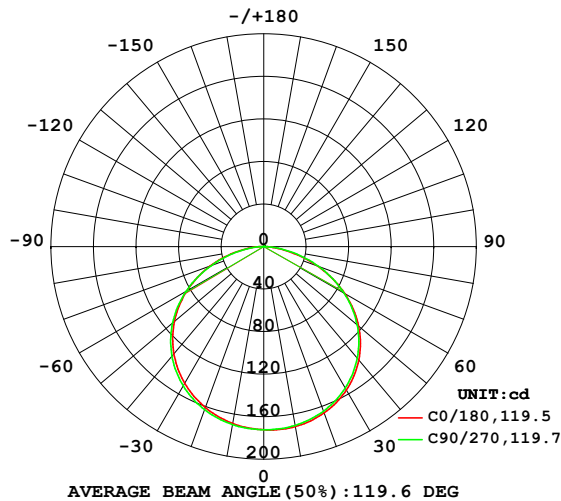


LUMINAIRE PHOTOMETRIC TEST REPORT

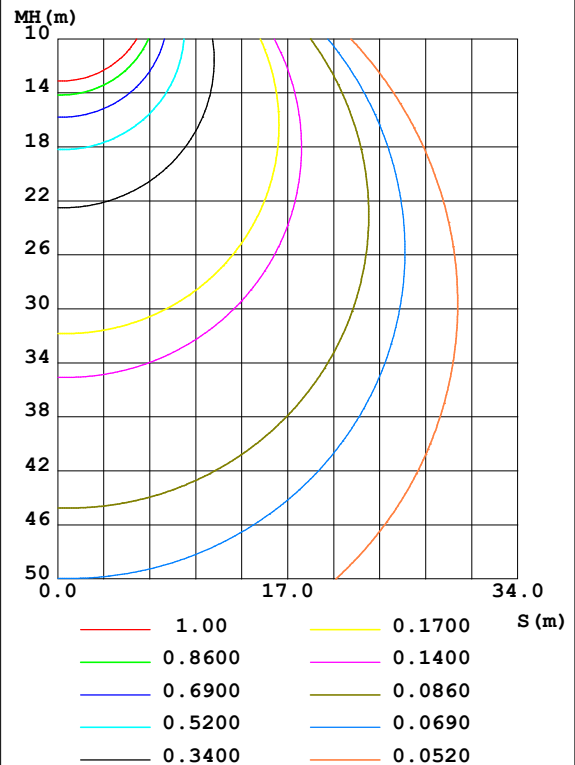
NAME: Nerja 6500	TYPE:	WEIGHT:
SPEC.:	DIM.: 10x 2x500mm	SERIAL No.:
MFR.: Luz Negra s.l.	SUR.:22	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.74 lm/W			
MODEL	32.075	I _{max} (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



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: Marçal Huguet
Test Date: 14 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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

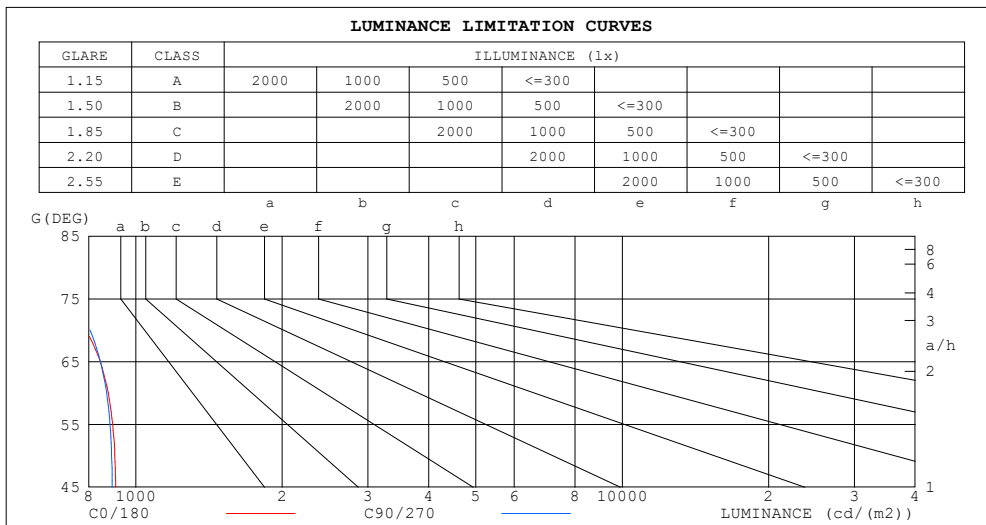
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	171.8	171.6	170.7	169.5	168.8	169.0	169.9	171.1	0- 10	16.35	16.35	3.06,3.06
20	166.4	166.2	164.6	162.4	161.0	161.3	163.1	165.2	10- 20	47.36	63.71	11.9,11.9
30	155.7	155.5	153.4	150.6	148.6	149.2	151.4	154.2	20- 30	73.18	136.9	25.6,25.6
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		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:14 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:

LUMINANCE LIMITATION CURVES

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



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

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: Marçal Huguet
 Test Date: 14 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:

WEC AND CCEC

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

pcc	80%			70%			50%			30%			10%			0	
pw	50%	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						Wall Exitance Coefficients (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		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	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						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
Temperature:25DEG
Operators:Marçal Huguet
Test Date:14 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:

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)

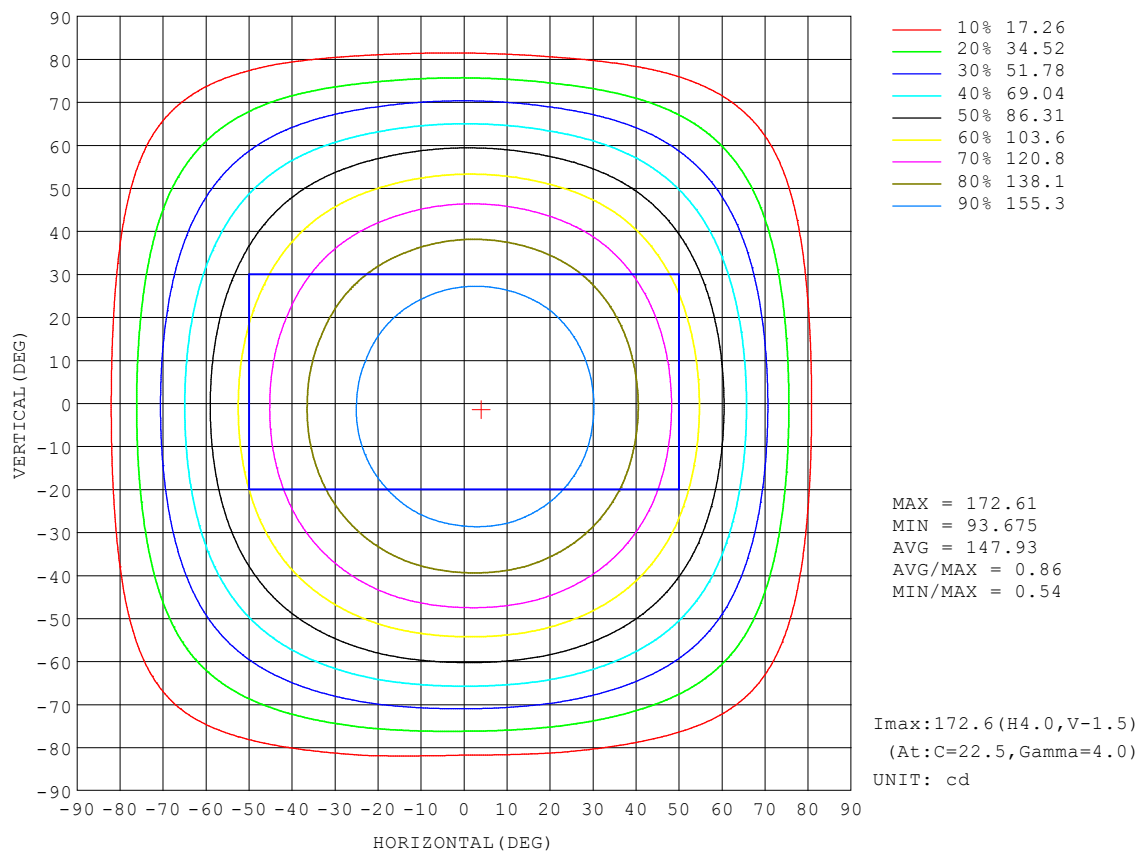
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:14 April 2021

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:

GONIOMETER TEST REPORT

ISOCANDELA DIAGRAM

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

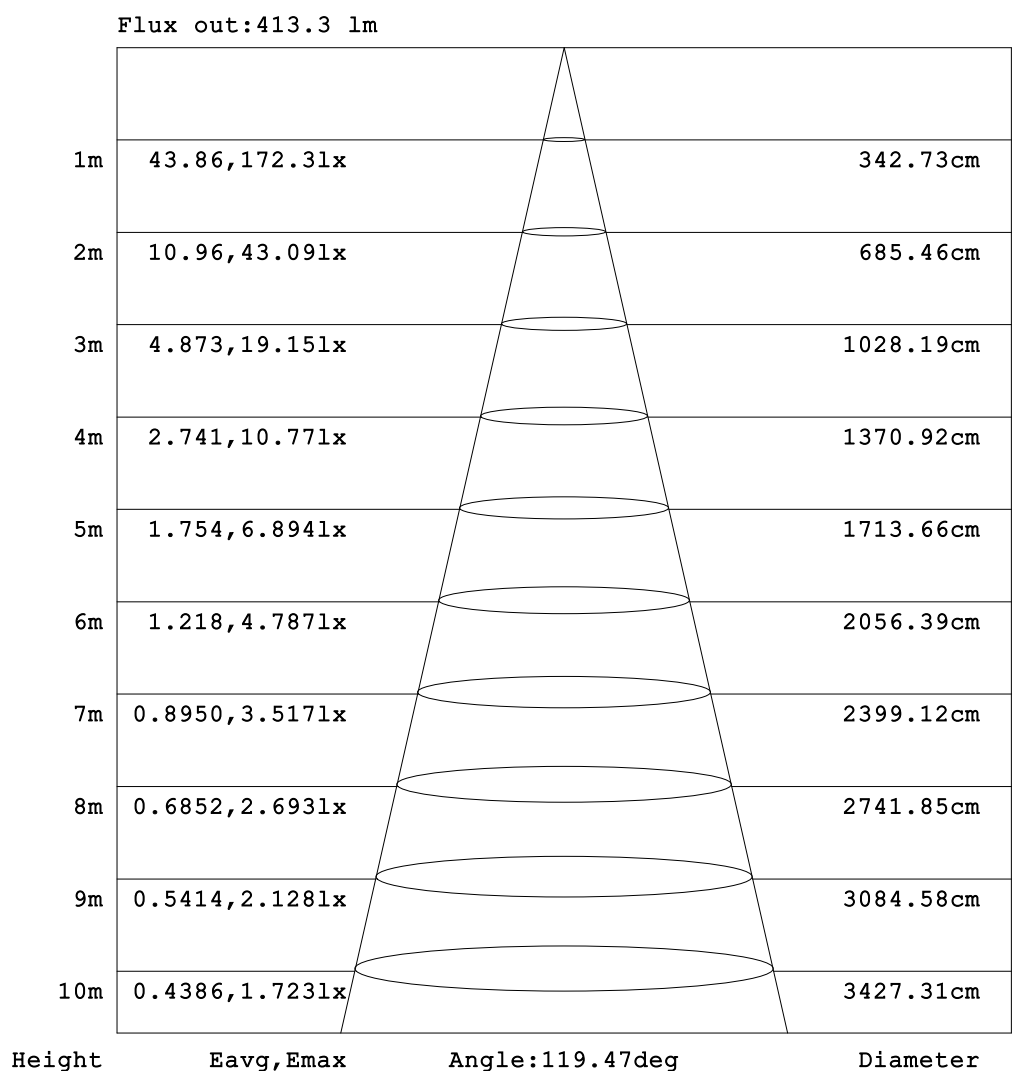


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:14 April 2021

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:

AAI Figure

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



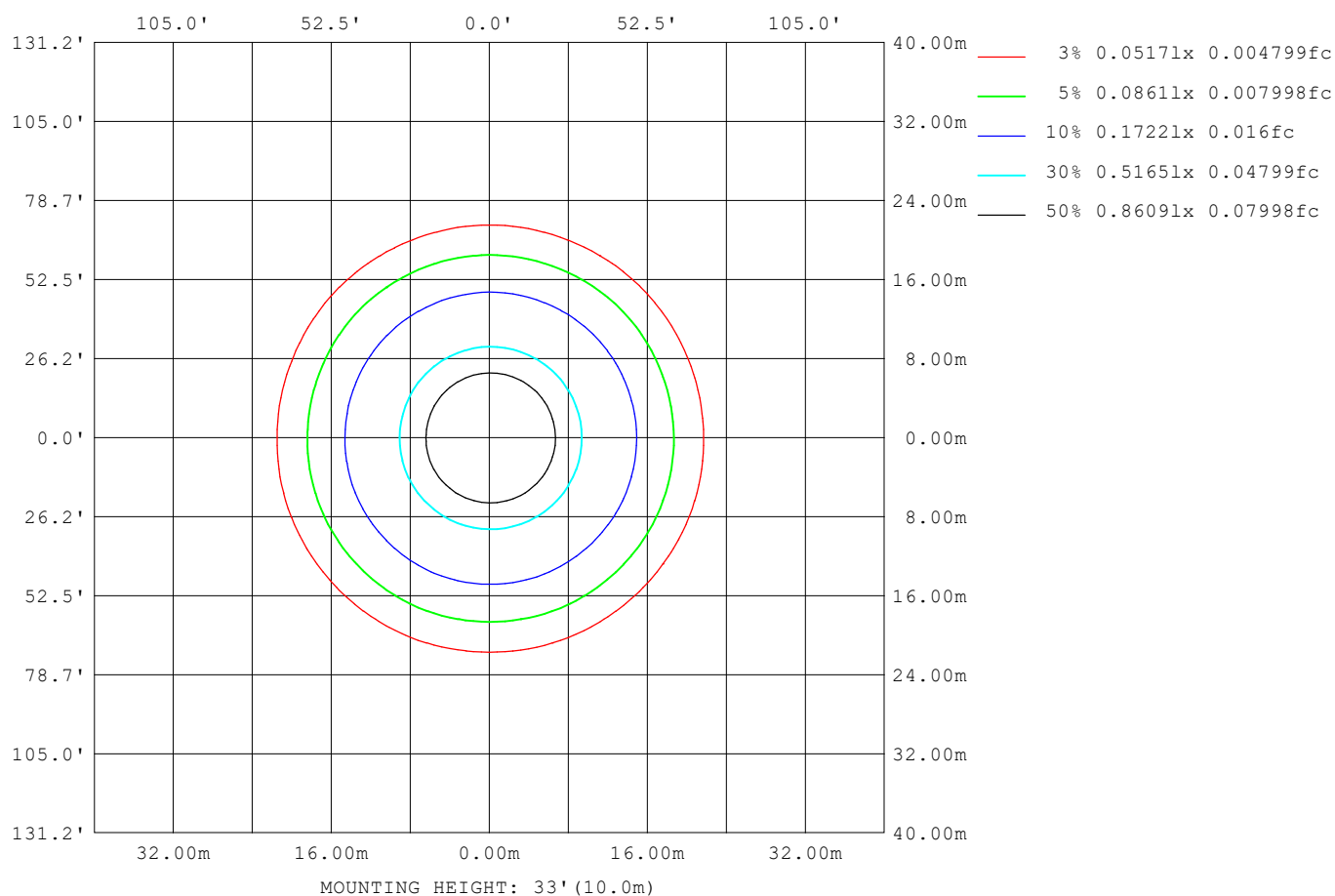
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:14 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:

ISOLUX DIAGRAM

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



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:14 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:

LED Avg.L Report

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

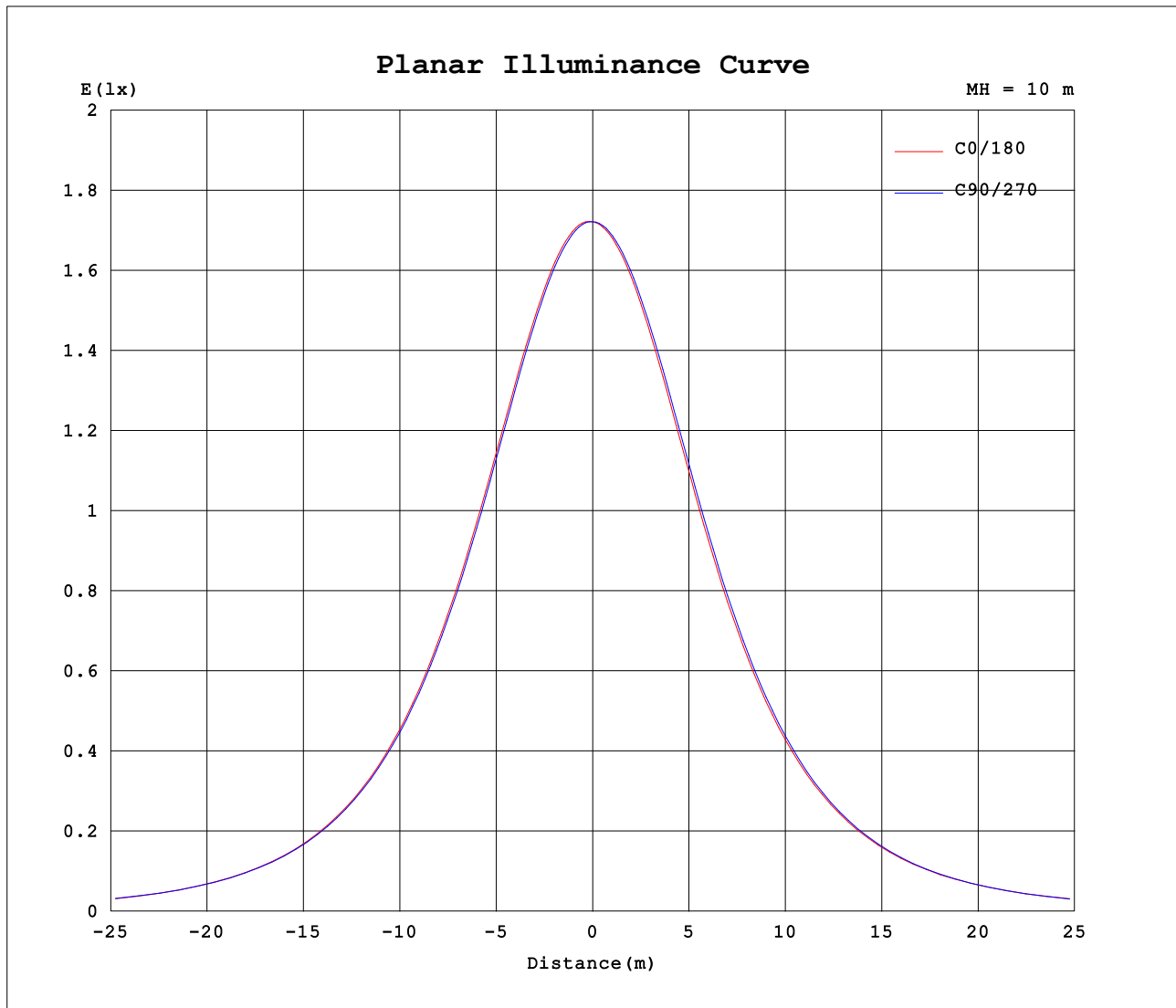
AvgL	cd/m2
L_0~180 (65) av	830
L_0~180 (75) av	719
L_0~180 (85) av	483
L_90~270 (65) av	831
L_90~270 (75) av	725
L_90~270 (85) av	484
L_45 (65) av	833
L_45 (75) av	726
L_45 (85) av	527

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:14 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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: Marçal Huguet
Test Date: 14 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:

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

C (DEG) γ (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

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25DEG

Operators:Marçal Huguet

Test Date:14 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: