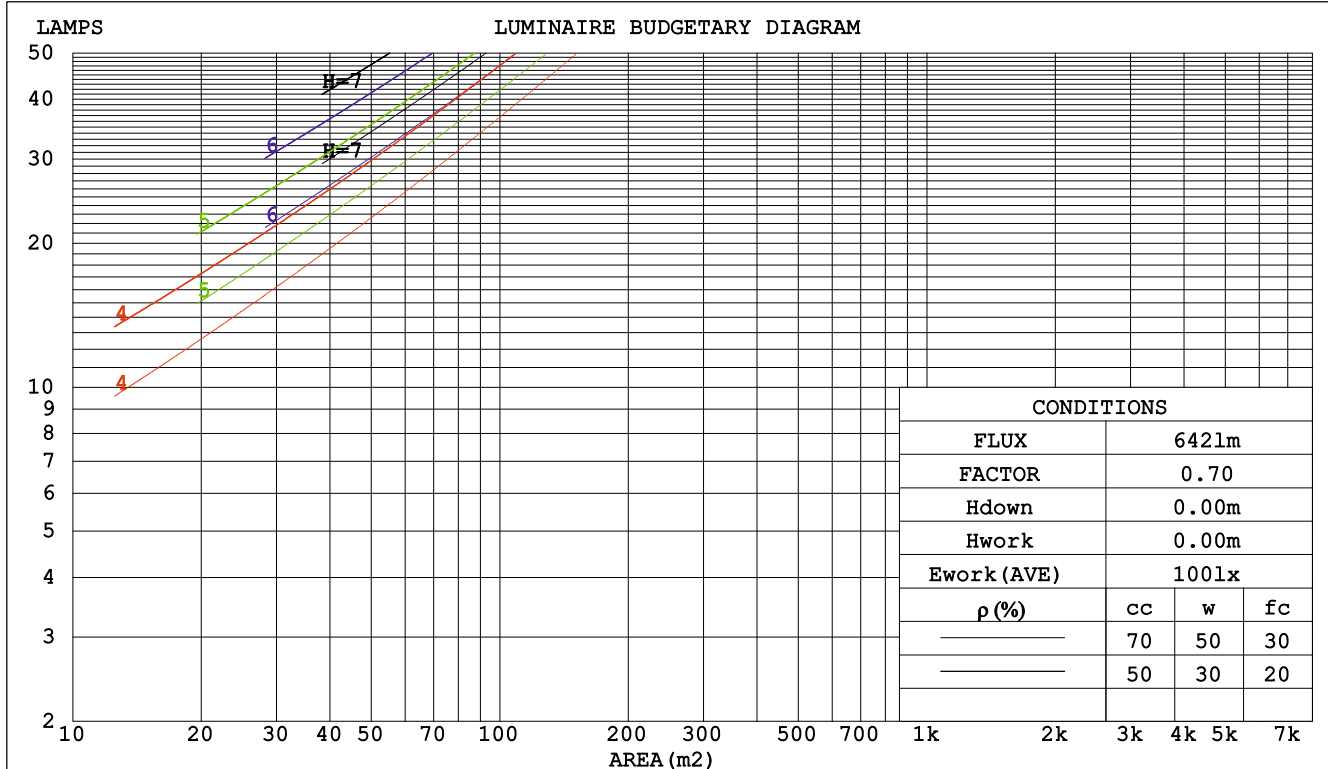
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	.97	.91	.85	.94	.89	.84	.90	.85	.81	.86	.82	.78	.82	.79	.76	.73
2.0	.82	.73	.66	.80	.72	.65	.76	.69	.63	.72	.67	.62	.69	.64	.60	.58
3.0	.70	.60	.53	.69	.59	.52	.66	.58	.51	.63	.56	.50	.60	.54	.49	.46
4.0	.62	.51	.43	.60	.50	.43	.57	.49	.42	.55	.48	.42	.53	.46	.41	.39
5.0	.55	.44	.37	.53	.44	.36	.51	.42	.36	.49	.41	.35	.47	.40	.35	.33
6.0	.49	.39	.32	.48	.38	.31	.46	.37	.31	.44	.36	.31	.42	.36	.30	.28
7.0	.44	.34	.28	.43	.34	.27	.42	.33	.27	.40	.32	.27	.39	.32	.27	.24
8.0	.40	.31	.24	.39	.30	.24	.38	.30	.24	.37	.29	.24	.35	.29	.24	.22
9.0	.37	.28	.22	.36	.27	.22	.35	.27	.21	.34	.26	.21	.33	.26	.21	.19
10.0	.34	.25	.20	.33	.25	.20	.32	.25	.19	.31	.24	.19	.30	.24	.19	.17



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UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working 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	30.4	32.1	30.6	32.3	32.5	31.3	33.0	31.6	33.2	33.4
3H	32.7	34.3	33.0	34.5	34.8	34.0	35.7	34.4	35.9	36.2
4H	33.9	35.5	34.3	35.7	36.0	35.6	37.2	35.9	37.4	37.7
6H	35.3	36.8	35.6	37.1	37.4	37.3	38.8	37.7	39.1	39.4
8H	36.1	37.5	36.4	37.8	38.1	38.3	39.7	38.6	40.0	40.3
12H	37.0	38.4	37.3	38.7	39.0	39.4	40.8	39.8	41.1	41.4
4H 2H	31.4	33.0	31.7	33.2	33.5	32.0	33.6	32.4	33.9	34.1
3H	33.9	35.3	34.3	35.6	36.0	35.0	36.4	35.4	36.7	37.1
4H	35.4	36.7	35.7	37.0	37.3	36.8	38.0	37.1	38.4	38.7
6H	36.9	38.1	37.3	38.5	38.8	38.7	39.9	39.1	40.2	40.6
8H	37.8	38.9	38.2	39.3	39.7	39.8	40.9	40.2	41.3	41.7
12H	38.8	39.8	39.2	40.2	40.7	41.0	42.1	41.5	42.4	42.9
8H 4H	36.2	37.3	36.6	37.7	38.1	37.3	38.4	37.7	38.8	39.2
6H	38.0	39.0	38.5	39.4	39.9	39.5	40.5	40.0	40.9	41.3
8H	39.1	40.0	39.6	40.4	40.9	40.8	41.7	41.3	42.1	42.5
12H	40.4	41.1	40.8	41.6	42.1	42.3	43.1	42.8	43.5	44.0
12H 4H	36.4	37.5	36.9	37.8	38.3	37.4	38.4	37.8	38.8	39.2
6H	38.4	39.3	38.9	39.7	40.2	39.7	40.6	40.2	41.0	41.5
8H	39.6	40.4	40.1	40.9	41.3	41.1	41.9	41.6	42.3	42.8
Variations with the observer position at spacings (CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

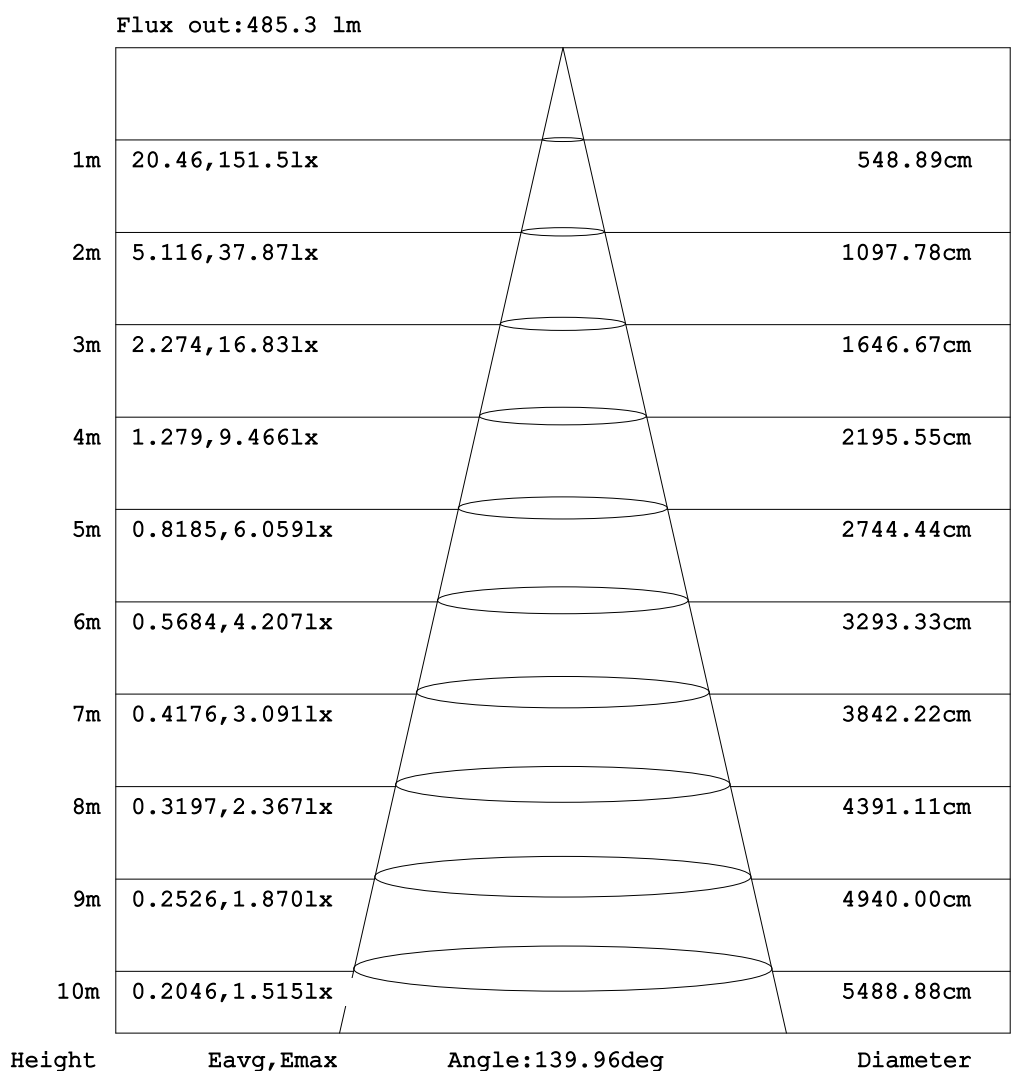
CIE Pub.117, 641.8 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -1.5$)
Area: 0.001 m²

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Humidity: 60.0%
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Remarks:



AAI Figure



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

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