

TREPI



*Imágenes a título ilustrativo

LUMINARIA LED

BRAZO FIJO

150w

15.000 LM


Certificación
Seguridad Eléctrica



Luz FRÍA

LUMINARIA LED BRAZO FIJO | 150W

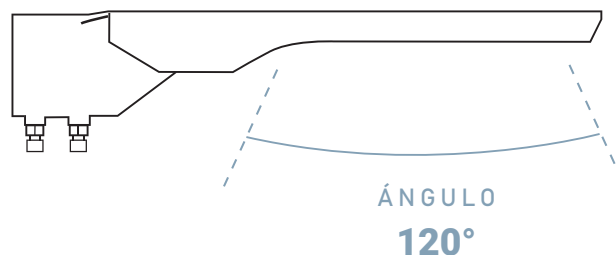
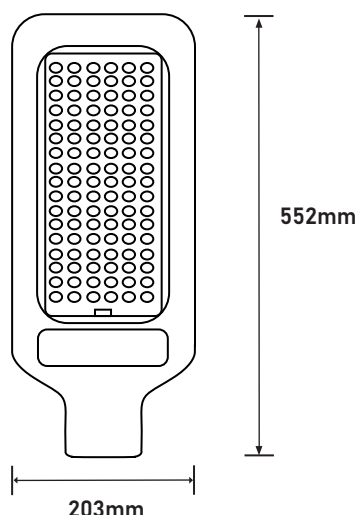
Luminaria led **FIJA 150W**. Ideal para áreas urbanas y espacios públicos como calles, avenidas, parques, plazas, etc. Proporciona una iluminación clara y uniforme, mejorando la visibilidad y seguridad para conductores y peatones.

 Potencia **150W**
Tensión **100-265V**

 Luz fría
6000K

 **0,9** Factor de
Potencia

LM 15.000 LM
(100 LM/W)



ESPECIFICACIONES TÉCNICAS

MODELO	IM2102003
POTENCIA	150W
LÚMENES POR WATT	100 LMxW
FLUJO LUMINOSO	15.000 LM
VOLTAJE	100-265V
FRECUENCIA	50 hz
ANGULO	110°
CRI	>80
VIDA ÚTIL	25.000 hs
VIDA ÚTIL (ON/OFF)	25.000 maniobras
TEMPERATURA DE TRABAJO	-25°C +40°C
TAMAÑO DE LUMINARIA	552x203x92mm
ORIFICIO P/ CAÑO	60mm máximo
PESO DE LUMINARIA	1,326Kg

TEMPERATURA LUZ	Fría 6000K
FACTOR DE POTENCIA	0.9
EFICIENCIA ENERGÉTICA	A+
TAMAÑO DE LÁMPARA	425x180mm
PROTECCIÓN IP	IP65
FACTOR IK	IK06
MATERIAL DEL CUERPO	Aluminio
MATERIAL DEL LENTE	PC
TIPO DE CHIP	SMD2835 - 184 Chips
SECCIÓN DEL CABLE	3x0,75
MEDIDA DEL CABLE	200mm
BRAZO	Fijo
MEDIDA DEL BRAZO	77 mm
GARANTÍA	2 años

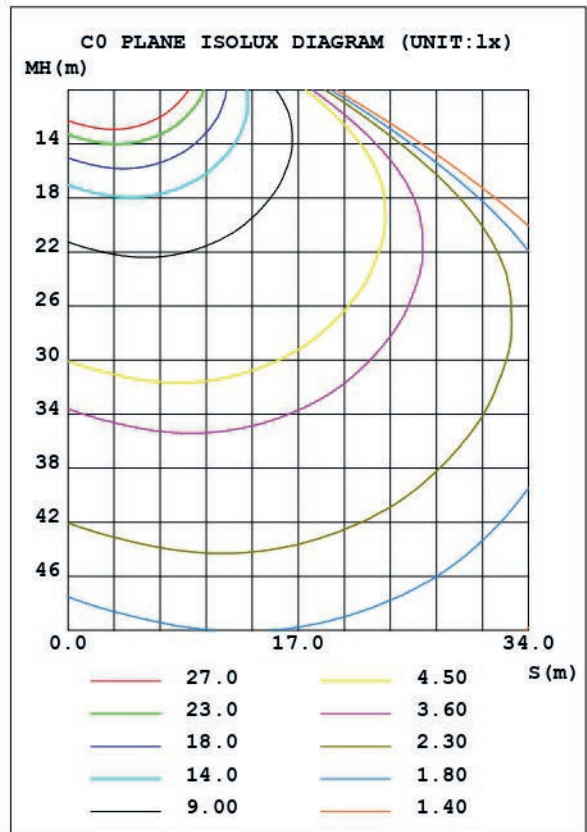
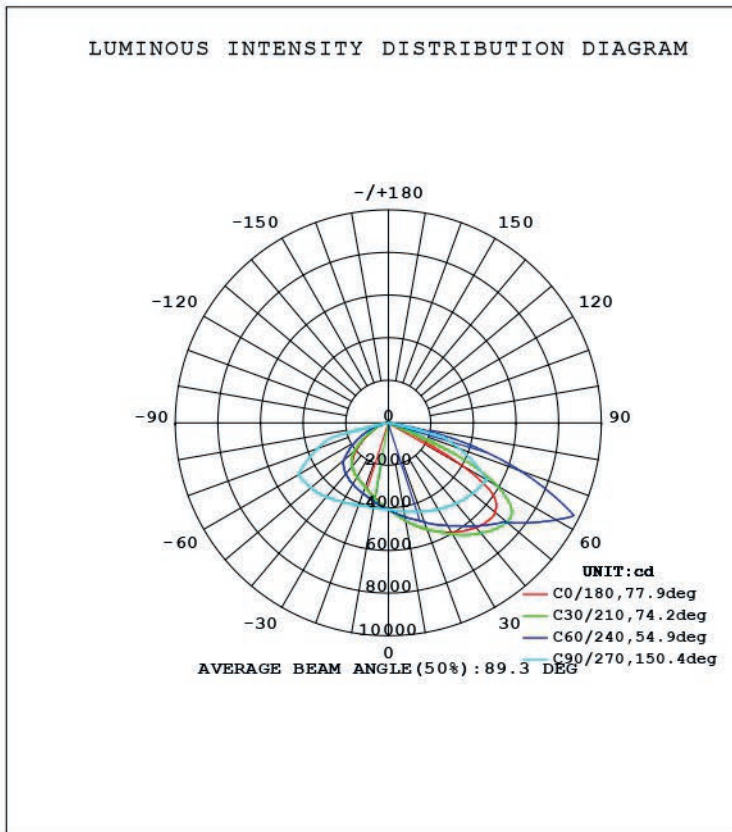
PRECAUCIONES

- 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:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.22 lm/W			
MODEL		I _{max} (cd)	9724	S/MH (C0/180)	2.10
NOMINAL POWER (W)	144	LOR (%)	100.0	S/MH (C90/270)	1.81
RATED VOLTAGE (V)	224	TOTAL FLUX (lm)	18912	η UP, DN (C0-180)	0.0, 50.5
NOMINAL FLUX (lm)	18912.2	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE (V)	223.4	η down (%)	100.0	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-04-07

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 E_v LUMINARIA LED BRAZO FIJO | 150W

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	4341	4317	4147	3941	3815	3873	4058	4263	0- 5	97.64	97.64	0.52,0.52
10	4670	4583	4230	3831	3592	3690	4051	4499	5- 10	294.9	392.5	2.08,2.08
15	5008	4873	4313	3709	3381	3500	4045	4763	10- 15	495.3	887.9	4.69,4.69
20	5329	5158	4437	3586	3192	3313	4123	5043	15- 20	699.2	1587	8.39,8.39
25	5641	5505	4561	3470	3063	3181	4202	5357	20- 25	908.5	2496	13.2,13.2
30	5942	5874	4685	3363	2950	3071	4280	5649	25- 30	1123	3618	19.1,19.1
35	6190	6238	4812	3254	2827	2958	4411	5979	30- 35	1338	4957	26.2,26.2
40	6413	6601	4938	3101	2652	2818	4543	6295	35- 40	1549	6506	34.4,34.4
45	6549	7065	5065	2777	2358	2585	4674	6713	40- 45	1746	8252	43.6,43.6
50	6538	7507	5159	2392	1946	2289	4747	7160	45- 50	1913	10164	53.7,53.7
55	6061	7844	5252	1948	1488	1928	4820	7551	50- 55	2031	12196	64.5,64.5
60	3928	7799	5345	1386	1055	1416	4892	7958	55- 60	2054	14250	75.3,75.3
65	758.0	6917	4453	898.1	751.1	948.9	4219	7749	60- 65	1816	16066	85,85
70	434.0	4538	3561	546.0	454.9	604.2	3546	5609	65- 70	1376	17442	92.2,92.2
75	248.0	1818	2670	316.4	301.0	388.1	2873	2422	70- 75	959.0	18401	97.3,97.3
80	123.5	155.2	0	109.3	214.4	177.1	0	211.6	75- 80	472.0	18873	99.8,99.8
85	28.83	0	0	0	85.58	0	0	0	80- 85	36.74	18910	100,100
90	5.344	0	0	0	8.433	0	0	0	85- 90	2.304	18912	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			

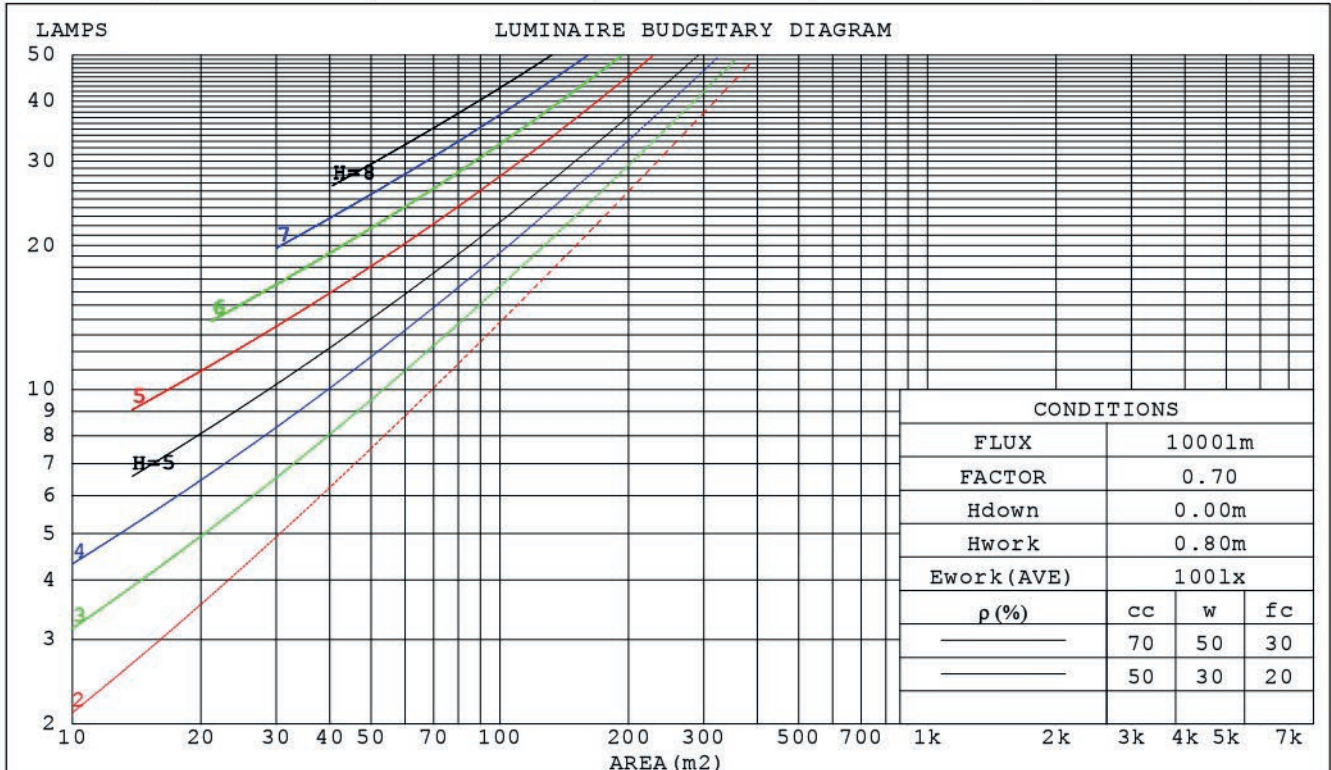
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C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-04-07

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:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	pw	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.00
1.0	1.03	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.89	.81	.75	.87	.80	.74	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67
3.0	.77	.68	.61	.75	.67	.60	.72	.65	.59	.69	.63	.58	.66	.61	.57	.55
4.0	.67	.57	.50	.65	.56	.50	.63	.55	.49	.60	.54	.48	.58	.52	.47	.45
5.0	.59	.49	.42	.57	.48	.42	.55	.47	.41	.53	.46	.41	.51	.45	.40	.38
6.0	.52	.42	.36	.51	.42	.35	.49	.41	.35	.47	.40	.35	.46	.39	.34	.32
7.0	.47	.37	.31	.46	.37	.31	.44	.36	.30	.43	.35	.30	.41	.35	.30	.28
8.0	.42	.33	.27	.41	.33	.27	.40	.32	.27	.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	.34	.26	.21	.33	.26	.21	.32	.26	.21	.32	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-04-07

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 | 150W

WEC AND CCEC

Test:U:229.1V I:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:

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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.317	.180	.057	.310	.177	.056	.297	.170	.054	.285	.164	.053	.273	.158	.051	
2.0	.308	.169	.052	.302	.166	.051	.290	.161	.050	.279	.157	.049	.269	.152	.048	
3.0	.288	.153	.046	.282	.151	.046	.272	.147	.045	.262	.144	.044	.253	.140	.043	
4.0	.267	.138	.041	.262	.137	.040	.252	.134	.040	.243	.131	.039	.235	.128	.039	
5.0	.246	.125	.036	.242	.124	.036	.233	.122	.036	.226	.119	.035	.218	.117	.035	
6.0	.228	.114	.033	.224	.113	.033	.216	.111	.032	.209	.109	.032	.203	.107	.032	
7.0	.211	.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	.171	.086	.024	.166	.084	.024	
10.0	.172	.083	.023	.170	.082	.023	.165	.081	.023	.160	.080	.023	.156	.078	.023	

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						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	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.161	.101	.056	.138	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
6.0	.147	.083	.037	.126	.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	.105	.053	.019	.073	.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:2023-04-07

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:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm										
NAME: LUMINARIA LED BRAZO FIJO 150W					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	34.6	36.2	34.9	36.5	36.7	36.9	38.6	37.2	38.8	39.0
3H	34.5	36.0	34.8	36.2	36.5	38.8	40.4	39.1	40.6	40.8
4H	34.4	35.8	34.7	36.1	36.3	39.5	40.9	39.8	41.2	41.5
6H	34.3	35.6	34.6	35.9	36.2	39.6	40.9	39.9	41.2	41.5
8H	34.2	35.5	34.6	35.8	36.1	39.5	40.8	39.9	41.1	41.4
12H	34.2	35.4	34.5	35.7	36.0	39.5	40.7	39.8	41.0	41.3
4H 2H	36.3	37.7	36.6	38.0	38.2	38.1	39.5	38.4	39.8	40.0
3H	36.2	37.4	36.5	37.7	38.0	40.3	41.5	40.6	41.8	42.2
4H	36.1	37.2	36.5	37.5	37.9	41.1	42.2	41.5	42.5	42.9
6H	36.0	37.0	36.4	37.4	37.7	41.2	42.2	41.6	42.6	42.9
8H	36.0	36.9	36.4	37.3	37.7	41.1	42.1	41.6	42.5	42.8
12H	35.9	36.8	36.3	37.2	37.6	41.1	42.0	41.5	42.4	42.8
8H 4H	36.7	37.6	37.1	38.0	38.4	41.0	42.0	41.5	42.4	42.7
6H	36.6	37.4	37.1	37.8	38.3	41.2	42.0	41.7	42.4	42.8
8H	36.6	37.3	37.1	37.7	38.2	41.2	41.9	41.6	42.3	42.7
12H	36.6	37.2	37.1	37.6	38.1	41.1	41.7	41.6	42.2	42.7
12H 4H	36.7	37.6	37.1	37.9	38.4	41.0	41.9	41.4	42.3	42.7
6H	36.6	37.3	37.1	37.8	38.2	41.2	41.9	41.6	42.3	42.7
8H	36.6	37.2	37.1	37.6	38.1	41.1	41.7	41.6	42.2	42.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 1.4 / - 2.2					+ 0.3 / - 0.6				
2.0H	+ 1.0 / - 1.5					+ 1.9 / - 2.7				

CIE Pub.117 Corrected 18912 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.2)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-04-07

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 | 150W

UTILIZATION FACTORS TABLE

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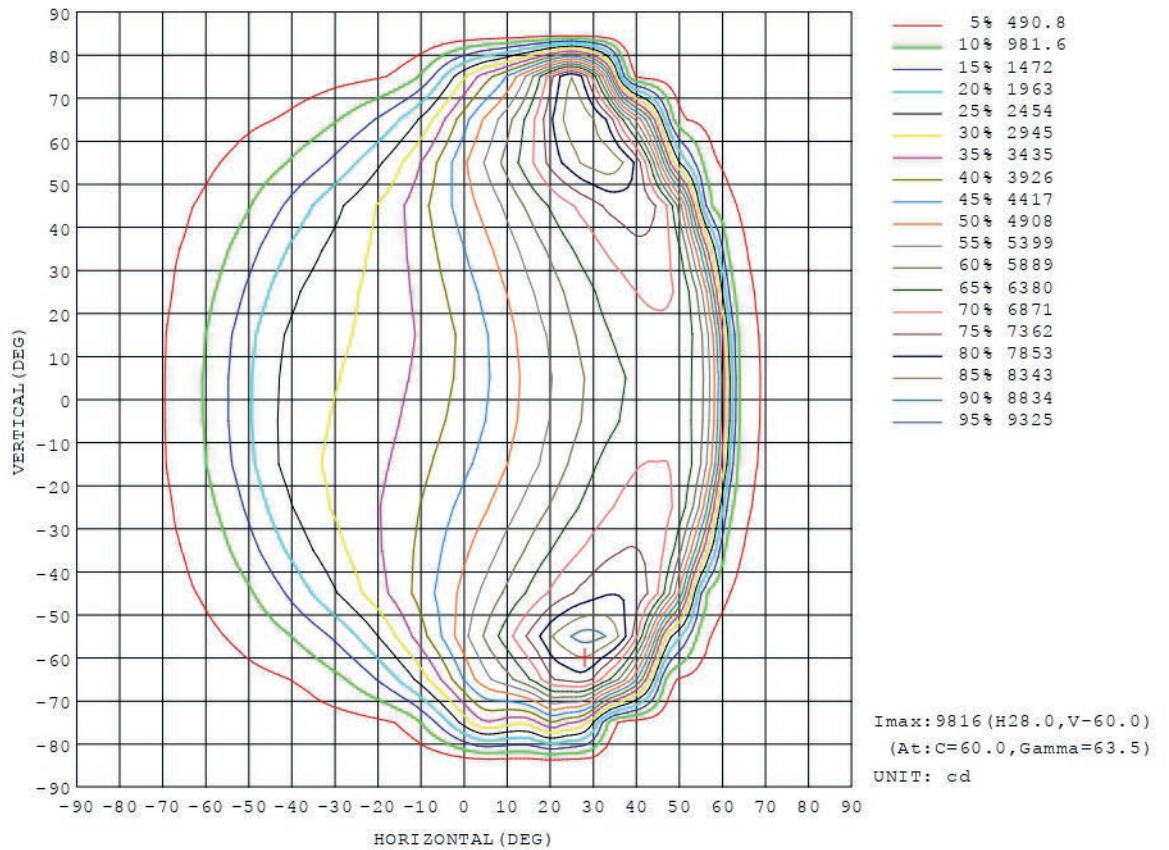
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	38	31	50	38	31	49	38	30	23
0.80	62	49	41	61	49	41	59	48	40	33
1.00	71	59	51	70	58	51	68	60	50	42
1.25	79	68	60	78	67	59	75	65	58	50
1.50	85	74	66	83	73	66	80	71	65	56
2.00	93	83	76	91	82	76	87	80	74	66
2.50	97	89	82	95	87	81	91	85	79	71
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	99	95	103	98	93	99	94	91	81
5.00	108	103	99	106	101	97	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
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ISOCANDELA DIAGRAM

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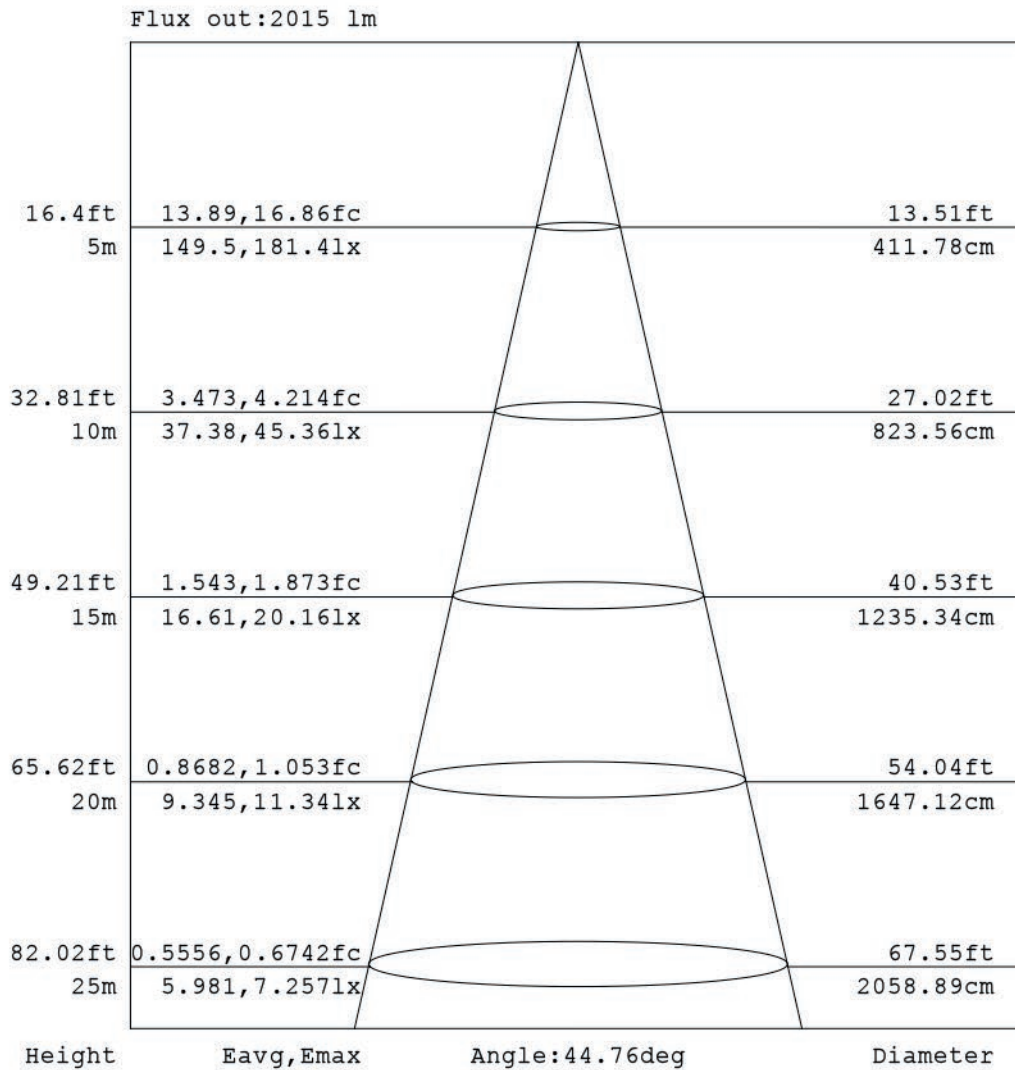


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AAI Figure

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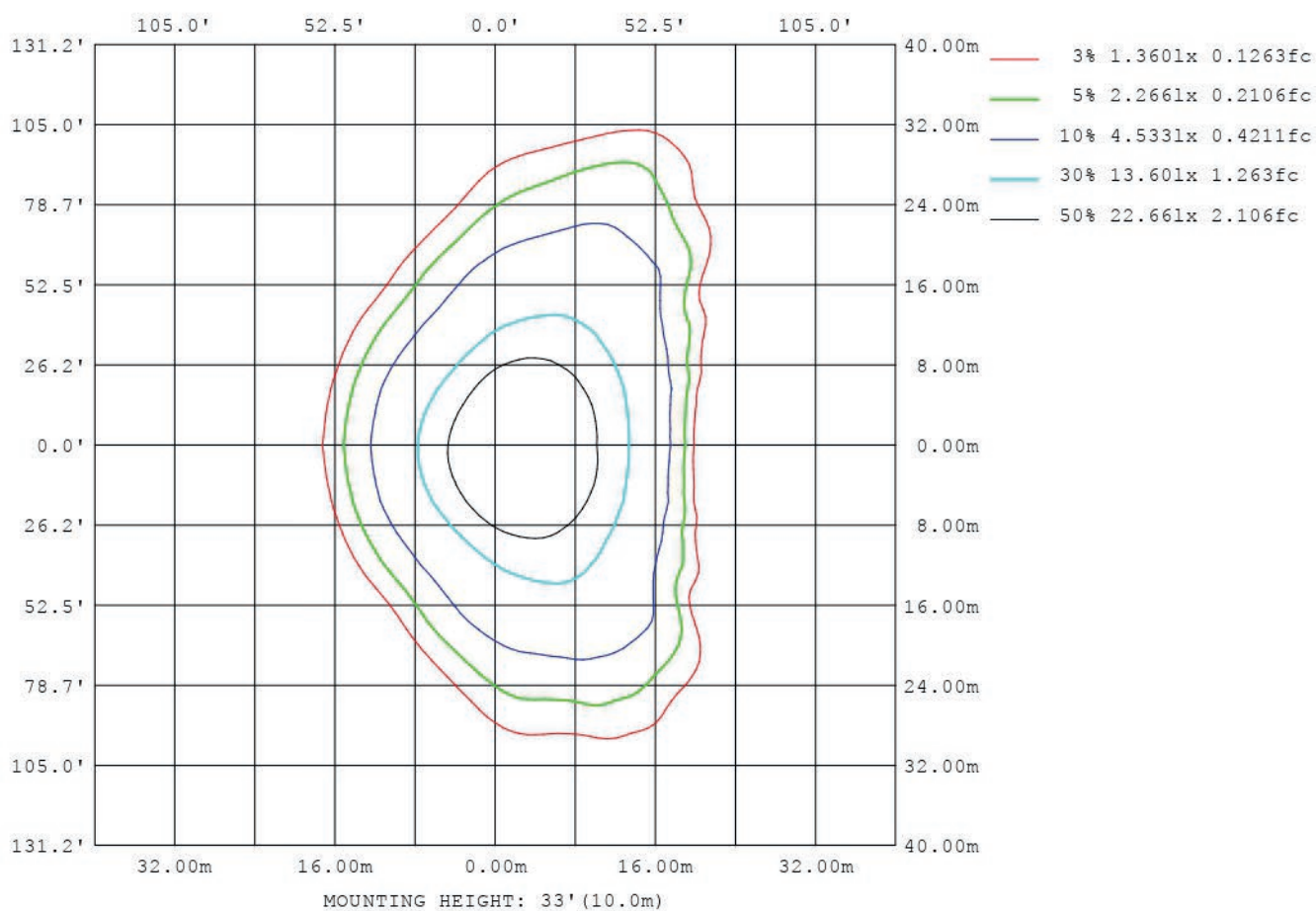
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-04-07

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

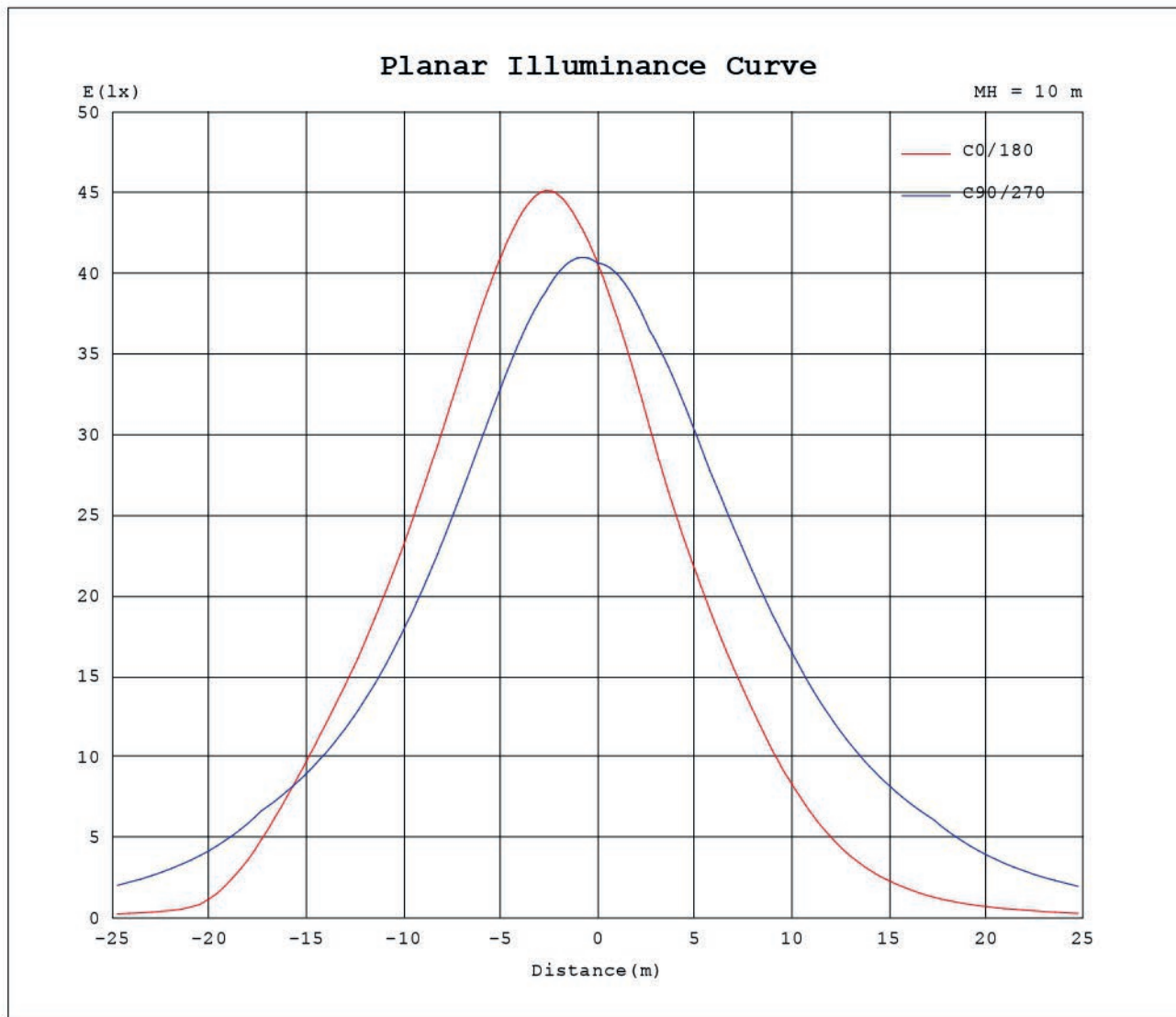
Test:U:229.1V I:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 01.SHIER/SHISan	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-04-07

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: 2023-04-07

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:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	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	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064
5	4341	4347	4351	4352	4352	4349	4345	4338	4328	4317	4303	4288	4272	4254	4235	4215	4194	4171	4147
10	4670	4681	4686	4686	4681	4670	4655	4635	4611	4583	4552	4517	4478	4443	4404	4363	4321	4279	4230
15	5008	5025	5033	5033	5024	5011	4991	4957	4918	4873	4820	4761	4701	4638	4571	4510	4447	4384	4313
20	5329	5355	5370	5374	5366	5346	5313	5273	5222	5158	5105	5041	4969	4885	4800	4708	4623	4532	4437
25	5641	5684	5712	5724	5720	5698	5657	5603	5561	5505	5441	5360	5272	5166	5049	4927	4807	4684	4561
30	5942	6007	6054	6082	6091	6074	6040	6002	5944	5874	5790	5690	5575	5450	5307	5152	4992	4840	4685
35	6190	6279	6352	6407	6439	6447	6431	6384	6318	6238	6136	6022	5910	5766	5602	5419	5220	5021	4812
40	6413	6522	6613	6684	6742	6765	6764	6729	6667	6601	6550	6460	6324	6142	5929	5704	5459	5207	4938
45	6549	6659	6767	6875	6967	7034	7067	7050	7073	7065	7014	6916	6760	6539	6273	5994	5703	5398	5065
50	6538	6618	6741	6879	7004	7173	7257	7364	7450	7507	7459	7363	7278	7105	6797	6430	6032	5614	5159
55	6061	6041	6196	6303	6580	6865	7052	7364	7666	7844	8049	8207	8177	7942	7455	6946	6388	5842	5252
60	3928	3801	4063	4316	4970	5166	5883	6808	7111	7799	8538	9013	9109	8825	8168	7498	6760	6077	5345
65	758	776	981	1101	1804	2062	3302	3889	5011	6917	8601	9386	9049	8276	7340	6388	5725	5209	4453
70	434	413	426	464	519	572	999	1245	1860	4538	5715	6133	6598	6273	5759	4857	4512	4302	3561
75	248	243	235	237	261	300	324	377	586	1818	2362	2647	3885	4126	4102	3275	3249	3381	2670
80	124	119	116	110	112	129	143	149	144	155	169	307	801	708	482	216	96.2	25.3	0.00
85	28.8	25.3	26.7	25.0	21.5	13.1	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	5.34	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:2023-04-07

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:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	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	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064
5	4123	4099	4076	4053	4029	4006	3984	3962	3941	3921	3902	3886	3870	3856	3844	3832	3823	3815	3814
10	4182	4137	4091	4044	3998	3954	3911	3870	3831	3793	3757	3723	3692	3666	3642	3622	3606	3592	3588
15	4242	4176	4104	4036	3967	3900	3833	3769	3709	3654	3603	3557	3515	3479	3447	3420	3398	3381	3373
20	4339	4240	4138	4037	3936	3839	3749	3664	3586	3515	3454	3398	3349	3306	3269	3238	3212	3192	3182
25	4432	4300	4162	4027	3896	3774	3662	3560	3470	3394	3329	3272	3222	3178	3140	3109	3084	3063	3050
30	4522	4350	4177	4008	3850	3704	3574	3460	3363	3283	3217	3166	3118	3071	3030	2997	2971	2950	2935
35	4594	4372	4158	3951	3769	3614	3486	3361	3254	3162	3086	3030	2993	2953	2906	2870	2844	2827	2808
40	4660	4386	4122	3866	3640	3445	3293	3179	3101	3007	2912	2839	2795	2775	2729	2684	2658	2652	2629
45	4721	4396	4071	3761	3486	3247	3052	2891	2777	2707	2666	2564	2492	2459	2454	2384	2353	2358	2333
50	4670	4215	3806	3455	3167	2963	2760	2545	2392	2279	2210	2172	2085	2016	1990	1953	1923	1946	1917
55	4601	3994	3466	3012	2640	2380	2184	2054	1948	1808	1708	1643	1600	1530	1494	1494	1465	1488	1466
60	4523	3758	3108	2542	2097	1792	1590	1473	1386	1305	1226	1161	1113	1085	1051	1056	1037	1055	1043
65	3610	2882	2312	1864	1517	1240	1038	942	898	871	834	775	756	740	736	742	745	751	749
70	2688	1971	1465	1166	965	809	699	599	546	535	546	537	526	519	504	481	469	455	471
75	1773	1075	655	522	467	434	401	325	316	336	348	351	313	280	263	296	303	301	304
80	13.1	30.6	38.8	51.3	68.1	89.5	106	88.4	109	157	183	180	148	160	188	214	216	214	219
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	26.7	59.8	77.1	87.4	83.2	85.6	96.5
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	8.43	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-04-07

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:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	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	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064
5	3816	3818	3823	3829	3837	3847	3859	3873	3888	3905	3923	3943	3964	3987	4010	4034	4058	4082	4107
10	3588	3591	3598	3609	3624	3643	3665	3690	3718	3750	3786	3822	3863	3906	3952	4000	4051	4102	4155
15	3370	3372	3380	3393	3411	3434	3465	3500	3541	3589	3641	3698	3761	3825	3892	3966	4045	4125	4210
20	3177	3177	3183	3195	3213	3239	3271	3313	3371	3446	3526	3615	3711	3811	3910	4015	4123	4234	4346
25	3042	3039	3042	3049	3061	3081	3124	3181	3250	3335	3432	3544	3664	3795	3928	4063	4202	4346	4490
30	2925	2921	2925	2933	2948	2975	3015	3071	3142	3230	3338	3465	3612	3772	3943	4109	4280	4456	4636
35	2798	2795	2801	2808	2824	2854	2898	2958	3037	3134	3241	3385	3559	3757	3976	4193	4411	4623	4830
40	2623	2632	2643	2644	2663	2702	2759	2818	2883	2984	3115	3284	3495	3739	4002	4273	4543	4792	5032
45	2340	2377	2373	2393	2440	2506	2528	2585	2674	2800	2965	3165	3421	3710	4021	4350	4674	4960	5233
50	1935	1961	1977	2032	2103	2139	2196	2289	2422	2588	2744	2919	3173	3494	3872	4304	4747	5145	5518
55	1495	1493	1520	1580	1630	1702	1801	1928	2016	2130	2291	2510	2816	3218	3689	4246	4820	5338	5822
60	1067	1065	1101	1126	1181	1258	1338	1416	1499	1625	1821	2085	2444	2928	3493	4182	4892	5538	6138
65	755	757	759	773	805	868	910	949	1010	1131	1336	1568	1838	2221	2723	3444	4219	4942	5614
70	490	521	538	542	558	577	573	604	674	765	880	1015	1178	1457	1920	2694	3546	4327	5018
75	312	301	300	319	371	381	384	388	412	446	479	506	558	720	1127	1947	2873	3706	4421
80	231	223	192	169	197	215	211	177	146	124	100.0	74.9	56.0	43.8	32.3	14.4	0.00	27.8	134
85	104	100	81.4	35.4	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:2023-04-07

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 | 150W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.1V I:0.6492A P:144.1W PF:0.9689 Lamp Flux:18912.2x1 lm		
NAME: LUMINARIA LED BRAZO FIJO 150W	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	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064	4064				
5	4131	4155	4179	4202	4223	4244	4263	4280	4296	4309	4320	4328	4335	4339	4341				
10	4208	4260	4312	4363	4410	4456	4499	4536	4570	4599	4624	4644	4659	4668	4672				
15	4295	4384	4467	4549	4624	4697	4763	4824	4878	4923	4957	4983	5002	5013	5015				
20	4463	4573	4677	4778	4874	4963	5043	5124	5190	5244	5283	5312	5331	5341	5340				
25	4634	4773	4906	5036	5158	5268	5357	5421	5476	5540	5597	5640	5663	5671	5663				
30	4806	4973	5133	5298	5443	5551	5649	5744	5833	5896	5941	5981	5991	5989	5973				
35	5034	5226	5417	5581	5697	5836	5979	6084	6165	6221	6262	6285	6290	6273	6238				
40	5281	5527	5745	5926	6083	6216	6295	6381	6485	6542	6553	6536	6516	6495	6462				
45	5538	5836	6071	6304	6490	6621	6713	6782	6772	6809	6811	6773	6694	6657	6605				
50	5893	6238	6544	6757	6877	7030	7160	7168	7152	7080	7018	6907	6775	6676	6593				
55	6284	6765	7248	7529	7672	7671	7551	7536	7396	7167	6963	6715	6413	6248	6083				
60	6684	7361	7996	8374	8511	8425	7958	7472	7261	6465	5711	5420	4698	4323	3937				
65	6384	7387	8334	8918	9186	8886	7749	6069	4708	4107	2656	2134	1320	1076	801				
70	5947	7170	8321	8393	7625	6474	5609	3300	1553	1373	692	594	514	470	433				
75	5516	6974	8306	7506	5398	3033	2422	1132	471	406	359	315	255	245	247				
80	382	885	1677	2084	1618	349	212	218	206	198	164	141	132	134	132				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.0	35.0	38.8	37.4	35.3				
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:2023-04-07

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: