

# TREPI



\*Imágenes a título ilustrativo

## LUMINARIA LED BRAZO FIJO

# 50w

5000 LM


Certificación  
Seguridad Eléctrica



Luz FRÍA

## LUMINARIA LED BRAZO FIJO | 50W

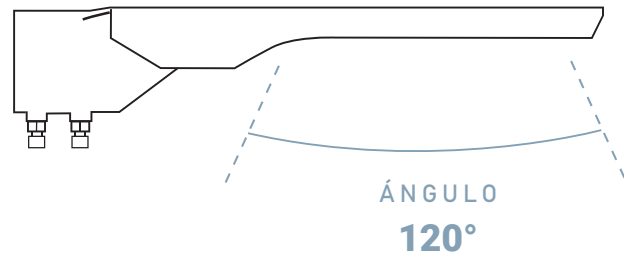
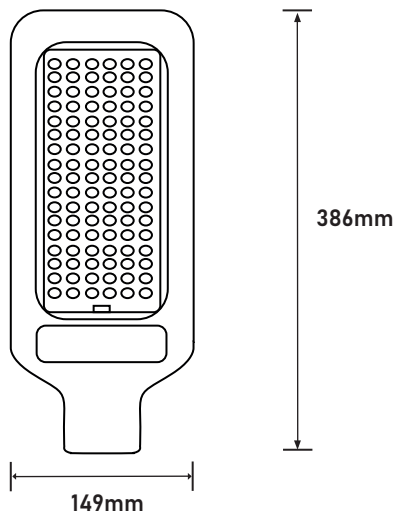
Luminaria led **FIJA 50W**. Ideal para áreas urbanas y espacios públicos como calles, avenidas, parques, plazas, etc. Proporciona una iluminación clara y uniforme, mejorando la visibilidad y seguridad para conductores y peatones.

 Potencia **50W**  
Tensión **100-265V**

 Luz fría  
**6000K**

 **0,9** Factor de  
Potencia

**LM 5.000 LM**  
(100 LM/W)



### ESPECIFICACIONES TÉCNICAS

MODELO	IM2102001	TEMPERATURA LUZ	Fría 6000K
POTENCIA	50W	FACTOR DE POTENCIA	0.9
LÚMENES POR WATT	100 LMxW	EFICIENCIA ENERGÉTICA	A+
FLUJO LUMINOSO	5.000 LM	TAMAÑO DE LÁMPARA	273x127mm
VOLTAJE	100-265V	PROTECCIÓN IP	IP65
FRECUENCIA	50 hz	FACTOR IK	IK06
ANGULO	110°	MATERIAL DEL CUERPO	Aluminio
CRI	>80	MATERIAL DEL LENTE	PC
VIDA ÚTIL	25.000 hs	TIPO DE CHIP	SMD2835 - 60 Chips
VIDA ÚTIL (ON/OFF)	25.000 maniobras	SECCIÓN DEL CABLE	3x0,75
TEMPERATURA DE TRABAJO	-25°C +40°C	MEDIDA DEL CABLE	200mm
TAMAÑO DE LUMINARIA	386x149x92mm	BRAZO	Fijo
ORIFICIO P/ CAÑO	60mm máximo	MEDIDA DEL BRAZO	77 mm
PESO DE LUMINARIA	0,763Kg	GARANTÍA	2 años

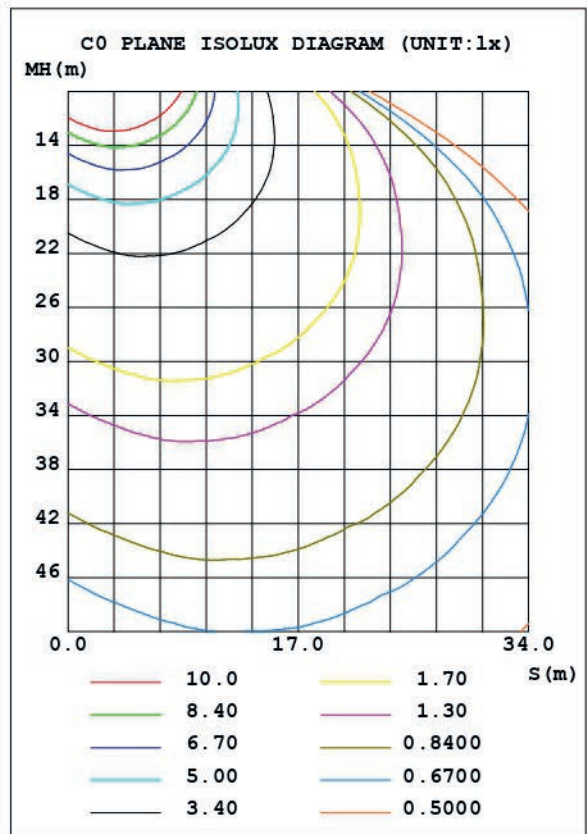
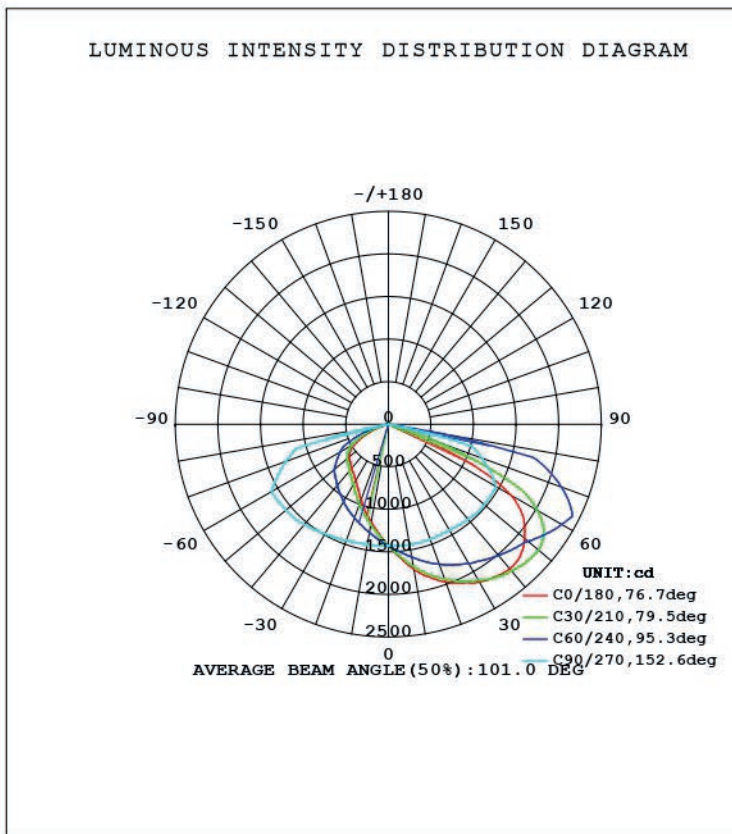
### PRECAUCIONES

- La instalación de la luminaria debe ser realizada por personal técnico calificado.
- Trabaje solo bajo condiciones seguras (con el módulo y herramientas adecuadas).
- No reemplazar o remover luminarias sin antes realizar la desconexión de la alimentación.
- La luminaria no debe ser utilizada sin todas las cubiertas colocadas en su correcta posición.
- No conecte esta luminaria mientras está en su embalaje.

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.90 lm/W			
MODEL		I <sub>max</sub> (cd)	2566	S/MH (C0/180)	2.04
NOMINAL POWER (W)	48	LOR (%)	100.0	S/MH (C90/270)	1.56
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	6240.7	η UP, DN (C0-180)	0.0, 49.7
NOMINAL FLUX (lm)	6240.69	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	229.1	η down (%)	100.0	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity: 55.0%  
Test Distance: 8.852m [K=1.0000]  
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	1571	1533	1431	1332	1292	1332	1431	1534	0- 5	34.20	34.20	0.55,0.55
10	1729	1648	1435	1238	1169	1238	1435	1648	5- 10	102.8	137.0	2.2,2.2
15	1856	1764	1438	1149	1055	1152	1439	1769	10- 15	171.9	308.9	4.95,4.95
20	1972	1864	1437	1063	944.9	1073	1455	1875	15- 20	240.2	549.1	8.8,8.8
25	2058	1956	1436	971.8	844.5	989.3	1471	1977	20- 25	306.9	856.1	13.7,13.7
30	2140	2030	1436	886.5	769.7	908.9	1487	2074	25- 30	371.3	1227	19.7,19.7
35	2188	2097	1448	812.7	715.5	838.7	1512	2151	30- 35	434.3	1662	26.6,26.6
40	2218	2159	1460	753.1	674.5	782.3	1538	2230	35- 40	494.8	2156	34.6,34.6
45	2188	2214	1472	695.9	634.1	727.1	1563	2302	40- 45	550.1	2707	43.4,43.4
50	2088	2260	1469	642.5	604.5	671.8	1571	2358	45- 50	596.8	3303	52.9,52.9
55	1942	2277	1466	595.6	546.5	623.5	1578	2395	50- 55	631.8	3935	63.1,63.1
60	1655	2230	1464	510.4	432.8	528.8	1585	2332	55- 60	647.8	4583	73.4,73.4
65	918.5	2074	1317	410.4	292.4	411.0	1433	2141	60- 65	612.9	5196	83.3,83.3
70	135.4	1536	1170	278.3	90.61	271.0	1282	1571	65- 70	491.3	5687	91.1,91.1
75	60.55	710.3	1024	143.3	52.64	137.3	1130	736.1	70- 75	355.5	6043	96.8,96.8
80	33.39	71.11	0	33.46	32.63	29.13	0	77.78	75- 80	186.8	6229	99.8,99.8
85	10.82	0	0	0	5.330	0	0	0	80- 85	10.82	6240	100,100
90	1.740	0	0	0	3.448	0	0	0	85- 90	0.4736	6241	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

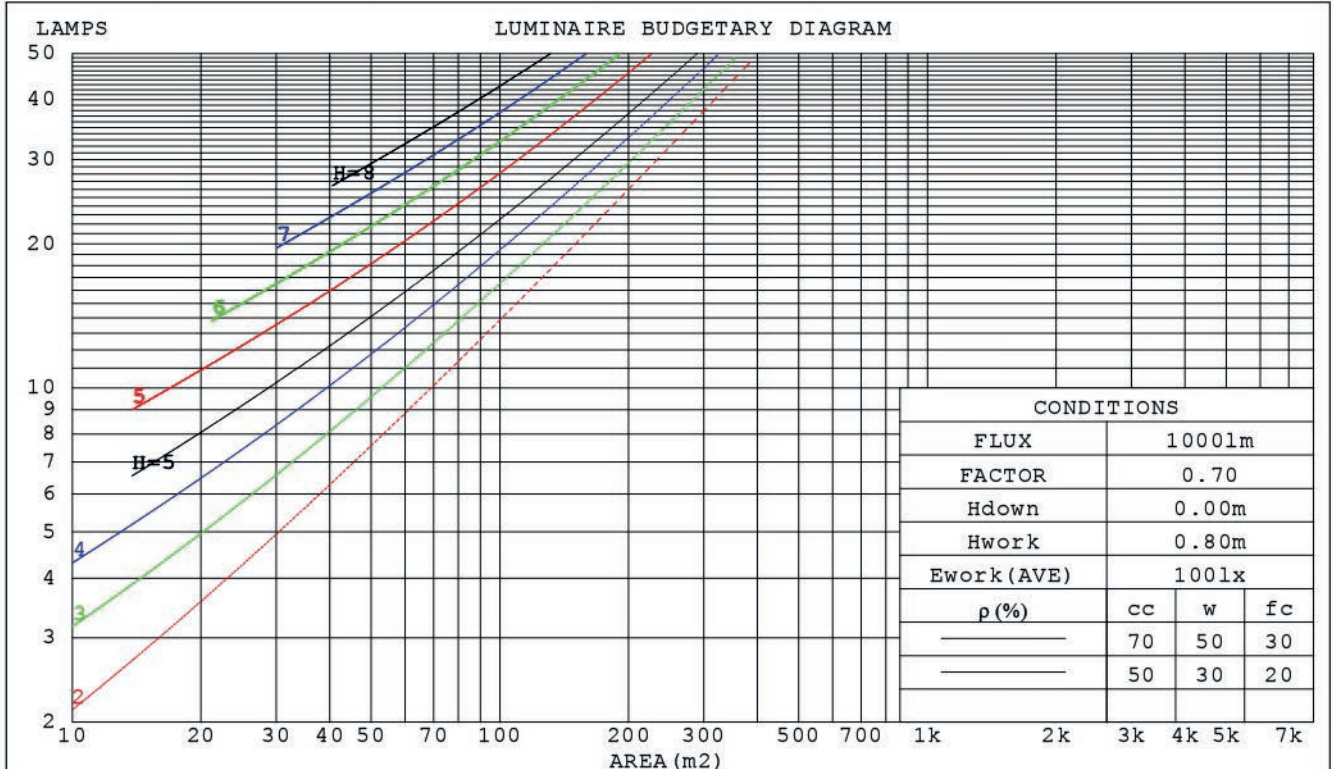
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.83
2.0	.88	.81	.75	.86	.80	.74	.83	.77	.72	.79	.75	.70	.76	.72	.69	.67
3.0	.76	.67	.60	.74	.66	.60	.71	.64	.59	.69	.63	.57	.66	.61	.56	.54
4.0	.66	.57	.49	.65	.56	.49	.62	.55	.48	.60	.53	.48	.58	.52	.47	.45
5.0	.58	.49	.41	.57	.48	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.37
6.0	.52	.42	.35	.51	.42	.35	.49	.41	.35	.47	.40	.34	.46	.39	.34	.32
7.0	.47	.37	.31	.46	.37	.30	.44	.36	.30	.43	.35	.30	.41	.35	.30	.28
8.0	.42	.33	.27	.41	.33	.27	.40	.32	.26	.39	.32	.26	.37	.31	.26	.24
9.0	.38	.30	.24	.38	.29	.24	.36	.29	.23	.35	.28	.23	.34	.28	.23	.21
10.0	.35	.27	.21	.35	.27	.21	.34	.26	.21	.33	.26	.21	.32	.25	.21	.19



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

# FOTOMETRÍA LUMINARIA LED

## BRAZO FIJO | 50W

### WEC AND CCEC

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.323	.183	.058	.315	.180	.057	.302	.173	.055	.290	.167	.054	.279	.161	.052	
2.0	.312	.171	.053	.306	.169	.052	.294	.164	.051	.283	.159	.050	.273	.154	.049	
3.0	.291	.155	.046	.285	.153	.046	.275	.149	.045	.265	.145	.045	.256	.142	.044	
4.0	.268	.139	.041	.263	.138	.041	.254	.135	.040	.245	.132	.040	.237	.129	.039	
5.0	.247	.126	.036	.243	.125	.036	.234	.122	.036	.227	.120	.036	.219	.117	.035	
6.0	.228	.114	.033	.224	.113	.033	.217	.111	.032	.210	.109	.032	.203	.107	.032	
7.0	.212	.105	.030	.208	.104	.030	.201	.102	.029	.195	.100	.029	.189	.098	.029	
8.0	.197	.096	.027	.194	.095	.027	.188	.094	.027	.182	.092	.027	.177	.091	.026	
9.0	.184	.089	.025	.181	.088	.025	.176	.087	.025	.170	.085	.024	.166	.084	.024	
10.0	.172	.083	.023	.170	.082	.023	.165	.081	.023	.160	.080	.023	.156	.078	.022	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.175	.132	.096	.150	.113	.083	.103	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.168	.114	.071	.144	.099	.062	.099	.069	.043	.057	.040	.026	.018	.013	.008	
4.0	.162	.101	.055	.139	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.133	.079	.039	.091	.055	.027	.053	.032	.016	.017	.011	.005	
6.0	.147	.083	.037	.127	.072	.032	.087	.050	.023	.051	.030	.014	.016	.010	.004	
7.0	.140	.076	.031	.121	.066	.027	.083	.046	.019	.048	.027	.012	.016	.009	.004	
8.0	.134	.071	.027	.115	.061	.024	.080	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.066	.024	.110	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.121	.061	.021	.104	.053	.019	.072	.037	.013	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:55.0%  
 Test Distance:8.852m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm										
NAME: LUMINARIA LED BRAZO FIJO   50W					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:		
MFR.: 01.SHIER/SHISan					SUR.:			PROTECTION ANGLE:		
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	31.3	33.0	31.6	33.2	33.4	31.8	33.5	32.1	33.7	33.9
3H	31.5	33.1	31.8	33.3	33.5	34.5	36.0	34.8	36.3	36.5
4H	31.4	32.9	31.8	33.1	33.4	35.8	37.2	36.1	37.5	37.7
6H	31.3	32.7	31.7	33.0	33.3	35.9	37.3	36.3	37.6	37.9
8H	31.3	32.6	31.6	32.9	33.2	35.9	37.2	36.2	37.5	37.8
12H	31.2	32.5	31.6	32.8	33.1	35.8	37.1	36.2	37.4	37.7
4H 2H	32.5	34.0	32.9	34.3	34.5	33.1	34.5	33.4	34.8	35.0
3H	32.9	34.2	33.3	34.5	34.8	36.1	37.4	36.5	37.7	38.0
4H	32.8	34.0	33.2	34.3	34.6	37.8	39.0	38.2	39.3	39.7
6H	32.7	33.7	33.1	34.1	34.5	38.1	39.2	38.5	39.5	39.9
8H	32.7	33.6	33.1	34.0	34.4	38.1	39.0	38.5	39.4	39.8
12H	32.6	33.5	33.1	33.9	34.3	38.1	38.9	38.5	39.3	39.7
8H 4H	33.7	34.6	34.1	35.0	35.4	38.0	38.9	38.4	39.3	39.7
6H	33.6	34.4	34.1	34.8	35.2	38.4	39.2	38.8	39.6	40.0
8H	33.6	34.3	34.0	34.7	35.2	38.3	39.0	38.8	39.5	39.9
12H	33.6	34.1	34.0	34.6	35.1	38.3	38.9	38.8	39.4	39.8
12H 4H	33.7	34.6	34.2	35.0	35.4	37.9	38.8	38.3	39.2	39.6
6H	33.7	34.4	34.2	34.8	35.3	38.3	39.0	38.8	39.5	39.9
8H	33.7	34.3	34.1	34.7	35.2	38.3	38.9	38.8	39.4	39.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 1.0 / - 1.0					+ 0.4 / - 0.6				
2.0H	+ 0.8 / - 1.9					+ 1.1 / - 2.2				

CIE Pub.117 Corrected 6241 lm Total Lamp Luminous Flux. (8log(F/F0) = 6.4)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
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Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

UTILIZATION FACTORS TABLE

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NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	39	31	51	39	31	50	38	31	24
0.80	62	49	41	61	49	41	59	48	40	33
1.00	71	59	51	70	58	50	67	60	50	42
1.25	79	67	59	77	66	59	74	65	58	50
1.50	84	73	66	83	72	65	79	71	64	56
2.00	92	83	76	90	82	75	87	79	73	65
2.50	97	88	82	95	87	81	91	84	79	70
3.00	101	93	87	98	92	86	94	89	84	75
4.00	105	99	94	103	97	93	99	94	90	81
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHR NOM = 1.25			

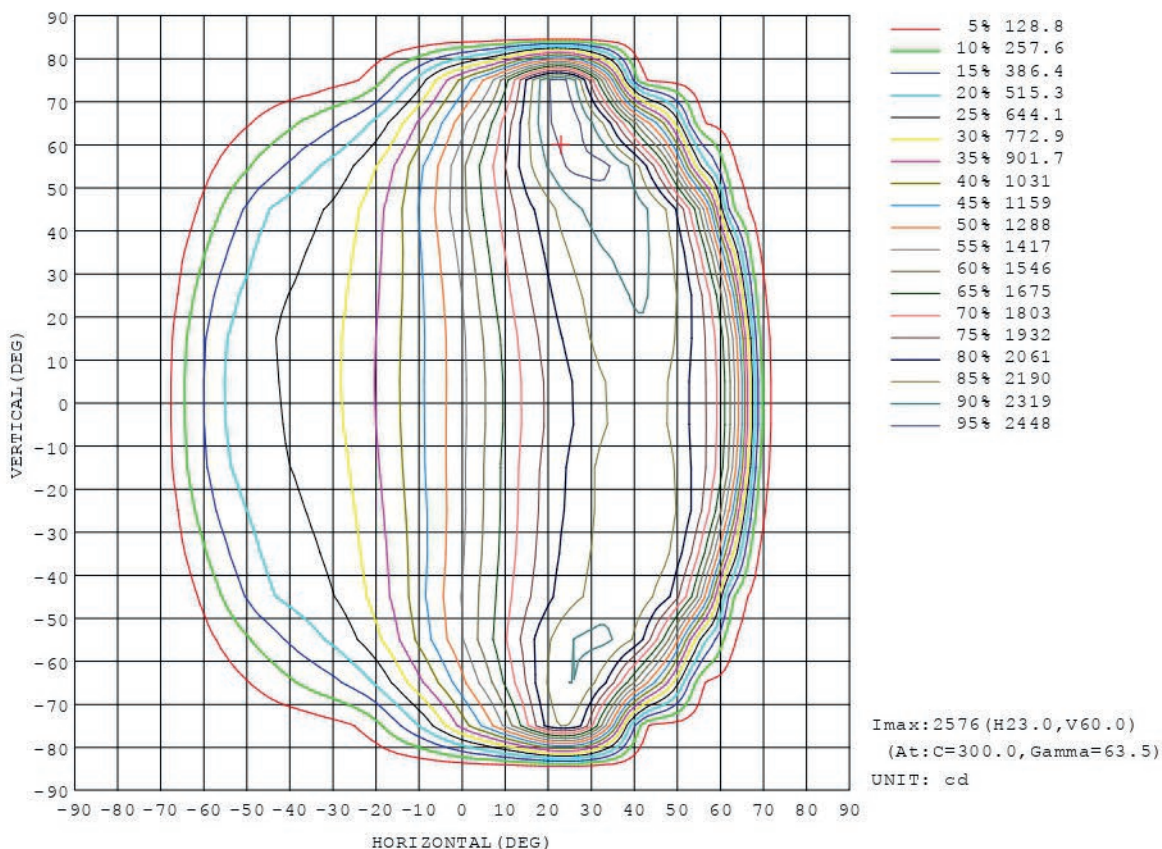
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:



ISOCANDELA DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

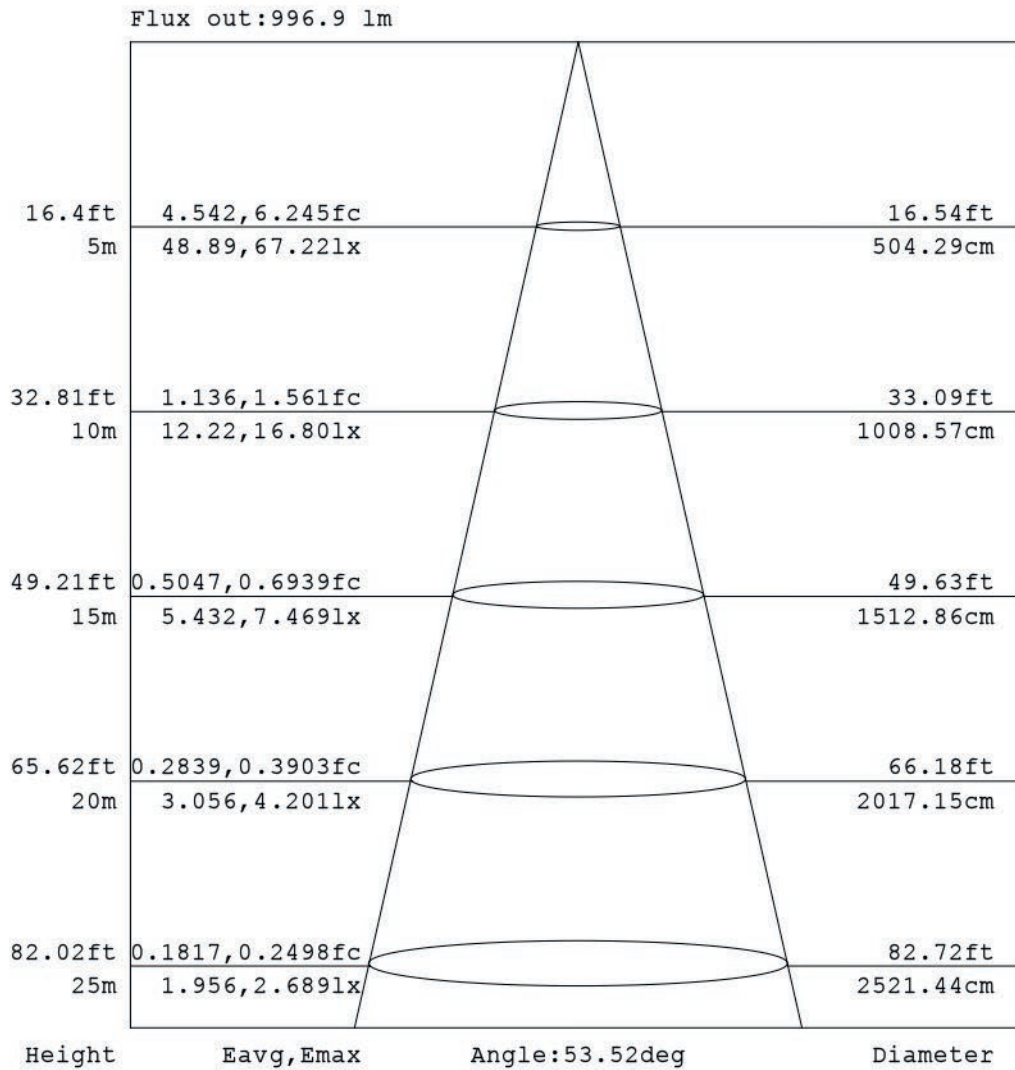


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γ Range: 0 - 90DEG  
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AAI Figure

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DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:



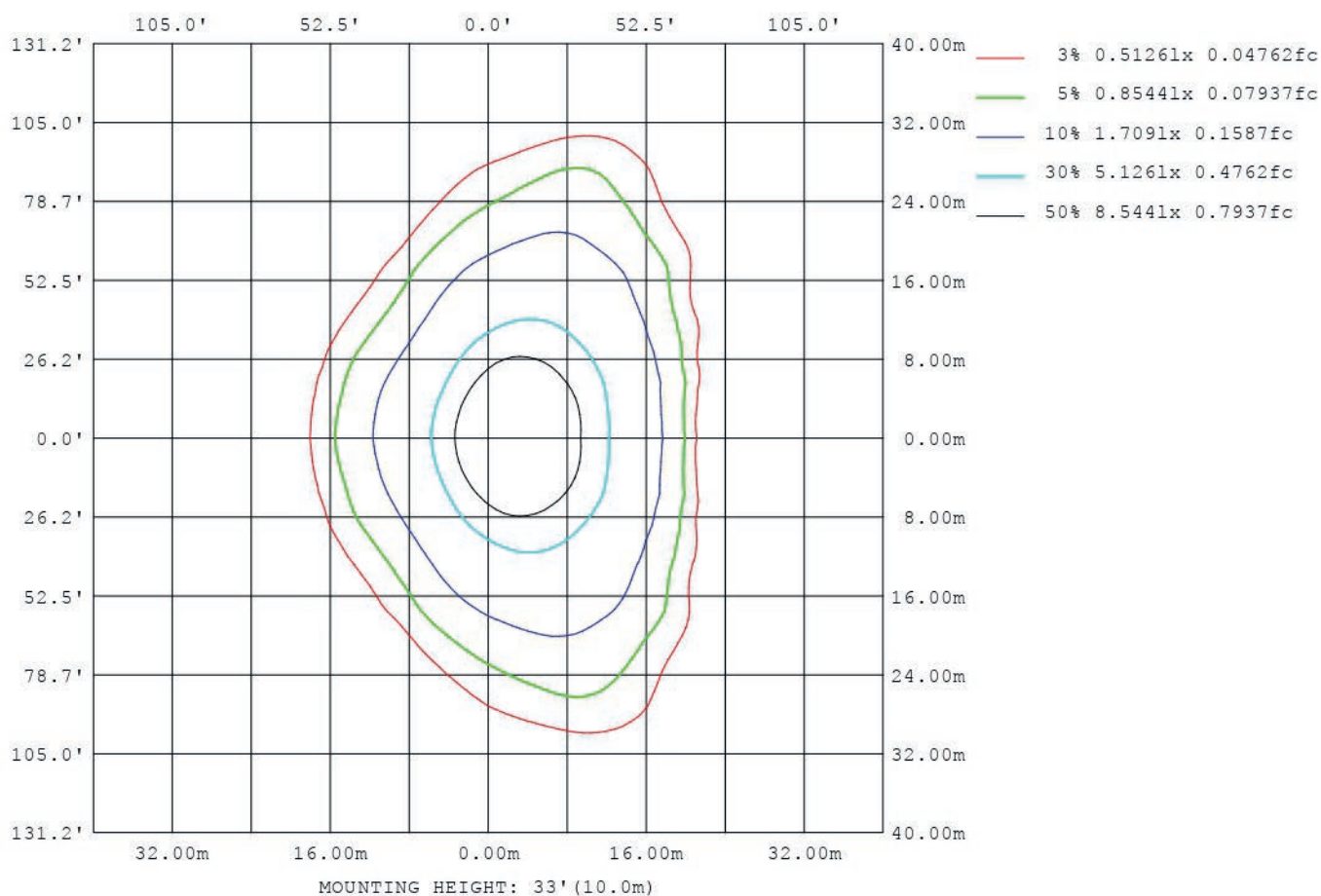
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

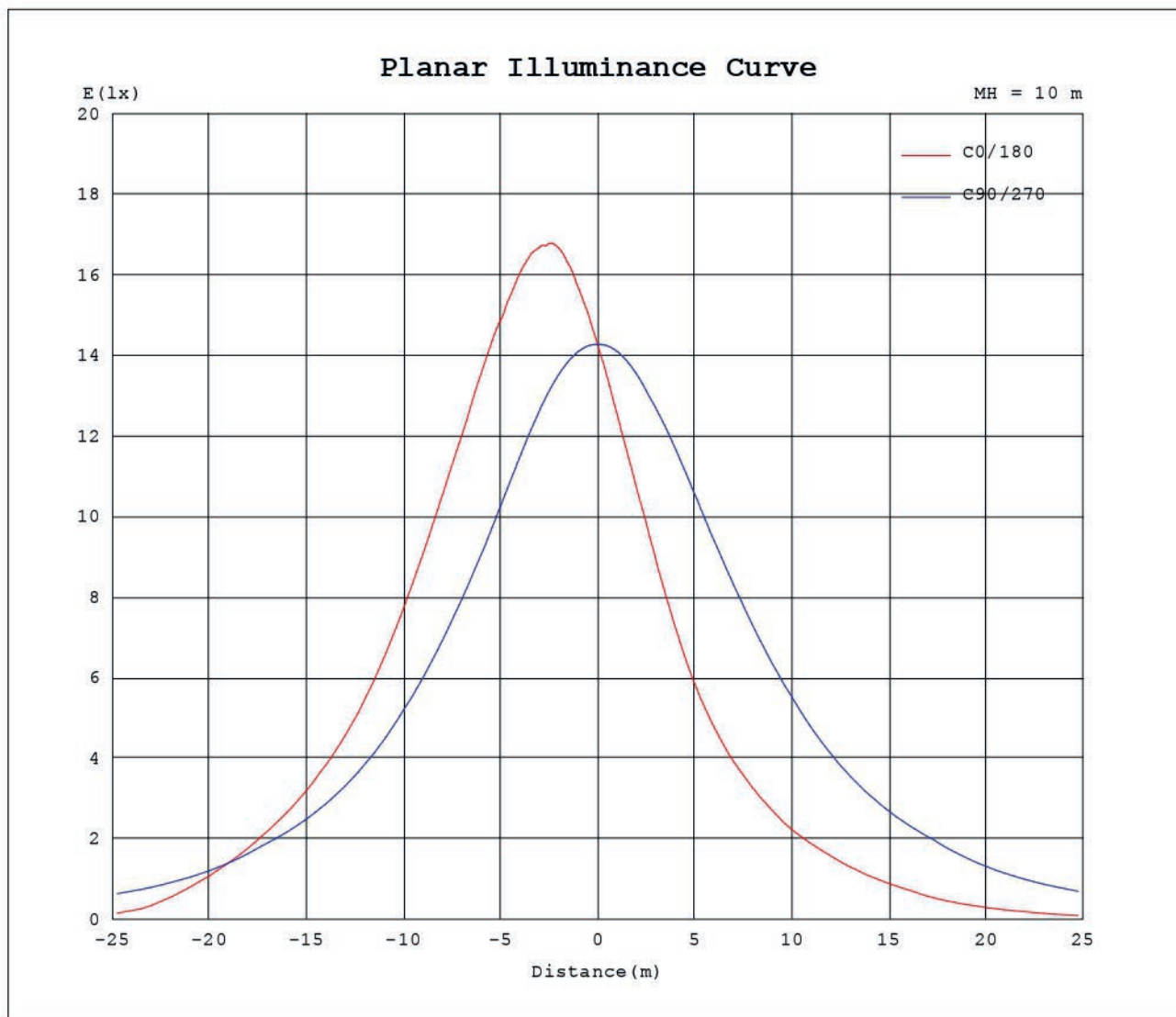
Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-05-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity: 55.0%  
Test Distance: 8.852m [K=1.0000]  
Remarks:

FOTOMETRÍA LUMINARIA LED  
BRAZO FIJO | 50W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427
5	1571	1571	1570	1568	1565	1560	1555	1548	1541	1533	1524	1514	1503	1491	1479	1467	1455	1443	1431
10	1729	1729	1727	1722	1715	1705	1695	1682	1666	1648	1629	1607	1583	1560	1536	1510	1483	1458	1435
15	1856	1858	1858	1855	1849	1839	1826	1808	1788	1764	1735	1705	1671	1635	1594	1556	1514	1474	1438
20	1972	1975	1976	1973	1965	1954	1938	1918	1894	1864	1832	1795	1750	1703	1652	1597	1543	1488	1437
25	2058	2063	2065	2062	2056	2048	2035	2016	1989	1956	1916	1871	1822	1765	1704	1639	1570	1501	1436
30	2140	2150	2156	2157	2154	2140	2121	2092	2063	2030	1991	1943	1888	1825	1753	1677	1597	1515	1436
35	2188	2204	2217	2227	2233	2223	2197	2171	2134	2097	2055	2006	1949	1886	1810	1723	1633	1539	1448
40	2218	2240	2260	2276	2290	2270	2249	2224	2192	2159	2119	2072	2012	1941	1867	1771	1665	1562	1460
45	2188	2212	2243	2281	2295	2297	2288	2264	2243	2214	2177	2130	2073	1994	1914	1819	1698	1584	1472
50	2088	2108	2144	2195	2247	2291	2299	2290	2272	2260	2227	2180	2140	2073	1986	1875	1737	1600	1469
55	1942	1954	1996	2038	2119	2193	2224	2246	2275	2277	2283	2272	2252	2185	2079	1935	1776	1616	1466
60	1655	1650	1696	1744	1861	1909	2013	2126	2151	2230	2301	2352	2352	2296	2182	1998	1817	1631	1464
65	919	898	956	1105	1159	1352	1531	1630	1817	2074	2253	2377	2368	2331	2199	1962	1728	1506	1317
70	135	148	173	271	314	538	661	865	1296	1536	1697	1942	2163	2277	2178	1909	1627	1379	1170
75	60.5	60.5	63.9	71.7	90.7	124	121	287	594	710	907	1402	1886	2192	2155	1855	1525	1251	1024
80	33.4	33.9	35.9	37.9	41.8	46.8	57.3	77.2	89.6	71.1	190	446	519	434	271	129	46.3	9.39	0.00
85	10.8	11.3	12.7	13.6	13.8	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427
5	1419	1407	1395	1383	1372	1362	1352	1342	1332	1324	1316	1310	1304	1300	1297	1294	1293	1292	1292
10	1410	1386	1362	1338	1315	1294	1272	1254	1238	1224	1211	1199	1189	1181	1175	1171	1169	1169	1169
15	1401	1365	1327	1292	1257	1228	1200	1174	1149	1127	1108	1094	1081	1071	1063	1058	1055	1055	1056
20	1387	1338	1289	1243	1203	1162	1124	1092	1063	1035	1010	989	972	959	950	945	943	945	945
25	1373	1312	1252	1198	1144	1095	1051	1010	972	939	912	887	869	856	847	843	842	844	845
30	1359	1286	1218	1149	1089	1031	976	928	886	851	822	800	786	776	770	766	766	770	770
35	1359	1274	1190	1111	1034	966	905	855	813	779	757	739	728	719	714	712	712	715	716
40	1360	1262	1164	1071	983	905	841	791	753	726	703	687	678	675	671	669	670	674	676
45	1363	1249	1140	1027	930	849	783	732	696	671	653	640	634	632	634	630	630	634	638
50	1340	1214	1094	972	869	791	729	677	642	621	607	601	596	588	584	587	594	604	602
55	1316	1178	1042	905	793	710	651	611	596	580	565	553	538	526	526	534	537	546	544
60	1293	1142	993	839	718	635	570	531	510	505	512	482	451	447	435	437	428	433	433
65	1130	965	821	685	581	525	486	447	410	382	371	361	334	308	300	291	288	292	292
70	964	779	628	494	393	343	317	301	278	241	221	206	188	161	145	116	99.4	90.6	101
75	798	594	441	309	210	169	156	147	143	131	113	87.9	74.7	59.2	55.4	54.9	53.2	52.6	53.7
80	5.92	17.5	28.7	33.6	31.4	30.7	30.8	28.1	33.5	42.5	47.5	42.6	34.6	34.7	36.8	36.8	33.5	32.6	33.9
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.31	10.8	12.5	8.62	5.03	5.33	6.99
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45	0.00

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427
5	1294	1296	1300	1304	1309	1315	1323	1332	1341	1351	1361	1372	1383	1394	1406	1419	1431	1443	1456
10	1171	1176	1182	1190	1200	1212	1224	1238	1255	1274	1293	1313	1336	1360	1384	1409	1435	1460	1488
15	1060	1066	1075	1086	1099	1114	1131	1152	1176	1203	1229	1259	1290	1324	1361	1399	1439	1479	1521
20	949	955	966	981	999	1021	1046	1073	1102	1133	1169	1211	1253	1299	1346	1399	1455	1511	1566
25	849	857	869	884	904	929	956	989	1026	1068	1114	1162	1217	1274	1334	1398	1471	1542	1611
30	774	781	791	805	823	846	874	909	950	998	1052	1115	1179	1248	1323	1397	1487	1575	1660
35	720	727	737	747	762	781	806	839	880	932	992	1064	1146	1230	1320	1414	1512	1613	1708
40	681	688	695	701	713	730	754	782	820	871	937	1017	1112	1212	1319	1431	1538	1648	1756
45	647	659	659	661	670	686	702	727	763	816	882	969	1075	1193	1317	1448	1563	1682	1805
50	605	608	617	627	633	637	651	672	708	761	827	908	1019	1150	1283	1432	1571	1710	1858
55	550	547	554	573	581	592	607	623	637	677	742	827	950	1100	1246	1416	1578	1739	1916
60	448	449	468	470	502	531	522	529	549	588	655	749	883	1048	1211	1399	1585	1767	1973
65	298	309	318	342	367	380	387	411	453	496	535	603	715	866	1037	1237	1433	1635	1891
70	118	148	164	192	207	219	237	271	299	320	344	398	507	662	852	1073	1282	1500	1804
75	55.4	55.4	58.3	74.2	88.4	110	127	137	141	149	163	199	305	463	667	912	1130	1364	1720
80	37.1	36.6	33.9	33.1	40.8	43.6	37.8	29.1	23.9	25.3	28.0	28.6	32.7	30.0	19.6	6.78	0.00	10.2	52.4
85	10.4	12.9	10.6	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks:

FOTOMETRÍA LUMINARIA LED  
BRAZO FIJO | 50W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.1V I:0.2177A P:48.04W PF:0.9633 Lamp Flux:6240.69x1 lm		
NAME: LUMINARIA LED BRAZO FIJO   50W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C (DEG) \ γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427				
5	1468	1481	1493	1505	1516	1526	1534	1542	1549	1555	1561	1565	1568	1570	1571				
10	1514	1539	1561	1585	1608	1629	1648	1667	1683	1696	1706	1716	1723	1728	1730				
15	1558	1598	1636	1672	1707	1740	1769	1793	1813	1830	1843	1853	1857	1859	1859				
20	1619	1670	1719	1768	1808	1842	1875	1898	1924	1943	1959	1972	1978	1980	1978				
25	1680	1744	1808	1859	1904	1942	1977	2009	2033	2049	2060	2066	2068	2068	2065				
30	1740	1820	1887	1941	1991	2039	2074	2098	2118	2137	2156	2168	2167	2162	2153				
35	1801	1890	1959	2019	2079	2118	2151	2181	2211	2230	2245	2248	2239	2225	2207				
40	1863	1958	2030	2101	2156	2197	2230	2255	2274	2286	2296	2304	2292	2268	2244				
45	1921	2021	2101	2178	2236	2277	2302	2306	2314	2323	2322	2311	2289	2248	2216				
50	1993	2110	2196	2264	2309	2342	2358	2356	2342	2325	2302	2254	2198	2144	2109				
55	2074	2225	2329	2400	2408	2407	2395	2365	2311	2262	2201	2123	2042	1991	1949				
60	2157	2347	2466	2509	2487	2409	2332	2235	2216	2075	1943	1876	1757	1698	1650				
65	2167	2408	2530	2509	2506	2353	2141	1896	1694	1595	1420	1199	1155	982	911				
70	2165	2437	2485	2259	2004	1745	1571	1346	892	693	571	324	286	184	152				
75	2162	2462	2396	1925	1400	888	736	617	284	129	128	96.6	73.4	64.9	61.6				
80	151	311	471	523	429	152	77.8	92.1	76.9	59.7	49.1	42.4	38.6	36.9	34.6				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	14.6	14.6	13.8	12.4			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-05-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:55.0%  
Test Distance:8.852m [K=1.0000]  
Remarks: