

LUMINARIO PARA ALUMBRADO PUBLICO

ASSIC MAQUILADORA, S.A. DE C.V.

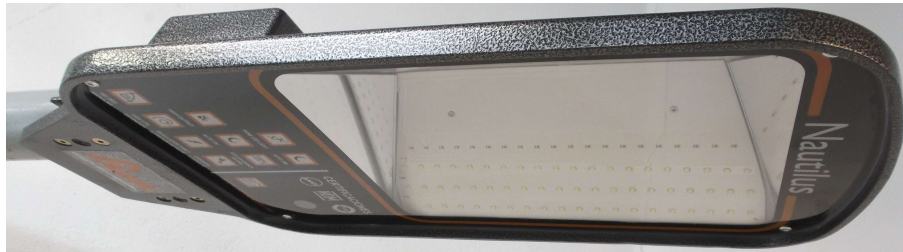
220V~ 90 W

MARCA: NAUTILUS

MODELO: NAU090UAEFCF

IES: Type VS Very Short cut-of

CIE: Narrow Short Semi-cut-off



Light Output Ratio:	100.0%
Luminaire Power:	87.25 W
I80 = 47.3 cd per klm.	I88 = 0.6 cd per klm.
I90 = 0.5 cd per klm.	I80/I88 = 81.044

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.2DEG
Operators:HALT
Test Date:2017-01-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.288
Humidity:48.1%
Test Distance:11.590m [K=1.1316]
Remarks: ZN212916

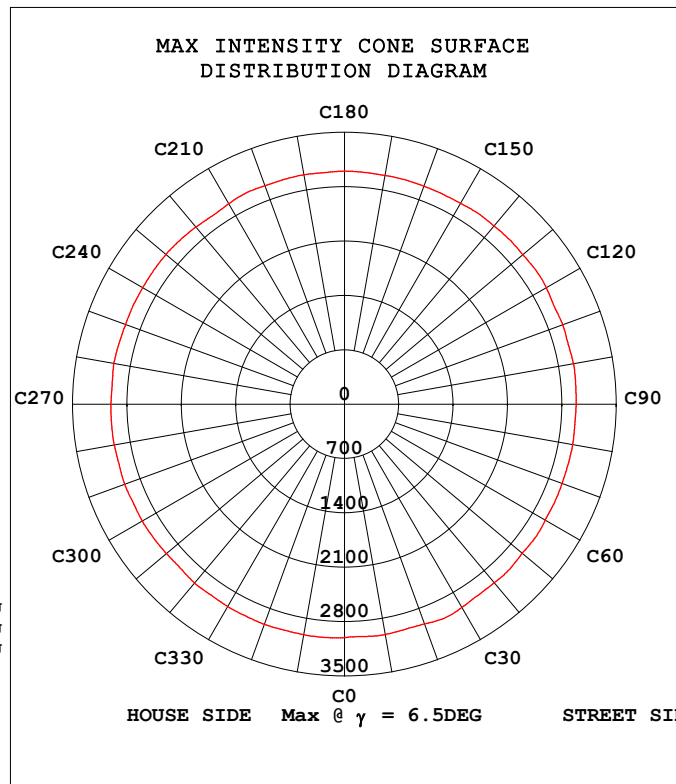
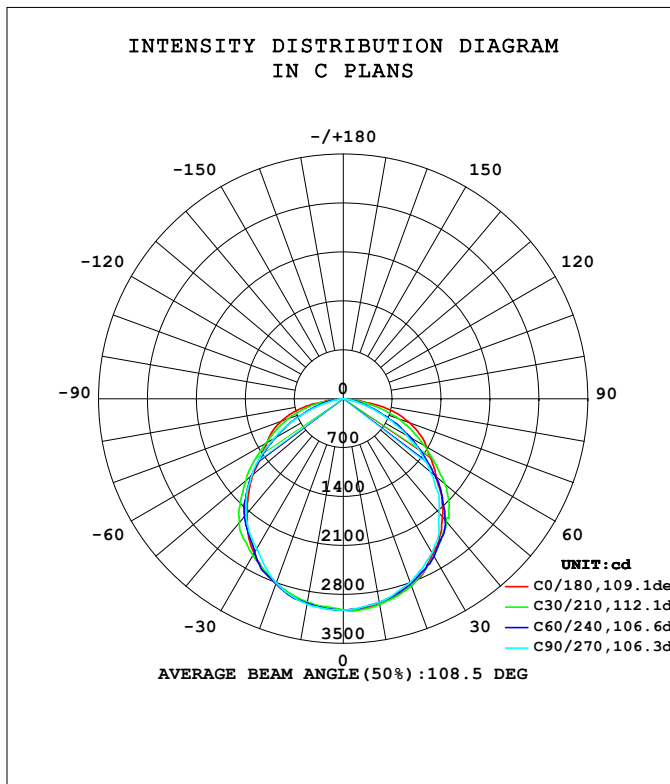
Checker: HALT

Assessor: YGO

STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: LUMINARIO LED	TYPE:LEED	WEIGHT:4.5 kg
SPEC.:220 V~ 90 W	DIM.: 60x29.5x9 cm	SERIAL No.:
MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	NAU090UAIEFCF	Imax (cd)	3041	η street_up(%)	0.1
NOMINAL POWER (W)	90	LOR (%)	100.0	η street_down(%)	49.4
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	8348	η house_up(%)	0.1
NOMINAL FLUX (lm)	8348.08	MAXIMUM @ (C, γ)	25,6.5	η house_down(%)	50.4
LAMPS INSIDE	1	η up (%)	0.2	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	220	η down (%)	99.8	SLI	20.212



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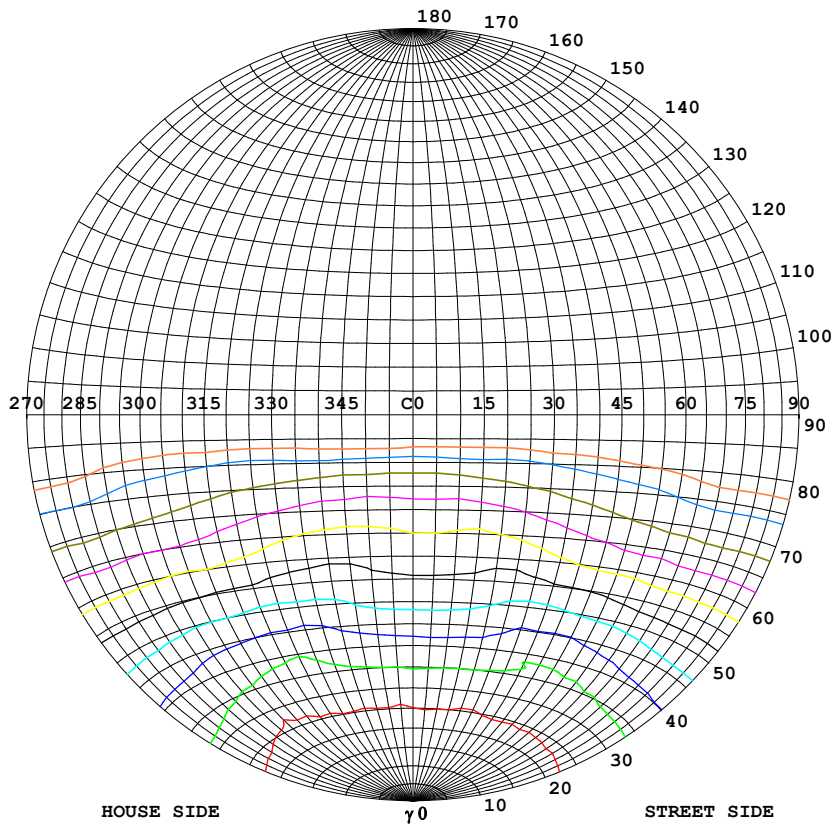
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.288
Humidity:48.1%
Test Distance:11.590m [K=1.1316]
Remarks: ZN212916

Checker: HALT
Note: SLI:Specific Luminaire Index
C:\Users\pruebas\Documents\ZN212916.GOS

Assessor: YGO

STREETLIGHT ISOCANDELA DIAGRAM

NAME: LUMINARIO LED	TYPE:LEED	WEIGHT:4.5 kg
SPEC.:220 V~ 90 W	DIM.: 60x29.5x9 cm	SERIAL No.:
MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	SUR.:	PROTECTION ANGLE:



Classification:

IES:Type VS - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:55.60cd/klm
Max.At90:0.7379cd/klm
Max.80-90:55.60cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3041
90%	2737
80%	2433
70%	2129
60%	1825
50%	1521
40%	1216
30%	912
20%	608
10%	304
5%	152

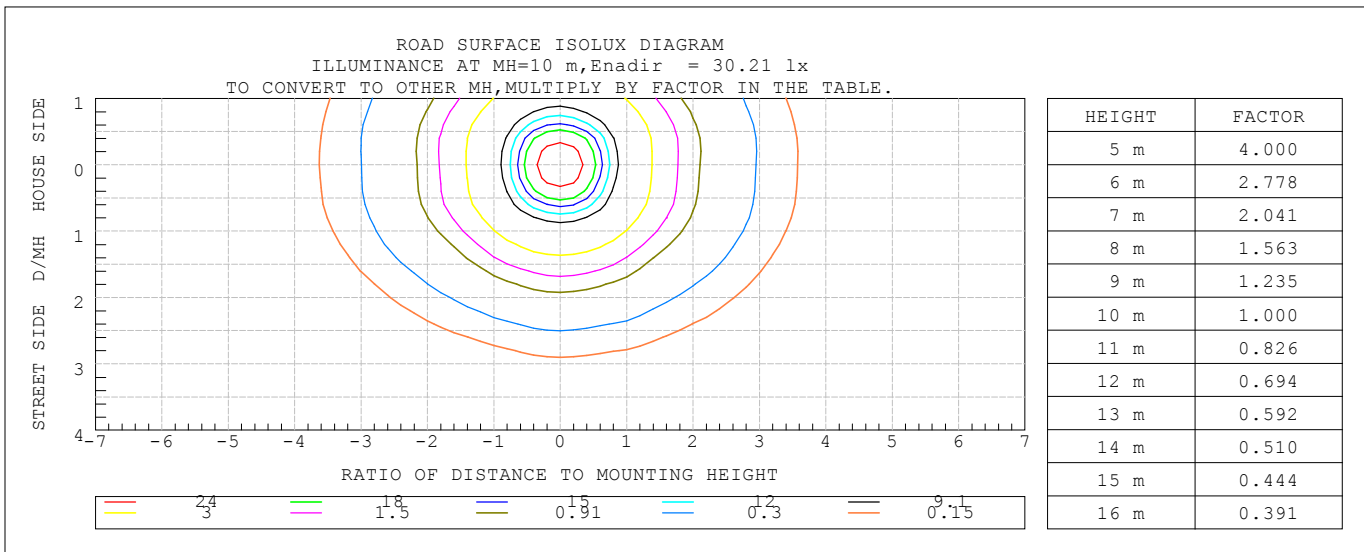
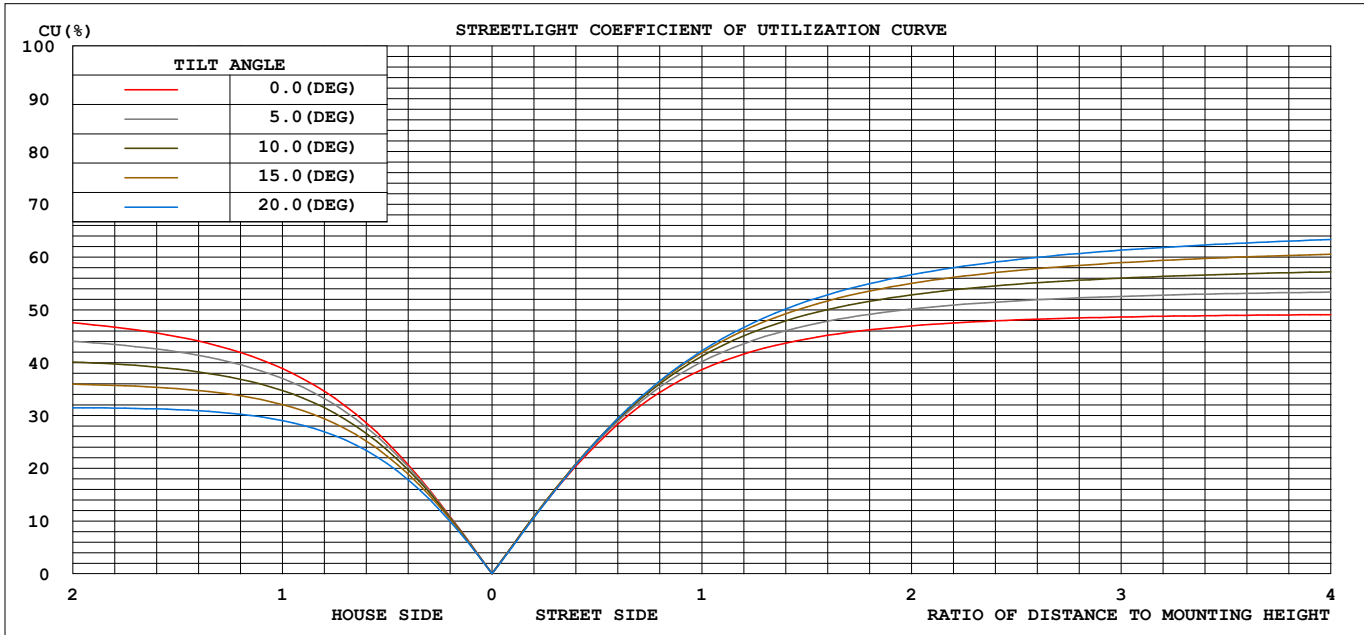
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Assessor: YGO

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.2DEG
Operators: HALT
Test Date: 2017-01-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.288
Humidity: 48.1%
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Remarks: ZN212916

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Assessor: YGO



ZONAL FLUX DIAGRAM

NAME: LUMINARIO LED	TYPE:LEED	WEIGHT:4.5 kg
SPEC.:220 V~ 90 W	DIM.: 60x29.5x9 cm	SERIAL No.:
MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	SUR.:	PROTECTION ANGLE:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	3013	3014	2996	3006	3009	3016	3016	3004	0- 5	72.10	72.10	0.86,0.86
10	2978	2981	2956	2967	2974	2960	2984	2956	5- 10	213.9	286.0	3.43,3.43
15	2921	2927	2882	2911	2913	2892	2912	2916	10- 15	348.9	634.9	7.61,7.61
20	2845	2833	2797	2827	2821	2829	2807	2841	15- 20	472.5	1107	13.3,13.3
25	2732	2722	2675	2722	2703	2742	2651	2764	20- 25	580.8	1688	20.2,20.2
30	2567	2634	2542	2613	2551	2656	2477	2689	25- 30	669.5	2358	28.2,28.2
35	2408	2542	2382	2508	2372	2460	2340	2545	30- 35	736.7	3094	37.1,37.1
40	2208	2358	2137	2329	2139	2273	2167	2354	35- 40	778.3	3873	46.4,46.4
45	1994	2134	1930	2113	1921	2048	1960	2128	40- 45	788.8	4661	55.8,55.8
50	1737	1806	1630	1782	1684	1763	1712	1847	45- 50	764.2	5426	65,65
55	1546	1507	1358	1517	1439	1480	1447	1557	50- 55	706.3	6132	73.5,73.5
60	1371	1183	1053	1185	1263	1185	1151	1250	55- 60	628.3	6760	81,81
65	1211	909.2	763.7	926.8	1126	904.9	867.5	1009	60- 65	537.6	7298	87.4,87.4
70	1009	650.5	483.0	694.9	946.8	678.0	563.5	774.2	65- 70	435.1	7733	92.6,92.6
75	771.8	411.6	236.3	450.9	733.6	471.7	308.2	541.0	70- 75	320.8	8054	96.5,96.5
80	394.7	191.1	70.38	218.8	447.1	264.5	111.1	297.9	75- 80	200.0	8254	98.9,98.9
85	87.94	25.64	7.683	30.75	93.48	56.17	13.65	58.00	80- 85	73.47	8327	99.8,99.8
90	4.462	4.646	3.781	1.257	5.697	4.222	3.018	5.074	85- 90	5.876	8333	99.8,99.8
95	2.977	3.141	2.112	0.8104	4.795	3.899	2.489	4.702	90- 95	1.975	8335	99.8,99.8
100	1.822	1.684	1.060	0.7367	4.015	3.366	2.118	3.836	95-100	1.472	8337	99.9,99.9
105	1.023	0.9751	0.6966	0.7356	3.086	3.155	2.114	3.231	100-105	1.109	8338	99.9,99.9
110	0.7529	0.8201	0.7791	0.8733	2.342	2.925	2.359	2.626	105-110	0.9033	8339	99.9,99.9
115	0.7350	0.8118	0.8891	0.9712	2.947	3.073	2.499	3.036	110-115	0.8900	8340	99.9,99.9
120	0.9330	0.9380	1.057	0.9978	3.477	3.469	2.657	3.502	115-120	0.9363	8341	99.9,99.9
125	1.016	1.058	1.180	1.050	4.062	3.919	2.434	4.051	120-125	0.9873	8341	99.9,99.9
130	1.023	1.152	1.003	1.183	4.611	3.937	3.102	4.414	125-130	1.041	8343	99.9,99.9
135	1.022	1.163	1.012	1.247	5.019	3.449	2.824	4.479	130-135	1.033	8344	99.9,99.9
140	1.106	1.173	1.124	1.202	5.179	3.321	2.174	3.595	135-140	0.9328	8344	100,100
145	1.422	1.184	1.181	1.136	5.102	4.094	2.564	3.651	140-145	0.8400	8345	100,100
150	1.320	1.262	1.185	1.099	4.508	4.250	2.331	3.930	145-150	0.7327	8346	100,100
155	1.041	1.416	1.188	1.043	4.173	4.314	1.997	4.126	150-155	0.6004	8347	100,100
160	1.478	1.738	1.203	1.089	3.913	4.167	1.663	4.321	155-160	0.4895	8347	100,100
165	1.747	2.363	1.245	1.583	3.624	3.826	1.384	4.330	160-165	0.3902	8348	100,100
170	2.296	2.842	1.291	2.150	3.573	3.716	1.351	4.293	165-170	0.2896	8348	100,100
175	2.742	3.219	1.366	2.859	3.512	3.559	1.350	3.883	170-175	0.1806	8348	100,100
180	3.085	3.504	1.394	3.277	3.132	3.081	1.393	3.399	175-180	0.0608	8348	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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ISOCANDELA DIAGRAM

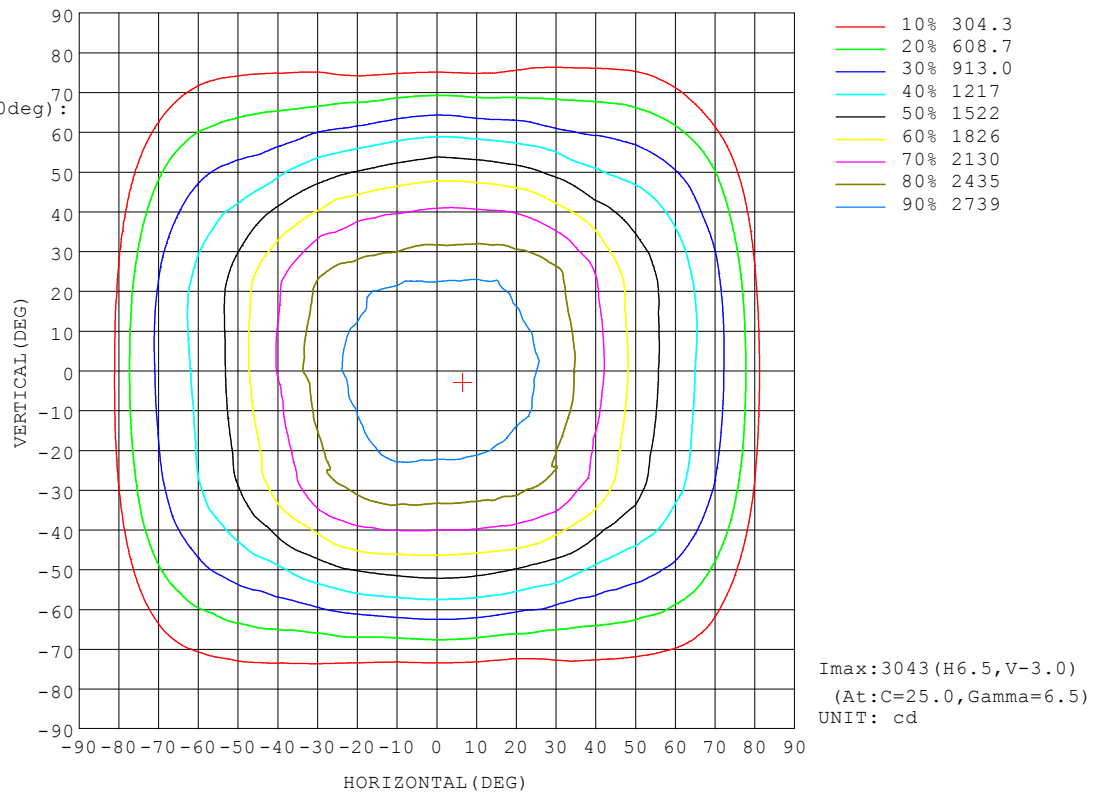
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MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

4661.5 lm
%lum = 55.8%
%lamp = 55.8%

Conical surface Flux(120deg):

6760.3 lm
%lum = 81.0%
%lamp = 81.0%



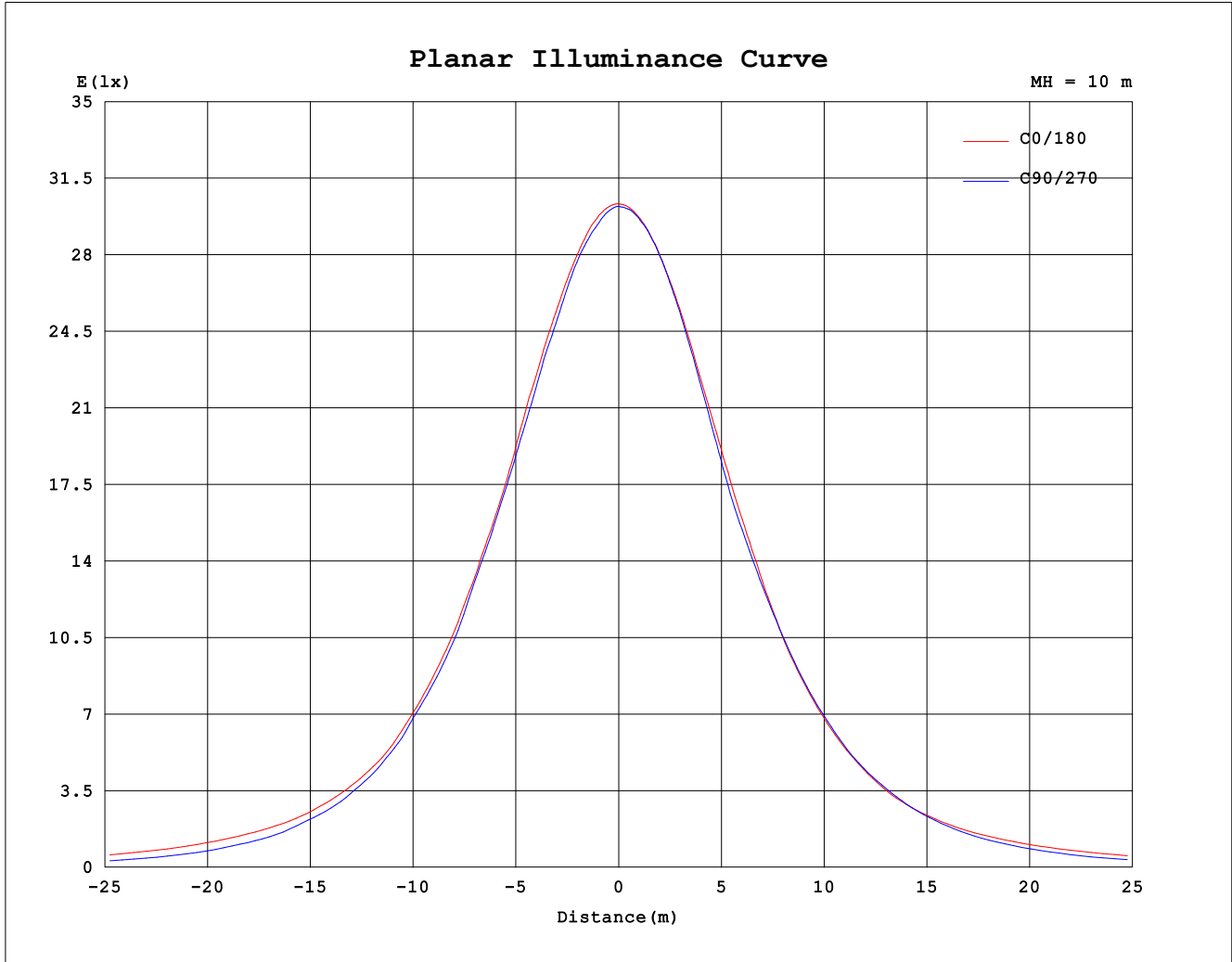
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Planar Illuminance Curve



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Assessor: YGO



LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LUMINARIO LED	TYPE:LEED	WEIGHT:4.5 kg
SPEC.:220 V~ 90 W	DIM.: 60x29.5x9 cm	SERIAL No.:
MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	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	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024
5	3013	3008	3018	3011	3009	3033	3030	3008	3008	3014	3003	3012	2999	3003	2998	2995	2996	2990	2996
10	2978	2976	2981	2988	2999	3024	2990	2964	2970	2981	2961	2971	2957	2958	2956	2954	2953	2952	2956
15	2921	2920	2933	2938	2947	2936	2928	2901	2903	2927	2897	2909	2898	2897	2891	2884	2887	2888	2882
20	2845	2844	2848	2854	2844	2865	2844	2819	2819	2833	2810	2820	2818	2806	2793	2796	2794	2788	2797
25	2732	2718	2728	2730	2749	2753	2724	2715	2716	2722	2710	2718	2716	2701	2689	2689	2675	2668	2675
30	2567	2586	2589	2592	2610	2599	2596	2590	2603	2634	2611	2628	2601	2568	2539	2546	2536	2531	2542
35	2408	2412	2424	2426	2425	2437	2448	2480	2534	2542	2494	2479	2441	2441	2405	2405	2393	2384	2382
40	2208	2202	2204	2213	2225	2261	2288	2357	2354	2358	2331	2318	2268	2208	2185	2156	2155	2134	2137
45	1994	1996	2004	2017	2038	2070	2147	2133	2144	2134	2066	2054	2006	1978	1960	1941	1934	1925	1930
50	1737	1723	1738	1753	1794	1883	1896	1891	1837	1806	1789	1769	1708	1690	1660	1643	1635	1636	1630
55	1546	1543	1554	1576	1622	1643	1596	1539	1529	1507	1476	1428	1400	1383	1366	1360	1365	1364	1358
60	1371	1365	1395	1428	1427	1387	1337	1281	1206	1183	1146	1157	1119	1073	1044	1045	1051	1054	1053
65	1211	1210	1227	1249	1215	1177	1095	1012	949	909	848	826	826	778	752	757	760	761	764
70	1009	1020	1032	999	981	907	841	756	713	651	598	562	519	494	481	472	478	481	483
75	772	766	759	716	677	620	562	509	464	412	373	342	301	262	235	239	243	237	236
80	395	408	417	395	366	330	297	257	223	191	169	145	121	98.8	80.1	73.1	73.1	74.7	70.4
85	87.9	88.1	77.7	72.0	62.3	53.5	44.9	35.5	31.2	25.6	20.7	15.5	12.0	9.73	9.22	8.67	8.54	8.38	7.68
90	4.46	4.03	4.69	4.64	4.88	5.04	4.95	5.07	4.92	4.65	4.45	4.57	4.27	4.50	4.58	4.36	4.18	3.88	3.78
95	2.98	3.17	3.34	3.35	3.25	3.29	3.24	3.57	3.29	3.14	2.97	3.08	2.70	2.57	2.80	2.60	2.47	2.30	2.11
100	1.82	1.78	1.89	1.85	1.91	1.87	1.74	1.89	1.87	1.68	1.64	1.70	1.56	1.50	1.45	1.40	1.29	1.20	1.06
105	1.02	1.10	1.07	1.13	0.99	1.06	0.96	1.01	0.97	0.98	0.94	0.94	0.86	0.82	0.84	0.84	0.82	0.72	0.70
110	0.75	0.88	0.89	0.91	0.91	0.86	0.84	0.85	0.83	0.82	0.81	0.76	0.76	0.78	0.82	0.85	0.86	0.78	0.78
115	0.74	0.76	0.84	0.87	0.94	0.89	0.86	0.85	0.82	0.81	0.84	0.77	0.78	0.79	0.83	0.92	1.01	0.86	0.89
120	0.93	0.99	1.03	1.08	1.06	0.93	0.90	0.88	0.89	0.94	1.02	1.02	0.85	0.83	0.82	0.88	1.05	0.95	1.06
125	1.02	1.06	1.07	1.15	1.17	1.02	0.97	0.93	1.01	1.06	1.07	1.09	1.13	1.22	1.04	1.00	0.99	0.99	1.18
130	1.02	1.03	1.07	1.11	1.14	1.06	1.04	1.06	1.08	1.15	1.16	1.22	1.32	1.34	1.33	1.25	1.06	1.00	1.00
135	1.02	1.03	1.07	1.11	1.17	1.15	1.11	1.13	1.12	1.16	1.22	1.33	1.35	1.38	1.38	1.39	1.19	1.02	1.01
140	1.11	1.05	1.08	1.16	1.18	1.18	1.17	1.16	1.18	1.17	1.22	1.35	1.38	1.46	1.40	1.45	1.33	1.21	1.12
145	1.42	1.25	1.12	1.17	1.20	1.20	1.20	1.17	1.19	1.18	1.26	1.35	1.44	1.49	1.52	1.50	1.42	1.33	1.18
150	1.32	1.29	1.17	1.18	1.21	1.23	1.24	1.23	1.27	1.26	1.33	1.41	1.49	1.63	1.61	1.47	1.44	1.32	1.18
155	1.04	1.31	1.23	1.29	1.27	1.32	1.34	1.36	1.36	1.42	1.37	1.46	1.59	1.65	1.65	1.45	1.41	1.32	1.19
160	1.48	1.83	1.92	1.91	1.93	1.88	1.77	1.68	1.64	1.74	1.77	1.70	1.64	1.66	1.59	1.42	1.34	1.29	1.20
165	1.75	2.13	2.28	2.29	2.33	2.32	2.20	2.14	2.14	2.36	2.47	2.28	1.98	1.78	1.52	1.38	1.32	1.29	1.24
170	2.30	2.62	2.86	2.83	2.81	2.71	2.53	2.50	2.60	2.84	2.90	2.62	2.18	1.76	1.46	1.34	1.33	1.36	1.29
175	2.74	2.82	3.01	3.16	3.19	3.02	2.78	2.71	2.91	3.22	3.24	2.80	2.31	1.74	1.40	1.28	1.34	1.44	1.37
180	3.09	3.25	3.16	3.28	3.22	3.16	2.97	2.76	3.04	3.50	3.44	2.92	2.30	1.75	1.40	1.28	1.34	1.40	1.39

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LABORATORIO DE PRUEBAS
ANCE APODACA



LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:220 V~ 90 W	DIM.: 60x29.5x9 cm	SERIAL No.:
MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	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	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024
5	2996	3003	2992	3003	2994	3010	3014	3013	3006	3002	3008	2996	2996	2997	3002	3002	3005	3009	3002
10	2958	2960	2958	2960	2961	2980	2986	2968	2967	2966	2964	2952	2955	2955	2961	2962	2969	2974	2970
15	2889	2886	2885	2905	2910	2930	2921	2906	2911	2902	2895	2888	2883	2888	2894	2893	2905	2913	2909
20	2793	2799	2804	2826	2826	2842	2844	2827	2827	2822	2814	2803	2792	2802	2807	2807	2807	2821	2821
25	2678	2696	2704	2721	2742	2743	2744	2729	2722	2713	2695	2689	2689	2688	2690	2675	2678	2703	2700
30	2542	2557	2566	2588	2613	2632	2650	2618	2613	2588	2570	2558	2552	2547	2527	2512	2512	2551	2548
35	2389	2410	2420	2451	2461	2478	2492	2492	2508	2463	2437	2401	2379	2356	2350	2323	2325	2372	2371
40	2144	2158	2177	2211	2261	2298	2318	2313	2329	2326	2311	2225	2182	2150	2131	2108	2112	2139	2151
45	1937	1949	1960	1983	2010	2049	2048	2084	2113	2094	2071	2052	2001	1952	1917	1914	1910	1921	1939
50	1629	1641	1657	1688	1704	1751	1791	1780	1782	1818	1846	1832	1809	1756	1716	1690	1688	1684	1699
55	1356	1354	1358	1384	1419	1434	1451	1468	1517	1535	1536	1573	1569	1550	1489	1456	1439	1439	1460
60	1042	1041	1049	1086	1126	1144	1160	1187	1185	1219	1277	1302	1350	1345	1303	1271	1262	1263	1288
65	761	761	764	791	831	853	853	875	927	963	1024	1097	1130	1164	1167	1139	1118	1126	1157
70	481	480	494	523	549	560	595	628	695	728	804	852	901	939	969	959	948	947	977
75	238	240	254	277	305	335	364	403	451	495	542	586	643	681	719	737	734	734	741
80	70.2	77.0	87.6	102	122	142	165	192	219	252	290	323	360	391	426	457	464	447	450
85	7.48	7.08	6.95	7.76	9.13	11.9	15.5	20.5	30.7	41.2	41.7	51.3	60.0	70.2	81.2	91.0	98.3	93.5	92.3
90	3.50	3.18	3.16	2.54	2.14	1.71	1.49	1.31	1.26	1.27	1.37	1.84	2.32	3.12	3.00	3.29	3.58	5.70	5.55
95	2.06	1.95	1.89	1.50	1.28	1.01	0.90	0.79	0.81	0.94	1.10	1.35	1.68	1.79	2.04	2.09	2.51	4.80	4.79
100	1.02	0.94	0.89	0.79	0.76	0.72	0.71	0.71	0.74	0.86	0.96	1.11	1.25	1.40	1.55	1.63	1.93	4.01	4.02
105	0.73	0.70	0.73	0.69	0.74	0.71	0.69	0.72	0.74	0.81	0.86	0.92	1.02	1.21	1.28	1.26	1.26	3.09	2.96
110	0.81	0.86	0.86	0.81	0.78	0.76	0.77	0.89	0.87	0.89	0.95	0.98	1.02	1.03	0.99	0.97	0.95	2.34	2.38
115	0.90	0.92	0.98	0.96	0.88	0.87	0.81	0.89	0.97	1.02	1.12	1.20	1.18	1.16	1.02	1.05	1.01	2.95	2.98
120	1.02	0.90	0.88	0.92	1.03	0.87	0.88	0.92	1.00	1.04	1.17	1.18	1.15	1.12	1.04	1.14	1.18	3.48	3.50
125	1.20	1.15	0.94	1.05	1.18	1.32	1.16	1.15	1.05	1.05	1.08	1.07	1.03	1.05	1.08	1.32	1.33	4.06	4.09
130	1.19	1.46	1.19	1.15	1.19	1.38	1.47	1.27	1.18	1.10	1.06	0.96	0.96	1.06	1.13	1.35	1.35	4.61	4.62
135	1.10	1.33	1.43	1.25	1.20	1.33	1.40	1.43	1.25	1.24	1.08	1.03	0.98	1.02	1.17	1.37	1.42	5.02	4.89
140	1.09	1.27	1.42	1.36	1.34	1.19	1.22	1.16	1.20	1.36	1.32	1.18	1.08	1.03	1.23	1.46	1.52	5.18	4.77
145	1.08	1.19	1.40	1.36	1.37	1.30	1.18	1.11	1.14	1.23	1.44	1.38	1.30	1.21	1.35	1.48	1.58	5.10	4.69
150	1.05	1.10	1.31	1.36	1.35	1.31	1.11	1.15	1.10	1.15	1.28	1.48	1.46	1.34	1.38	1.49	1.53	4.51	4.45
155	1.05	1.03	1.13	1.10	1.07	1.06	1.02	1.00	1.04	1.13	1.27	1.34	1.42	1.39	1.33	1.54	1.65	4.17	4.18
160	1.10	1.14	1.16	1.10	1.06	1.12	1.41	1.31	1.09	1.21	1.46	1.63	1.76	1.83	1.89	1.78	2.10	3.91	3.97
165	1.14	1.17	1.19	1.16	1.30	1.57	1.95	2.07	1.58	1.49	1.66	1.92	2.03	2.04	2.05	2.04	2.04	3.62	3.73
170	1.13	1.15	1.25	1.22	1.42	1.83	2.35	2.58	2.15	1.82	1.97	2.25	2.41	2.42	2.45	2.50	2.51	3.57	3.77
175	1.19	1.22	1.41	1.61	1.82	2.33	2.86	3.11	2.86	2.33	2.38	2.69	2.82	2.71	2.79	2.80	3.08	3.51	3.80
180	1.21	1.20	1.37	1.63	1.84	2.51	3.13	3.45	3.28	2.69	2.38	2.61	2.84	2.82	2.84	2.88	3.26	3.13	3.09

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.2DEG
Operators:HALT
Test Date:2017-01-16

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.288
Humidity:48.1%
Test Distance:11.590m [K=1.1316]
Remarks: ZN212916

Checker: HALT

Assessor: YGO

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LUMINARIO LED	TYPE:LEED	WEIGHT:4.5 kg
SPEC.:220 V~ 90 W	DIM.: 60x29.5x9 cm	SERIAL No.:
MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	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	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024
5	3009	3003	3005	3012	2985	2986	2989	3016	3012	3012	3008	3013	3007	3012	3021	3009	3016	3018	3019
10	2970	2967	2966	2968	2954	2932	2931	2960	2968	2982	2970	2972	2972	2980	2984	2979	2984	2981	2980
15	2920	2900	2906	2907	2892	2884	2877	2892	2894	2908	2922	2916	2910	2910	2915	2912	2912	2917	2915
20	2824	2826	2815	2814	2804	2804	2803	2829	2812	2814	2807	2834	2822	2815	2814	2805	2807	2814	2816
25	2710	2703	2710	2719	2699	2699	2700	2742	2742	2728	2719	2699	2690	2675	2662	2650	2651	2661	2675
30	2563	2565	2582	2589	2589	2592	2615	2656	2605	2592	2538	2493	2475	2481	2487	2480	2477	2478	2493
35	2386	2401	2408	2442	2468	2507	2488	2460	2396	2379	2363	2363	2337	2325	2332	2341	2340	2341	2349
40	2170	2182	2225	2282	2315	2318	2288	2273	2210	2199	2202	2177	2170	2147	2150	2157	2167	2176	2185
45	1956	1990	2040	2087	2085	2058	2061	2048	2006	2003	1969	1958	1940	1934	1940	1946	1960	1970	1978
50	1735	1791	1843	1855	1824	1814	1780	1763	1742	1753	1722	1683	1672	1667	1676	1697	1712	1713	1715
55	1506	1561	1590	1566	1568	1537	1504	1480	1458	1435	1422	1411	1396	1396	1408	1416	1447	1442	1442
60	1331	1359	1339	1331	1287	1235	1187	1185	1174	1161	1130	1112	1102	1104	1121	1139	1151	1151	1139
65	1190	1178	1159	1127	1063	987	932	905	875	875	861	833	819	826	845	858	867	862	846
70	997	958	945	896	843	777	718	678	642	616	582	572	545	538	550	557	563	562	554
75	726	711	682	651	596	555	511	472	438	411	377	334	306	301	302	305	308	303	302
80	437	419	394	378	352	322	290	264	238	218	199	171	140	118	116	111	111	113	118
85	87.5	85.7	81.5	75.3	70.0	64.3	58.3	56.2	54.6	46.5	39.5	29.9	22.9	17.8	15.0	14.4	13.7	14.0	16.1
90	5.87	5.46	5.33	5.31	5.01	4.85	4.42	4.22	3.96	3.94	3.70	3.55	3.37	3.25	3.25	3.06	3.02	3.18	3.32
95	4.81	4.88	4.48	4.80	4.59	4.48	4.11	3.90	3.46	3.33	3.07	2.93	2.77	2.69	2.52	2.49	2.49	2.67	2.85
100	4.13	4.11	4.24	3.98	3.85	3.78	3.68	3.37	3.12	2.92	2.68	2.54	2.32	2.20	2.13	2.13	2.12	2.22	2.36
105	2.91	2.89	3.06	3.14	3.10	3.26	3.28	3.15	2.97	2.95	2.67	2.47	2.22	2.14	2.06	2.06	2.11	2.14	2.25
110	2.52	2.68	2.79	2.88	2.92	2.92	2.93	2.93	2.76	2.69	2.61	2.49	2.30	2.16	2.12	2.23	2.36	2.39	2.58
115	3.02	3.11	3.25	3.29	3.25	3.12	3.09	3.07	2.97	2.75	2.62	2.54	2.42	2.37	2.32	2.36	2.50	2.60	2.78
120	3.53	3.60	3.69	3.55	3.55	3.53	3.51	3.47	3.29	2.89	2.01	2.07	2.23	2.39	2.40	2.51	2.66	2.79	2.92
125	4.13	4.06	3.98	4.09	4.10	4.09	4.06	3.92	3.53	3.12	2.96	3.35	2.44	2.43	2.14	2.45	2.43	2.51	2.55
130	4.51	4.30	4.28	4.37	4.38	4.37	4.35	3.94	3.34	3.81	4.23	4.13	2.76	2.96	2.64	2.81	3.10	3.24	3.46
135	4.57	4.56	4.55	4.60	4.58	4.56	4.40	3.45	3.02	4.09	4.42	3.86	2.89	2.74	2.47	2.59	2.82	3.03	3.18
140	4.73	4.69	4.72	4.71	4.64	4.51	4.18	3.32	2.40	3.62	4.17	3.52	3.10	2.76	2.19	2.11	2.17	2.16	2.47
145	4.70	4.66	4.69	4.72	4.70	4.31	3.93	4.09	3.58	2.77	3.23	2.96	2.92	2.63	2.48	2.48	2.56	2.50	3.03
150	4.50	4.58	4.62	4.66	4.43	4.08	3.64	4.25	4.42	2.95	2.35	2.30	2.24	2.21	2.26	2.28	2.33	2.20	2.56
155	4.27	4.36	4.43	4.42	4.13	3.61	3.61	4.31	4.45	3.25	2.38	2.05	1.81	1.80	1.79	1.91	2.00	1.90	2.05
160	4.07	4.13	4.17	4.10	3.67	3.32	3.52	4.17	4.28	3.37	2.52	2.06	1.66	1.54	1.50	1.61	1.66	1.62	1.72
165	3.78	3.81	3.75	3.62	3.18	3.00	3.28	3.83	3.90	3.35	2.58	2.04	1.58	1.38	1.36	1.43	1.38	1.38	1.49
170	3.73	3.61	3.57	3.39	3.06	2.91	3.24	3.72	3.73	3.33	2.66	2.05	1.62	1.39	1.36	1.36	1.35	1.24	1.31
175	3.58	3.50	3.55	3.39	3.07	2.84	3.05	3.56	3.62	3.22	2.60	2.06	1.65	1.40	1.29	1.32	1.35	1.25	1.20
180	3.28	3.18	3.27	3.24	3.14	2.94	2.77	3.08	3.45	3.43	2.92	2.30	1.75	1.40	1.27	1.34	1.39	1.39	1.19

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.2DEG
 Operators:HALT
 Test Date:2017-01-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.288
 Humidity:48.1%
 Test Distance:11.590m [K=1.1316]
 Remarks: ZN212916

Checker: HALT

Assessor: YGO



**LABORATORIO DE PRUEBAS
ANCE APODACA**

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LUMINARIO LED	TYPE:LEED	WEIGHT:4.5 kg
SPEC.:220 V~ 90 W	DIM.: 60x29.5x9 cm	SERIAL No.:
MFR.: ASSIC MAQUILADORA, S.A. DE C.V.	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	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024	3024				
5	3008	3022	3012	3016	3018	3003	3004	3017	3010	3014	3015	3021	3017	3021	3018				
10	2979	2980	2985	2980	2982	2976	2956	2978	2972	2975	2983	2994	2995	2986	2996				
15	2912	2926	2919	2941	2926	2916	2916	2914	2920	2928	2925	2938	2952	2938	2948				
20	2813	2832	2842	2847	2846	2844	2841	2841	2842	2843	2851	2855	2853	2866	2867				
25	2684	2714	2743	2753	2774	2758	2764	2747	2754	2742	2745	2760	2747	2748	2762				
30	2509	2537	2561	2600	2662	2653	2689	2666	2648	2635	2621	2618	2622	2605	2619				
35	2367	2394	2416	2448	2469	2505	2545	2545	2558	2506	2482	2466	2450	2437	2436				
40	2194	2222	2245	2275	2304	2313	2354	2388	2408	2375	2322	2277	2259	2235	2223				
45	1979	2009	2038	2057	2091	2103	2128	2152	2152	2179	2148	2098	2057	2031	2011				
50	1721	1749	1773	1806	1818	1825	1847	1885	1903	1899	1904	1871	1815	1769	1755				
55	1454	1461	1490	1507	1514	1541	1557	1565	1606	1637	1656	1704	1650	1604	1577				
60	1145	1169	1188	1216	1231	1217	1250	1302	1362	1399	1432	1462	1476	1443	1411				
65	856	885	911	910	924	959	1009	1052	1111	1185	1233	1258	1301	1284	1251				
70	571	605	625	661	688	727	774	825	883	931	989	1032	1039	1075	1051				
75	320	353	400	440	466	500	541	587	624	656	703	728	756	771	777				
80	142	178	206	227	245	271	298	331	356	375	388	380	360	349	354				
85	19.4	25.6	35.3	45.1	50.7	52.7	58.0	64.3	67.9	72.4	76.4	76.6	68.4	61.5	60.2				
90	3.58	3.97	4.65	4.80	5.31	5.45	5.07	5.33	5.77	5.61	5.53	6.08	5.60	6.16	5.90				
95	3.13	3.41	3.82	3.94	4.34	4.73	4.70	4.60	4.57	5.03	4.76	4.98	4.93	4.97	5.04				
100	2.53	2.70	3.10	3.27	3.43	3.71	3.84	3.81	3.76	3.88	3.83	3.86	3.64	3.85	3.75				
105	2.37	2.51	2.73	2.86	3.12	3.19	3.23	3.07	2.97	2.86	2.87	2.82	2.70	2.82	2.65				
110	2.65	2.67	2.67	2.71	2.70	2.63	2.63	2.58	2.44	2.28	2.17	2.09	1.95	2.00	1.98				
115	2.86	2.86	2.83	2.85	2.87	3.00	3.04	2.97	2.82	2.67	2.46	2.43	2.33	2.31	2.31				
120	3.09	3.03	2.58	2.38	3.23	3.39	3.50	3.50	3.34	3.21	3.13	3.05	2.88	2.78	2.75				
125	2.56	2.55	2.93	2.61	3.36	4.03	4.05	4.18	4.20	4.01	3.79	3.53	3.35	3.24	3.35				
130	3.55	3.58	4.21	4.39	2.91	4.06	4.41	4.59	4.56	4.41	4.04	3.86	3.64	3.53	3.63				
135	3.36	3.58	4.22	4.51	3.56	2.73	4.48	4.94	4.82	4.53	4.26	4.08	3.84	3.78	3.85				
140	3.03	3.37	4.01	3.78	3.35	3.00	3.59	4.83	4.79	4.54	4.29	4.13	3.94	3.87	3.74				
145	3.26	2.92	3.35	3.01	3.99	4.34	3.65	4.27	4.76	4.62	4.30	4.15	3.98	3.83	3.78				
150	2.39	2.58	2.68	2.95	4.32	4.91	3.93	3.75	4.39	4.48	4.29	4.12	3.82	3.75	3.76				
155	1.61	1.92	2.38	3.23	4.39	4.95	4.13	3.50	3.73	4.17	4.12	3.98	3.63	3.60	3.62				
160	1.47	1.55	2.23	3.48	4.32	4.82	4.32	3.53	3.45	3.82	3.94	3.78	3.53	3.49	3.51				
165	1.42	1.51	2.05	3.38	4.11	4.55	4.33	3.50	3.23	3.52	3.74	3.59	3.38	3.38	3.34				
170	1.37	1.48	2.00	3.19	3.91	4.30	4.29	3.48	3.05	3.22	3.52	3.47	3.34	3.35	3.29				
175	1.32	1.45	1.78	2.67	3.48	3.79	3.88	3.18	2.66	2.76	3.01	3.14	3.16	3.17	3.42				
180	1.20	1.39	1.63	1.83	2.52	3.13	3.40	3.24	2.65	2.37	2.62	2.84	2.85	2.83	2.89				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.2DEG
 Operators:HALT
 Test Date:2017-01-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.288
 Humidity:48.1%
 Test Distance:11.590m [K=1.1316]
 Remarks: ZN212916

Checker: HALT

Assessor: YGO