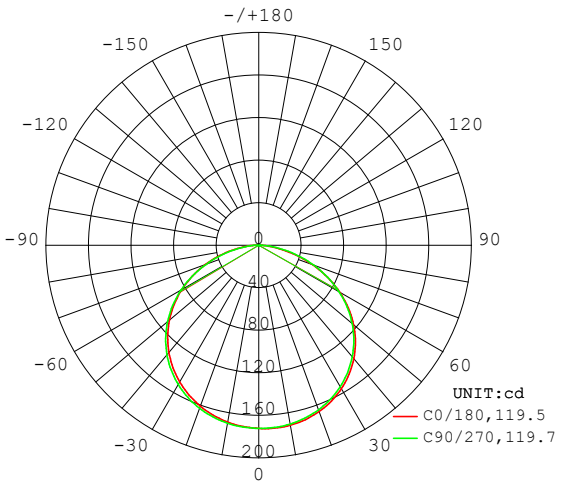
LUZ NEGRA
linear lighting solutions

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Nerja 6500	TYPE:	WEIGHT:
SPEC.:	DIM.: 10x 2x500mm	SERIAL No.:
MFR.: Luz Negra s.l.	SUR.:22	Shielding Angle:

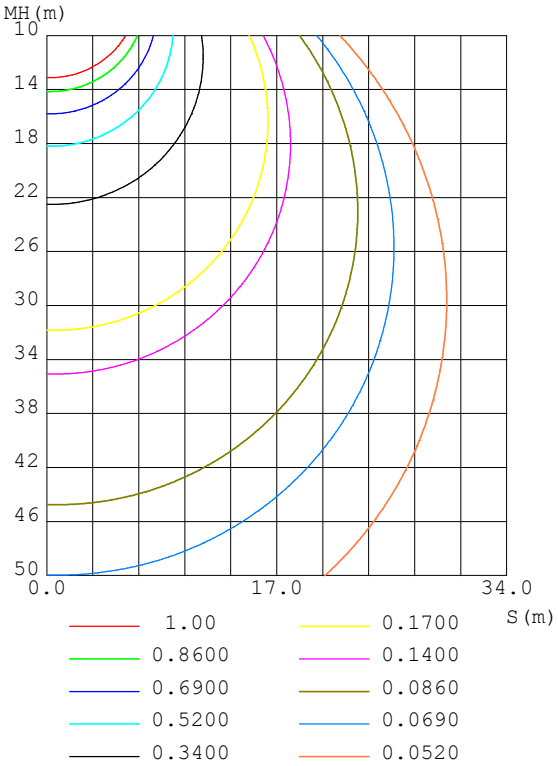
DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.74 lm/W			
MODEL	32.075	Imax(cd)	172.6	S/MH(C0/180)	1.28
NOMINAL POWER(W)	19,2W/m	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	534.49	η UP,DN(C0-180)	0.1,50.4
NOMINAL FLUX(lm)	534.488	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.3
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	99.8	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):119.6 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:April 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	171.8	171.6	170.7	169.5	168.8	169.0	169.9	171.1	0- 10	16.35	16.35	3.06,3.06
20	166.4	166.2	164.6	162.4	161.0	161.3	163.1	165.2	10- 20	47.36	63.71	11.9,11.9
30	155.7	155.5	153.4	150.6	148.6	149.2	151.4	154.2	20- 30	73.18	136.9	25.6,25.6
40	139.1	139.1	136.9	133.9	131.5	132.2	134.4	137.4	30- 40	90.48	227.4	42.5,42.5
50	116.5	116.5	114.7	112.2	109.7	110.4	112.0	114.7	40- 50	96.48	323.9	60.6,60.6
60	87.80	88.06	87.09	85.68	83.51	83.77	84.40	86.31	50- 60	89.46	413.3	77.3,77.3
70	54.12	54.77	55.11	55.18	53.60	53.32	52.80	53.23	60- 70	69.45	482.8	90.3,90.3
80	19.78	21.31	22.79	24.00	22.97	22.46	21.21	20.22	70- 80	39.68	522.5	97.7,97.7
90	0.7300	1.613	0.1973	2.676	1.876	1.793	0.5561	0.9972	80- 90	10.71	533.2	99.8,99.8
100	0.4018	0.5775	0.3667	0.4202	0.4850	0.5113	0.4327	0.4500	90-100	0.7173	533.9	99.9,99.9
110	0.5374	0.6597	0.5635	0.5546	0.6423	0.7952	0.6553	0.6245	100-110	0.5658	534.5	100,100
120	0	0	0	0	0	0	0	0	110-120	0.0328	534.5	100,100
130	0	0	0	0	0	0	0	0	120-130	0	534.5	100,100
140	0	0	0	0	0	0	0	0	130-140	0	534.5	100,100
150	0	0	0	0	0	0	0	0	140-150	0	534.5	100,100
160	0	0	0	0	0	0	0	0	150-160	0	534.5	100,100
170	0	0	0	0	0	0	0	0	160-170	0	534.5	100,100
180	0	0	0	0	0	0	0	0	170-180	0	534.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

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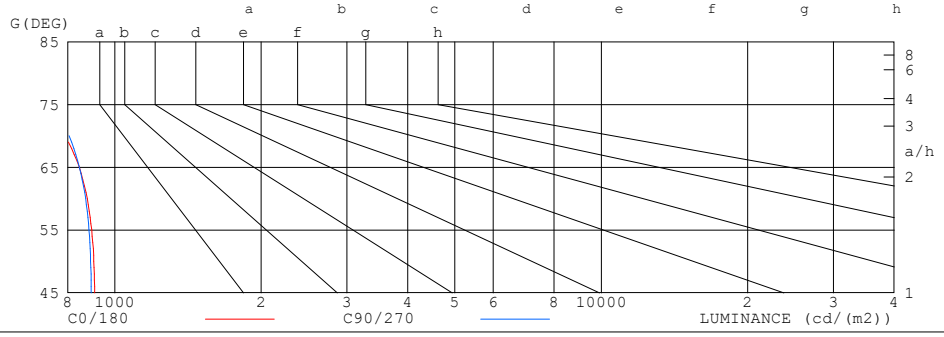
LUMINANCE LIMITATION CURVES

NAME: Nerja 6500	TYPE:	WEIGHT:
SPEC.:	DIM.: 10x 2x500mm	SERIAL No.:
MFR.: Luz Negra s.l.	SUR.:22	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	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
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	392	473
80	569	656
75	704	744
70	791	806
65	845	846
60	878	871
55	896	885
50	906	892
45	909	894

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Nerja 6500	TYPE:	WEIGHT:
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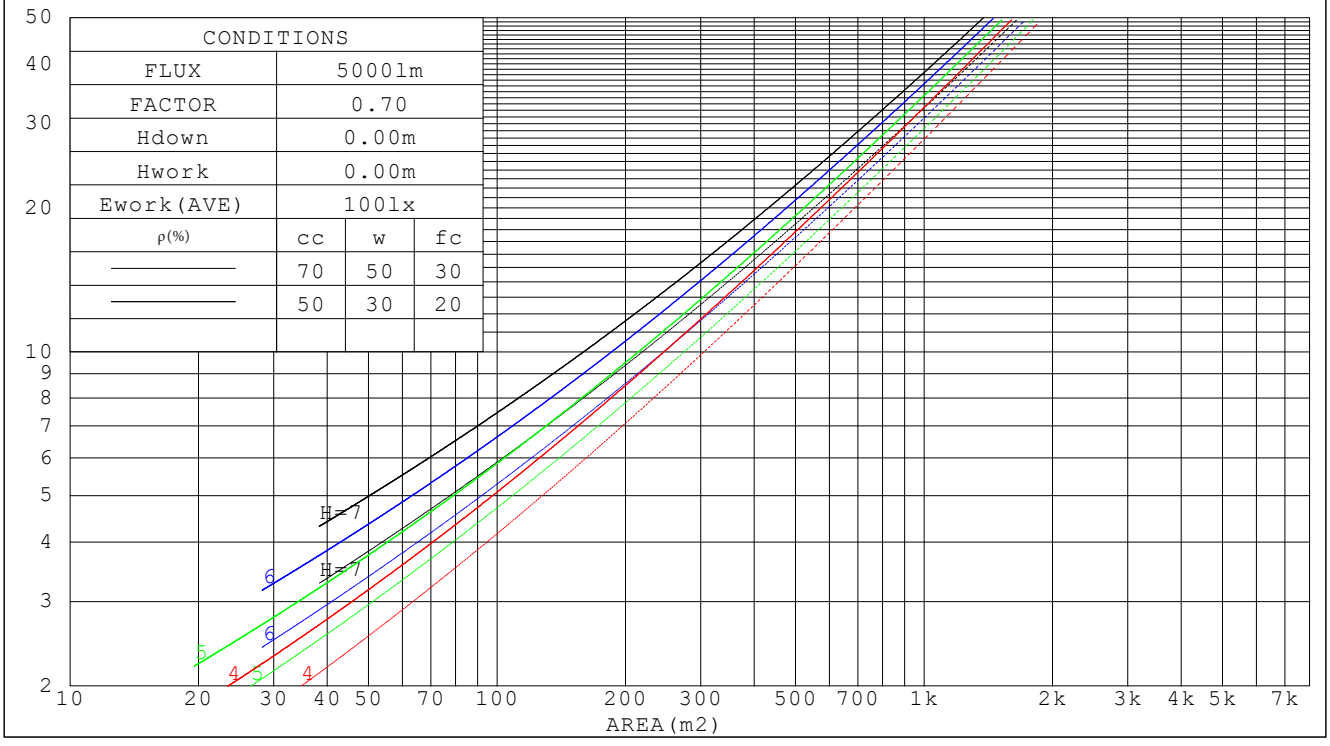
MFR.: Luz Negra s.l.	SUR.:22	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.70	.63	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.60	.57
4.0	.69	.60	.53	.68	.60	.53	.65	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.44	.55	.49	.44	.42
6.0	.55	.46	.40	.54	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.316	.180	.057	.309	.176	.056	.296	.170	.054	.284	.164	.052	.272	.158	.051	
2.0	.298	.163	.050	.291	.160	.049	.279	.155	.048	.268	.151	.047	.258	.146	.046	
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.253	.132	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037	
5.0	.234	.119	.035	.230	.118	.034	.221	.115	.034	.213	.113	.034	.206	.110	.033	
6.0	.217	.109	.031	.213	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.201	.100	.028	.198	.099	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.173	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.183	.158	.136	.156	.136	.117	.107	.093	.081	.062	.054	.047	.020	.017	.015	
2.0	.175	.134	.099	.150	.115	.086	.103	.080	.060	.059	.046	.035	.019	.015	.011	
3.0	.167	.116	.076	.143	.100	.065	.098	.070	.046	.057	.041	.027	.018	.013	.009	
4.0	.160	.103	.060	.137	.089	.052	.094	.062	.036	.055	.036	.022	.018	.012	.007	
5.0	.152	.093	.049	.131	.080	.042	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.145	.084	.041	.125	.073	.035	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.138	.077	.035	.119	.067	.030	.082	.047	.021	.048	.028	.013	.015	.009	.004	
8.0	.132	.072	.030	.113	.062	.026	.079	.044	.019	.046	.026	.011	.015	.008	.004	
9.0	.126	.067	.027	.108	.058	.023	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.120	.062	.024	.103	.054	.021	.072	.038	.015	.042	.023	.009	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

LUZ NEGRA
linear lighting solutions

UGR(Unified Glare Rating) Table

NAME: Nerja 6500	TYPE:	WEIGHT:
SPEC.:	DIM.: 10x 2x500mm	SERIAL No.:
MFR.: Luz Negra s.l.	SUR.:22	Shielding 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	14.9	16.4	15.1	16.6	16.8	14.8	16.4	15.1	16.6	16.8
3H	16.4	17.8	16.7	18.1	18.3	16.4	17.8	16.7	18.1	18.3
4H	17.0	18.3	17.3	18.6	18.9	17.0	18.4	17.3	18.6	18.9
6H	17.3	18.6	17.7	18.9	19.2	17.4	18.7	17.8	19.0	19.3
8H	17.4	18.6	17.7	18.9	19.2	17.6	18.8	17.9	19.1	19.4
12H	17.4	18.6	17.8	18.9	19.2	17.6	18.8	18.0	19.1	19.4
4H 2H	15.5	16.9	15.8	17.1	17.4	15.5	16.8	15.8	17.1	17.3
3H	17.2	18.4	17.6	18.7	19.0	17.2	18.4	17.6	18.7	19.0
4H	17.9	19.0	18.3	19.3	19.7	17.9	19.0	18.3	19.4	19.7
6H	18.4	19.3	18.8	19.7	20.0	18.5	19.5	18.9	19.8	20.2
8H	18.5	19.4	18.9	19.7	20.1	18.7	19.6	19.1	19.9	20.3
12H	18.5	19.4	19.0	19.7	20.2	18.8	19.6	19.2	20.0	20.4
8H 4H	18.1	19.0	18.6	19.4	19.8	18.2	19.1	18.6	19.5	19.9
6H	18.7	19.5	19.2	19.9	20.3	18.9	19.6	19.3	20.0	20.5
8H	18.9	19.6	19.4	20.0	20.5	19.1	19.8	19.6	20.2	20.7
12H	19.0	19.6	19.5	20.1	20.5	19.3	19.9	19.8	20.3	20.8
12H 4H	18.2	19.0	18.6	19.4	19.8	18.2	19.0	18.6	19.4	19.8
6H	18.8	19.5	19.2	19.9	20.3	18.9	19.6	19.4	20.0	20.5
8H	19.0	19.6	19.5	20.0	20.5	19.2	19.8	19.7	20.2	20.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 534.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.2)

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
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UTILIZATION FACTORS TABLE

NAME: Nerja 6500	TYPE:	WEIGHT:
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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) x RCR = 5									
k = 0.60	56	44	37	56	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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ISOCANDELA DIAGRAM

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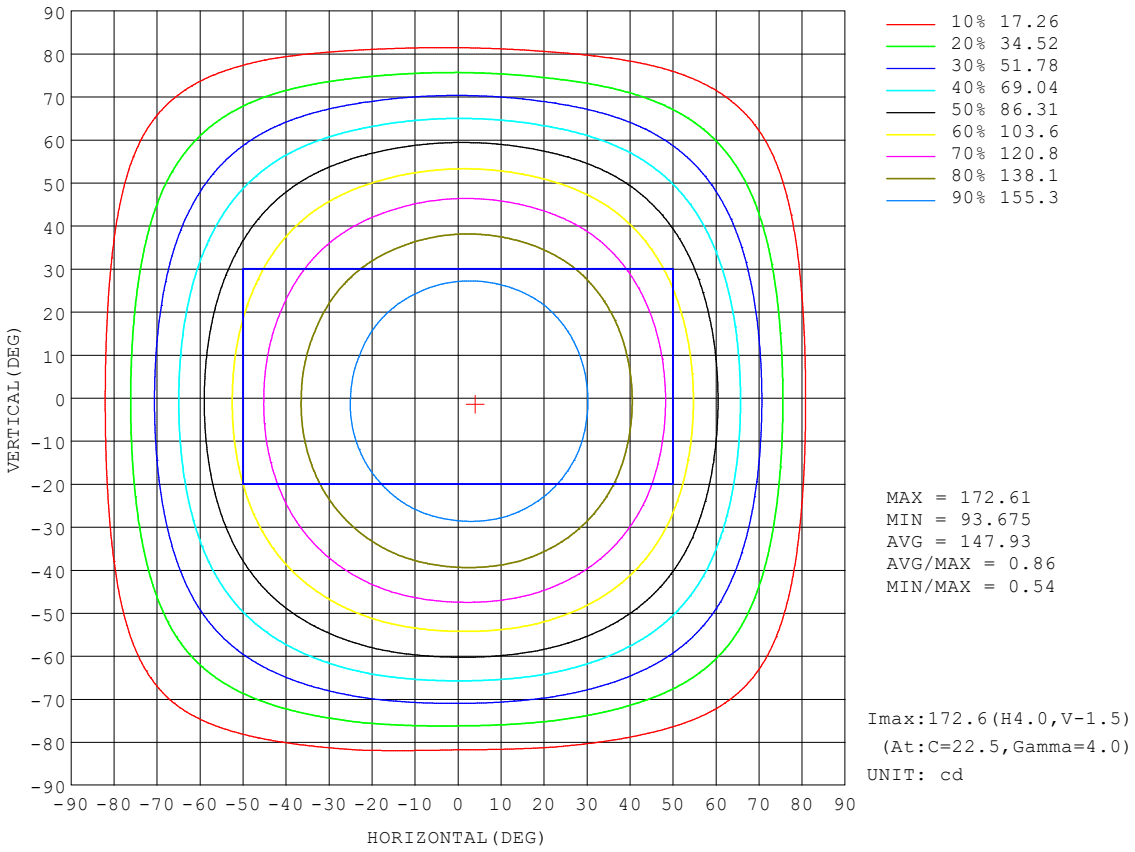

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AAI Figure

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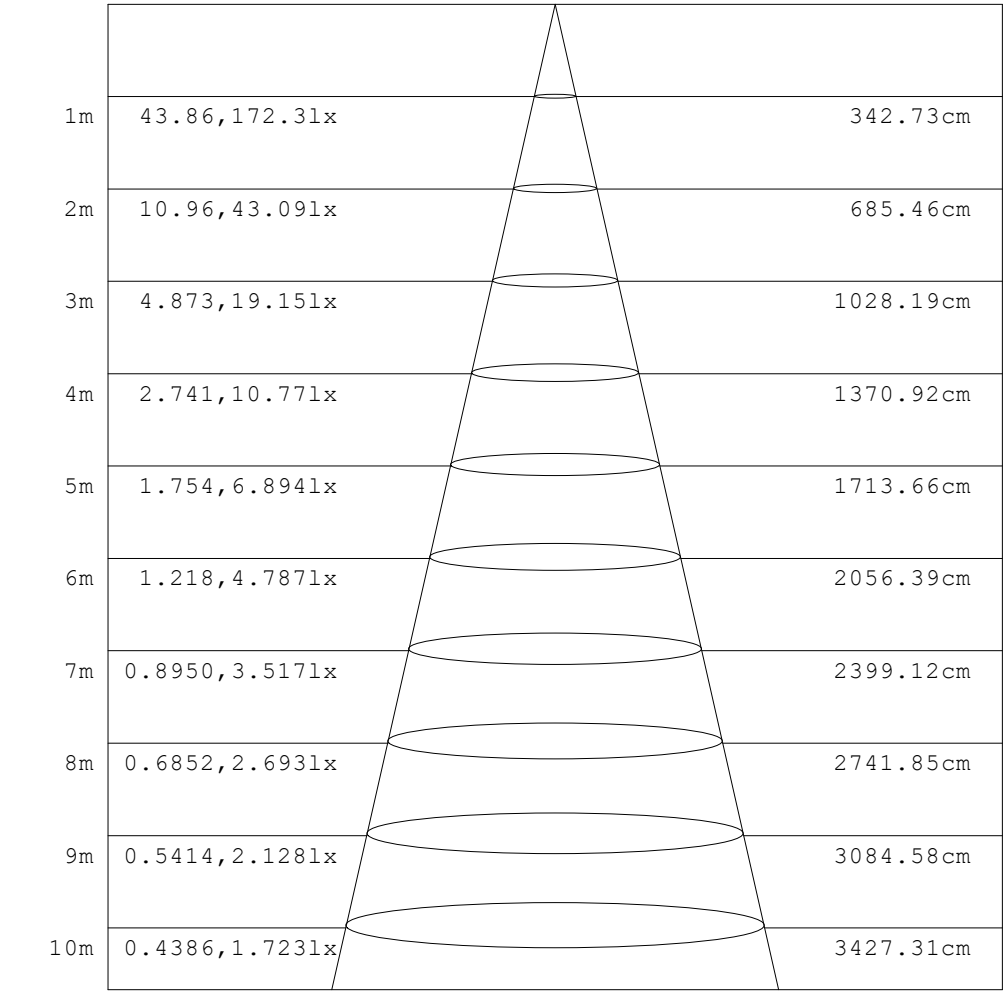
Flux out:413.3 lm



Height	Eavg,Emax	Angle:119.47deg	Diameter
1m	43.86,172.3lx		342.73cm
2m	10.96,43.09lx		685.46cm
3m	4.873,19.15lx		1028.19cm
4m	2.741,10.77lx		1370.92cm
5m	1.754,6.894lx		1713.66cm
6m	1.218,4.787lx		2056.39cm
7m	0.8950,3.517lx		2399.12cm
8m	0.6852,2.693lx		2741.85cm
9m	0.5414,2.128lx		3084.58cm
10m	0.4386,1.723lx		3427.31cm

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

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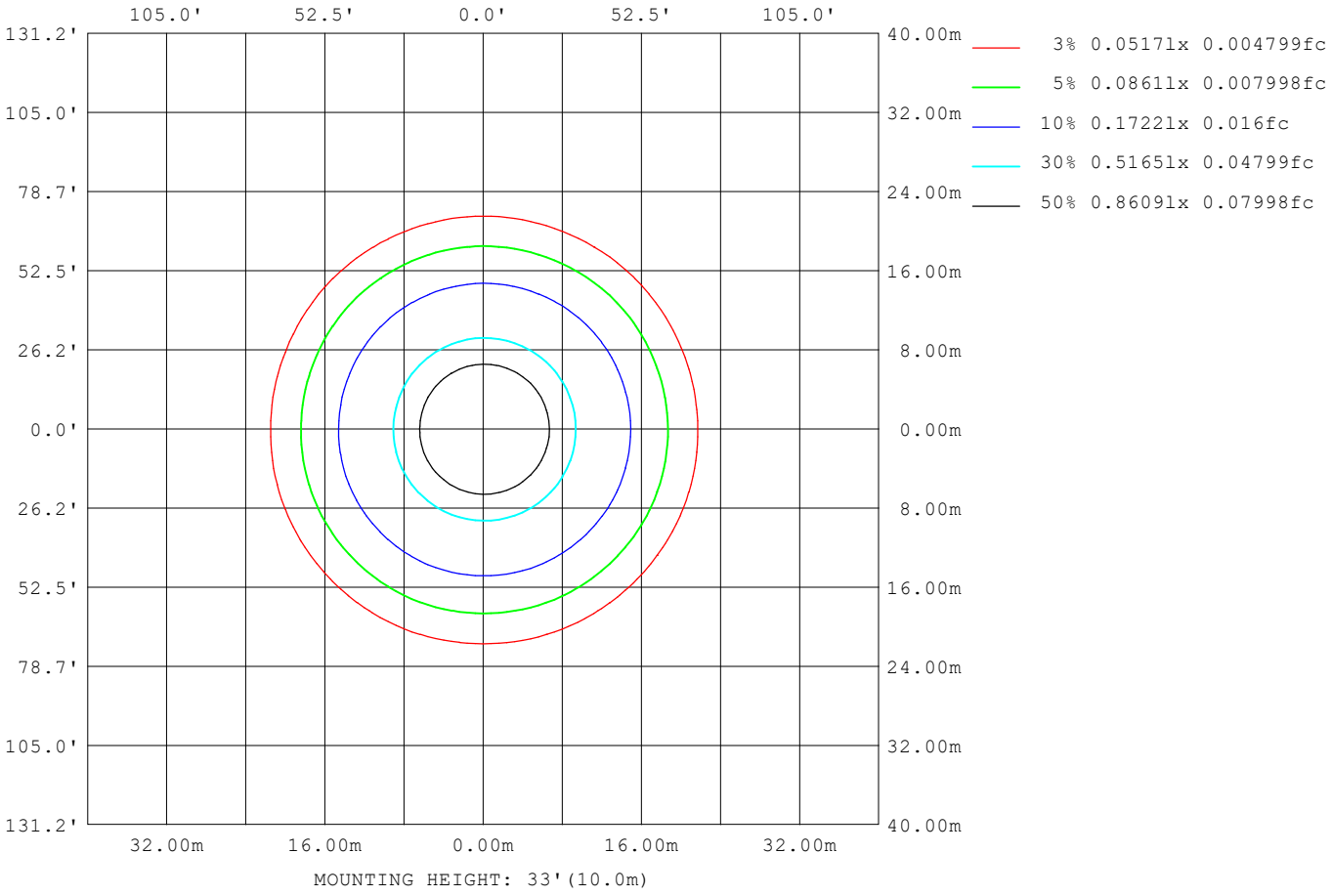


MOUNTING HEIGHT: 33'(10.0m)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:April 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

LUZ NEGRA
linear lighting solutions

LED Avg.L Report

NAME: Nerja 6500	TYPE:	WEIGHT:
SPEC.:	DIM.: 10x 2x500mm	SERIAL No.:
MFR.: Luz Negra s.l.	SUR.:22	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	830
L_0~180(75)av	719
L_0~180(85)av	483
L_90~270(65)av	831
L_90~270(75)av	725
L_90~270(85)av	484
L_45(65)av	833
L_45(75)av	726
L_45(85)av	527

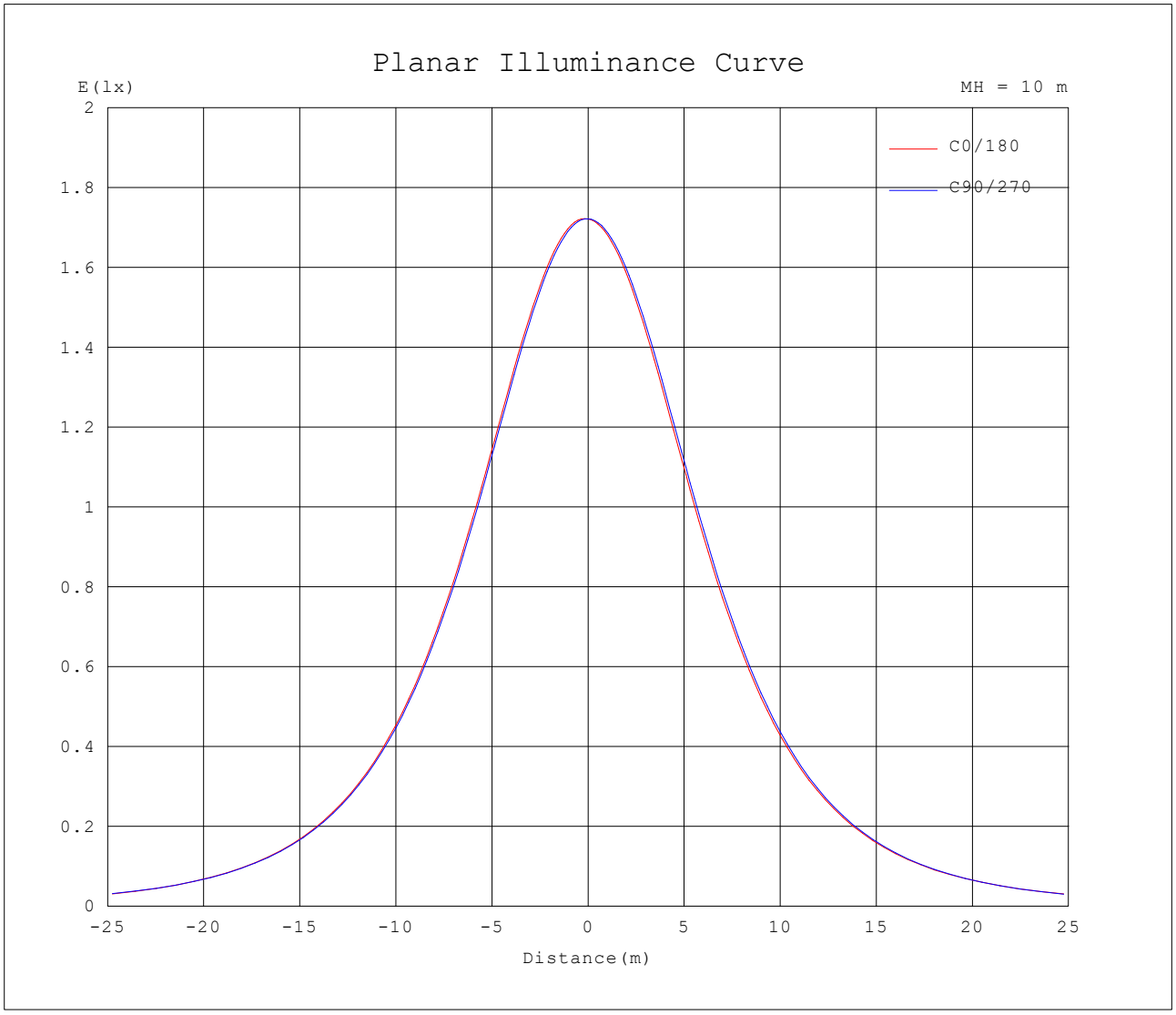
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:April 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

LUZ NEGRA
linear lighting solutions

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:April 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

LUZ NEGRA
linear lighting solutions

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Nerja 6500	TYPE:	WEIGHT:
SPEC.:	DIM.: 10x 2x500mm	SERIAL No.:
MFR.: Luz Negra s.l.	SUR.:22	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172			
5	173	173	173	172	172	172	171	171	171	171	171	171	172	172	172	172			
10	172	172	172	171	171	170	170	169	169	169	169	169	170	170	171	172			
15	170	170	170	169	168	167	167	166	165	165	166	166	167	168	169	169			
20	166	167	166	166	165	164	162	162	161	161	161	162	163	164	165	166			
25	162	162	162	161	160	159	157	156	155	155	156	157	158	159	160	161			
30	156	156	156	155	153	152	151	149	149	148	149	150	151	153	154	155			
35	148	149	148	147	146	145	143	142	141	140	141	142	144	145	147	147			
40	139	140	139	138	137	136	134	133	132	131	132	133	134	136	137	138			
45	129	129	129	128	126	125	124	122	121	121	122	123	124	125	127	128			
50	116	117	117	116	115	114	112	111	110	109	110	111	112	113	115	116			
55	103	103	103	103	102	101	99.5	98.4	97.2	96.8	97.6	97.8	98.8	99.5	101	102			
60	87.8	88.5	88.1	88.0	87.1	86.9	85.7	84.7	83.5	83.1	83.8	83.7	84.4	84.8	86.3	86.9			
65	71.4	72.2	71.8	72.1	71.5	71.8	70.8	70.1	68.9	68.4	68.9	68.5	68.9	69.0	70.2	70.6			
70	54.1	54.9	54.8	55.3	55.1	55.7	55.2	54.7	53.6	53.0	53.3	52.6	52.8	52.4	53.2	53.3			
75	36.4	37.3	37.5	38.4	38.5	39.6	39.3	39.0	38.0	37.4	37.5	36.7	36.5	35.8	36.1	35.9			
80	19.8	20.7	21.3	22.5	22.8	24.2	24.0	23.8	23.0	22.4	22.5	21.6	21.2	20.3	20.2	19.6			
85	6.83	7.67	8.29	9.49	8.25	11.2	11.0	10.8	10.0	9.73	9.85	9.10	8.60	7.79	7.55	6.95			
90	0.73	1.17	1.61	1.78	0.20	2.60	2.68	2.42	1.88	1.76	1.79	1.40	0.56	0.96	1.00	0.89			
95	0.32	0.71	1.10	0.60	0.28	0.52	1.11	0.75	0.42	0.44	0.45	0.42	0.34	0.38	0.43	0.39			
100	0.40	0.62	0.58	0.42	0.37	0.36	0.42	0.55	0.48	0.47	0.51	0.62	0.43	0.44	0.45	0.46			
105	0.46	0.51	0.54	0.56	0.47	0.46	0.46	0.45	0.54	0.60	0.66	0.54	0.54	0.53	0.53	0.54			
110	0.54	0.58	0.66	0.81	0.56	0.56	0.55	0.55	0.64	0.76	0.80	0.65	0.66	0.63	0.62	0.62			
115	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			
120	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			
125	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			
130	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			
135	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			
140	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			
145	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			
150	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			
155	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			
160	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			
165	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			
170	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			
175	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			
180	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
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