



PICASSO LIGHTING INDUSTRIES, LLC
46 Sellers Street, Kearny, NJ 07032
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
NIC-PSW-4-D10-30-80-FW-W
(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00039

Test Date

2017-06-13

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Semi-direct w/ Frosted Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Surface & Wall Mounted
Luminous Length:	47.88 in
Luminous Width:	1.75 in
Luminous Height:	1.25 in

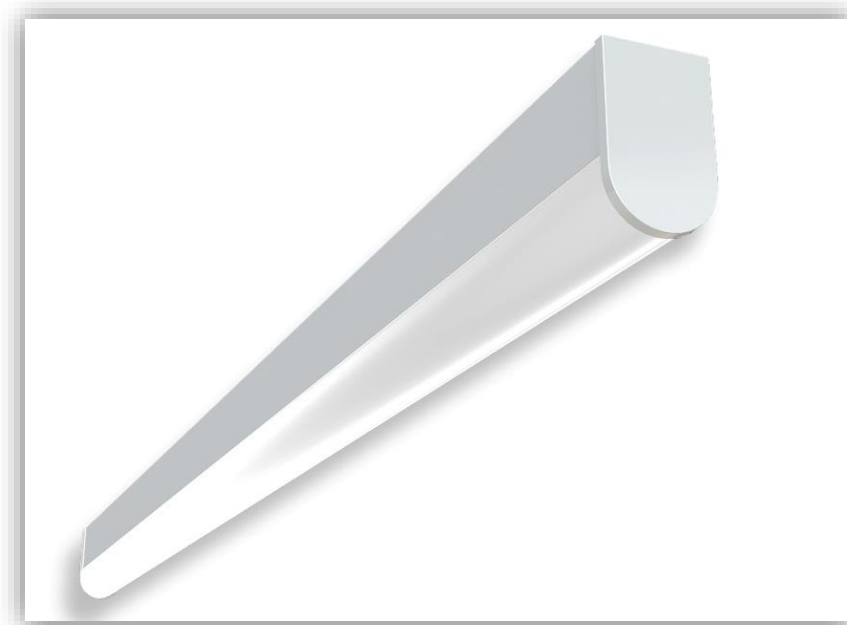


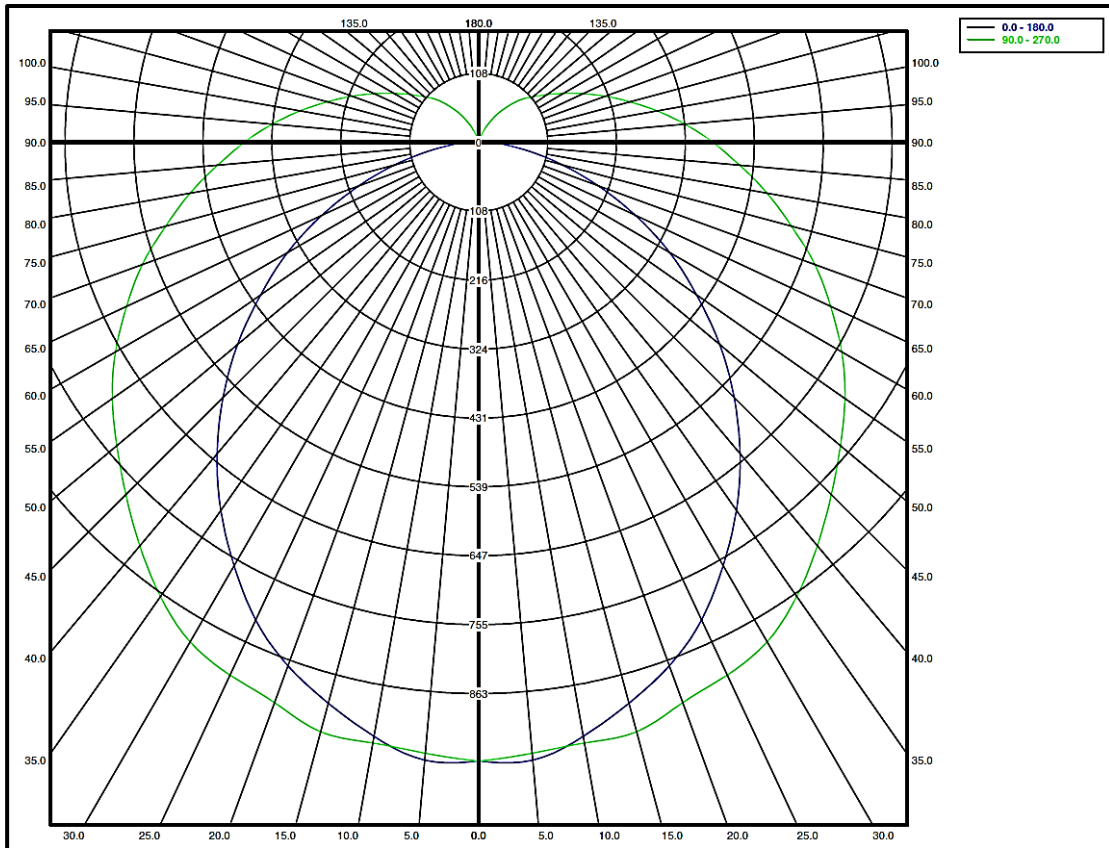
Image may differ slightly from actual unit

Summary of Results

System Power:	33.5W
Total Luminaire Output:	4003 Lumens
Luminaire Efficacy:	119 lm/W
Max Candela:	970.70 Candela

Calculated results may not be representative of field performance
Ballast factors have not been applied

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0-10	91.62	2.3%	90-100	212.7	5.3%
10-20	263.07	6.6%	100-110	148.79	3.7%
20-30	403.01	10.1%	110-120	99.54	2.5%
30-40	495.17	12.4%	120-130	64.04	1.6%
40-50	529.96	13.2%	130-140	37.75	0.9%
50-60	513.37	12.8%	140-150	17.51	0.4%
60-70	458.24	11.4%	150-160	5.29	0.1%
70-80	374.97	9.4%	160-170	0.69	0.0%
80-90	287.01	7.2%	170-180	0.01	0.0%
0-90	3416.42	85.4%	0-180	4002.74	100.0%

Candela Distribution

Horizontal Angle (Degrees)

	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	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969
5	971	966	967	965	960	965	967	966	971	966	967	965	960	965	967	966
10	944	944	952	948	955	948	952	944	944	944	952	948	955	948	952	944
15	909	923	931	944	955	944	931	923	909	923	931	944	955	944	931	923
20	872	884	904	934	934	934	904	884	872	884	904	934	934	934	904	884
25	825	842	871	908	920	908	871	842	825	842	871	908	920	908	871	842
30	765	788	839	883	903	883	839	788	765	788	839	883	903	883	839	788
35	703	733	797	848	868	848	797	733	703	733	797	848	868	848	797	733
40	637	678	749	806	825	806	749	678	637	678	749	806	825	806	749	678
45	566	613	698	759	780	759	698	613	566	613	698	759	780	759	698	613
50	493	549	642	712	739	712	642	549	493	549	642	712	739	712	642	549
55	417	482	585	666	700	666	585	482	417	482	585	666	700	666	585	482
60	346	418	528	622	656	622	528	418	346	418	528	622	656	622	528	418
65	271	351	480	577	608	577	480	351	271	351	480	577	608	577	480	351
70	200	292	430	527	560	527	430	292	200	292	430	527	560	527	430	292
75	135	237	380	476	507	476	380	237	135	237	380	476	507	476	380	237
80	80	191	333	425	459	425	333	191	80	191	333	425	459	425	333	191
85	39	149	289	380	410	380	289	149	39	149	289	380	410	380	289	149
90	18	118	255	340	367	340	255	118	18	118	255	340	367	340	255	118
95	10	92	219	298	324	298	219	92	10	92	219	298	324	298	219	92
100	6	72	184	259	284	259	184	72	6	72	184	259	284	259	184	72
105	4	57	154	223	245	223	154	57	4	57	154	223	245	223	154	57
110	3	47	128	189	211	189	128	47	3	47	128	189	211	189	128	47
115	2	39	108	160	180	160	108	39	2	39	108	160	180	160	108	39
120	1	31	92	136	153	136	92	31	1	31	92	136	153	136	92	31
125	1	24	78	116	130	116	78	24	1	24	78	116	130	116	78	24
130	0	17	64	100	111	100	64	17	0	17	64	100	111	100	64	17
135	0	12	52	83	95	83	52	12	0	12	52	83	95	83	52	12
140	0	8	38	66	76	66	38	8	0	8	38	66	76	66	38	8
145	0	5	26	49	59	49	26	5	0	5	26	49	59	49	26	5
150	0	2	16	33	40	33	16	2	0	2	16	33	40	33	16	2
155	0	1	9	20	25	20	9	1	0	1	9	20	25	20	9	1
160	0	0	4	10	12	10	4	0	0	0	4	10	12	10	4	0
165	0	0	1	4	5	4	1	0	0	0	1	4	5	4	1	0
170	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	17918	17918	17918
45	14411	11981	11900
55	12952	10785	11162
65	11235	9895	10501
75	8791	9180	9873
85	6394	8783	9487

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Values are in Lumens delivered to the Task Plane																	
0	4643	4643	4643	4643	4443	4443	4443	4443	4123	4123	4123	3803	3803	3803	3562	3562	3562	3402
1	4123	3883	3642	3482	3923	3723	3522	3362	3442	3282	3122	3162	3042	2922	2922	2842	2762	2642
2	3683	3322	3002	2762	3522	3202	2922	2682	2962	2722	2522	2722	2522	2362	2522	2362	2242	2121
3	3362	2882	2522	2242	3202	2762	2442	2161	2562	2282	2081	2362	2161	1961	2202	2001	1841	1721
4	3042	2522	2161	1881	2922	2442	2081	1841	2282	1961	1721	2081	1841	1641	1961	1721	1561	1441
5	2802	2242	1881	1601	2682	2161	1801	1561	2001	1721	1481	1881	1601	1401	1761	1521	1361	1241
6	2562	2001	1641	1361	2442	1961	1601	1361	1801	1521	1281	1681	1441	1241	1561	1361	1161	1081
7	2402	1841	1481	1201	2282	1761	1441	1201	1641	1361	1121	1521	1281	1081	1441	1201	1041	961
8	2202	1641	1321	1081	2121	1601	1281	1041	1521	1201	1001	1401	1161	961	1321	1081	921	841
9	2081	1521	1201	961	1961	1481	1161	921	1401	1081	921	1281	1041	881	1201	1001	841	761
10	1921	1401	1081	881	1841	1361	1041	841	1281	1001	801	1201	961	801	1121	921	761	680

